NewgenONE

Developer Guide

Version: 2024.2

Revision: 01

Disclaimer

This document contains information proprietary to Newgen Software Technologies Ltd. User may not disclose or use any proprietary information or use any part of this document without written permission from Newgen Software Technologies Ltd.

Newgen Software Technologies Ltd. makes no representations or warranties regarding any software or to the contents or use of this guide. It also specifically disclaims any express or implied warranties of merchantability, title, or fitness for any particular purpose. Even though Newgen Software Technologies Ltd. has tested the hardware and software and reviewed the documentation, it does not guarantee or imply that this document is error free or accurate regarding any particular specification. As a result, this product is sold as it is and user, the purchaser, is assuming the entire risk as to its quality and performance. Further, Newgen Software Technologies Ltd. reserves the right to revise this publication and make changes in its content without any obligation to notify any person, of such revisions or changes. Newgen Software Technologies Ltd. authorizes no Newgen agent, dealer or employee to make any modification, extension, or addition to the above statements.

Newgen Software Technologies Ltd. has attempted to supply trademark information about company names, products, and services mentioned in this document. Trademarks indicated below were derived from various sources.

Copyright © 2024 **Newgen Software Technologies Ltd.** All Rights Reserved.

No part of this publication may be reproduced and distributed without the prior permission of Newgen Software Technologies Ltd.

Newgen Software, Registered Office, New Delhi
E-44/13
Okhla Phase - II
New Delhi 110020
India
Phone: +91 1146 533 200
info@newgensoft.com

Contents

Preface **15**
Revision history 15
About this guide 15
Intended audience 16
Documentation feedback 17
Introduction to NewgenONE **18**
Features of NewgenONE 18
About NewgenONE server **25**
System architecture 25
Communicating with the server 26
Sample code demonstrating the usage of APIs 29
Running the sample 32
JMS integration with external application 32
JMS features 32
Proposed system 33
Specifications 34
Limitations 35
Action ID list 35
Use NewgenONE web services 40
Introduction 40
Registering a web service 40
WebServices workstep 41
Basic Details Tab 42
Entry settings tab 43
Data tab 43
Response Consumer JMS 44
Request consumer SOAP 44
WebService workstep 44
Options tab 45
JMS producer tab 46
Response consumer JMS 47
Webservice tab 48
Webservice consumer 51
Web service method invoker 51
Architecture for Web service method invocation 52
Registering invoker 54
API customization **57**
API Hook implementation 57
Classes and Components Required for Hook Implementation 57
Steps for implementing Hooks 58

Sample HookData.xml ... 59
Steps for deploying user's Hook implementation ... 62
For NewgenONE setup ... 62
External functions ... 62
Prerequisities ... 63
Procedure to follow ... 63
Coding ... 63
Compilation ... 64
Make jar ... 64
XML file ... 64
Vendor-specific XML files ... 65
Specification for writing an EJB ... 65
Configuration changes after deployment of bean ... 74
Deploying custom EJB on application server ... 80
Prerequisites ... 80
Procedure for developing or deploying custom EJB for Omniflow ... 80
Coding ... 81
Compilation ... 81
Deployment on JBoss EAP ... 82
Testing the deployment ... 82
Sample code for WFCustomBean.java ... 83
Classification of API calls ... 85
Connection functions ... 86
WMConnect ... 86
WMDisconnect ... 89
WMSetUserSession ... 92
Process related functions ... 95
WMGetProcessList ... 96
WMFetchProcessDefinitions ... 103
WMFetchProcessDefinition ... 108
WFGetProcessDefinition ... 115
WFGetProcessProperty ... 119
WMFetchProcessDefinitionStates ... 122
WMFetchProcessDefinitionState ... 125
WMChangeProcessDefinitionState ... 127
WFGetDMSFolderDefinition ... 131
WFGetProcessVariables ... 134
WFGetDynamicConstants ... 139
WFSetDynamicConstants ... 142
WFGetRecordMappedFields ... 144
WMSetTurnAroundTime ... 147
WFGetStateList ... 150
WFFetchProcessDefinition ... 153
WFSetQuickSearchVariables ... 157
WFGetQuickSearchVariables ... 160
WFGetProcessVariablesExt ... 163

Process variant related calls ... 167
WFCreateProcessVariant ... 167
WFGetProcessVariantInfo ... 173
WFModifyProcessVariant ... 176
WFGetProcessVariantList ... 181
WFChangeProcessVariantState ... 183
WFDeleteProcessVariant ... 186
Activity control functions ... 188
WMGetActivityList ... 190
WMGetStreamList ... 196
WMFetchActivityInstanceState ... 199
WMFetchActivityInstanceStates ... 205
WMChangeActivityInstancesState ... 212
WMFetchActivityInstanceAttribute ... 214
WMFetchActivityInstanceAttributes ... 223
WMGetActivityInstanceAttributeValue ... 230
WMAssignActivityInstancesAttribute ... 233
WMAssignActivityInstanceAttribute ... 238
WMFetchActivityInstance ... 241
WMFetchActivityInstances ... 244
WMGetActivityInstance ... 247
Queue management ... 249
WMGetQueueList ... 251
WFGetQueueProperty ... 261
WMChangeQueueProperty ... 269
WMChangeQueuePropertyEx ... 275
WMAddQueue ... 284
WFDeleteQueue ... 289
WMGetUsersInQueue ... 291
WFGetPreferredQueueList ... 294
WFSetPreferredQueueList ... 296
WFGetVariableMapping ... 299
WFSetVariableMapping ... 304
User management ... 308
WFGetGroupList ... 309
WMGetUserList ... 315
WFGetUserProperty ... 323
WFGetPreferences ... 326
WFSetPreferences ... 329
WFGetUsersForRole ... 332
WFGetUserWorkAudit ... 334
WFSetUserWorkAudit ... 337
WFGetDiversionforUser ... 339
WFSetDiversionforUser ... 342
WFGetReminder ... 345
WFSetReminders ... 349

WFGetUserQueueDetails ... 352
Workitem functions ... 355
WMCreateProcessInstance ... 361
WFUploadWorkItem ... 363
WMStartProcess ... 370
WMFetchProcessInstanceAttributes ... 373
WMGetProcessInstanceAttributeValue ... 377
WMAssignProcessInstanceAttribute ... 380
WMGetProcessInstance ... 383
WMFetchProcessInstances ... 386
WMFetchProcessInstances ... 391
WMFetchProcessInstanceState ... 396
WMFetchProcessInstanceStates ... 401
WMChangeProcessInstanceState ... 406
WMChangeProcessInstancesState ... 408
WMTerminateProcessInstance ... 411
WMTerminateProcessInstances ... 413
WMAbortProcessInstances ... 415
WMFetchWorkList ... 417
WFFetchWorkItemsWithLock ... 428
WMFetchWorkItems ... 441
WMFetchInstrumentsList ... 453
WFFetchWorkItemCount ... 464
WMGetWorkItem ... 467
WFGetNextUnlockedWorkitem ... 470
WFGetWorkitemData ... 479
WFGetWorkitemDataExt ... 485
WMFetchWorkItemAttributes ... 499
WMFetchWorkItemAttribute ... 503
WMGetWorkItemAttributeValue ... 508
WMAssignWorkItemAttributes ... 510
WFSetAttributes ... 516
WFGetExternalData ... 521
WFSetExternalData ... 541
WMUnlockWorkItem ... 545
WMFetchWorkitemStates ... 548
WMChangeWorkItemState ... 550
WMCompleteWorkItem ... 554
WFCompleteWithSet ... 557
WFGetLinkedWorkitems ... 560
WFLinkWorkitem ... 566
WFReferWorkItem ... 569
WFWithdrawWorkitem ... 571
WMReassignWorkItem ... 573
WMSearchWorkItems ... 576
WFSearchWorkItemList ... 588

WFGetWorkItemHistory ... 601
WFDeleteWorkItem ... 609
WMCreateChildWorkItem ... 612
WMFetchWorkItemCount ... 614
WFChangeWorkItemPriority ... 618
Report management ... 620
WFGetActivityDelayLog ... 621
WFGetExpiredWorkItemLog ... 626
WFGetHistory ... 629
WFGetProcessDelayLog ... 635
WFGetProcessInfo ... 638
WFGetProcessLoadHistory ... 667
WFGetProcessLog ... 671
WFGetQueueLoadHistory ... 676
WFGetTempQueueAssignmentReport ... 679
WFGetUserDiversionReport ... 682
WFGetUserPerformanceLog ... 684
WFGetWorkAuditHistory ... 688
WFGetWorkItemExceptionLog ... 691
WFParticipantReport ... 695
WFProcessingtimeReport ... 698
WFGetProcessTurnAroundLog ... 702
Miscellaneous Calls ... 706
WFAddToMailQueue ... 707
WFGenerateLog ... 711
WFGetIdforName ... 713
WFGetResponseFile ... 715
WFPickList ... 717
WFPurgeLog ... 720
WFGetActionList ... 722
WFSetActionList ... 726
WFGetSystemProperties ... 728
WFSetSystemProperties ... 731
WMPostConnect ... 733
WMPostDisConnect ... 736
WFGetBRTConfiguration ... 738
WFUpdateBRTConfiguration ... 741
WFExecuteDataExchange ... 744
WFSSelectWithColumnNames ... 749
WFSInsert ... 753
WFSUpdate ... 754
WFSDelete ... 755
WFSProcedure ... 756
WFGetNextDate ... 756
WFISWorkingDay ... 759
WFGetNNextWorkingDays ... 762

WFGetDateDifference ... 765
WFAdhocWorkItem ... 768
WFAddTask ... 769
WFGetTaskList ... 779
WFGetTasksForUser ... 783
WFInitiateTask ... 787
WFRevokeTask ... 791
WFReassignTask ... 793
WFDeclineTask ... 799
WFChangeTaskReadStatus ... 803
WFCompleteTask ... 805
WFHandleEvent ... 808
WFGetMonthEvents ... 811
WFFetchCaseWorkItems ... 815
WFChangeTaskPriorityStatus ... 822
WFGetTaskHistory ... 826
WFGenerateCaseSummaryReport ... 831
MigrateProcess ... 833
WFGetProcessGroupQueueProfileData ... 837
WFMigrateAndSetRightsData ... 843
WFInvokeDBFuncExecute ... 856
External interfaces ... 860
What is an external interface? ... 860
Server-side interfaces to be implemented for custom tool Windows ... 860
Basic REST Configuration for Product APIs ... 862
Connect ... 864
Disconnect ... 866
Search workitems ... 868
Get workitem property ... 874
Get workitem data ... 877
Save process variables ... 896
Get process variables ... 899
Get DMS folder index ... 905
Start a process ... 908
Delete a workitem ... 910
Lock workitem ... 912
Fetch workitem attributes ... 914
Complete workitem ... 928
Unlock workitem ... 930
Upload workitem ... 931
Get queue list ... 933
Fetch workitem list ... 945
Get activity list ... 959

Reassign workitem ... 962
Add to mail queue ... 963
Call server API ... 965
Upload workitem with document ... 965
Working with process-specific WAR files ... 970
Creating and deploying process-specific war files ... 970
Using process-specific war files ... 971
Interface Designer custom coding APIs ... 973
Set picklist header ... 973
Add a blank row to table or listview control ... 973
Add item in combo using itemLabel, itemValue and tooltip ... 974
Add item in table cell combo ... 974
Add or change zone on a field ... 975
Add rows with data provided by user ... 976
allowPrecisionInText ... 976
API to add rows with data provided by user ... 977
Change caption of section ... 978
Change color of a particular cell of a table ... 978
Check section completion ... 979
Clear combo box ... 979
Clear data of table ... 979
Clear items in table cell combo ... 980
Clear value of control ... 980
Common hook for change event on form ... 981
Complete work item ... 982
Custom code on adding row (post hook) ... 982
Custom code on changing table cell value ... 983
Custom code on deleting row (post hook) ... 983
Custom code on label click (as a link) ... 984
Custom code on modifying row (post-hook) ... 984
Custom code on opening of list view modalAPI ... 985
Custom code when richtext is loaded ... 985
Custom coding on add and save changes in a listview modal ... 986
Delete rows in grid control ... 986
Disable or enable a column of an Interface Designer table ... 987
Disable or enable auto-complete ... 988
Event execution on clicking a row of a listview control ... 988
Event execution on clicking of a sheet of a tab control ... 989
Event execution on clicking of a sheet of a tab control (using sheet label) ... 990
Event execution on expanding or collapsing of section ... 990

Event execution on loading of an initially collapsed frame 991
Expand or collapse richtext editor 991
Function on loading of form 992
Function on loading of sub-form 992
Get control value 993
Get defined zone list on the form at runtime 993
Get item count of combo 994
Get label of an item in combo 994
Get label of the selected item in combo box 995
Get mandatory controls list 995
Get richtext data (when it is opened) 996
Get row count of grid 996
Get selected rows data in a grid 997
Get selected sheet index of tab 997
Get state of all sections 997
Get value from table 998
Get value present in a particular cell of a table 999
Get value present in a particular row and column of a table 999
Get work item data 1000
Hide or show the add and delete buttons in listview 1000
Highlight grid row in Interface Designer 1001
Hook on closing of sub-form 1001
Hook on closing of workitem 1002
Hook on custom web service 1002
Hook on focus on table cell 1003
Hook on next previous batching button 1003
Hook on selection of row of table or listview 1004
Hook to get last select row 1004
Hook to handle custom key events on Interface Designer 1005
JS hook to prevent clearing options during DB linking 1006
nextPreviousAdvancedListviewPosthook 1006
onClickRadioButton 1007
Open overlay for table 1007
Post-hook on executeserverevent API 1008
Post hook on change 1008
Post-hook method when a row is selected in a picklist and okay button is clicked 1009
Post-hook on cancel click of picklist 1010
Post-hook on clear button of picklist 1010
Post-hook on DB linking 1010
Post-hook on duplicate row in listview 1011

Post-hook on save changes button of listview 1012
Post-hook on save of workitem 1012
Post-hook on search in a grid control 1012
Pre-hook to set coordinate values before focusing 1013
Pre-hook before loading of picklist 1013
Pre-hook before save and next click of tab control 1014
Pre-hook on sub-form 1014
Pre-hook on web service 1015
Pre-hook to close overlay of some listviews 1015
Pre-hook to open multiple sub-form window 1016
Reload contents of frame or section contents at runtime 1016
Reload tab sheet 1017
Remove item from combo 1017
Remove item from table cell combo 1017
Save work item 1018
Select particular rows of grid or clear row selection 1018
Set a particular cell disabled or enabled in a table 1019
Set and save richtext data 1019
Set custom masking pattern for a text control 1020
Set custom pattern 1020
Set data in a table cellAPI 1021
Set date range 1021
Set date range in table cell 1022
Set focus on control 1022
Set focus on table cell control 1023
Set masking pattern for a text control 1023
Set particular rows of table disabled 1024
Set particular sheet selected of a tab 1025
Set particular sheet selected of a tab using sheet label 1025
Set row style 1026
Set style 1026
Set SubForm dimensions 1028
Set tab style 1029
Set tab style by sheet label 1029
Set table cell read-only 1030
Set values 1031
Set visible or invisible particular column of a table 1031
Show alert dialog 1032
Show alert or confirmation dialog 1032
Show custom alert on cross button 1033

Show or hide particular cells of a table row 1034
Silent save in iform mobile 1034
Skip mandatory validation 1035
User-defined customized alert or confirm dialog actions 1035
User-defined table operations 1036
Interface Designer custom coding Java APIs 1038
Get data from database 1038
Save data in database 1038
Get activity ID 1039
Get activity name 1039
Get cabinet name 1039
Get process name 1039
Get server IP 1039
Get server port 1039
Get username 1040
Set value in primitive fields 1040
Set value in a Listbox 1040
Set table cell value 1041
Set value in controls 1041
Set value in Listbox controls 1042
Set value in Listbox and table or grid controls 1043
Add data to grid 1044
Clear table 1045
Get WDGeneralData object 1045
Get data from stored procedure 1046
Get value of primitive controls 1047
Get value of listview and table 1048
Get cell value of a normal listview or table 1049
Get value of controls in advanced Listview 1050
Set style of controls 1051
Set style for a group of controls 1051
Reset group 1051
Add an item in combo control 1052
Add an item in table combo control 1052
Remove items from combo control 1053
Clear items from combo control 1053
Remove item from the table cell combo control 1054
Clear table cell combo 1054
Set tab style 1055
Add zone 1055

Delete rows from grid ... 1056
Set tab style by name ... 1056
Get data from stored procedure (pOutputParamList) ... 1057
Get data from cache ... 1058
Set column visible ... 1058
Set column disable ... 1058
Execute custom code ... 1059
Validate submitted form ... 1059
Get data from the database with conditions ... 1060
Post hook on document upload ... 1061
Introduce workItemIn specific process ... 1062
Post hook export to PDF ... 1062
Post hook on document operations ... 1063
Clear DocList control ... 1063
Reorder columns ... 1064
Reusable business function ... 1065
Configuring a reusable business function ... 1065
Associating or disassociating a business function ... 1067
Downloading a reusable business function ... 1068
Modifying and reusing business functions ... 1068
Duplicating a reusable business function ... 1072
Data Model Designer APIs ... 1073
Creating new tables ... 1073
Input parameter ... 1073
Sample input ... 1077
Output parameter ... 1079
Sample output ... 1079
Errors and warnings ... 1080
Updating tables ... 1080
Input parameter ... 1081
Sample input ... 1083
Output parameter ... 1085
Sample output ... 1085
Errors and warnings ... 1086
Calling system functions ... 1087
InvokeDBFuncExecuteString ... 1087
InvokeDBFuncExecuteInt ... 1089
Rights migration APIs ... 1092
Get API WFGetProcessGroupQueueProfileData for populating the XLS sheet ... 1092
Set API WFMigrateAndSetRightsData ... 1097
Appendix: List of Error Codes with Messages ... 1108

Action IDs and corresponding actions 1113
Glossary 1117

Preface

This chapter provides information about the purpose of this guide, details on the intended audience, revision history, and related documentation for NewgenONE.

Revision history

Revision date	Description
December 2024	Revision: 01 Updated chapter: Upload workitem with document
October 2024	Initial publication

About this guide

This guide describes information on all the server-side and REST APIs used in NewgenONE.

The NewgenONE Developer Guide provides you with the following information:

About NewgenONE: This section provides you with an overview of the NewgenONE BPM System. It also provides details about its Features, the Standard NewgenONE Terminology, System Architecture, and the minimum System Requirements.

Getting Started: This section gives an insight into how to communicate with the NewgenONE Server, explaining how to use the NewgenONE API, which is supported by a sample code in Java.

Classification of Functions: This section details the various APIs supported by NewgenONE System. It categorizes the API calls under the classifications of Connection Calls, Process Related Calls, Queue Related Calls, User Related Calls, Workitem Related Calls, Reports Related Calls, and Miscellaneous Calls. This section elaborates on each of

the API Calls, detailing their utility, and describing their corresponding XML Input and Output parameters, Error Codes and Messages.

External Interfaces: This section is divided into two sub-sections. The first explains how to implement the server-side functions for getting and setting the properties of any CUSTOM Tool Window / External Interface. The second section explains how to deploy CUSTOM EJBs (to support a Custom API), on the NewgenONE Application Server.

Troubleshooting and Debugging: This section includes the details for troubleshooting and debugging.

Glossary: This section includes the description of all the terminologies used in the API Manual alphabetically.

Appendix: This section includes the list of all the API Calls along with their brief descriptions. This section also provides the complete list of Error Messages that can be returned from any of the NewgenONE APIs. It also details the list of Action IDs, corresponding to the actions/operations performed in the NewgenONE System, using which the Audit Trail is maintained in the system.

This guide assumes that you have a working knowledge of the following:

- The fundamentals and standard practices of your business area
- Database management operations

To ensure you are referring to the latest and most recent revision of this guide, download it from one of the following locations:

- Newgen Internal Doc Portal, if you are a Newgen employee.
- Newgen Partner Portal, if you are a Newgen partner.

Intended audience

This developer guide is intended for developers from internal or external product teams. The reader must be comfortable with API signature formats in JSON and XML to understand API requests and responses. Administrative rights might be required to perform the integration operations.

Documentation feedback

To provide feedback or any improvement suggestions on technical documentation, write an email to docs.feedback@newgensoft.com.

To help capture your feedback effectively, share the following information in your email:

- Document name:
- Version:
- Chapter, topic, or section:
- Feedback or suggestions:

Introduction to NewgenONE

NewgenONE is a scalable, multi-user rule-based Business Process Management System. In short, it can be defined as a complete software that enables the definition, implementation, monitoring, and management of components of a business process.

It allows organizations to streamline their business processes. Processes can be monitored and optimized using an extensive monitoring facility supported by the system.

The built-in RAD (Rapid Application Development) components of NewgenONE enable it to be rapidly deployed to automate a complete process. It provides a way to monitor and evaluate key performance indicators, the prerequisites needed to implement continuous improvement in business processes.

Built using open standards, it has seamless integration abilities allowing it to be introduced into any IT infrastructure.

For business processes like loan applications, insurance claims, and more., the high volume of work can be a big challenge. The key to accepting these challenges is to find innovative ways. NewgenONE is designed to meet these challenges and enhance business processes effectively. It helps in removing bottlenecks, improving productivity, and meeting deadlines. Whether your business is Manufacturing, Banking, Telecom, Distribution, Healthcare, Government, Utilities, or Insurance, your success is based on speed and control over the business processes. Now you can automate all your business processes using the general-purpose NewgenONE.

Features of NewgenONE

Following are the features of NewgenONE:

- Visual route designing
- Multiple business processes
- Version control
- Rule-based processing

- Parallel Processing
- Role-based routing
- Ad-hoc routing
- Holding workitems
- Queues
- Reassignment of workitem
- Load balancing
- Generation of responses and notices
- Event triggers
- Effortless remote administration
- Comprehensive reports and tracking
- Auditing of user work
- Audit log configuration
- Industry-standard implementation
- Standard front-end for processing - ImageWorks
- Integration via JMS
- WebService enabled
- Function catalogs
- Specialized interface for customer service agents
- Industry-strength security
- Escalation
- Enterprise-class scalability and availability

Visual route designing

- Graphical tool for defining business processes
- Disseminating work by defining different activities
- Supports both manual and automated activities
- Provides a set of Standard properties for each activity like data access, pre-defined filters, expiry, entry settings, and more.
- Support of customized properties for each workstep
- Assurance of the orderly and timed execution of tasks by expiry at the workstep
- Allows replication of tasks at 2 or more activities through copy-definition
- Provides compiled reports to measure correctness of process definition
- Convenient editing and deletion of business processes
- Support of Automated tools for Print/Fax/Mail/Archive
- Breaking down of complex processes into a number of re-usable simpler processes, by using Sub-Processes

Multiple business processes

- Supports the definition of multiple processes
- Also supports the definition of Sub-Processes

Version control

- Support of different versions of the same business process
- Facilitates the flow of work items in the earlier version, as well as the creation of new work items in the latest versions of the processes

Rule-based processing

- Rules for entering and exiting from a work step
- Definition of rules to direct the routing of workitems by the server
- Support of Expressions in Rule Definitions
- Supports the definition of rules on CONSTANTS the values for which can be set/ changed by the Process Manager as per the requirement of the process

Parallel processing

- Routing of copies of a workitem to more than one workstep for parallel processing
- Collection of copies of the workitem for further processing
- Facility to conditionally distribute workitems also available

Role-based routing

Departmental roles can be defined & routing rules can be configured on these roles

Ad-hoc routing

Supports the manual routing of work items any work step in a process. However this is an administrative task, available with the Process Manager

Holding workitems

Facility of holding work items for a specific period of time

Queues

- Supports the group and user queues
- Facility of adding users and tasks with the queue
- Supports process independent queues

- Facility of defining a coordinator for a queue
- Support of queue monitoring to the administrator

Reassignment of workitem

- Support of assignment of a workitem to an expert member of the same queue
- Reassignment rights on workstep

Load balancing

- Integrated intelligent load balancer, to maintain equal workloads across all participants of a process
- Facilitates load balancing at the servers, by supporting multiple processing servers for processing business rules

Generation of responses and notices

- Supports templates for standard responses/notices in MS Word and Excel
- Templates can be launched in the native application with data
- These responses/notices automatically get saved automatically with the workitem

Event triggers

- Supports the definition of triggers, which can be associated with rules, user actions, exceptions, and others
- Supports standard triggers like Mail, Launching external applications, executing programs, data-entry forms, and generating responses
- Allows the definition of customized triggers

Effortless remote administration

- Easy to deploy and administer
- Web browser-based UI for remote administration
- Definition, modification, and deletion of queues
- Definition of user and groups
- Rights to access workitems
- Progress tracking of workitems
- Remote monitoring of the queues, processes, and users
- Changing process states to enabled or disabled
- Start, suspend, terminate, and abort workitems
- Temporary diversion of one user's work to another

- Prioritize workitems
- Temporary inclusion of users to queues
- Ad-hoc routing of workitems
- Setting turn-around time for processes or activities

Comprehensive reports and tracking

- Supports graphical and transaction reports
- Web-based reports
- Reports for user and process performance
- Workload reports
- Reports to measure the correctness of process definitions
- Detailed process history reports
- Extensive statistic reports like process or activity turn-around times
- Detailed delay reports
- Exception reports

Auditing of user work

- Supports work audit
- Percentage of work to be audited is configurable
- Support of Audit Comments by the auditor
- If rejected then routes the work to the performer

Audit log configuration

Process managers can configure the system such that only a specified set of User/ System actions may be logged

Industry standard implementation

- WfMC compliant
- Supports interfaces 2 and 3 of WfMC standard
- Exposes API in the form of XML
- J2EE-compliant server implementation
- Mozilla browser on Linux OS enabled

Standard front-end for processing - ImageWorks

- Supports a standard interface for image-based processing
- Support of various tools to process the workitem

- Standard interfaces for the checklist, exception handling, actions, and document display
- Queue selection for processing
- Annotation facility for documents
- Recording of conversation
- Supports Referrals of workitems
- Fixed assignments of workitems to any user
- Easy searching of workitems
- Support of user filters
- Scan facility for paper documents
- Document type categorization
- Zoom-in, Zoom-out
- Rescanning of documents
- Auto separation using standard forms/barcodes and classification
- Auto registration
- Check-in and check-out for documents based on user rights
- Support of reminders and notifications
- Linking of workitems within or across the processes
- Facilitates automatic initiation of OS workitems in other processes, after completion of a process

Escalation

- Allows escalation of the status of work item if it is not processed at an immediate level to keep the track of subordinate's work and workload.
- Escalation ensures that the higher-priority task will be completed first and on time.
- Conditional escalation can also be defined in the process.
- Escalation can be set to individual users or a specific role.
- Escalation mail can also be sent as a group mail in which each member of the group receives the mail.

Integration via JMS

Enables the external clients to send messages to the MDB deployed on application servers to perform operations like creating, saving, and completing work items. Helpful in third-party integrations.

Web service enabled

- Enables the workitems to access the Web methods of a remotely deployed web service.
- Data can be exchanged between the process workitem and the web method based on the mapping defined as a part of the process definition.
- Supports both synchronous as well as asynchronous modes to invoke Web methods.

Function catalogs

Custom functions can be developed & made available in a process for use at multiple work steps.

Specialized interface for customer service agents

Specialized query desktop that enables the search and tracking of workitems in processes, while maintaining complete confidentiality of sensitive data associated with them.

Industry-strength security

- Definition of users and groups in the system
- Grant users access permissions on workitems through Queues and streams.
- Secure login and passwords for each user.
- Support for data and password encryption.

Enterprise-class scalability and availability

- Multi-tier architecture with each tier fully scalable
- Multiple Workflow servers that can abstract the complexity of the underlying Database server

About NewgenONE server

NewgenONE server is a multi-tier platform independent solution, built using robust server-side Java and J2EE technologies. It provides the facility to automate business processes for increased productivity, efficiency, and control. It controls workflow processes and maintains the integrity of process definitions. It provides standard workflow operations such as initiation of work items, processing rules, sequential, parallel, and ad-hoc routing of work items, and more.

The NewgenONE Server carries out certain periodic housekeeping functions to maintain the integrity of the workflow processes, check for expiry of work items and determine if any process is stalled.

The NewgenONE Server is designed to cater to high-volume transaction processing environments, by providing Load Balancing to prevent bottlenecks. It also provides a host of other operations, including the automatic triggering of external agents or applications, maintenance functions like automatic diversion of work items based on expiry or priority or threshold, and more.

The NewgenONE Server has been further empowered by Event Logging capabilities, thus providing a transaction log. The engine is based on server-side JAVA-based technology. It is designed to serve small as well as big corporate. It is capable of handling thousands of transactions per day.

It supports databases like Postgres and MSSQL. It provides EJBs for the complete logic of workflow, which can be deployed on standard application servers like JBossEAP and more. It also provides a complete set of XML application programming interfaces (API) for all the functions of a workflow engine.

System architecture

The highlights of the NewgenONE system architecture are:

- Scalable and platform-independent architecture
- J2EE-based architecture with proven design patterns like a business delegate, service locator, and session facade
- Web architecture is based on Model View Controller (MVC)

- Exposes consolidated functionality-level XML-based API for easy integration with client applications
- Exposes functionality-level Java Beans API
- Available on Windows, Linux, and Unix platforms
- LDAP Support - Synchronizes with directory service for user or group information
- Supports Windows NT and 2000 Active Directory, iPlanet, and NDS services
- Supports single sign-on for authentication

Communicating with the server

NewgenONE System exposes an XML interface for clients to communicate with it. This interface consists of a set of API calls, using which various front-end applications can be developed on the NewgenONE System.

All the APIs in the interface have a defined set of parameters to be passed to them in the form of an XML. Once this XML is received by the NewgenONE Server, its various tags are parsed to retrieve the necessary information, which is processed in the server, and the required data is sent back to the requesting client in the form of output XML.

Hence, the NewgenONE API is presented in the form of documented input and output XMLs in this manual.

Standard tags to be included in input XMLs for all APIs

This section explains all the mandatory tags which have to be included in the input XML for each of the API calls. Apart from these standard mandatory tags, various other tags may be sent for each of the APIs, depending on the API.

Tag	Description
<Option></Option>	This tag specifies the case-sensitive name of the API call to be invoked.
<EngineName></EngineName>	This specifies the name of the Cabinet/Database, which contains the Processes/Workitems/Users, for which the data is being requested.
<SessionId></SessionId>	This specifies the Session ID for the current logged-in user. This Tag is sent in all the APIs, other than WMConnect, in which case this is a part of the output XML returned by the Server.

Standard tags included in output XMLs for all APIs

This section explains all the tags which are returned in the output XML for each of the API calls. Apart from these standard mandatory tags, various other tags may be returned, depending on the API.

Tag	Description
<Option></Option>	This tag specifies the case-sensitive name of the API call whose output is contained in the following tags of the XML.
<MainCode></ MainCode>	This is the Error Code returned by WAPI. The value of the Tag is generally 0, which implies that the API has been executed successfully. This tag can also contain a value of 18, which is returned for most of the API calls that return lists, implying that there are no. more records to be returned. Hence this too is to be treated as a success parameter. Other than the above 2 codes, any other value in this tag implies an error in executing the API call
<SubErrorCode></ SubErrorCode>	This tag contains the sub-code for the main error returned by the API. This tag is returned only if a value other than 0 is contained in MainCode.
<TypeOfError></ TypeOfError>	This tag includes the type of error being returned. It can be Temporary, Fatal or Permanent. This tag is returned only if a value other than 0 is contained in MainCode.
<Subject></Subject>	This tag contains the description text for the Error. This tag is returned only if a value other than 0 is contained in MainCode.

Building a sample program to communicate with the server

NewgenONE provides an interface known as 'NGEjbCallBroker', that can be plugged into any Java client application to make call to a specified application server to invoke any API.

The following steps describe how to retrieve and use an object of the NGEjbClient class in NGEjbCallBroker, to communicate with the NewgenONE Server.

Preparing to program the Java client application

- Copy NGEjbCallBroker.jar file from the Application Server and place it in your working directory.
- Add the Jar file in the classpath of your application.

Creating and using an object of NGEjbClient in the client application

1. In your Java code, add the following import line:
   import com.newgen.omni.wf.util.app.*;
2. Then create an object of NGEjbClient, by adding the following lines to your Java code
   try

```
{
NGEjbClient ngEjbClient = NGEjbClient.getSharedInstance();
} catch (NGException ex) {
ex.printStackTrace();

}
```

3. Initialize the object by specifying the connection parameters corresponding to the Application Server to be connected to
   ngEjbClient.initialize("192.168.5.57", "8080", "JBoss EAP");
4. You can now execute any NewgenONE API on the Application Server, (whose connection information was specified in the initialize() method), by using the 'makeCall' function, and passing the input XML for the API as a parameter. This function returns the output XML for the API.
   try

```
{
String outputXML = ngEjbClient.makeCall(inputXML);
} catch (NGException ex) {
ex.printStackTrace();
}
```

5. After you have built your client application program, compile it.
6. Once the program is successfully compiled, you would need the following files to run it.
   - NGUtility.jar
   - jbossall-client.jar
   - jnet.jar
   - omnishared.jar
   - WFSClient.jar
   - ejbclient.jar
   - omnishared.jar
   - wfsclient.jar
   - wfsshared.jar
   - j2ee.jar OR (jts.jar & ejb.jar)
   - jndi.jar

7. For JBoss EAP application server, there is a jboss-ejb-client.properties configuration file in which you must provide the JBoss EAP application user. This file is present in the classpath. Open the property file in the editor, update the host, JNDI port, username, and password in the property file.
   The username and password are for the application user that is used to sign in to the JBoss EAP console. Before providing a username and password, kindly confirm whether they are correct or not by signing in to the JBoss EAP console. If there is no application user created, then one can create it by running the adduser.bat file present in the bin folder of JBoss EAP.

```
remote.connectionprovider.create.options.org.xnio.Options.SSL_ ENABLED=false
remote.connections=default
remote.connection.default.host=192.168.73.47
remote.connection.default.port =8080
remote.connection.default.connect.options.org.xnio.Options.SAS
L_POLICY_NOANONYMOUS=false
remote.connection.default.username=vikas
remote.connection.default.password=vikas123#
```

You can search for these files on the Application Server, to get a set compatible with your current installation of the Server.

Place these files in the working directory to run the client application successfully.

Click to view the Application server specific JAR files.

Sample code demonstrating the usage of APIs

Following is a sample of how to connect to the NewgenONE server. It demonstrates the usage of the WMConnect API.

```
import com.newgen.omni.wf.util.app.*;
import com.newgen.omni.wf.util.excp.*;
import java.io.*;
import com.newgen.omni.wf.util.xml.XMLParser;
import com.newgen.omni.wf.util.xml.exception.XMLParseException;
class OFAPIUsageSample {
    //Create an object of NGEJBClient
```

```
    NGEjbClient ngEjbClient = null;
    public OFAPIUsageSample() {
        try {
            start();
        } catch (Exception ex) {
            ex.printStackTrace();
        }
    }
    public static void main(String[] args) {
        new OFAPIUsageSample();
    }
    public void start() throws Exception {
        BufferedReader inBuf = new BufferedReader(new
InputStreamReader(System.in));
        System.out.println("\n\nEnter the Type of application server to which you
want to connect ");
        System.out.println("\t1 For JBoss");
        System.out.println("\t2 For WebLogic");
        System.out.println("\t3 For WebSphere");
        String appServerType = "";
        while (true) {
            System.out.println("Enter your choice : ");
            String appType = inBuf.readLine();
            int temp = Integer.parseInt(appType.trim());
            try {
                if (temp < 0 || temp > 3) {
                    System.out.println("Invalid Option .... ");
                    continue;
                }
            } catch (NumberFormatException ex) {
                System.out.println("Invalid Option .... ");
                continue;
            }
            if (temp == 1) {
                appServerType = "JBoss";
            } else if (temp == 2) {
                appServerType = "WebLogic";
            } else if (temp == 3) {
                appServerType = "WebSphere";
            }
            break;
        }
        System.out.println("Enter the IP address of m/c on which application
server is running : ");
        String jndiServerName = inBuf.readLine();
        System.out.println("Enter the Port address of m/c on which application
server is running : ");
        String jndiServerPort = inBuf.readLine();
        System.out.println("Enter the Engine Name : ");
        String engineName = inBuf.readLine();
        System.out.println("Enter the User name : ");
        String userName = inBuf.readLine();
        System.out.println("Enter the password : ");
        String password = inBuf.readLine();
        //Get an instance for NGEJBClient
        try {
            ngEjbClient = NGEjbClient.getSharedInstance();
```

```
        } catch (NGException ex) {
            ex.printStackTrace();
        }
        //Initialize the object with the connection information of the Application
Server to be connected to
        ngEjbClient.initialize(jndiServerName, jndiServerPort, appServerType);
        //Construct the input XML for WMConnect, inorder to connect to the Server
        String inputXML = "<?xml version=" + "1.0?>" +
            "<WMConnect_Input>" + "<Option>WMConnect</Option>" +
            "<EngineName>" + engineName + "</EngineName>" + "<Participant><Name>"
+ userName + "</Name>" + "<Password>" + password + "</Password>" + "<Scope></
Scope><UserExist>N</UserExist><ParticipantType>U</ParticipantType></Particpant>" +
            "</WMConnect_Input>";
        System.out.println("Input XML for Connection : " + inputXML);
        //Execute the XML using the makeCall function
        String outputXML = "";
        try {
            outputXML = ngEjbClient.makeCall(inputXML);
        } catch (NGException ex) {
            ex.printStackTrace();
        }
        System.out.println("Output XML for Connection : " + outputXML);
    }
}
```

Running the sample

To compile and run the above sample code, perform the following steps:

1. Copy the above code in a file and name it OFAPIUsageSample.java.
2. Copy the NGCallBroker.jar in the same path as OFAPIUsageSample.java.
3. Compile it by including the NGCallBroker.jar in the classpath.
4. Now copy the AppConfig.xml and Transaction.xml files in the same path. (You can search for these files on the Application Server).
5. Create a sub folder in the same path with the name lib.
6. Copy the following jar files in the \lib folder. (You can search for these files on the application server).
    - NGUtility.jar
    - jbossall-client.jar
    - jnet.jar
    - omnishared.jar
    - WFSClient.jar
7. Now run OFAPIUsageSample specifying all the above jar files in the classpath.

JMS integration with external application

This section includes activities required to integrate JMS with External Applications including JMS features, proposed system, specifications, and limitations.

JMS features

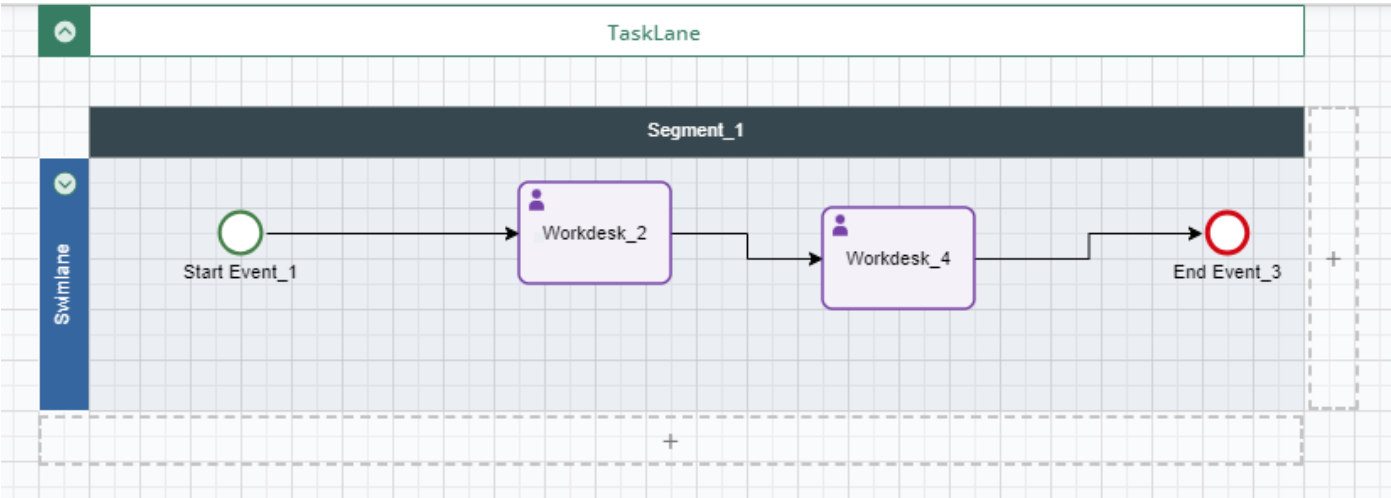
JMS allows users to perform the following operations in NewgenONE:

- Publishing and subscribing messages to JMS destinations in order to interact with external applications.

- The lists of operations that can also be done currently through Message Driven Beans deployed on the Application Server will be consuming messages from JMS destinations and putting them into WFJMSMessageTable.

Proposed system

This section describes the proposed system for JMS integration with External Applications.



For implementing JMS in our Workflow, the user has two injection points for asynchronous communication with any external applications.

Two worksteps are introduced for JMS communication:

- MessageProducer (Publisher)
- MessageConsumer(Subscriber)

In a process, there can be any number of “Publish” and “Subscribe” worksteps.

At MessageProducer workstep, messages (in the form of XML specified in the message template in publisher workstep properties) containing attributes, are created by the JMS Publisher Utility and then are published to JMS Destination. External application (Legacy System) is subscribed to that particular destination, fetches those messages, and carries out the required operations as said within the message.

The external application also publishes messages containing operations to be done, to a JMS destination on the application server where our deployed Message Driven Beans to consume those messages and enter the information along with destination name into a table called “WFJMSMessageTable”. Then another utility, the “JMS Subscriber Utility” utility fetches out the records one by one from “WFJMSMessageTable” and does the required operations. The application server used is the standard Application Servers having the JMS service provider inbuilt in the Application server. For message acknowledgment and the confirmation of the corresponding operation, a programmatic approach is used.

Specifications

This section describes the specifications required for JMS integration with external applications.

- To create, save, or complete workitems of the processes of NewgenONE, through JMS, the external client publishes a corresponding message to the destinations. Messages used for creating or saving (Set Attributes) and completing a workitem, arrive at their individual destination according to the operation to be performed. Message Driven Beans deployed on the application server for each operation to consume those messages and dumps them into “WFJMSMessageTable”.
- A dedicated destination for Create is to be created. This destination is dedicated to creating ProcessInstanceID.
- Messages that arrive at Create a type destination is solely be consumed by a Message Driven Bean deployed for the creation of workitems. Message-driven bean put all the arriving messages into WFJMSMessageTable along with the destination names from where these messages arrived.
- Message Driven Bean read a file that contains mappings between destination and cabinet name. For each destination, the JMS messages are inserted into the WFJMSMessageTable of all the associated cabinets.
- A JMS Subscriber utility is generated which fetches these messages one by one from JMS Message Table and processes them accordingly.
- WFJMSMessageTable contains all the information about arrived messages and their corresponding destination names.
- Changes are also required at the Process Designer end. Two types of JMS worksteps “MessageProducer” and “MessageConsumer” are introduced.

- A list of destinations existing/created on the application server is also to be retrieved. For this, an API call is to be exposed. This call is used by the Process Designer for fetching the list of destinations at JMS worksteps.
- At subscribe workstep only those variables' attributes are set for which modified rights are being given in its properties.

Limitations

This section describes the limitations of JMS integration with external applications.

- The destination at which MDB listens can't be changed dynamically.
- Our message-driven bean must be deployed on the same application server where the NewgenONE system is running.

Action ID list

This section describes the list of Action Ids.

WI_ACTION_1=was created by

WI_ACTION_2=was started by

WI_ACTION_3=was discarded

WI_ACTION_4=was routed to

WI_ACTION_5=was aborted by

WI_ACTION_6=was distributed to

WI_ACTION_7=was locked by

WI_ACTION_8=was unlocked by

WI_ACTION_9=was raised by

WI_ACTION_10=was cleared by

WI_ACTION_13=was set to

WI_ACTION_14=was decremented by

WI_ACTION_13_1=Priority of workitem

WI_ACTION_15=To-do item-status of <TODOITEMNAME> was modified to <TODOITEMVALUE>

WI_ACTION_16=was set to

WI_ACTION_17=was reassigned by <FROM> to <TO>

WI_ACTION_18=was added by

WI_ACTION_19=document type was annotated by

WI_ACTION_20=was completed by

WI_ACTION_21=Process state was changed by

WI_ACTION_22=Action <ACTIONNAME>was performed by

WI_ACTION_25=was terminated by

WI_ACTION_26=WorkItem state was changed by

WI_ACTION_27=was completed by

WI_ACTION_28=expired

WI_ACTION_32=was rejected by

WI_ACTION_33=was accepted by

WI_ACTION_34=Workitem Audit set to

WI_ACTION_36=linked to

WI_ACTION_36_1=Connected with

WI_ACTION_37=delinked from

WI_ACTION_38=was re-initiated to

WI_ACTION_39=was deleted by

WI_ACTION_41=was referred to

WI_ACTION_42=was revoked by

WI_ACTION_43=was submitted

WI_ACTION_44=was spawned with ProcessInstanceId

WI_ACTION_45=was Ad-hoc routed to

WI_ACTION_46=was spawned from ProcessInstanceId

WI_ACTION_47_1=Reminder for Time

WI_ACTION_47_2=was set

WI_ACTION_48=was deleted by

WI_ACTION_55=was undone by

WI_ACTION_56=was modified by

WI_ACTION_70=Mail sent successfully through

WI_ACTION_71=Attempt to send mail through

WI_ACTION_71_1=Workitem stopped by the system

WI_ACTION_71_2=By the following reason

WI_ACTION_71_3=failed

WI_ACTION_73_1=was escalated to

WI_ACTION_75=attributes were set by

WI_ACTION_79_1=Workitem suspended by system

WI_ACTION_79_2=due to following reason:

WI_ACTION_80=Calendar

WI_ACTION_80_1=was modified for process

WI_ACTION_83=Workitem data has been exported to database table

WI_ACTION_87=Workitem was released by

WI_ACTION_89=document was checked-out by

WI_ACTION_90=document was checked-in by

WI_ACTION_91=document was undo check-out by

WI_ACTION_92=document was transformed by

WI_ACTION_93=document was deleted by

WI_ACTION_94=document was added creating new version by

WI_ACTION_95=document was overwritten by

WI_ACTION_96=document was downloaded/printed by

WI_ACTION_97=document was added by

WI_ACTION_98=document was added creating new version by

WI_ACTION_99=document was overwritten by

WI_ACTION_104=was responded by

WI_ACTION_105=was rejected by

WI_ACTION_107=Calendar

WI_ACTION_107_1=was added for process

WI_ACTION_109=Child workitem was created

WI_ACTION_110=Child workitem was deleted

WI_ACTION_112=Mail initiated to

WI_ACTION_113=workitem assigned to <PREV> but diverted to <TO>

WI_ACTION_114=Workitem was collected at

WI_ACTION_115=Child workitem(s) deleted on collection.

WI_ACTION_123=Diverted workitem was rolled back to

WI_ACTION_124=set Work Audit.

WI_ACTION_125=modified Work Audit.

WI_ACTION_200=Workitem was opened by

WI_ACTION_1001=was split from

WI_ACTION_800_T=was temporarily hold by

WI_ACTION_800=was hold to activity

WI_ACTION_801_T=was unhold from temporary hold by

WI_ACTION_801=was unhold from activity

WI_ACTION_701=task was initiated by

WI_ACTION_701_assgnto=and assigned to

WI_ACTION_702=task was completed by

WI_ACTION_703=task was revoked from

WI_ACTION_704=task was added by

WI_ACTION_706=Data was set on task

WI_ACTION_707=was diverted to

WI_ACTION_708=task was declined by

WI_ACTION_709=task was reassigned by

WI_ACTION_710=task was expired on

WI_ACTION_711=task was escalated on

WI_ACTION_712=task was unlocked by

WI_ACTION_713=task was approved by

WI_ACTION_714=task was rejected by

Use NewgenONE web services

This section describes how to use NewgenONE web services including introduction, register web service, integrate workstep, web service method invoker, web service method architecture, register invoker, and utility screen for configuration server.

Introduction

A web service is a collection of platform-independent protocols used for exchanging data between applications over the Internet. A Web service uses the XML format described in WSDL (Web Service Description Language) to communicate over computer networks.

The process designed in NewgenONE can be invoked as a Web service to provide communication between different applications or systems.

The NewgenONE process can be invoked as a Web service in two ways.

- Synchronous
- Asynchronous

When Synchronous Web service is invoked, the user waits for a response after completion of the Process Instance. When a user invokes an asynchronous web service of process, he receives a response on JMS Destination after completion of the Process Instance.

To invoke a specified web service, it needs to be first registered in the Process Designer. The Tools menu of the Process Designer is used to register and configure a web service, as described in the next section, which has been referred from Section-4, Menu Options of Admin Manual.

Registering a web service

The Register Catalog option of the Tools menu is used to include the new offline functions and also configure a Web service, which can be invoked from the process.

To register offline functions and Web-Service methods:

1. Click the **Tools** menu in the Process Designer, and then click **Register Catalog**.
2. The Catalog Definition dialog appears. This interface has two tabs: WebServices and Catalog.
3. To Configure and register a new Web service, select the WebServices tab.
4. The Web Services tab has the following option through which the required web service can be registered in the process:
   WSDL Location: The user can directly specify the location of the WSDL corresponding to the required web service.

To register a Web service using the WSDL path:

1. Click the **New** button.
2. Enter the URL of the Web service in the Specify WSDL Location text box. The Go button gets enabled.
3. Click the **Go** button to display the web service name and methods exposed by the specified Web service in the Service Name and Method Name selection lists.
4. Select the required Service Name and Method Name from the respective selection lists.
5. Click the **Register** button to register the specified Web service. The registered Web services are displayed in the Available WebServices frame.

WebServices workstep

The WebServices Workstep enables any external client to publish the required message to the destinations in order to perform operations like creating, saving, and completing work items in business processes. The Webservices functionality enables the worksteps to invoke the methods of the remotely deployed Webservices.

This work step has the following four sub-types:

- **Message Producer:** This workstep is mainly used to exchange the workitem data with External Applications, via JMS messages. Message Producer work step will publish a message containing XML to a particular JMS Destination. After publishing the XML, the workitem will move further in the process, while the External application will subscribe to that particular destination on the Application

Server and will carry out the required operations in their system, as specified in the message XML.

- **Message Consumer:** This workstep type is the opposite of the Message Producer workstep. The Message Consumer work step will consume the JMS messages published by external applications. MDBs (Message Driven Beans) will be deployed on an Application Server, which will consume the messages from the destination and carry out operations like Create, Save, Done & SaveAndDone on the workitems in the process.
- **Webservice:** Webservice workstep enables you to invoke an external webservice in the current workflow process. Using this workstep, you can invoke a web method of an existing webservice in the current workstep.
- **WebService Consumer:** Webservice Consumer enables you to define a workstep, which consumes the values returned by a Web service. The required web method will be executed and the result returned by the method will be used to set values of the process variables. This type of workstep is mandatory when the asynchronous Webservice invocation through the Webservice workstep is done.

To define the properties for the WebServices Work Step:

1. Select the WebServices workstep from the ToolBox.
2. Place it in the work area. Now double-click it to invoke the WebServices Work step Properties.

The Integration Workstep has the following tabs: Basic Details, Entry Settings, Requirements, Attachments, Webservice, and Data.

The fourth tab is changed to either Webservice, Response Consumer JMS, Response Consumer SOAP, or Request Consumer SOAP, when the 'Type' is selected as Webservice, Response Consumer JMS, Response Consumer SOAP, or Request Consumer SOAP, respectively.

Basic Details Tab

To view the Basic Details tab:

1. Click **Basic Details.** The Activity tab appears.

2. Specify the Name and Description for the work step.
3. Select the Type for the step. It can be ‘Response Consumer SOAP’, ‘Response Consumer JMS’, ‘Request Consumer SOAP’, or ‘Web service’.
4. Click **Apply** to select the icon.
5. Select the Target Work step on which the work item must be routed after this work step.
6. Click **Apply** to save the changes.

Entry Settings and Data tabs are similar to the Introduction tab.

Entry settings tab

This tab is used to set the entry criteria for the Integration type of work step.

To set the entry criteria for WebServices workstep:

1. Navigate to the **Entry Settings** tab.
2. Then, click **Add** to specify the entry settings. The Rule Definition dialog appears.
3. Specify the rule condition.
4. Click **Add** to add the condition.
5. To modify the condition, select it, make the changes, and then click **Modify**.
6. To delete the condition, select it and then click Delete.
7. Specify the Operation for the condition. It can be Set, Increase Priority, Decrease Priority, Trigger, Commit, Call, Set and Execute, and Set Parent Data.
8. Click **Add** button, to add the Operation type to the Operation list.
9. To modify the operation, select it, make the changes, and then click **Modify**.
10. To delete the operation, select it and then click **Delete**.
11. You can increase the order of the rule execution by clicking on .
12. You can decrease the order of the rule execution by clicking on the button.
13. Click **OK** to save the changes, else click **Cancel**.

Data tab

On the basis of the type of work step selected in the Basic Details tab, the queue and external data table variables on the Integration type of work step can be given read or modify rights.

Response Consumer JMS

For the Response Consumer JMS work step type, the user can give only read rights to the variables.

To view the Response Consumer JMS tab:

1. Go to the Basic Details tab and select Response Consumer JMS from the Type dropdown list given in the Webservice Details section.
2. Response Consumer JMS tab is displayed in place of the Data tab.

Only the variables that are given Read permissions on this workstep can be used in creating the XML message in the Message Producer type work step.

Request consumer SOAP

In the case of the Request Consumer SOAP type work step, the data tab is not required, as the intent of the workstep is to consume the incoming JMS message to perform operations like Create, Save, Done, and Save and Done on the workitems at this step.

However, in order to save the Data from the incoming Message, into the required workitem, there will be a need to search the workitem based on some variables, and also once the workitem has been found, update some data in the required variables as specified in the message. For this purpose, 'Search' and 'Update' permissions are granted to variables in the Message Consumer Tab, explained later in this chapter.

The Data Tab will not be visible in case the workstep type has been selected as Response Consumer JMS or Response Consumer SOAP. Similarly, in the case of the WebService Consumer type workstep, the Data Tab will not be visible.

WebService workstep

In the case of the WebService workstep, all the queue and external variables will be available in the Data Tab. Both Read and Modify access permissions can be granted to variables in the tab. Read-only permissions will allow the variables to be passed as input

parameters to the webservice, while modifying only access permissions will allow the setting of these variables with the output parameters/return values of the web service.

All variables that have been granted “Read Only” access will be available for forward mapping with the webservice parameters, and ones that have been granted modify permissions will be available for reverse mapping. Users must grant both Read and Modify permissions incase the variables are required for specifying both forward as well as reverse mappings with webservice parameters.

Options tab

To view the options tab:

1. Click **Options**, the Options tab is displayed.
2. NewgenONE ensures timely execution of workitems on a workstep, by means of expiry intervals that can be set, such that in case the workitem is not processed within that time range, it must move ahead. For setting the expiry on the work step, select Expires After option. Select the date after which the work items will expire on that work step, and get routed to the ‘Target Workstep’. The Expires After option lists all the Date type variables in the process. To specify the expiry period, select the Date +(plus)/-(minus) the no. of days and hours after which the workitems will expire.
   For example, the expiry date can be specified as 12 days after the Entry Date Time. User can specify a fixed value for Days and Hours, by selecting the <constant> option, or simply select a defined constant from the list, which is expected to have a valid integer value at run-time.
3. After the work items are expired, they can be routed to another work step. Select the work step from the Route To combo box.
4. Select the Trigger option to invoke the trigger on expiry. The list of available triggers is displayed.
5. Specify the turnaround time for the work items on the work step. Turnaround time specify the time at which a work item must be processed at this work step. If the work items are not completed within that amount of time then they will be displayed as Delayed in the Process Manager.

> The Turn Around time on a workstep is simply used to highlight all delayed workitems at run-time. It does not route the workitems out of that workstep, like in case of expiry, where workitems are routed to another workstep.

6. The Turnaround time can be specified a Days or Hours or a combination of both.
7. Click **Apply** to save the changes made.

JMS producer tab

This tab is used to configure the exchange of workitem data with External Applications, via JMS messages.

To view the JMS Producer tab:

1. Click **JMS Producer**. The JMS Producer tab appears.
2. Specify the IP Address of the Application Server where the destinations are defined.
3. Specify the Port Id for the Application Server on which the destination names (or message queues) are present.
4. Specify the Type of the Application Server, whether WebSphere, WebLogic, SunOne, etc.
5. Click **Connect** button to connect to the Application Server, and get the list of all Destination names existing on it.
6. Depending on the Destination Type selected, the fetched Destination Names get populated in the Destination Name List. If Destination Type is selected as Topic, then all the Topic Names are populated in the Destination Names List. If however Destination Type is selected as Queue, then all the Queue Type Destination Names are populated in the list.

   In the Topic type, clients address messages to a topic. The Application Server takes care of distributing the messages arriving from a topic's multiple publishers to its multiple subscribers. Topics retain messages only as long as it takes to distribute them to current subscribers. While in the queue type, each message is addressed to a specific queue, and receiving clients extract messages from the queue(s) established to hold their messages. Queues retain all messages sent to them until the messages are consumed or until the messages expire.

7. Select the Destination Name from the selection list containing all the Destination Names on the specified Application Server.

   If the user selects the "Topic" destination type, this Destination Names List will be populated with the Topic type destination names and if the user selects the "Queue" destination type, then it is populated with the "Queue" type destination names.

8. Specify the variables that will form a part of the JMS Message. All the queue variables and the external data variables that have been given the read access permissions on this work step, along with all system variables, will be available in the Message variables list. Select the required variable and click Add to add the variable to the Message. All the variables added in the message will be replaced by their actual values at run-time, in the XML to be sent to the specified JMS Destination. This configures the Integration workstep as the Message Producer step.

Response consumer JMS

This tab is used for setting properties of the workstep to consume or retrieve messages from the external application and perform Create, Save, and Complete operations on workitems, as specified in the message received. The messages that will be received will be in an XML format as specified by the NewgenONE system and will contain variables that will be replaced by the values indicated in the XML, for a workitem.

Thus at the time of configuring this step, the user should have a sample message in the form of an XML on the hard disk, which will be required to map the variables in the XML with the Process Variables of the process.

To view the Response Consumer JMS tab:

1. Click **Response Consumer JMS**. The Response Consumer JMS tab appears.
2. Click **Get List**, to get a list of all the Destination Names existing on the Application Server. The following screen appears, prompting the user to specify the supervisor login information and the cabinet to be connected to.
3. Specify the Supervisor Login credentials and the cabinet name in the above interface and click **OK**. The system will identify the Application Server on which the cabinet is configured, and get a list of all the Destination Names existing on that server. These destination names will automatically be filled in the Destination Name selection list in the Message Consumer Tab.
4. Select the required Destination Name. The Import XML button gets enabled.
5. Click **Import XML**, to specify the location of the sample XML file provided by the external systems, as per the specifications of the NewgenONE system. This XML file, once imported in the process facilitates to integrate of the external data with the NewgenONE data. The XML tags in the XML file are used in searching

workitems in the NewgenONE as well as mapping the NewgenONE process variables with the external application data, such that the value of the external application data variables can be updated in the corresponding workflow process variables for the searched workitem.

6. Once the XML has been imported into the process, the user must configure the Message Properties section, which provides the configuration or mapping of the message data (variables that exist as tags in the XML) with the process variables of NewgenONE.
    - Message Data lists all the external application variable names found in the XML imported on this step. Check the variables that need to be mapped with the process variables.
    - Select the corresponding Process Variables from the Process variables lists that appear against each external application's message variable. All system variables and Queue, and external data variables that have been given Read access permissions on this step will be available in the mapping list.

      The Process Variable list will be enabled only if the user checks the message variable. Thus the user will be able to map the process variables for search and update, only if the corresponding message variable is checked.

    - Check the Search checkbox against all the message variables that may be used by the NewgenONE server for searching the workitems.
    - Check the Update checkbox against all the message variables whose values are to be updated into the corresponding selected process variables.

      It is mandatory to map the process data with the imported external data if the latter is used for either in searching and updating work items.

Webservice tab

This tab is used to configure the WebServices workstep, to invoke a specified webservice for all workitems that pass through this step in the business process. When the workitem comes on this workstep, the webservice will be invoked either synchronously or asynchronously.

To View the Webservice tab:

1. Click Webservice. The Webservice tab is displayed, as shown in the following figure:
2. Check Proxy Enable in case the webservice is to be invoked via an HTTP proxy server.

> The user simply needs to check this option at design time. Proxy Server Name and Proxy Server Port will be asked from the user while registering the Webservice utility in the Configuration Server.

3. Specify the Time Out Period, which is the time in seconds that the server will wait for the remote webservice to respond, before returning back from the failed attempt.

> If the user will not specify any timeout period, then it will be treated as 0 and thus will be taken as an infinite amount of time set for that particular webservice on that particular Integration workstep.

4. Specify the Invocation Type, which is the technique with which the webservice methods are to be invoked. The following are the three different modes of invoking a Webservice:
    - **Fire and Forget:** In this type of invocation, the server will simply invoke the webservice and continue the workitem further in the process. It will not wait for any Status or response from the webservice.
    - **Synchronous:** In this type of invocation, the server will invoke the Web method of the Webservice in a synchronous manner. In this technique, the server will block the step, until the Web method executes successfully and a response is received. Then only will the workitem be processed further in the process.
    - **Asynchronous:** In this type of invocation, the server invokes the specified Web method of the Webservice in an asynchronous manner. In this technique, the server will not wait for the response and continue processing the workitem routing it further in the process. Only when the webservice response is received will the workitem be updated. When the Asynchronous option is selected, the user will be prompted to select the JMS Subscriber Workstep. All the worksteps that have been configured as the Message Consumer Worksteps in the current process will fill up in the JMS Subscriber Workstep list.

> - In case an asynchronous mode of invocation is selected and the web service invoked returns some values, which may be required for setting the values of

process variables, the Webservice Consumer workstep must follow the Webservice workstep in the process.

- When the Webservice is called synchronously, the calling thread is blocked. As a result, the workitem will not be routed for further processing until the webservice provides some response. While in an asynchronous call, the workitem does not wait for the invoked webservice response to come for continuing with its further tasks.

5. Select the Registered Services from the list of all webservices that have been registered in the current process using the Register Catalog menu option.
6. Select the Registered Method corresponding to the selected WebService. On selecting the web method, the Map Data button is displayed.
7. Click the Register button to open the Catalog Registration screen for registering webservices in the current process.
8. Click Map Data to map the process variables with the various parameters of the web method. Clicking this button displays the various process variables in the Forward Mapping and Reverse Mapping tabs. Only those queue and external data variables, which have the Read access permissions on the workstep, will be available in Forward Mapping tab. The variables with the Modify access rights are displayed in the Reverse Mapping tab.

   Forward Mapping Tab: This tab enables the user to map the input parameters of a Web method with the workflow process variables. Thus all the input parameters of the web method are displayed on the LHS, along with the workflow process variables in the selection lists on the RHS. To map the variables, the user can check the web method parameter and select the process variable in the corresponding selection list. This mapping ensures that at run-time the values of the selected process variables will be passed to the corresponding mapped web method parameters.

   Reverse Mapping Tab: This tab enables the user to map the output parameters of a Web method with the workflow process variables. Thus all the workflow process variables are displayed on the LHS, along with output parameters of the web method in the selection lists on the RHS. To map the variables, the user can check the process variable and select the web method parameter in the corresponding selection list. This mapping ensures that at run-time the values of the output parameters returned by the web methods will be set in the corresponding mapped process variables.

9. Click **OK** to save the settings and exit the Integration Workstep property screen.

Webservice consumer

This tab is used to configure the Integration workstep, to consume the response of the web method that may have been invoked asynchronously in a previous webservice type of workstep.

In the Webservice Consumer workstep, the Message Consumer tab is displayed in the disabled mode and it displays the default destination name.

This type of workstep must be placed in the process if any other integration workstep in the process has been configured as Webservice type, and a web method is invoked from it in an asynchronous way.

Web service method invoker

Scope and Requirement in NewgenONE:

Integration with external applications exposed as web services. A provision to invoke any exposed web service method.

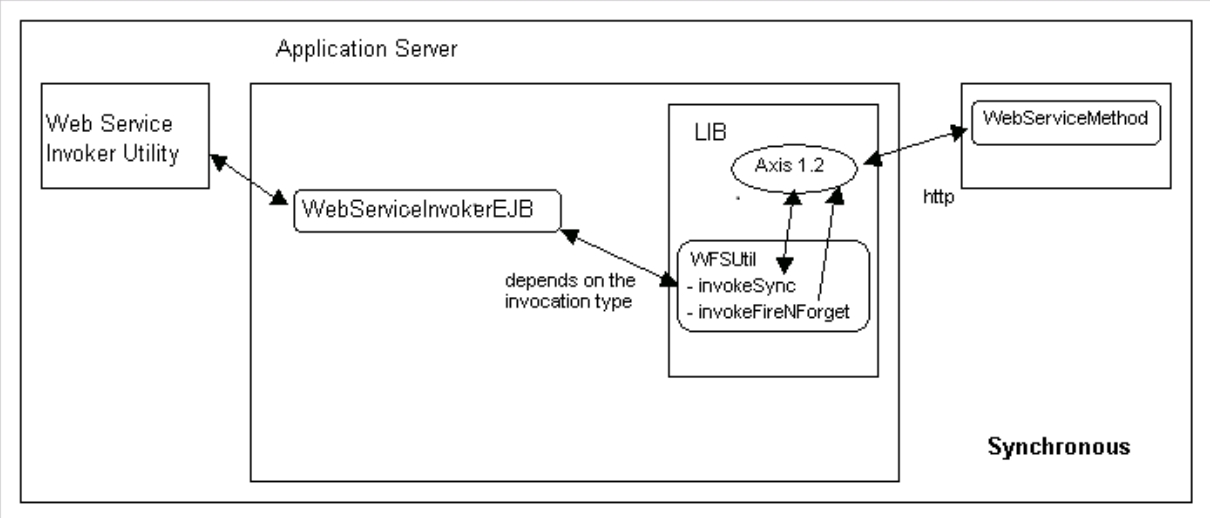
Important

1. Integration workstep will have a subcategory -> Web service workstep.
2. Users can associate only one web service' method with one workstep.
3. Just like external methods/functions, web service methods also have input and output parameters, that can be mapped to process/ queue variables.
4. The term "Forward mapping" is used for mapping queue/ process variables to input parameters [if any].
5. The term "reverse mapping" is used for mapping output parameters [if any] to process/ queue variables.
6. A new utility is required that would process the workitems on web service activity.
7. The utility will delegate the responsibility of invocation of web service' method to some ejb deployed at the application server.
8. Invocation of web services can be synchronous as well as asynchronous.
9. Synchronous means utility will wait for the response from the web method for every invocation, next invocation [for next workitem] will be made after getting the response for the first.

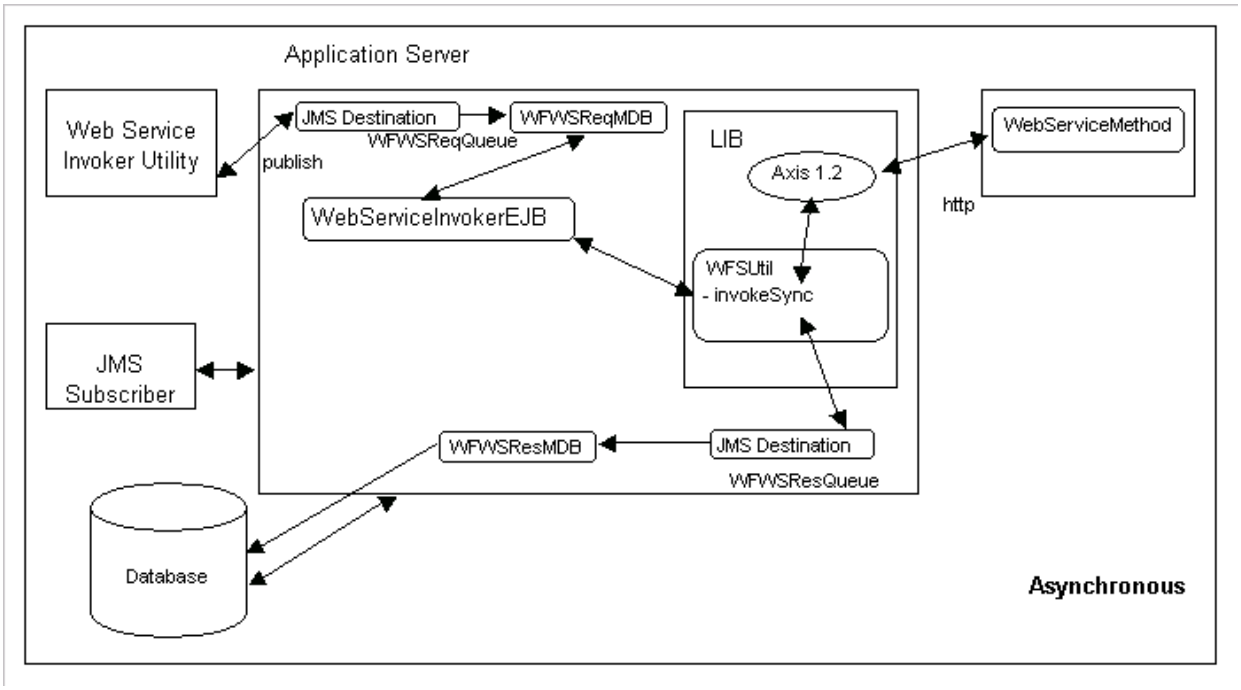
10. Asynchronous means utility will not wait for the response for one invocation but it will pick workitems one after the other and will invoke the associated method to the activity. Axis 1.2 provides callback and polling for asynchronous invocation.
11. For synchronous invocation, workitem will not be completed at the workstep unless the response is obtained. Whereas for asynchronous invocation Web service workstep will always be followed JMS Subscribe workstep. And workitem will be completed from web service workstep after invocation of web service' method. The response will be published to some JMS destination that will be processed by the JMS Subscribe utility.
12. In case invocation type is asynchronous Route designer must add a JMS Subscribe workstep as the target workstep of Web service workstep.
13. Boolean will be mapped to integer, 0 [zero] will be treated as false and non-zero as true.
14. To support complex data types a java bean is required to have a getter setter for all the properties and this class must have a package "com.newgen.omni.wf.util.ws.data" and this class must be added lib directory of the application server.
15. In the case of asynchronous invocation, MDB will invoke EJB' method. Now, till the time web service method is being executed both the resources; MDB as well as EJB will be blocked. [Refer Architecture Diagram, internal specification server]
16. Invocation types supported are
    - FireAndForget
    - Synchronous
    - Asynchronous
17. For the webservice method return value will be treated just as reverse mapped parameters.
18. The user has to create the two destinations [queues] manually named "WFWebServiceReq" and "WFWebServiceRes" before deploying wfs_ejb.

Architecture for Web service method invocation

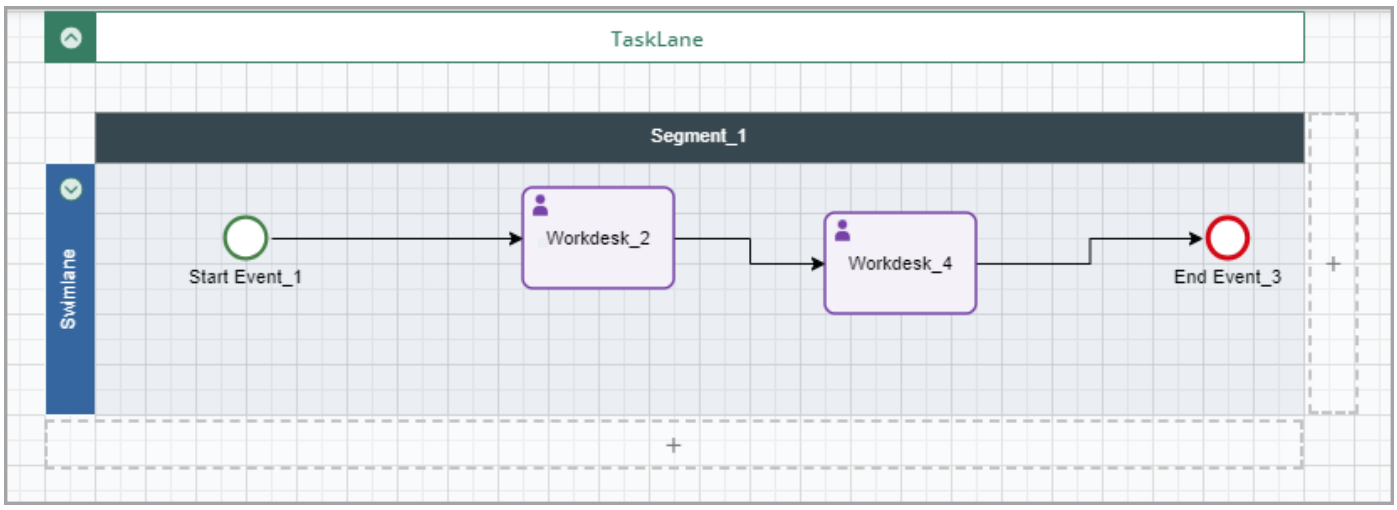
Synchronous invocation

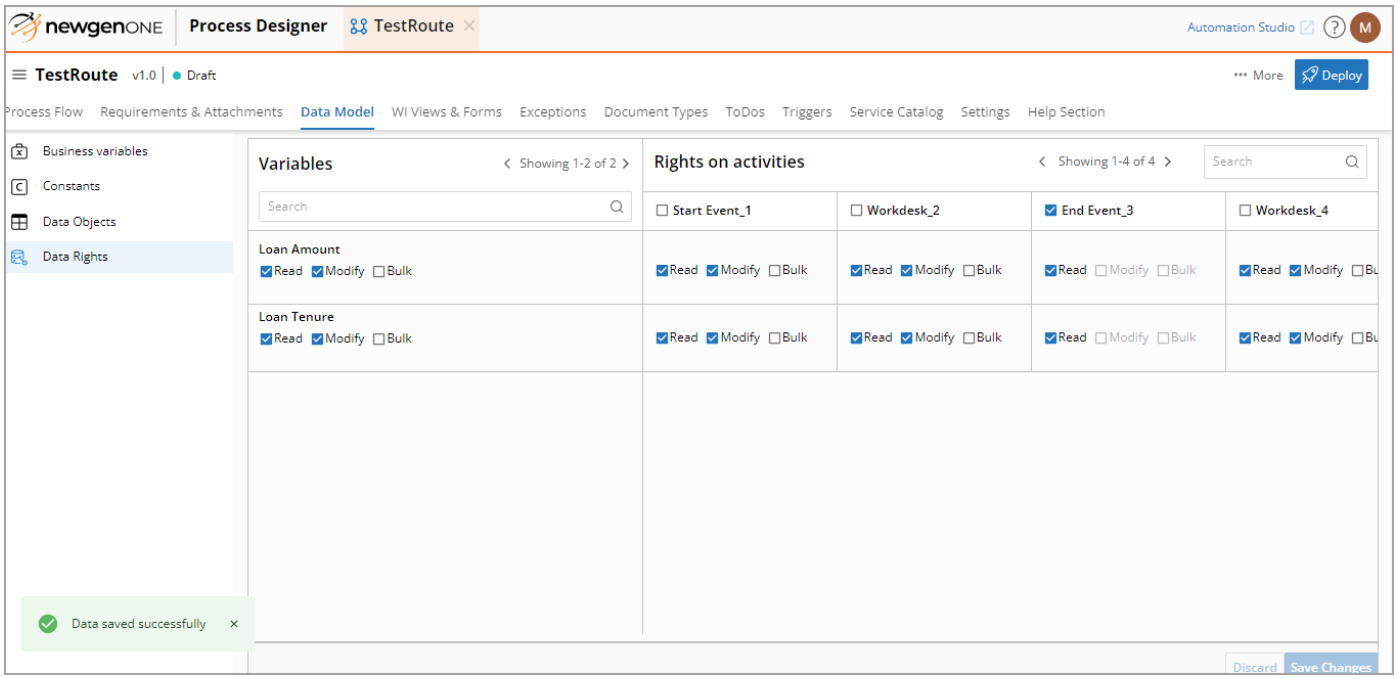


Asynchronous invocation



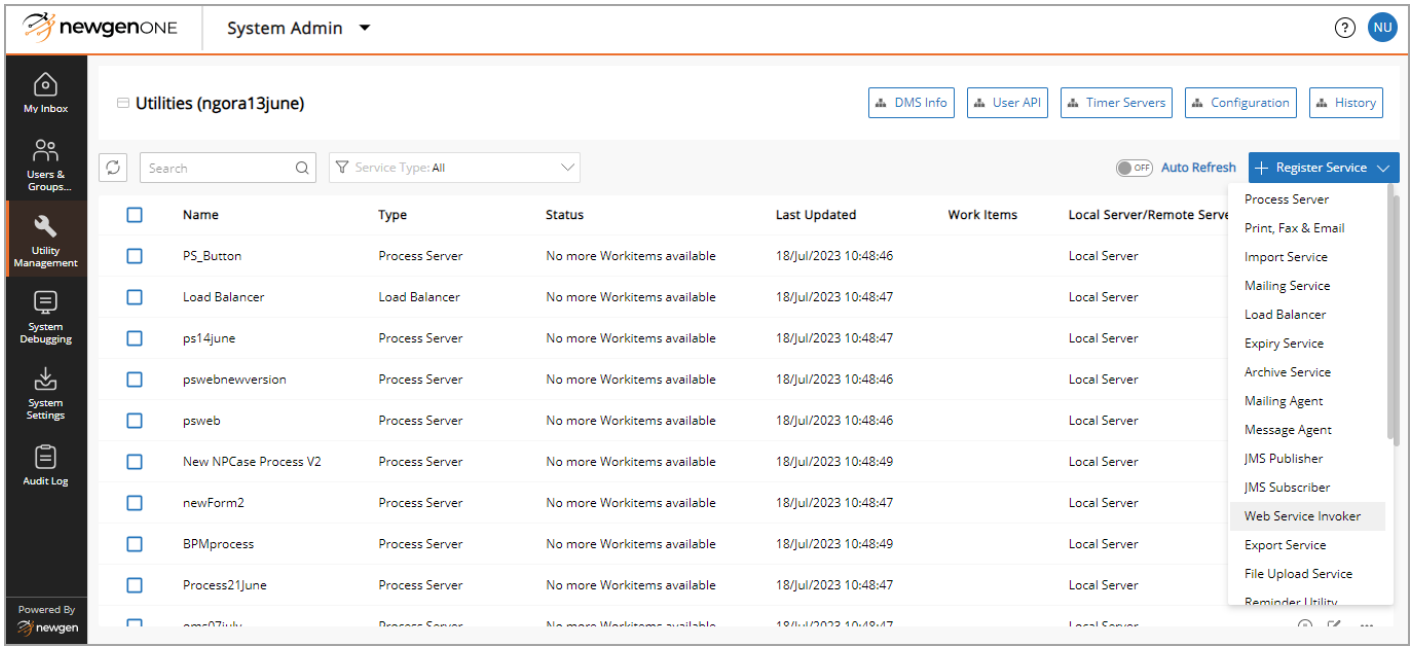
Sequence diagram



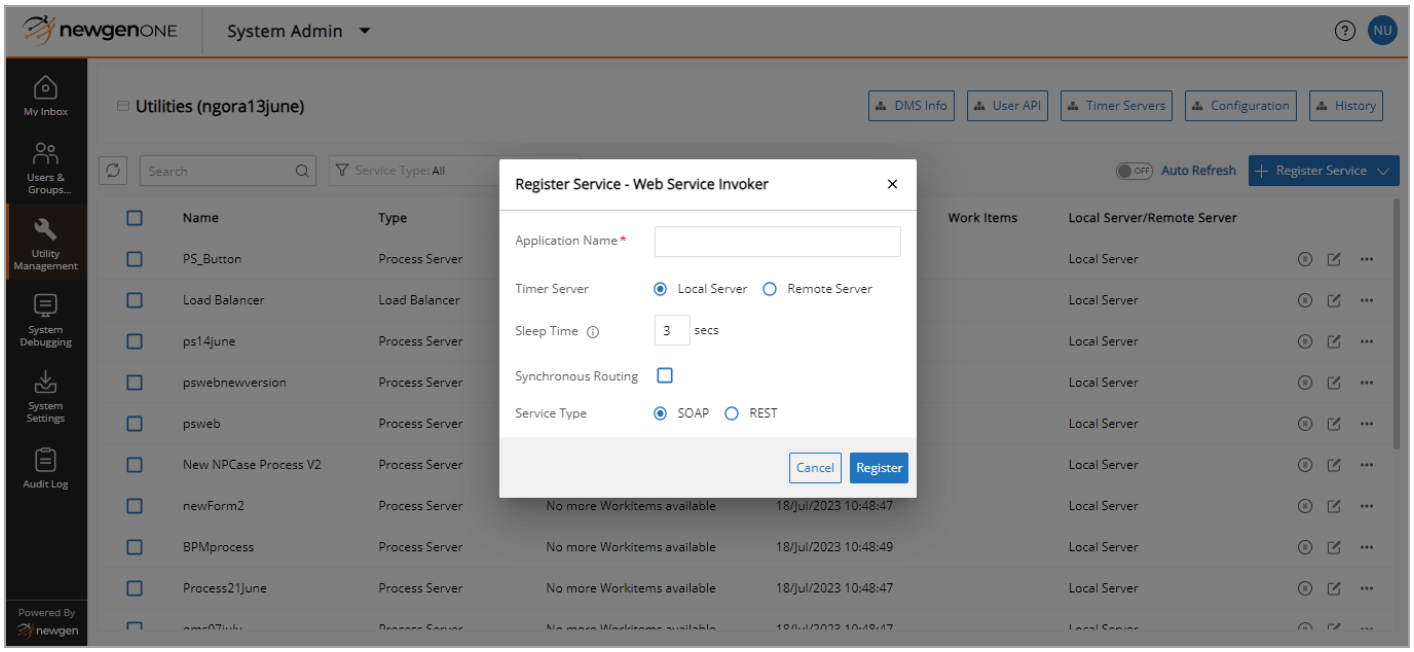


Registering invoker

Registration Screen I



Registration Screen II



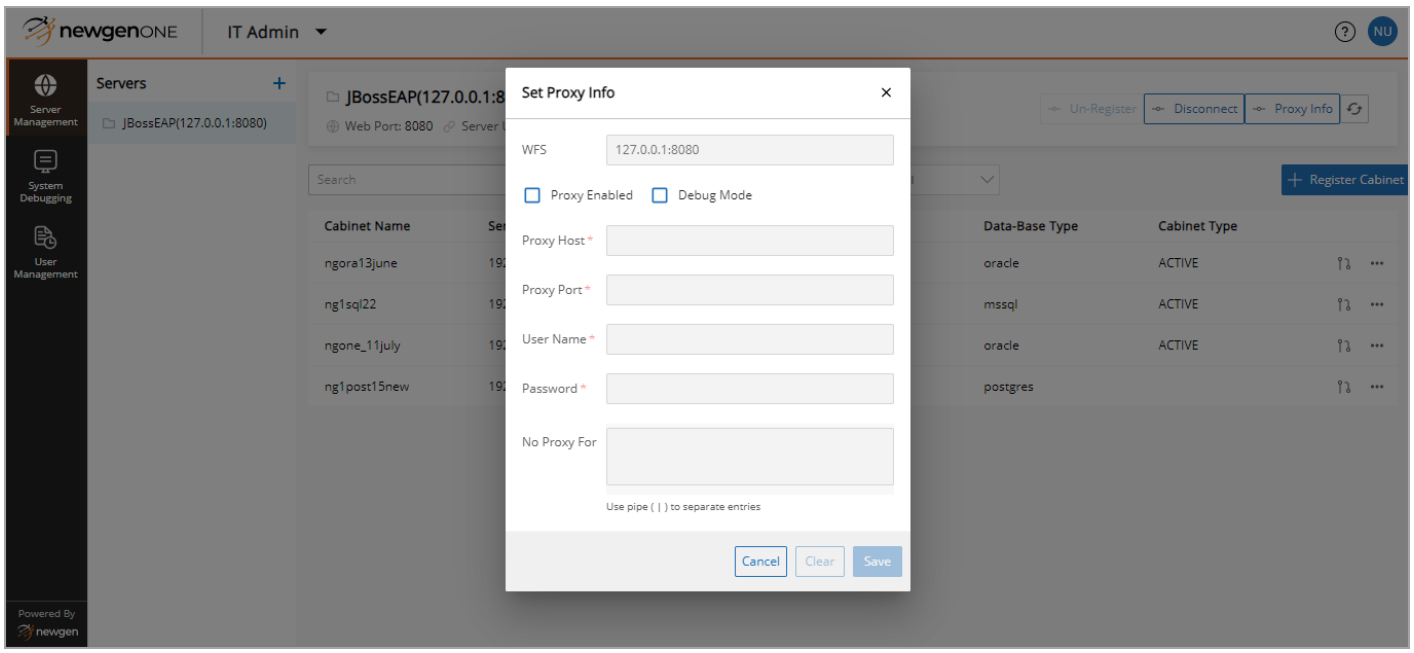
Clicking on connect button will populate the cabinet list combo box.

On selecting the cabinet name queue list combo box will be populated with the queues on the selected cabinet.

Only those queues will be shown on which user is having right.

Proxy Settings are optional on this screen.

Registration Screen III



API customization

This chapter discusses the following API customizations:

- API hook implementation
- External functions
- Deploying custom EJB on application server

API Hook implementation

NewgenONE Server Architecture provides framework to extend/customize behavior of standard XML based APIs. This framework can be used to perform tasks in addition to the standard behavior as a part of same transaction. A typical example of this could be accessing/updating other tables, extending user authentication policies, validations and more.

This document describes how to intercept and extend NewgenONE API. The component that is created for this is henceforth referred to as API Hook.

This section describes the activities required for API Hook Implementation including introduction, required classes & components, steps for implementing Hooks, sample HookData.xml and steps for deploying user's Hook implementation.

Classes and Components Required for Hook Implementation

The HookClass, HookHandler, and HookImplementer classes are required for hook implementation. These classes are provided with Omnidocs Server setup in the following jar files:

- NGJTS.jar file for OmniDocs JTS version.
- omnidocs_hook.jar file for OmniDocs J2EE version. Specifically, omnidocs_hook.jar will be at the following locations:

- For NewgenONE- JBOSS-EAP 7.x Application Server Setup In <Drive:>/<Directory in which JBOSS-EAP Application Server is installed>/modules/omnidocs_library/main.
- For NewgenONE-WebSphere 8.5+ Application Server Setup In <Drive:>/<Directory in which WebSphere Application Server is installed>/AppServer/profiles/<WebSphere Application Server profile directory>/<NewgenONE Shared Library directory>.
- For NewgenONE-WebLogic 12C Application Server Setup In <Drive:>/<Directory in which WebLogic Application Server is installed>/user_projects/domains/<NewgenONE domain directory>/Jars folder.

Steps for implementing Hooks

NGJTS.jar/omnidocs_hook.jar has the classes, HookClass, HookHandler, HookImplementer in the package com.newgen.omni.jts.srvr. HookHandler contains an object of HookClass, namely hookObject. HookImplementer is a singleton for reading HOOK properties files, which stores the names of all API Hooks to execute.

The following steps need to be taken for creating a hook for a particular transaction:

1. If the name of the transaction is WMxyz, then the name of the hook class must be HOOKyz. For example, if the Transaction class is WFReferWorkItem, the corresponding hook class must be HOOKeferWorkItem.

   The first three characters of the transaction name will be replaced with the string ‘Hook’.

2. The hook class must be defined under the package name of com.newgen.omni.jts.hook.
3. The hook class must extend the abstract base class com.newgen.omni.jts.srvr.HookHandler.
4. The abstract base class, HookHandler has two abstract methods defined:
   - abstract public String executeIn(String strInputXML);
   - abstract public String executeOut(String strOutputXML);
5. The user-defined hook class must provide the implementation for both methods.
6. executeIn() method must be used for any processing that needs to be done prior to the execution of the actual NewgenONE transaction, and the executeOut() method must be used for processing that needs to be done after the execution of the actual NewgenONE transaction.

7. The minimum implementation for these two methods must be to return the input String i.e. the string passed in the input parameter.
8. To throw any error within these two methods, the setStatus(int) and setMessage(String) must be called on the object hookObject. For example:
    - hookObject.setStatus(-78999);
    - hookObject.setMessage("Test For Error");.
      In this case, the outputXML returned to the client will contain the error code along with the given message.

> hookObject is the object of HookClass declared in HookHandler class and will be available by default.

9. Once the hook class has been created and packaged appropriately, the Hook class name must be added to the HookData.xml, which is located at the following locations:
    a. For NewgenONE-JBoss-EAP 7.x application server setup in <Drive:>/<Directory in which JBoss EAP application server is installed>/bin/ngdbini folder.

Sample HookData.xml

Following is the sample HookData.xml:

```
<HookInfo>
    <! -- Hook Names that are intended to exist in the system. -->
    <HookName>HOOKeferWorkItem</HookName>
</HookInfo>
```

> The existence of this file at the specified locations and a corresponding entry for each Hook will result in the execution of the Hook.
> If no hook is defined for a transaction, JTS will continue as usual.

Example: Sample Code for HOOKeferWorkItem class.

HOOKeferWorkItem(Hook for WFReferWorkItem) logs the start time and end time of API in LoggingTable.

Table creation script for LoggingTable:

```
Create Table LoggingTable(APICall varchar(max), ActionDateTime datetime, Remarks
varchar(255))
package com.newgen.omni.jts.hook;
import com.newgen.omni.jts.srvr.*;
import java.sql.*;
import com.newgen.omni.jts.cmgr.XMLParser;
import com.newgen.omni.jts.util.WFSUtil;
/*

* TABLE Created for Logging :

*

* Create Table LoggingTable(APICall varchar(max),ActionDateTime datetime,Remarks
varchar(255))

*

*/
public class HOOKeferWorkItem extends HookHandler {
    static {
        System.out.println("[HootkTest] Welcomes you in its Static Block");
    }
    public HOOKeferWorkItem() {}
    @Override
    public String executeIn(String strInputXML) {
        boolean commit = false;
        Connection con = hookObject.getConnection();
        try {
            if (con.getAutoCommit()) {
                con.setAutoCommit(false);
                commit = true;
            }
            String startTime = WFSUtil.dbDateTime(con, 2); //1 FOR SQL /2 for
Oracle
            PreparedStatement pstmt = con.prepareStatement("Insert into
LoggingTable(APICall,ActionDateTime,Remarks) values (?," +
WFSUtil.TO_DATE(startTime, true, 2) + ",?)");
            pstmt.setString(1, strInputXML);
            pstmt.setString(2, "Refer Started");
            pstmt.execute();
            if (commit) {
                con.commit();
                con.setAutoCommit(false);
                commit = false;
            }
        } catch (Exception e) {
            hookObject.setStatus(-78999); // to throw any error
            hookObject.setMessage("Logging failed for Refer hook"); // to throw
any error
        } finally {
            if (commit) {
                try {
                    con.rollback();
                    con.setAutoCommit(false);
```

```
                } catch (SQLException e) {
                    // TODO Auto-generated catch block
                    e.printStackTrace();
                }
            }
        }
        return strInputXML;
    }
    @Override
    public String executeOut(String s) {
        Connection con = hookObject.getConnection(); // to obtain Connection
object passed to Hook
        boolean commit = false;
        try {
            if (con.getAutoCommit()) {
                con.setAutoCommit(false);
                commit = true;
            }
            String endTime = WFSUtil.dbDateTime(con, 2); //1 FOR SQL /2 for Oracle
            PreparedStatement pstmt = con.prepareStatement("Insert into
LoggingTable(APICall,ActionDateTime,Remarks) values (?," +
WFSUtil.TO_DATE(endTime, true, 2) + ",?)");
            pstmt.setString(1, s);
            pstmt.setString(2, "Refer Completed");
            pstmt.execute();
            if (commit) {
                con.commit();
                con.setAutoCommit(false);
                commit = false;
            }
        } catch (Exception e) {
            hookObject.setStatus(-78999); // to throw any error
            hookObject.setMessage("Logging failed for Refer hook"); // to throw
any
        } finally {
            if (commit) {
                try {
                    con.rollback();
                    con.setAutoCommit(false);
                } catch (SQLException e) {
                    // TODO Auto-generated catch block
                    e.printStackTrace();
                }
            }
        }
        return s;
    }

}
```

In case Connection Object passed to Hookclass is being used, then only the Statements and ResultSet objects obtained using the Connection Object have to be closed. The Connection object must not be closed.

Steps for deploying user's Hook implementation

Create a jar file containing the ".class" files for the user-defined implementation of Hooks. Assuming that the jar thus created is named "omni_hook.jar".

For NewgenONE setup

The "omni_hook.jar" must be placed at the following locations:

- For NewgenONE- JBOSS-EAP 7.x Application Server Setup In <Drive:>/<Directory in which JBOSS-EAP Application Server is installed>/modules/omnidocs_library/main.
- For NewgenONE-WebSphere 8.5 Application Server Setup In <Drive:>/<Directory in which WebSphere Application Server is installed>/AppServer/profiles/<WebSphere Application Server profile directory>/<NewgenONE Shared Library directory>.
- For NewgenONE-WebLogic 12C Application Server Setup In <Drive:>/<Directory in which WebLogic Application Server is installed>/user_projects/domains/<NewgenONE domain directory>/Jars folder.
- Add the corresponding HookName tag in HookData.xml.
- Restart the application Server Instance.

External functions

In a typical J2EE application, Enterprise JavaBeans (EJBs) contain the application's business logic and live business data. Although it is possible to use standard Java objects to contain business logic and business data, using EJBs addresses many of the issues one would find by using simple Java objects, such as scalability, lifecycle management, and state management.

The WorkFlow Server is a J2EE-compliant engine, with the business logic being in enterprise Java beans. Framework has been exposed to use the workflow APIs.

This document gives an insight as to how a stand-alone application can call WorkFlow API's. A complete description of the process to be followed and the various files needed along with sample code has been provided.

Prerequisities

Application serverJboss EAP / WebLogic/ WebSphere/.

JDK8 to compile and make a jar to deploy on the application server.

Knowledge of J2EE to write EJB's.

Procedure to follow

For an external EJB application to be executed using OmniFlow server, the following procedure must be followed:

Coding

Assuming the name of the EJB to be created is xyz, the user must create the following classes:

EJB Class	The class to which the EJB belongs
Home Interface	The name of the home interface, which provides methods for creating, removing, and locating the enterprise bean.
Remote Interface	The name of the remote interface, which provides the business methods.

The names of the classes have to be given as:

- xyzBean — Thebean class
- xyzHome — Thehome class
- xyzRemote — The Remote class

For the complete specification to write the classes, go to Specification for writing an EJB

Compilation

Include the following files in the classpath and compile the code:

- ejb.jar
- WFSShared.jar

Make jar

Include the necessary deployment descriptors as specified under XML Files and make the jar file/ear file as necessary.

XML file

ejb-jar.xml

This file contains the declarations of one or more enterprise beans. The name of the bean as specified here is used for JNDI lookup. Using the <ejb-link> element in the <ejb-ref>of the referring EJB module, you can specify a unique reference to a particular module.

Sample XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE ejb-jar PUBLIC "-//Sun Microsystems, Inc.//DTD

Enterprise JavaBeans 2.0//EN" "http://java.sun.com/dtd/ejb- jar_2_0.dtd">
<ejb-jar>
    <enterprise-beans>
        <session>
            <ejb-name>efe</ejb-name>
            <home>efe.efeHome</home>
            <remote>efe.efeRemote</remote>
            <ejb-class>efe.efeBean</ejb-class>
            <session-type>Stateless</session-type>
            <transaction-type>Bean</transaction-type>
        </session>
    </enterprise-beans>
</ejb-jar>
```

Vendor-specific XML files

WebLogic

weblogic-ejb-jar.xml

```
<?xml version="1.0"?>
<!DOCTYPE weblogic-ejb-jar PUBLIC "-//BEA Systems, Inc.//DTD WebLogic 8.1.0 EJB//
EN" "http://www.bea.com/servers/wls810/dtd/weblogic-ejb-jar.dtd">
<!-- Sample MessageDriven bean Weblogic deployment descriptor -->
<weblogic-ejb-jar>
    <weblogic-enterprise-bean>
        <ejb-name>efe</ejb-name>
        <jndi-name>efe</jndi-name>
    </weblogic-enterprise-bean>
</weblogic-ejb-jar>
```

Specification for writing an EJB

Supported data types

The following datatypes are supported in the methods that can be called using OmniFlow server:

- String
- Integer
- Long
- Float
- Date

Wrappers of these datatypes have been packaged in com.newgen.omni.jts.dataObject in WFSShared.jar. WFSShared.jar must be in classpath while compiling the code and testing the code.

DataType	Wrapper	Method for getting value	Method for setting value	Constructor
String	WFString	String getValue()	setValue(String)	WFString(String)
Integer	WFInteger	short getValue()	setValue(short)	WFInteger(short)
Long	WFLong	int getValue()	setValue(int)	WFLong(int)

Float	WFFloat	float getValue()	setValue(float)	WFFloat(float)
Date	WFDate	Date getValue()	setValue(Date)	WFDate(Date)

- One must use only these wrapper classes in the parameters for the functions. Primitive data types must not be used.
- From now, every method of the bean will return an Object Array with the first element as the returned value of the method [If the return type is void then null is placed in the array] and subsequent values as the parameter values of the method in the same sequence as parameters.

Example

Wrong ways:

```
public String setNewVal (int val) throws RemoteException;

public WFString setNewVal (WFIntegerval) throwsRemoteException;
```

Right way:

```
public Object[]setNewVal(WFInteger val) throwsRemoteException;
```

Naming conventions

The application name defined in the ProcessModeler corresponds to the lookup name of EJB.

Assuming that the Application name is xyz, the lookup name must also be the same. The lookup name of the bean can be specified in the vendor-specific XML.

Home class must be in the package xyz. Also, the name of the home class must be <application name>Home. In this case, xyzHome.

Writing interfaces

The EJB interfaces

Each EJB provides some interfaces that its clients use to work with the EJB.

Remote interface

The remote interface is the business end of the EJB. This is the set of actual services provided by the EJB.

Home interface

The home interface is the bookkeeping interface. It helps clients create a new instance of an EJB, or to find an existing instance of an EJB.

Writing the remote interface

The EJB remote interface defines all the business methods of the bean. The following are the requirements for the remote interface:

- The remote interface must extend java.ejb.EJBObject.
- The methods must be valid RMI methods. Their return values and arguments must be serializable types and the throws clause must include java.rmi.RemoteException.
- Each method in the remote interface must have a matching method signature and implementation in the EJB class. The implementations in the EJB class must throw the same business logic exceptions that the remote interface does.

```
package efe;
import java.rmi.*;
import javax.ejb.*;
import com.newgen.omni.jts.dataObject.WFInteger;
public interface efeRemote extends EJBObject {
    public Object[] setNewValue(WFInteger val) throws
    RemoteException;

}
```

Writing the home interface

The EJB home interface provides the client with methods to create an instance of the bean and retrieve a remote reference to it. These methods are all called create. The requirements for this interface are as follows:

- The home interface must extend javax.ejb.EJBHome.
- The home interface must define at least one create(...) method, which must be called create. The return type for the create(...) methods must be the remote interface.
- The methods must be valid RMI methods and must throw

- java.rmi.RemoteException and javax.ejb.CreateException.
- The home interface methods must match the counterpart methods defined in the EJB class (named ejbCreate). The only difference is the
- return type -- the home interface create(...) methods return the remote interface type, while the bean class returns void.

```
package efe;
import javax.ejb.*;
import java.rmi.*;
public interface efeHome extends EJBHome {
    efeRemote create() throwsRemoteException, CreateException;

}
```

Implementing methods

Writing the bean class

The EJB bean class provides the implementation for the business methods that the client can call. It uses the services provided by the container to handle requests from the client. The container also provides a SessionContext object and notifications of certain events.

The requirements for the bean implementation class are:

- The EJB bean class must implement the SessionBean interface.
- The EJB bean class cannot be abstract.
- The EJB bean class must have methods and implementations that match the home interface's create(...) methods. The methods must have the modifiers public void and be named according to the naming convention ejbCreate(...)
- The EJB bean class methods must match the remote interface's business methods. These method names must not collide with methods defined by the EJB component model.
- The methods must all be legal RMI methods.

```
package efe;
import javax.ejb.*;
import com.newgen.omni.jts.dataObject.WFInteger;
public class efeBean implements javax.ejb.SessionBean {
    private SessionContext ctx;
    public void ejbCreate() {
        System.out.println("ejbCreate()");
```

```
    }
    public void ejbRemove() {
        System.out.println("ejbReamove");
    }
    public void ejbActivate() {
        System.out.println("ejbActivate");
    }
    public void ejbPassivate() {
        System.out.println("ejbPassivate");
    }
    public void setSessionContext(SessionContext ctx) {
        this.ctx = ctx;
    }
    public Object[] setNewValue(WFInteger val) {
        Object obj[] = new Object[2];
        try {
            WFInteger wfin = new WFInteger();
            int v = val.getValue();
            int newVal = v + 10;
            wfin.setValue((short) newVal);
            obj[0] = null;
            obj[1] = wfin;
        } catch (Exception e) {
            System.out.print("Exception encountered in external function:" +
e);
        }
        return obj;
    }

}
```

Here we see the SessionBean methods that are required of all session beans. The setSessionContext() method is called by the container immediately after the new bean instance is created. The SessionContext is passed into the bean instance with this call.

The ejbRemove() method is called by the client when it is through with a bean. If the client never calls this method for some reason, the container has the option of removing the EJB instance itself after some timeout period.

The ejbActivate() and ejbPassivate() methods are used by the container to notify the bean that it is about to be taken out of or put into secondary storage, respectively.

The business methods must be filled in with database-specific code. Note that a session EJB does not keep permanent state information as an entity EJB does. The session bean is visible only to the client that creates it and is (eventually) removed when its client goes away.

Now that the bean code is defined, it must be compiled into class files for deployment packaging.

Making XMLs

The deployment descriptor

The deployment descriptor provides details on EJB deployment to the runtime container. The deployment descriptor instance has its session timeout set to a timeout value, or 0, to indicate that the container must use a container default timeout. It also has its StateManagementType set to STATEFUL_SESSION or STATELESS_SESSION, depending on whether or not the bean keeps the state in instance variables.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE ejb-jar PUBLIC "-//Sun Microsystems, Inc.//DTD
Enterprise JavaBeans 2.0//EN" "http://java.sun.com/dtd/ejb- jar_2_0.dtd">
<ejb-jar>
    <enterprise-beans>
        <session>
            <ejb-name>efe</ejb-name>
            <home>efe.efeHome</home>
            <remote>efe.efeRemote</remote>
            <ejb-class>efe.efeBean</ejb-class>
            <session-type>Stateless</session-type>
            <transaction-type>Bean</transaction-type>
        </session>
    </enterprise-beans>
</ejb-jar>
```

Packaging

Packaging the EJB

The final step for the bean provider is to package the EJB into an ejb-jar file for deployment.

The two interface files and the bean class file go into the ejb-jar, along with the deployment descriptor and

All that's left is to create the ejb-jar file (use the jar utility) and the bean is completely packaged and ready to be deployed.

Deployment

Deployment to the EJB container

The person acting as the EJB deployer will deploy the ejb-jar file to the EJB server node. The EJB container tools, provided by the container vendor, will generate the support classes necessary to do this.

Testing the EJB

Using the EJB in the client

The client essentially needs only to replace its RMI lookup code with JNDI code to find the Ejb:

```
import javax.naming.Context;
import javax.naming.InitialContext;
import java.util.Properties;
Properties props = System.getProperties();
//Set properties specific to Application server .Example for JBoss EAP is as
below:
props.put(javax.naming.Context.PROVIDER_URL, "jnp://192.168.73.47:4447");
props.put("jboss.naming.client.ejb.context", true);
props.put(Context.URL_PKG_PREFIXES, "org.jboss.ejb.client.naming");
Context ctx = new InitialContext(props);
//Remotely Look up thebean .
//For JBoss EAP app server , lookup name will be ejb:/+”module name”+ /”bean
name”+!+ “bean name”+.”Bean home”
// For other application servers, lookup name will be bean name i.e efe. Object
obj=ctx.lookup("ejb:/externalfunc/efe!efe.efeHome");
efeHome home = (efeHome) javax.rmi.PortableRemoteObject.narrow(obj,
Class.forName("efe" + "." + "efe" + "Home"));
efeRemote ert = (efeRemote) home.create();
WFInteger val = new
WFInteger((short) 1);
Object obj1[] = ert.setNewValue(val);
System.out.println("The value got changed to ::" + obj1[1]);
When the client is readyto shut down, it must remove the ejb bean object fromthe
server: ert.remove();
```

For JBoss EAP application server , include jboss-ejb-client.properties in classpath of Client.

- remote.connectionprovider.create.options.org.xnio.Options.SSL_ ENABLED=false
- remote.connections=default

- remote.connection.default.host=SERVER_HOST_NAME
- remote.connection.default.port =APP_SERVER_PORT(Default : 8080)
- remote.connection.default.connect.options.org.xnio.Options.SAS L_POLICY_NOANONYMOUS=false
- remote.connection.default.username=APPLICATION_SERVER_USER
- remote.connection.default.password=APPLICATION_SERVER_USER_PAS SWORD

Example of external function:

Remote interface:

```
package efe;
import java.rmi.*;
import javax.ejb.*;
import com.newgen.omni.jts.dataObject.WFInteger;
public interface efeRemote extends EJBObject {
    public Object[] setNewValue(WFInteger val) throws
    RemoteException;

}
```

Home interface:

```
package efe;
import javax.ejb.*;
import java.rmi.*;
public interface efeHome extends EJBHome {
    efeRemote create() throws
    RemoteException, CreateException;

}
```

Bean class:

```
package efe;
import javax.ejb.*;
import com.newgen.omni.jts.dataObject.WFInteger;
public class efeBean implements javax.ejb.SessionBean {
    private SessionContext ctx;
    public void ejbCreate() {
        System.out.println("ejbCreate()");
    }
    public void ejbRemove() {
        System.out.println("ejbReamove");
    }
```

```
    public void ejbActivate() {
        System.out.println("ejbActivate");
    }
    public void ejbPassivate() {
        System.out.println("ejbPassivate");
    }
    public void setSessionContext(SessionContext ctx) {
        this.ctx = ctx;
    }
    public Object[] setNewValue(WFInteger val) {
        Object obj[] = new Object[2];
        try {
            WFInteger wfin = new WFInteger();
            int v = val.getValue();
            int newVal = v + 10;
            wfin.setValue((short) newVal);
            obj[0] = wfin;
            obj[1] = wfin;
        } catch (Exception e) {
            System.out.print("Exception encountered in external function:" + e);
        }
        return obj;
    }
}
// end of NGDBConnection

}
```

Testing a bean

The bean can be tested for correct execution by writing a client that looks up the bean and calls the method exposed by the bean.

Sample code:

```
package client;
import javax.naming.Context;
import javax.naming.InitialContext;
import com.newgen.omni.jts.dataObject.WFInteger;
import efe.efeHome;
import efe.efeRemote;
import java.util.Properties;
import java.util.Date;
public class EJBClientClass {
    public static void main(String[] args) throws Exception {
            Properties props = System.getProperties();
            props.put(javax.naming.Context.PROVIDER_URL, "jnp://
192.168.73.47:4447");
            props.put("jboss.naming.client.ejb.context", true);
            props.put(Context.URL_PKG_PREFIXES, "org.jboss.ejb.client.naming");
            //
            props.put(javax.naming.Context.PROVIDER_URL, "jnp://192.168.5.1
```

```
                08: 7001 ");          //For WebLogic//
props.put(javax.naming.Context.INITIAL_CONTEXT_FACTORY, "
                weblogic.jndi.WLInitialContextFactory "); //For WebLogic
                Context ctx = new InitialContext(props); Object obj =
ctx.lookup("ejb:/externalfunc/efe!
                    efe.efeHome ");
                    efeHome home = (efeHome)
javax.rmi.PortableRemoteObject.narrow(obj, Class.forName("efe" + "." + "efe" +
"Home")); efeRemote ert = (efeRemote) home.create(); WFInteger val = new
WFInteger((short) 1); Object obj1[] = ert.setNewValue(val);
System.out.println("The value got changed to ::" + obj1[1]); ert.remove();
                }

}
```

Sample jboss-ejb-client.properties :

- remote.connectionprovider.create.options.org.xnio.Options.SSL_ ENABLED=false
- remote.connections=default
- remote.connection.default.host=192.168.73.47
- remote.connection.default.port =8080
- remote.connection.default.connect.options.org.xnio.Options.SAS L_POLICY_NOANONYMOUS=false
- remote.connection.default.username=vikas
- remote.connection.default.password=vikas123#

Configuration changes after deployment of bean

WebSphere

1. Add the entries described below in the WFAppContext.xml file in the <IBM\WebSphere\AppServer\profiles\AppSrv-xyz>\ WFSConfig.

```
<Application>
      <ApplicationName> lookupname </ApplicationName> {" "}
    <Context>
          <ProviderUrl> corbaloc: iiop: </ProviderUrl> {" "}
        <jndiServerName> 127.0 .0 .1 </jndiServerName> {" "}
        <jndiServerPort> jndiport /   NameServiceServerRoot </
jndiServerPort> {" "}
        <JndiContextFactory>
              com.sun.jndi.cosnaming.CNCtxFactory{" "}
        </JndiContextFactory>
```

```
          {" "}
    </Context>
     {" "}

</Application>;
```

2. From location <IBM\WebSphere\AppServer\profiles\AppSrv-xyz\installedApps\adminNode0nCell> copy abc.ear somewhere, extract it and get abc.jar from this jar. Delete all files except for home and remote stubs (e.g _abcHome_Stub.class and_abcRemote_Stub.class) from this jar.
3. Put modified stubs jar file in wfs_library at <IBM\WebSphere\AppServer\profiles\AppSrv-xyz>.
4. At the admin console of the websphere in shared library section (Environment -> Shared Libraries -> wfs_library ->classpath) add entry for that stub(e.g. $
5. {USER_INSTALL_ROOT}/wfs_library/abc.jar)
6. Restart the application server.

WebLogic

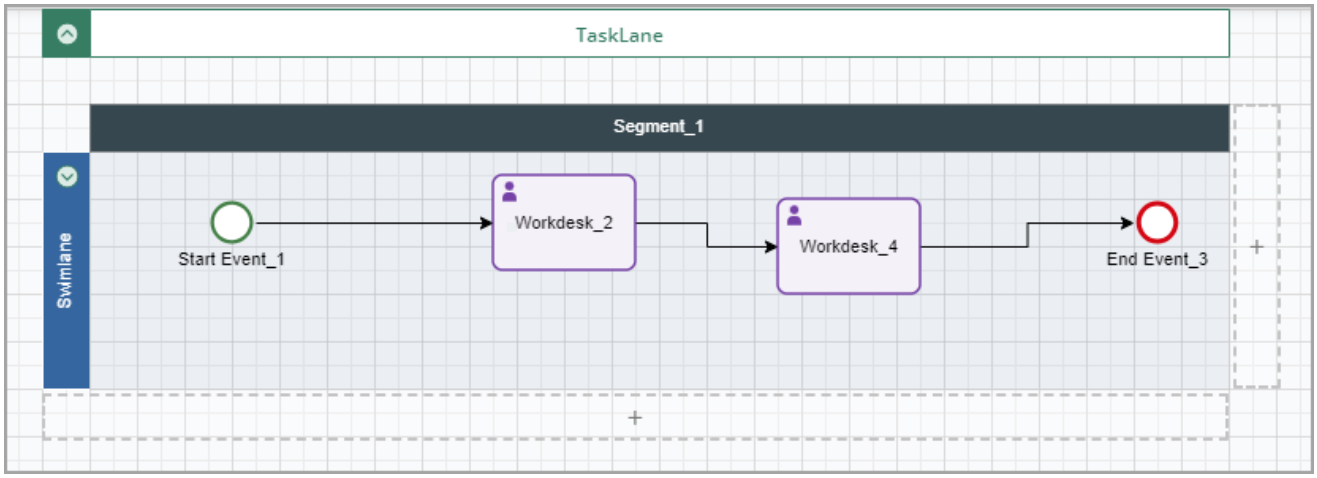
1. Put the jar file containing the home and remote interfaces in the “Jars” folder of the domain on which deployment is done.
2. Also put the path of this jar file in the classpath of the startWebLogic.cmd.

JBoss EAP

1. Put the jar file with the name externalfuncClient.jar containing the home and remote interfaces in the library folder(\jboss-eap-7.x\modules\omnidocs_library\main)
2. Add the entry of the jar file in the module.xml
3. Restart the application.

Making a test route

1. Open the Process Modeler.
2. Design the route.
3. Include:
    - Work Introduction1
    - Workdesk4
    - Standard Workdesk2
    - Work Exit1 is shown in the figure.



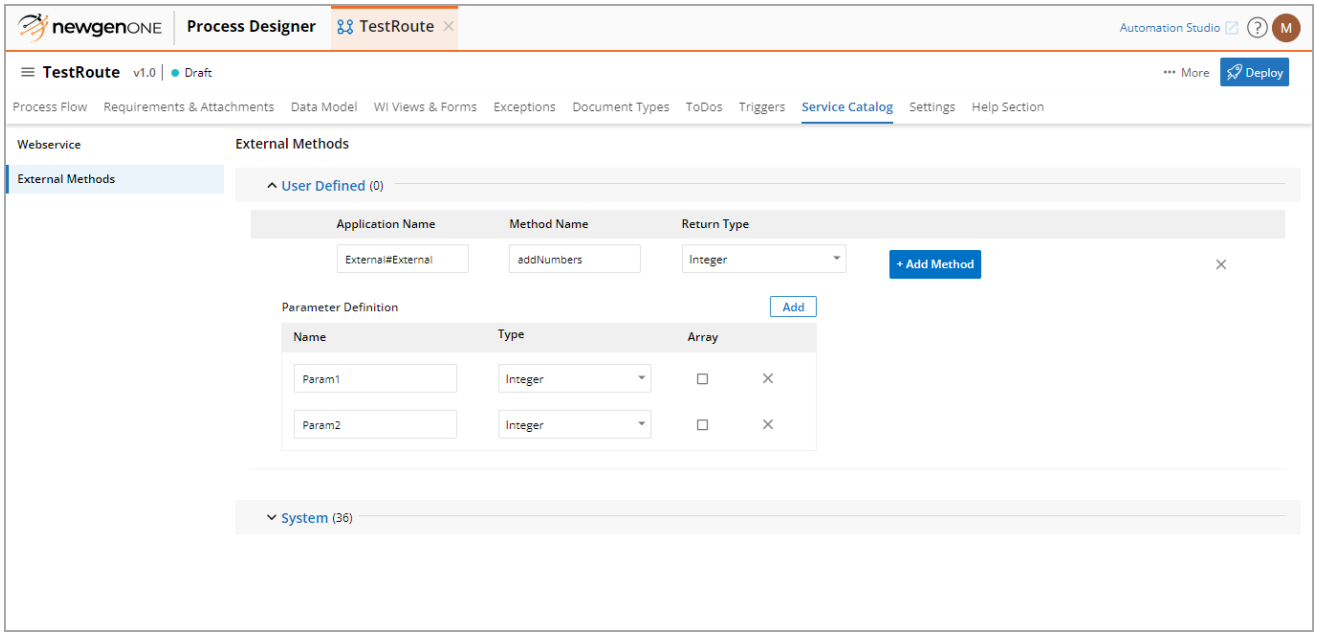
Registering an external function

The Service Catalog tab on the process design page allows you to register new offline functions and also configure a web service that can be invoked from the process.

To configure and register a new external function:

1. In Process Designer open the process.
2. Click **Service Catalog**.
3. Click **External Methods**.
4. Click **+ADD**.
5. Enter the following details:

Field	Description
Application Name	Enter the name of the application.
Method Name	Enter the name of the method for the application.
Return Type	Select the return data type from this dropdown list.
+ Add Parameters	Click to add a parameter for the application.
Parameter Definition	
Name	Enter the parameter name.
Type	Enter the parameter type.
Array	Select for an array type parameter.
Add	Click to add more parameters.



6. Click **+Add Method**.

Initializing queue variables:

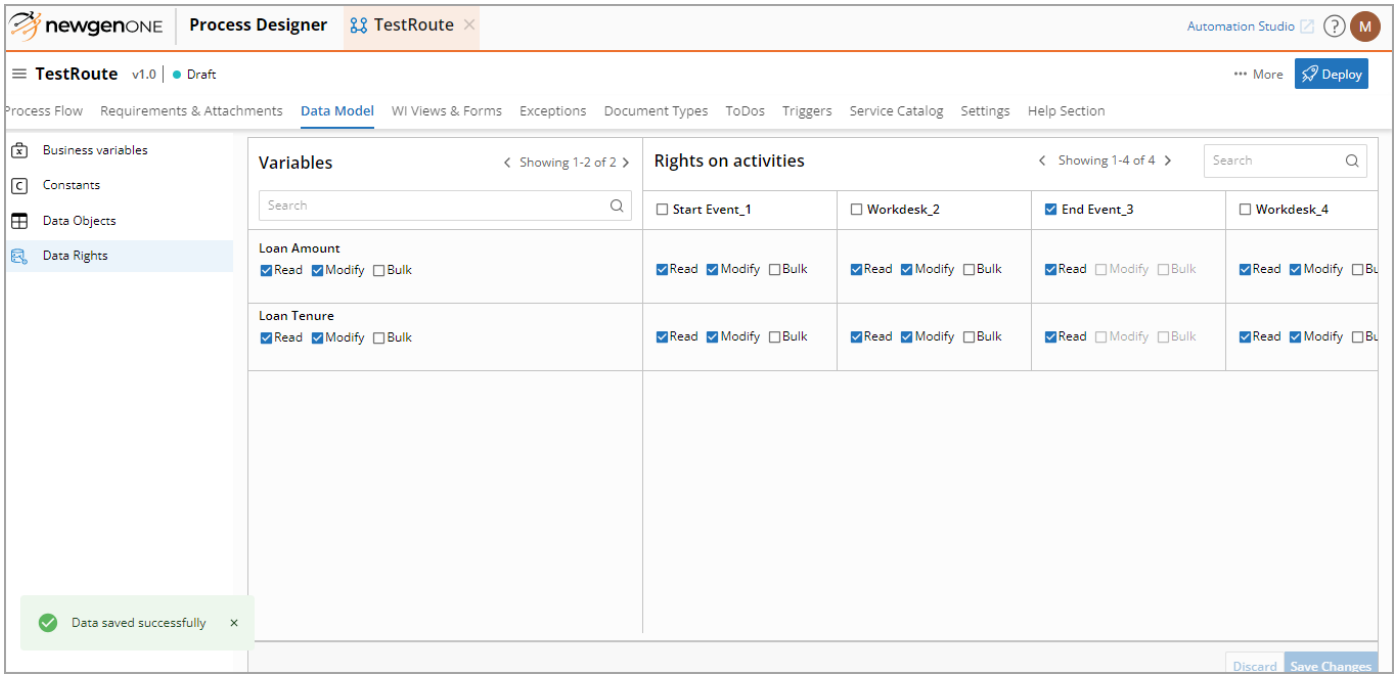
Include a variable '"Param1" and "Param2"' of Integer type. This will contain the value to which 10 is to be added.

Giving rights on variables at worksteps:

1. Give read and modify permission for '"Param1" and "Param2"' to Work Introduction1.
2. Check the 'Form View' option in Work Introduction1.
3. Give read permission for '"Param1" and "Param2"' to Workdesk 4.
4. Check the 'Form View' option in Workdesk 4.

General tab

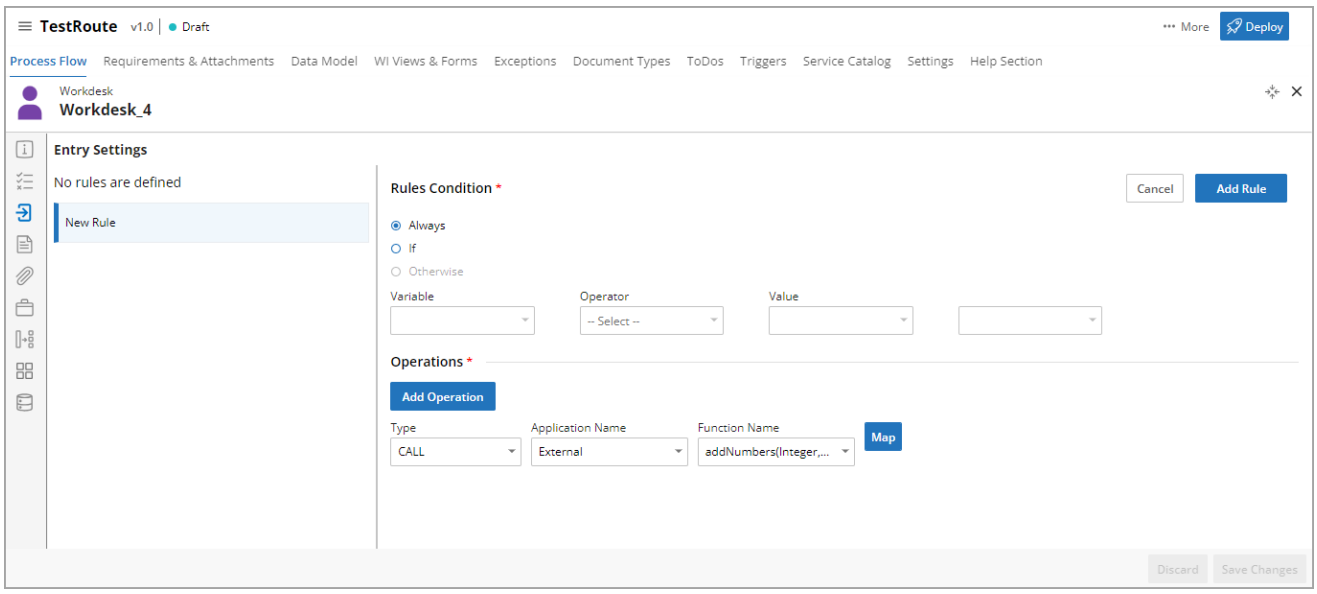
In the Data Rights give read and modify permissions for parameters.



Entry Settings tab

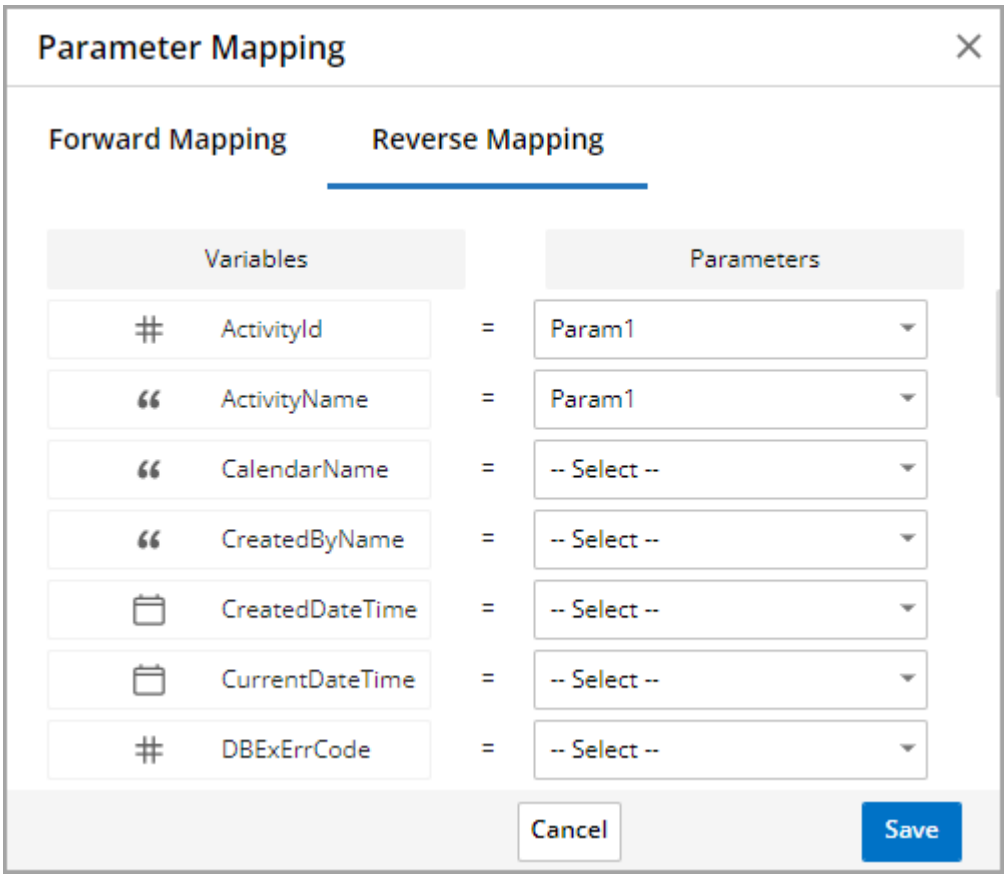
This tab is used to invoke a specified external function for all workitems that come to this step in the business process. When the workitem comes on this workstep, the external function will be invoked before the workitem becomes visible to the workstep.

1. Select **Always**.
2. In Operations select the Type as **CALL**.



3. Select the Application Name as **External** (For JBoss EAP).

4. Select the Function Name as **addNumbers**.
5. Click on **Map**. A mapping window opens.
6. Check “Param1” and “Param2” as the forward mapping variable.
7. From the dropdown list select **incrementValue** queue variable as the variable to be mapped.
8. Click the **Reverse Mapping** tab.



9. Check against “Param1” and “Param2” as the variable in which the return value is going to be returned.
10. Select “Param1” and “Param2” as the value to be mapped to the return variable from the dropdown list.
11. Click **Save** to save and exit the window.
12. Click the **Add** button on the Rule Definition window.
13. **ALWAYS CALL efe#externalfunc.setNewValue (For JBoss EAP) and efe.setNewValue(For otherapplication servers)** must be displayed on the Entry Settings tab.
14. Click **Save Changes** to save and exit from the window.
15. Register the process with the WorkFlow Server.
16. Go to Process manager and allocate queues to your user.

17. Start Configuration Server.
18. Register a ProcessServer Utility for the current process.
19. Login into Webdesktop using your user.
20. Enter the“Param1” and “Param2”'s values as the value which has to be increased by 10.
21. The increased value must appear in the val field at Workdesk4.

Deploying custom EJB on application server

OmniFlow allows you to develop and deploy Custom EJB to extend its functionality and customize OmniFlow according to your needs. You can develop and deploy this custom EJB on JBoss EAP 7.4.x.

You cannot call any other API of Workflow, OD, or Dashboard from WFCustomBean.java.

Prerequisites

You need to fulfill the following prerequisites before deploying a custom EJB on an application server:

- JBoss EAP 7.4.x must be installed.
- JDK 8 should be installed (to compile the custom EJB and create jar and ear files which will be deployed on the Application server)
- You should have wfcustom_ejb.jar where you can replace your compiled WFCustomBean.class file to run the Custom EJB

Procedure for developing or deploying custom EJB for Omniflow

The following are the tasks for developing and deploying a custom EJB on an application server:

- Coding

- Compilation
- Deployment on JbossEAP
- Testing the deployment
- Sample code for WFCustomBean.java

Coding

Write the code for the custom API. The custom API code should be written and saved as WFCustomBean.java . The sample code for the dummy call WFUpdateStatus is given in WFCustomBean.java.

Write code for as many custom calls as you want, in WFCustomBean. In execute method, the option tag is checked, and a call to the corresponding method is made depending on option tag. In the corresponding method EngineName, Option, SessionId, and other tags in Input XML are parsed and output XML is produced.

- The Engine Name tag is mandatory in Input XML and should be specified as <EngineName> </EngineName>
- The Option tag is case-sensitive

Compilation

After creating the code, you need to compile it before deploying it on an application server. Generate WFCustomBean.class file at your end.
Following are the various dependencies for compilation:

- classes12.zip
- ejb.jar
- ejbClient.jar
- jboss-common-jdbc-wrapper.jar
- mail.jar
- omnidocs_hook.jar
- omnishared.jar
- SecurityAPI.jar
- WFSShared.jar

- wfs_ejb.jar

Deployment on JBoss EAP

Before deploying you must ensure the following:

- There must be an entry for custom API in transaction.xml under WFCustom category
- There must be an entry for custom API in WFObjectPool.xml.
- There must be an Ejb-jar.xml file (that defines two beans, one is WFCustomBean and the second one is WFCustomClientServiceHandlerBean) in the deployment folder under wfcustom_ejb.jar\META-INF\ folder. For example, *C:\jboss-eap-7.4\standalone\deployments\wfcustom_ejb.jar\META-INF*
- wfcustom_ejb.jar should be in the deployments folder.

This section explains the steps which are used to deploy a Custom EJB on the JBoss EAP application server.

You can deploy the new custom EJB by using the following steps:

1. Open the JBoss EAP installation folder. For example, *C:\jboss-eap-7.4.0*
2. Open the standalone folder
3. Open the folder deployments folder
4. Replace **WFCustomBean.class** file in wfcustom_ejb.jar
5. Restart the application server

Testing the deployment

You can test the deployment of the EAR or JAR file on the application server. You can use the JBoss EAP tester to test the deployment. The steps to test the deployment are:

You must have test.war to test the deployment.

- deploy the test.war file in the deployment folder.
  For example, *jboss-eap-7.4\standalone\deployments*
- Run the URL: *https://IP:port/test/*
  For example, *https://192.168.38.67:8080/test/*
- Paste your Input XML in the Input XML area and click on the test button.
- You will get your Output XML in the Output XML area .

Sample code for WFCustomBean.java

```
//SAMPLE CODE FOR WRITING CUSTOM API. package com.newgen.omni.jts.txn.cust;
import com.newgen.omni.jts.txn.*;
import java.sql.*;
import java.util.*;
import java.sql.Connection;
import java.sql.Statement;
import com.newgen.omni.jts.cmgr.*;
import com.newgen.omni.jts.constt.*;
import com.newgen.omni.jts.excp.*;
import com.newgen.omni.jts.srvr.*;
import com.newgen.omni.jts.util.*;
import com.newgen.omni.jts.cache.CachedObjectCollection;
public class WFCustomBean extends com.newgen.omni.jts.txn.NGOServerInterface {
  public String execute(Connection con, XMLParser parser, XMLGenerator gen) throws
  JTSException, WFSException {
    String option = parser.getValueOf("Option", "", false);
    String outputXml = null;
    if (option.equals("WFUpdateStatus")) {
      outputXml = WFUpdateStatus(con, parser, gen);
    } else {
      outputXml = gen.writeError("WFCustom",
WFSError.WF_INVALID_OPERATION_SPECIFICATION, 0,
        WFSErrorMsg.getMessage(WFSError.WF_INVALID_OPERATION_SPECIFICATION), null,
WFSError.WF_TMP);
    }
    return outputXml;
  }
  public String WFUpdateStatus(Connection con, XMLParser parser, XMLGenerator gen)
{
    Statement stmt = null;
    String outXML = null;
    int result = 0;
    try {
      String sProcessDefId = parser.getValueOf("ProcessDefId", "", true);
      String sStatus = parser.getValueOf("Status", "", true);
      String sSessionId = parser.getValueOf("SessionId", "", true);
      String sEngineName = parser.getValueOf("EngineName", "", false);
      stmt = con.createStatement();
```

```
      result = stmt.executeUpdate("Insert into StatusTable values( " +
sProcessDefId + ", '" + sStatus + "')");
      outXML = "<? Xml Version=\"1.0\"?>" +
        "<WFUpdateStatus_output>" +
        "<Option>WFUpdateStatus</Option>" +
        "<MainCode>0</MainCode>" +
        "<result>" + result + "</result>" +
        "</WFUpdateStatus_output>";
    } catch (Exception ex) {
      ex.printStackTrace();
      outXML = "<? Xml Version=\"1.0\"?>" +
        "<WFUpdateStatus_output>" +
        "<Option>WFUpdateStatus</Option>" +
        "<MainCode>15</MainCode>" +
        "<Message>" + ex.getMessage() + "</Message>" +
        "<result>" + result + "</result>" +
        "</WMtest_output>";
    } finally {
      try {
        if (!con.getAutoCommit()) con.setAutoCommit(true);
        if (stmt != null) stmt.close();
      } catch (Exception ignored) {
        ignored.printStackTrace();
      }
    }
    return outXML;
  }
} //end ofWFCustomBeanClass
```

Classification of API calls

The NewgenONE API has been classified under the following categories. These API calls allows the implementation of front-end applications that need to access the NewgenONE Engine in various ways.

- Connection Calls: This category includes the calls for connecting, disconnecting and setting the session for the user to the NewgenONE Engine.
- Process Related Calls: This category includes the calls related to processes in the cabinet, like fetching a list of processes, fetching definition data for a specific process, getting and setting the values of dynamic constants used in processes, and more.
- Activity Related Calls: This category includes the calls related to activities/ worksteps in processes, like fetching a list of activities in a process, fetching the list of streams defined in an activity, getting the property of an activity, changing states of activity instances, and more.
- Queue Related Calls: This category includes the calls related to Queues defined in the cabinet, like fetching a list of Queues, fetching and changing the properties of Queues, creating and deleting queues, and more.
- User Related Calls: This category includes the calls related to Users in the cabinet, like fetching a list of Users/Groups, getting and setting work-audits for users, getting and setting diversions for users, and more.
- Workitem Related Calls: This category includes the calls related to Process Instances and Workitems in the cabinet, like creating a Process Instance, starting a Process Instance, fetching a list of Workitems in a Queue, locking and unlocking workitems, getting and setting the attributes for workitems, re-assigning, referring workitems, and more.
- Reports Related Calls: This category includes the calls related to reporting details for various entities in the cabinet, like fetching the load history for a process, fetching load history for a Queue, fetching exception history for a specified exception, fetching user performance details for a specified user/group, and more.
- Miscellaneous Calls: This category includes some miscellaneous calls related to sending mails from the NewgenONE system, generating log for a specific event, getting IDs for specified Names of the concerned objects, getting the template response file that may be associated with a generate response trigger, and more.

Connection functions

In order to connect to NewgenONE Server, you need to implement the following WAPI calls:

API	Description
WMConnect	This API is used to connect to the NewgenONE Engine. In order to communicate with the OF Engine, this is the first API that must be used.
WMDisconnect	This API is used to disconnect from the NewgenONE Engine. This API can also be used to simply release all locks on the workitems locked by the currently logged-in user.

After the successful connection, the login user session id has to be maintained for his series of interactions with the WFM Engine. To set up the session, you need to implement the following call:

API	Description
WMSetUserSession	This API is used to set the Session ID for an already logged-in User. This API facilitates a user who is already logged-in and active in the integrated OmniDocs DMS system to successfully log into the NewgenONE System as well.

WMConnect

This API is used to connect to the NewgenONE Engine. In order to communicate with the OF Engine, this is the first API that must be used. The WMConnect API, internally informs the OF Engine that other commands will be originating from this source. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMConnect_Input>
    <Option>WMConnect</Option>
    <EngineName>ng1sql20sep</EngineName>
    <Name>abuser</Name>
```

```
    <Password>system123#</Password>
    <AppId>b2924112-4797-415e-a750-5b16773d5088</AppId>
    <SessionExpiryTime>30</SessionExpiryTime>
    <UserExist>Y</UserExist>
    <Locale>en-US</Locale>
    <ApplicationInfo>127.0.0.1</ApplicationInfo>
    <ApplicationName>LP</ApplicationName>
    <ClientInfo>127.0.0.1</ClientInfo>
    <WebServerInfo>en-US</WebServerInfo>
    <ParentData>
        <Host>localhost:8080</Host>
    </ParentData>
    <ApplicationName>LP</ApplicationName>
</WMConnect_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMConnect
EngineName	Root	Yes	This is the Name of the cabinet.	NA
Name	Participant	Yes	Name of the User with which you wish to connect to the cabinet.	NA
Password	Participant	Yes	Password of the User.	NA
Scope	Participant	No	It is the scope of the user who is logging in. A user can Log In for either Administration purposes or client-related activities.	ADMIN – To log in as Administrator. USER – To log in as a general User.
ParticipantType	Participant	No	Type of the Program/User requesting a connection with the System.	U - User P - Process Server C - Configuration Server
UserExist	Participant	No	This Flag indicates whether to login forcefully if the same user is already logged in.	Y – Do not Login forcefully. N - Login forcefully
ApplicationInfo	Root	No	It specifies the information about the application, which is connecting.	NA

			Generally, you can specify the IP Address of the machine from where the connection request is being initiated.	

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	Root	No	Registered AppID for the application/ product	NA
SessionExpiryTime	Root	No	Duration (in minutes) for which the session remains valid.	NA

Sample response:

```
<?xml version="1.0"?>
<WMConnect_Output>
    <Option>WMConnect</Option>
    <Status>0</Status>
    <Exception>
    <MainCode>0</MainCode>
    </Exception>
    <Participant>
    <AccessDetails><SessionValid>Tv9E4wDrd284Pe</SessionValid>
    <AccessToken>eyJhbGciOiJIUzI1NiJ9</AccessToken>
    <AppId>b2924112-4797-415e-a750-5b16773d5088</AppId>
    </AccessDetails>
    <ID>98</ID>
    </Participant>
    <TimeZoneInfo>
    <DBServer>
    <OffSet>330</OffSet>
 </DBServer>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

SessionId	Participant	It refers to the session id provided after the successful connection with the specified cabinet.
ID	Participant	It is the User Id which has established the connection.
LastLoginTime	Participant	It refers to the time when user login last time.
IsAdmin	Participant	Y -- Admin N -- User
Privileges	Participant	It refers to the binary String to show the various privileges. 1 -- Having Privileges 0 -- Not having privileges
LastLoginFailureTime	Root	It refers to the time when the user failed to log in last time.
FailureAttemptCount	Root	It refers to the count that the user failed to login.

If OAuth is enabled:

Parameter	Parent tag	Description
AccessDetails	Participant	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
1	807	WM_CONNECT_FAILED	Invalid Password
1	805	WM_CONNECT_FAILED	Invalid User
1	808	WM_CONNECT_FAILED	Invalid Participant Type.
1	801	WM_CONNECT_FAILED	Connection Failed.
1	802	WM_CONNECT_FAILED	Invalid Parameter
1	803	WM_CONNECT_FAILED	Connection Failed.
1	804	WM_CONNECT_FAILED	Connection Failed.

WMDisconnect

This API is used to disconnect from the NewgenONE Engine. This API can also be used to simply release all locks on the workitems locked by the current logged-in user. You

can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMDisConnect_Input>
<Option>WMDisConnect</Option>
<EngineName>ofcab</EngineName>
<SessionID>1601559629</SessionID>
<UnlockWorkitem></UnlockWorkitem>
</WMDisConnect_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMDisConnect
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
Name	Root	No	Name of the Application trying to disconnect from the NewgenONE Server.	USER — User PS — Process Server CS — Configuration Server
ReleaseLocksOnly	Root	No	This flag indicates whether to terminate the User session completely, or simply release all locks on the workitems locked by the user whose session id is specified in the SessionID Tag.	Y — Workitems will be unlocked but the user session will persist. N — Workitems will be unlocked and the user session will terminate.
DebugFlag	Root	No	This flag is used to print logs in the console.log file.	Y — Write N — Not Write
UnlockWorkitem	Root	No	This flag indicates whether to unlock the workitems or not.	Y — Workitem is unlocked when the user logout. N — Workitem is not unlocked when the user logout

				Default Value — Y

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Access token for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMDisConnect_Output>
<Option>WMDisConnect</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMDisConnect_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
300	--	WF_NO AUTHORIZATION	No Authorization
11	--	WM_INVALID_SESSION_HANDLE	Invalid session
400	801	WF_OPERATION_FAILED	Operation Failed
400	802	WF_OPERATION_FAILED	Invalid Parameter
400	803	WF_OPERATION_FAILED	Operation Failed
400	804	WF_OPERATION_FAILED	Operation Failed

WMSetUserSession

This API is used to set the Session ID for an already logged-in User. This API facilitates a user who is already logged in and active in the integrated OmniDocs DMS system to successfully log into the iBPS System as well. The Session ID specified in the API is the Session ID/ User DB ID of the OmniDocs System. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMSetUserSession
EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged-in user's session id in the OmniDocs System.	NA
Password *	Root	Yes	Password of the User who is trying to connect to the iBPS System.	password can be null

Name	Root	No	Name of the User trying to connect	User name cannot be null
Scope	Root	No	It is the scope of the user who is logging in. A user can Log In for either Administration purposes or client related activities.	ADMIN – To log in as Administrator. USER – To log in as a general User.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Access token for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
SessionId	Participant	It is the session id returned for the user.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
1	WM_CONNECT_FAILED	Connect Failed
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invaild Session

Input XML:

```
<?xml Version="1.0"?>
<WMSetUserSession_Input>
    <Option>WMSetUserSession</Option>
    <EngineName>ofcab</EngineName>
    <SessionID>-1347205148</SessionID>
    <Name>supervisor</Name>
    <Password>supervisor351</Password>
    <Scope>USER</Scope>
</WMSetUserSession_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMSetSession_Output>
    <Option>WMSetSession</Option>
```

```
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Participant>
        <SessionId>-1347205148</SessionId>
    </Participant>
</WMSetSession_Output>
```

Process related functions

This section includes a detailed description of the following calls:

API	Description
WMGetProcessList	This API returns a list of all the processes in the cabinet. If you wish to fetch the list based on which processes are a part of a specific queue, you may specify the Queue Name, to filter the list accordingly. Similarly, you can also filter the Process List based on the Process States.
WMFetchProcessDefinitions	This API is used to fetch a list of all the latest versions of processes defined in the cabinet, based on the specified filter.
WMFetchProcessDefinition	This API is exactly the same as WMFetchProcessDefinitions API. This API is used to fetch a list of all the latest versions of processes defined in the cabinet, based on the specified filter.
WFGetProcessDefinition	This API fetches the definition-related details for a specified Process. You may also specify the ID of the Activity in order to fetch the details for that specific activity.
WFGetProcessProperty	This API fetches the properties like Name, States, and Activity details for the specified Process.
WMFetchProcessDefinitionStates	This API is used to retrieve the Process Definition States that any process in the cabinet can acquire. There are only two states that any process can have in the cabinet, namely 'Enabled' and 'Disabled'. This API returns these states only.
WMFetchProcessDefinitionState	This API is used to retrieve the Process Definition States that any process in the cabinet can acquire. There are only two states that any process can have in the cabinet, namely 'Enabled' and 'Disabled'. This API returns these states only. This API is the same as WMFetchProcessDefinitionStates API.

WMChangeProcessDefinitionState	This API is used to allow a process definition to be changed temporarily to a specific state such as disabled (thus disallowing temporarily the creation of new process definitions), or enabled (thus allowing again the creation of new process definitions based on the named definition).
WFGetDMSFolderDefinition	This API returns the detailed list of DMS Folders associated with the specified Process Definition.
WFGetProcessVariables	This API is used to retrieve the Process Variables that are defined for a specified process, and associated with the specified activity. This call also allows you to fetch the variables for all versions of a process.
WFGetDynamicConstants	This API returns the list of all dynamic constants defined for a Process.
WFSetDynamicConstants	This API allows the user to set the values for the Dynamic Constants defined in a Process.
WMSetTurnAroundTime	This API is used to set the Turn-Around-Time for a Process, and the individual activities in it.
WFGetStateList	This API is used to retrieve the list of States defined for a specific process. The states can be Completed, Running, Suspended, Aborted, Not Started, Terminated and custom defined states.
WFSetQuickSearchVariables	This API sets/deletes the variables for quick search.
WFGetQuickSearchVariables	This API is used to retrieve the variables for quick search.

WMGetProcessList

This API returns a list of all the processes in the cabinet. If however, you wish to fetch the list based on which processes are a part of a specific queue, you may specify the Queue Name, to filter the list accordingly. Similarly, you can also filter the Process List based on the Process States.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMGetProcessList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
DataFlag	Root	No	Flag indicating whether data corresponding to the processes like NoofInstances, NoofInstancesCompleted, NoofInstancesDiscarded, etc is to be fetched or not.	Y — Yes N — No
LatestVersionFlag	Root	No	Flag indicating whether to fetch the data corresponding to the Latest Version of the Processes	Y — Yes N — No
QueueName	Filter	No	Name of the Queue, based on which the Process List is to be returned for all Processes whose streams are included in this specified Queue.	NA
StateFlag	Filter	No	Filter string to fetch the list of Process that are either Enabled or Disabled.	E — Enabled D — Disabled B — Both
From	DateRange	No	From Date part of the Date Range during which the Data for the Processes is to be retrieved.	NA

To	DateRange	No	From Date part of the Date Range during which the Data for the Processes is to be retrieved.	NA
SortOrder	BatchInfo	No	Order in which the Processes in the list are to be sorted on the Process names.	A — Ascending D — Descending
LastValue	BatchInfo	No	Name of the last process fetched in the previous batch.	NA
LastIndex	BatchInfo	No	ID of the last process fetched in the previous batch.	NA
NoOfRecordsToFetch	BatchInfo	No	No. of Processes to fetch per batch.	NA
RightFlag	BatchInfo	No	This Flag indicates whether to fetch the list of Processes based on the rights associated with it for the currently logged-in user. These are the Read/Modify/Create/ Delete/Annotate rights that may be associated with the Process Documents while assigning the Process Management Rights.	000000 — No Rights Checking Else a valid RMCDA string.
PDAFlag	Root	No	It refers to the call coming from.	Y — Mobile N — Web Desktop
ProjectId	Root	No	Every project is associated with project Id.	NA
ProcessPrefix	Root	No	Prefix of ProcessInstanceId.	NA

PendingActionsFlag	Root	No	This flag refers to the action of checker.	Y — Approved N — Disapproved
RetrievedCount	Root	No	No. of records retrieved in the current batch.	NA
ObjectName	Object	No	Process Name	NA
ObjectId	Object	No	Process Id	NA
RightString	Root	No	Rights on the process of the user represents in the form of binary string.	NA
TotalCount	Root	No	Total no. of processes that match the specified criteria.	NA
actionid	PendingActions	No	Id of the action on process.	NA
EnableMultiLingual	Root	No	This flag enables the multilingual results in the queue list output.	Y — Enabled N — Disabled DefaultValue:N
OpenMode	Root	No	This flag decides whether the user is a business admin or a desktop user. If this flag value is PM then EnableMultiLingual flag value is ignored.	WD — Webdesktop user (no impact on the multilingual flag) PM — Multilingual should be disabled. Default Value — WD
OrderBy	BatchInfo	No	It is an Integer value indicating the order by field based on which the returned process list is to be sorted. Sorting can be done based on Process name, creation date time, Modified date time	3 — ProcessName 18 — Created Date time 21 — Last modified on

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ID	ProcessInfo	ID of the Process.
Name	ProcessInfo	Name of the Process.
Version	ProcessInfo	Version of the Process.
NoofInstances	Data	No. of Instances currently existing in the process.
NoOfInstancesCompleted	Data	No. of Instances completed during the specified date range.
NoOfInstancesDiscarded	Data	No. of Instances discarded during the specified date range.
NoOfInstancesDelayed	Data	No. of Instances delayed during the specified date range.
StateSince	ProcessInfo	Date-Time when the Process State was last changed.
State	ProcessInfo	Current State of the Process, Enabled and Disabled.
ProcessTurnAroundTime	ProcessInfo	Turn-Around-Time set for the Process.

TotalCount	Root	Total no. of processes that match the specified criteria.
RetrievedCount	Root	No. of Processes retrieved in the current batch.
RightString	ProcessInfo	Rights on the process of the user represents in the form of binary string.
actionid	PendingActions	Id of the action on process.
RegPrefix	ProcessInfo	The Prefix string defined for the Process's Registration Sequence.
RegSuffix	ProcessInfo	The Suffix string defined for the Process's Registration Sequence.
RegSeqLength	ProcessInfo	Number of characters of process instance id.
ProcessType	ProcessInfo	Type of process whether standard or multivariant.
CreatedOn	ProcessInfo	Time on which process is created
CreatedBy	ProcessInfo	Process created by that user.
LastModifiedOn	ProcessInfo	Last modified time of process modification.
LastModifiedBy	ProcessInfo	Process modified by that user previously.
![CDATA[description]]	ProcessInfo	Tag to display text type data.
ProcessTATCalFlag	ProcessInfo	Flag to calculate turn around time of the process.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed
4	WM_INVALID_PROCESS_INSTANCE	The activity instance ID was not valid.
7	WM_INVALID_ATTRIBUTE	The attribute was not valid.

Input XML:

```
<?xml version="1.0"?>
<WMGetProcessList_Input>
<Option>WMGetProcessList</Option>
<EngineName>ibps5sp2feb2022ssn</EngineName>
<SessionId>-1879435172</SessionId>
<RightFlag>010100</RightFlag>
<Filter>
<QueueName></QueueName>
<QueueId></QueueId>
<StateFlag></StateFlag>
<LatestVersionFlag>N</LatestVersionFlag>
<DateRange></DateRange>
</Filter>
<BatchInfo>
<OrderBy>18</OrderBy>
<SortOrder>A</SortOrder>
<LastValue>2022-03-16 13:00:03.227</LastValue>
<LastIndex>3</LastIndex>
<NoOfRecordsToFetch>4</NoOfRecordsToFetch>
</BatchInfo>
<OpenMode>PM</OpenMode>
<EnableMultiLingual>Y</EnableMultiLingual>
</WMGetProcessList_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetProcessList_Output>
<Option>WMGetProcessList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessList>
<ProcessInfo>
<ID>1</ID>
<Name>AccOpening</Name>
<Version>1</Version>
<State>enabled</State>
<ProcessTurnAroundTime>23</ProcessTurnAroundTime>
</ProcessInfo>
</ProcessList>
<TotalCount>1</TotalCount>
<RetrievedCount>1</RetrievedCount>
</WMGetProcessList_Output>
```

WMFetchProcessDefinitions

This API is used to fetch a list of all the latest versions of processes defined in the cabinet, based on the specified filter. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchProcessDefinitions_Input>
    <Option>WMFetchProcessDefinitions</Option>
    <EngineName>ibps13oct</EngineName>
    <SessionID>-1768378551</SessionID>
    <CountFlag></CountFlag>
    <BatchInfo>
        <NoOfRecordsToFetch></NoOfRecordsToFetch>
    </BatchInfo>
</WMFetchProcessDefinitions_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessDefinitions
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
CountFlag	Filter	No	Flag indicating whether the total count of processes matching the specified criteria (if any) is also to be returned.	Y — Yes N — No
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessDefinitions_Output>
    <Option>WMFetchProcessDefinitions</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessDefinitions>
        <ProcessDefinition>
            <ProcessDefinitionId>1</ProcessDefinitionId>
            <ProcessDefinitionVersion>1</ProcessDefinitionVersion>
            <ProcessDefinitionName>import_1310171146</ProcessDefinitionName>
            <ProcessDefinitionState>Enabled</ProcessDefinitionState>
            <RegisterationPrefix>pre_1310171148</RegisterationPrefix>
            <RegisterationSuffix>process</RegisterationSuffix>
            <StartingNo>0</StartingNo>
            <TurnAroundTime>
                <Years>0</Years>
                <VariableId_Years>0</VariableId_Years>
                <VarFieldId_Years>0</VarFieldId_Years>
                <Months>0</Months>
                <VariableId_Months>0</VariableId_Months>
                <VarFieldId_Months>0</VarFieldId_Months>
                <Days>0</Days>
                <VariableId_Days>0</VariableId_Days>
                <VarFieldId_Days>0</VarFieldId_Days>
                <Hours>0</Hours>
                <VariableId_Hours>0</VariableId_Hours>
                <VarFieldId_Hours>0</VarFieldId_Hours>
                <Minutes>0</Minutes>
                <VariableId_Minutes>0</VariableId_Minutes>
                <VarFieldId_Minutes>0</VarFieldId_Minutes>
```

```
                <Seconds>0</Seconds>
                <VariableId_Seconds>0</VariableId_Seconds>
                <VarFieldId_Seconds>0</VarFieldId_Seconds>
            </TurnAroundTime>
            <ProcessTATCalFlag>Y</ProcessTATCalFlag>
            <CabinetName>ibps13oct</CabinetName>
            <RouteFolderId>35</RouteFolderId>
            <ScratchFolderId>36</ScratchFolderId>
            <WorkFlowFolderId>37</WorkFlowFolderId>
            <CompletedFolderId>38</CompletedFolderId>
            <DiscardFolderId>39</DiscardFolderId>
        </ProcessDefinition>
        <ProcessDefinition>
            <ProcessDefinitionId>2</ProcessDefinitionId>
            <ProcessDefinitionVersion>1</ProcessDefinitionVersion>
            <ProcessDefinitionName>process1</ProcessDefinitionName>
            <ProcessDefinitionState>Disabled</ProcessDefinitionState>
            <RegisterationPrefix>WF</RegisterationPrefix>
            <RegisterationSuffix>process</RegisterationSuffix>
            <StartingNo>0</StartingNo>
            <TurnAroundTime>
                <Years>0</Years>
                <VariableId_Years>0</VariableId_Years>
                <VarFieldId_Years>0</VarFieldId_Years>
                <Months>0</Months>
                <VariableId_Months>0</VariableId_Months>
                <VarFieldId_Months>0</VarFieldId_Months>
                <Days>0</Days>
                <VariableId_Days>0</VariableId_Days>
                <VarFieldId_Days>0</VarFieldId_Days>
                <Hours>0</Hours>
                <VariableId_Hours>0</VariableId_Hours>
                <VarFieldId_Hours>0</VarFieldId_Hours>
                <Minutes>0</Minutes>
                <VariableId_Minutes>0</VariableId_Minutes>
                <VarFieldId_Minutes>0</VarFieldId_Minutes>
                <Seconds>0</Seconds>
                <VariableId_Seconds>0</VariableId_Seconds>
                <VarFieldId_Seconds>0</VarFieldId_Seconds>
            </TurnAroundTime>
            <ProcessTATCalFlag>N</ProcessTATCalFlag>
            <CabinetName>ibps13oct</CabinetName>
            <RouteFolderId>40</RouteFolderId>
            <ScratchFolderId>41</ScratchFolderId>
            <WorkFlowFolderId>42</WorkFlowFolderId>
            <CompletedFolderId>43</CompletedFolderId>
            <DiscardFolderId>44</DiscardFolderId>
        </ProcessDefinition>
    </ProcessDefinitions>
    <Count>2</Count>
    <RetrievedCount>2</RetrievedCount>
</WMFetchProcessDefinitions_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	It is the total no. of processes that match the specified criteria.
ProcessDefinitionId	ProcessDefinition	ID of the Process.
ProcessDefinitionVersion	ProcessDefinition	Version No. of the process.
ProcessDefinitionName	ProcessDefinition	Name of the Process.
TurnAroundTime	ProcessDefinition	Turn-Around Time set for the Process.
RetrievedCount	Root	No. of Processes retrieved in the current batch.
ProcessDefinitionState	ProcessDefinition	State of the Process. Enabled – If the Process is currently enabled in the system. Disabled – If the process is currently disabled.
RegistrationPrefix	ProcessDefinition	The Prefix string defined for the Process's Registration Sequence.
RegistrationSuffix	ProcessDefinition	The Suffix string defined for the Process's Registration Sequence.
StartingNo	ProcessDefinition	The Starting Sequence No. defined for the Process's Registration Sequence.
CabinetName	ProcessDefinition	Name of the cabinet from which the External Table has been imported in the Process.
RouteFolderId	ProcessDefinition	Whenever a process is registered in the cabinet, a folder is created with the name and Version No. of the Process, in the DMS. This RouteFolderId is the ID of the Process Folder created in the DMS, corresponding to the Process.
ScratchFolderId	ProcessDefinition	Within the Route Folder, there are 4 sub-folders created with the name Scratch, WorkFlow, Discarded, and Completed. This is the ID of the Scratch folder which will contain all Process Instances for the corresponding Process, and their related documents, before they are initiated in the Process.

WorkFlowFolderId	ProcessDefinition	This is the ID of the WorkFlow folder which will contain all Processes Instances and their Documents once they are initiated in the process.
CompletedFolderId	ProcessDefinition	This is the ID of the Completed folder which will contain all Processes Instances and their Documents once they are completed in the process.
DiscardFolderId	ProcessDefinition	This is the ID of the Discard folder which will contain all Processes Instances and their Documents once they are discarded in the process.
ProcessTATCalFlag	ProcessDefinition	This Flag indicates if the TAT Calculation are working day based or Calendar Day Based.
Years	TurnAroundTime	This field contains the years for TAT Calculation. It can be constant or any integer variable.
VariableId_Years	TurnAroundTime	This field contains the variable ID of the variable if years tag is a variable.
VarFieldId_Years	TurnAroundTime	This field contains the varField ID of the variable if the years tag is a variable
Months	TurnAroundTime	This field contains the months for TAT Calculation. It can be constant or any integer variable.
VariableId_Months	TurnAroundTime	This field contains the variable ID of the variable if months tag is a variable.
VarFieldId_Months	TurnAroundTime	This field contains the varField ID of the variable if the months tag is a variable
Days	TurnAroundTime	This field contains the days for TAT Calculation. It can be constant or any integer variable.
VariableId_Days	TurnAroundTime	This field contains the variable ID of the variable if days tag is a variable.
VarFieldId_Days	TurnAroundTime	This field contains the varField ID of the variable if the days tag is a variable
Hours	TurnAroundTime	This field contains the hours for TAT Calculation. It can be constant or any integer variable.
VariableId_Hours	TurnAroundTime	This field contains the variable ID of the variable if hours tag is a variable.
VarFieldId_Hours	TurnAroundTime	This field contains the varField ID of the variable if the hours tag is a variable

Minutes	TurnAroundTime	This field contains the minutes for TAT Calculation. It can be constant or any integer variable.
VariableId_Minutes	TurnAroundTime	This field contains the variable ID of the variable if minutes tag is a variable.
VarFieldId_Minutes	TurnAroundTime	This field contains the varField ID of the variable if the minutes tag is a variable
Seconds	TurnAroundTime	This field contains the seconds for TAT Calculation. It can be constant or any integer variable.
VariableId_Seconds	TurnAroundTime	This field contains the variable ID of the variable if seconds tag is a variable.
VarFieldId_Seconds	TurnAroundTime	This field contains the varField ID of the variable if the seconds tag is a variable

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
18	WM_NO_MORE_DATA	No more records
400	WF_OPERATION_FAILED	Operation failed
15	WM_INVALID_FILTER	Filter specified is invalid

WMFetchProcessDefinition

This API is exactly the same as WMFetchProcessDefinitions API. This API is used to fetch a list of all the latest versions of processes defined in the cabinet, based on the specified filter. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchProcessDefinition_Input>
    <Option>WMFetchProcessDefinition</Option>
    <EngineName>ofcab</EngineName>
    <SessionID>-1468792281</SessionID>
    <CountFlag></CountFlag>
    <BatchInfo>
        <NoOfRecordsToFetch></NoOfRecordsToFetch>
    </BatchInfo>
    <Filter>
        <Type>256</Type>
        <Comparison>0</Comparison>
        <FilterString>ProcessName like 'EG%'</FilterString>
        <Length>0</Length>
    </Filter>
</WMFetchProcessDefinition_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessDefinition
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
CountFlag	Filter	No	Flag indicating whether the total count of processes matching the specified criteria (if any) is also to be returned.	Y -- Yes N -- No
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then the filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, the Type is specified as 256 in case you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, in case you need to specify a filter as Attribute = Value.
Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.
AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessDefinitions_Output>
    <Option>WMFetchProcessDefinitions</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessDefinitions>
        <ProcessDefinition>
            <ProcessDefinitionId>3</ProcessDefinitionId>
            <ProcessDefinitionVersion>2</ProcessDefinitionVersion>
            <ProcessDefinitionName>EG-NGFForm</ProcessDefinitionName>
            <ProcessDefinitionState>Enabled</ProcessDefinitionState>
            <RegisterationPrefix>NGF</RegisterationPrefix>
            <RegisterationSuffix>FORMS</RegisterationSuffix>
            <StartingNo>2</StartingNo>
            <CabinetName>ofcab</CabinetName>
            <RouteFolderId>28</RouteFolderId>
            <ScratchFolderId>29</ScratchFolderId>
            <WorkFlowFolderId>30</WorkFlowFolderId>
            <CompletedFolderId>31</CompletedFolderId>
            <DiscardFolderId>32</DiscardFolderId>
        </ProcessDefinition>
        <ProcessDefinition>
            <ProcessDefinitionId>4</ProcessDefinitionId>
            <ProcessDefinitionVersion>1</ProcessDefinitionVersion>
            <ProcessDefinitionName>EG-Catalog</ProcessDefinitionName>
            <ProcessDefinitionState>Enabled</ProcessDefinitionState>
            <RegisterationPrefix>WF</RegisterationPrefix>
            <RegisterationSuffix>Process</RegisterationSuffix>
            <StartingNo>1</StartingNo>
            <CabinetName>ofcab</CabinetName>
            <RouteFolderId>49</RouteFolderId>
            <ScratchFolderId>50</ScratchFolderId>
            <WorkFlowFolderId>51</WorkFlowFolderId>
            <CompletedFolderId>52</CompletedFolderId>
            <DiscardFolderId>53</DiscardFolderId>
        </ProcessDefinition>
    </ProcessDefinitions>
    <Count>2</Count>
    <RetrievedCount>2</RetrievedCount>
</WMFetchProcessDefinitions_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	It is the total no. of processes that match the specified criteria.
ProcessDefinitionId	ProcessDefinition	ID of the Process.
ProcessDefinitionVersion	ProcessDefinition	Version No. of the process.
ProcessDefinitionName	ProcessDefinition	Name of the Process.
TurnAroundTime	ProcessDefinition	Turn-Around Time set for the Process.
RetrievedCount	Root	No. of Processes retrieved in the current batch.
ProcessDefinitionState	ProcessDefinition	State of the Process. Enabled – If the Process is currently enabled in the system. Disabled – If the process is currently disabled.
RegistrationPrefix	ProcessDefinition	The Prefix string defined for the Process's Registration Sequence.
RegistrationSuffix	ProcessDefinition	The Suffix string defined for the Process's Registration Sequence.
StartingNo	ProcessDefinition	The Starting Sequence No. defined for the Process's Registration Sequence.
CabinetName	ProcessDefinition	Name of the cabinet from which the External Table has been imported in the Process.
RouteFolderId	ProcessDefinition	Whenever a process is registered in the cabinet, a folder is created with the name and Version No. of the Process, in the DMS. This RouteFolderId is the ID of the Process Folder created in the DMS, corresponding to the Process.
ScratchFolderId	ProcessDefinition	Within the Route Folder, there are 4 sub-folders created with the name Scratch, WorkFlow, Discarded, and Completed. This is the ID of the Scratch folder which will contain all Process Instances for the corresponding Process, and their related documents, before they are initiated in the Process.

WorkFlowFolderId	ProcessDefinition	This is the ID of the WorkFlow folder which will contain all Processes Instances and their Documents once they are initiated in the process.
CompletedFolderId	ProcessDefinition	This is the ID of the Completed folder which will contain all Processes Instances and their Documents once they are completed in the process.
DiscardFolderId	ProcessDefinition	This is the ID of the Discard folder which will contain all Processes Instances and their Documents once they are discarded in the process.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.
400	802	WF_OPERATION_FAILED	Invalid Parameter.
400	804	WF_OPERATION_FAILED	Operation Failed.

WFGetProcessDefinition

This API fetches the definition-related details for a specified Process. You may also specify the ID of the Activity in order to fetch the details for that specific activity. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetProcessDefinition_Input>
    <Option>WFGetProcessDefinition</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>1338058054</SessionId>
    <ProcessDefinitionID>1</ProcessDefinitionID>
</WFGetProcessDefinition_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessDefinition
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA

ProcessDefinitionId	Root	Yes	ID of the Process whose definition related details are to be fetched.	NA
ActivityId	Root	No	ID of the Activity whose specific details are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessDefinition_Output>
    <Option>WFGetProcessDefinition</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessName>AccOpening</ProcessName>
    <VersionNo>1</VersionNo>
    <RegisterationPrefix>BANK</RegisterationPrefix>
    <RegisterationSuffix>ACC</RegisterationSuffix>
    <ActivityList>
        <ActivityInfo>
            <ActivityId>1</ActivityId>
            <ActivityName>Scanning</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>1</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
```

```
            <NoOfExitRules>0</NoOfExitRules>
            <NoOfStreams>1</NoOfStreams>
            <NoOfInterfaces>1</NoOfInterfaces>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>2</ActivityId>
            <ActivityName>Data Entry</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>10</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
            <NoOfExitRules>0</NoOfExitRules>
            <NoOfStreams>1</NoOfStreams>
            <NoOfInterfaces>3</NoOfInterfaces>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>3</ActivityId>
            <ActivityName>ExceptionStatus</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>7</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
            <NoOfExitRules>3</NoOfExitRules>
            <NoOfStreams>0</NoOfStreams>
            <NoOfInterfaces>0</NoOfInterfaces>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>4</ActivityId>
            <ActivityName>ExceptionResolution</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>10</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
            <NoOfExitRules>0</NoOfExitRules>
            <NoOfStreams>1</NoOfStreams>
            <NoOfInterfaces>2</NoOfInterfaces>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>5</ActivityId>
            <ActivityName>Manager</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>10</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
            <NoOfExitRules>0</NoOfExitRules>
            <NoOfStreams>1</NoOfStreams>
            <NoOfInterfaces>3</NoOfInterfaces>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>6</ActivityId>
            <ActivityName>Decision2</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>7</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
            <NoOfExitRules>3</NoOfExitRules>
            <NoOfStreams>0</NoOfStreams>
```

```
            <NoOfInterfaces>0</NoOfInterfaces>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>7</ActivityId>
            <ActivityName>Work Exit1</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>2</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
            <NoOfExitRules>0</NoOfExitRules>
            <NoOfStreams>0</NoOfStreams>
            <NoOfInterfaces>0</NoOfInterfaces>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>8</ActivityId>
            <ActivityName>Discard1</ActivityName>
            <ReassignmentAllowed>N</ReassignmentAllowed>
            <ActivityType>3</ActivityType>
            <Expiry>NULL</Expiry>
            <NoOfEntryRules>0</NoOfEntryRules>
            <NoOfExitRules>0</NoOfExitRules>
            <NoOfStreams>0</NoOfStreams>
            <NoOfInterfaces>0</NoOfInterfaces>
        </ActivityInfo>
    </ActivityList>
</WFGetProcessDefinition_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Process Name	Root	Name of the Process.
VersionNo	Root	Version No for the Process.
RegisterationPrefix	Root	The Prefix string defined for the Process's Registration Sequence.
RegisterationSuffix	Root	The Suffix string defined for the Process's Registration Sequence.
ActivityId	ActivityInfo	ID of the Activity in the Process.
ActivityName	ActivityInfo	Name of the Activity.
ActivityType	ActivityInfo	Type of the Activity. 1 - Work Introduction 2 - Work Exit 3 - Discard

		4 - Hold 5 - Distribute 6 - Collect 7 - Decision 18 - SubProcess 10 - Custom 19 – Integration 11 - Query
Expiry	ActivityInfo	Expiry Interval set for the Activity.
NoOfEntryRules	ActivityInfo	No. of Entry Settings defined for the Activity.
NoOfExitRules	ActivityInfo	No. of Routing Criteria defined for the Decision Type Activity.
NoOfStreams	ActivityInfo	No. of Streams defined for the Activity.
NoOfInterfaces	ActivityInfo	No. of Tool Windows/Interfaces included for the Activity.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
230	WFS_NORIGHTS	No Rights
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.

WFGetProcessProperty

This API fetches the properties like Name, States, and Activity details for the specified Process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFGetProcessProperty_Input>
    <Option>WFGetProcessProperty</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>1937867096</SessionId>
    <ProcessDefId>1</ProcessDefId>
</WFGetProcessProperty_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessProperty
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefID	Root	Yes	ID of the Process whose properties are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessProperty_Output>
    <Option>WFGetProcessProperty</Option>
```

```
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessName>AccOpening</ProcessName>
    <VersionNo>1.0</VersionNo>
    <ProcessState>Enabled</ProcessState>
    <ActivityList>
        <ActivityInfo>
            <ActivityId>1</ActivityId>
            <ActivityName>Scanning</ActivityName>
            <NoofInstances>0</NoofInstances>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>2</ActivityId>
            <ActivityName>Data Entry</ActivityName>
            <NoofInstances>1</NoofInstances>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>3</ActivityId>
            <ActivityName>ExceptionStatus</ActivityName>
            <NoofInstances>0</NoofInstances>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>4</ActivityId>
            <ActivityName>ExceptionResolution</ActivityName>
            <NoofInstances>0</NoofInstances>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>5</ActivityId>
            <ActivityName>Manager</ActivityName>
            <NoofInstances>0</NoofInstances>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>6</ActivityId>
            <ActivityName>Decision2</ActivityName>
            <NoofInstances>0</NoofInstances>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>7</ActivityId>
            <ActivityName>Work Exit1</ActivityName>
            <NoofInstances>0</NoofInstances>
        </ActivityInfo>
        <ActivityInfo>
            <ActivityId>8</ActivityId>
            <ActivityName>Discard1</ActivityName>
            <NoofInstances>0</NoofInstances>
        </ActivityInfo>
    </ActivityList>
</WFGetProcessProperty_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.

MainCode	Exception	Error code specified by WAPI.
VersionNo	Root	Version No. for the Process.
ProcessName	Root	Name of the Process.
ProcessState	Root	Current State of the Process. It can be Enabled or Disabled.
ProcessTurnAroundTime	Root	Turn Around Time (TAT) set for the Process in hours.
ActivityId	ActivityInfo	ID of the Activity in the Process.
ActivityName	ActivityInfo	Name of the Activity in the Process.
NoofInstances	ActivityInfo	No of Instances on each of the activities.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

WMFetchProcessDefinitionStates

This API is used to retrieve the Process Definition States that any process in the cabinet can acquire. There are only two states that any process can have in the cabinet, namely ‘Enabled’ and ‘Disabled’. This API returns these states only. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchProcessDefinitionStates_Input>
    <Option>WMFetchProcessDefinitionStates</Option>
```

```
    <EngineName>ofcab</EngineName>
    <SessionID>1601559629</SessionID>
    <CountFlag>N</CountFlag>
    <BatchInfo>
        <NoOfRecordsToFetch></NoOfRecordsToFetch>
        <LastValue></LastValue>
    </BatchInfo>
</WMFetchProcessDefinitionStates_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessDefinitionStates
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
CountFlag	Root	No	Flag indicating whether the total count is to be returned or not.	Y — Yes N — No
NoOfRecordsToFetch	BatchInfo	No	The no. of States to be fetched per batch.	NA
LastValue	BatchInfo	No	The last state returned in the previous batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessDefinitionState_Output>
    <Option>WMFetchProcessDefinitionState</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessDefinitionStates>
        <ProcessDefinitionState>Disabled</ProcessDefinitionState>
        <ProcessDefinitionState>Enabled</ProcessDefinitionState>
    </ProcessDefinitionStates>
    <RetrievedCount>2</RetrievedCount>
</WMFetchProcessDefinitionState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessDefinitionState	ProcessDefinitionStates	States that any process can have in the cabinet. It can be Enabled or Disabled.
RetrievedCount	Root	No. of states returned in the current batch.
Count	Root	Total No. of Process States defined in the cabinet.

If OAuth is enabled

Parameter	Parent tag	Description

AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session.
18	WM_NO_MORE_DATA	No more records

WMFetchProcessDefinitionState

This API is used to retrieve the Process Definition States that any process in the cabinet can acquire. There are only two states that any process can have in the cabinet, namely 'Enabled' and 'Disabled'. This API returns these states only. This API is the same as WMFetchProcessDefinitionStates API. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchProcessDefinitionState_Input>
    <Option>WMFetchProcessDefinitionState</Option>
    <EngineName>ofcab</EngineName>
    <SessionID>1601559629</SessionID>
    <CountFlag>N</CountFlag>
    <BatchInfo>
        <NoOfRecordsToFetch></NoOfRecordsToFetch>
        <LastValue></LastValue>
    </BatchInfo>
</WMFetchProcessDefinitionState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessDefinitionState
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id	NA
CountFlag	Root	No	Flag indicating whether the total count is to be returned or not.	Y — Yes N — No
NoOfRecordsToFetch	BatchInfo	No	The no. of States to be fetched per batch.	NA
LastValue	BatchInfo	No	The last state returned in the previous batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessDefinitionState_Output>
    <Option>WMFetchProcessDefinitionState</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessDefinitionStates>
        <ProcessDefinitionState>Disabled</ProcessDefinitionState>
        <ProcessDefinitionState>Enabled</ProcessDefinitionState>
```

```
    </ProcessDefinitionStates>
    <RetrievedCount>2</RetrievedCount>
</WMFetchProcessDefinitionState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessDefinitionState	ProcessDefinitionStates	States that any process can have in the cabinet. It can be Enabled or Disabled.
RetrievedCount	Root	No. of states returned in the current batch.
Count	Root	Total No. of Process States defined in the cabinet.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session.
18	WM_NO_MORE_DATA	No more records

WMChangeProcessDefinitionState

This API is used to allow a process definition to be changed temporarily to a specific state such as disabled (thus disallowing temporarily the creation of new process definitions), or enabled (thus allowing again the creation of new process definitions based on the named definition).

You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<? Xml Version="1.0"? >
<WMChangeProcessDefinitionState_Input>
    <Option>WMChangeProcessDefinitionState</Option>
    <EngineName>ofcab</EngineName>
    <SessionID>1601559629</SessionID>
    <ProcessDefinitionID>1</ProcessDefinitionID>
    <ProcessDefinitionState>enabled</ProcessDefinitionState>
</WMChangeProcessDefinitionState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMChangeProcessDefinitionState
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	ID of the Process whose states is to be changed.	NA
ProcessDefinitionStat	BatchInfo	Yes	The New state to be set for the Specified Process.	Enabled – To enable the Process. Disabled – To disable the Process.
ActionComments	Root	No	It refers to the user comments before the action performs.	NA

PendingActionsFlag	Root	No	This flag refers to the action of checker.	Y — Approved N — Disapproved
AuthorizationFlag	Root	No	It is a Flag to determine whether Maker-Checker functionality needs to be implemented or not.	N – Changes made are permanent. No Checker approval is required. Y – Changes require approval or rejection from some Checker.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WMChangeProcessDefinitionState_Output>
    <Option>WMChangeProcessDefinitionState</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
</WMChangeProcessDefinitionState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
830	0	WFS_NORIGHTS	No Rights.
502	0	WM_INVALID_PROCESS_DEFINITION	The process definition ID was not valid.
9	0	WM_INVALID_STATE	Invalid state.
984	0	WF_PROCESS_ALREADY_ENABLED	Process Already Enabled.
400	--	WF_OPERATION_FAILED	Operation Failed.

WFGetDMSFolderDefinition

This API returns the detailed list of DMS Folders associated with the specified Process Definition. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetDMSFolderDefinition_Input>
    <Option>WFGetDMSFolderDefinition</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>1338058054</SessionId>
    <ProcessDefinitionId>1</ProcessDefinitionId>
</WFGetDMSFolderDefinition_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetDMSFolderDefinition
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

ProcessDefinitionId	Root	Yes	ID of the Process whose DMS folder details are to be fetched.	NA
OmniService	Root	No	For omniservice as Y, the participant type will be selected as System, otherwise the user type will be taken from the sessionID.	Y — Participant Type as System. N — The participant type is user.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessDefinition_Output>
    <Option>WMFetchProcessDefinition</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <DMSFolderDefinition>
        <ProcessDefinitionId>1</ProcessDefinitionId>
        <CabinetName>OFCab</CabinetName>
        <RouteFolderId>45</RouteFolderId>
        <ScratchFolderId>46</ScratchFolderId>
        <WorkFlowFolderId>47</WorkFlowFolderId>
        <CompletedFolderId>48</CompletedFolderId>
        <DiscardFolderId>49</DiscardFolderId>
```

```
        <DataClass>AccOpening</DataClass>
    </DMSFolderDefinition>
</WMFetchProcessDefinition_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessDefinitionId	DMSFolderDefinition	ID of the Process.
CabinetName	DMSFolderDefinition	Name of the cabinet in which the External Table (if any included in the Process) is contained.
RouteFolderId	DMSFolderDefinition	Whenever a process is registered in the cabinet, a folder is created with the name and Version No. of the Process, in the DMS. This RouteFolderId is the ID of the Process Folder created in the DMS, corresponding to the Process.
ScratchFolderId	DMSFolderDefinition	Within the Route Folder, there are 4 sub-folders created with the name Scratch, WorkFlow, Discarded and Completed. This is the ID of the Scratch folder, which contains all Process Instances for the corresponding Process, and their related documents, before they are initiated in the Process.
WorkFlowFolderId	DMSFolderDefinition	This is the ID of the WorkFlow folder, which contains all Processes Instances and their Documents once they are initiated in the process.
CompletedFolderId	DMSFolderDefinition	This is the ID of the Completed folder, which contains all Processes Instances and their Documents once they are completed in the process.
DiscardFolderId	DMSFolderDefinition	This is the ID of the Discard folder, which contains all Processes Instances and their Documents once they are discarded in the process.
DataClass	DMSFolderDefinition	Name of the External Table (if any) included in the Process.

If OAuth is enabled

Parameter	Parent tag	Description

AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The specified filter is invalid
18	WM_NO_MORE_DATA	No more records available
400	WF_OPERATION_FAILED	Operation failed
502	WM_INVALID_PROCESS_DEFINITION	Process definition ID not valid.

WFGetProcessVariables

This API is used to retrieve the Process Variables that are defined for a specified process, and associated with the specified activity. This call also allows you to fetch the variables for all versions of a process. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetProcessVariables_Input>
<Option>WFGetProcessVariables</Option>
<EngineName>ofcab</EngineName>
<SessionId>2097286869</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<ProcessName>AccOpening</ProcessName>
<ActivityType>1</ActivityType>
<OpenMode>WD</OpenMode>
</WFGetProcessVariables_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessVariables

EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionId	Root	No	ID of the Process for which Process Variables are to be fetched. If you are specifying the Process Name in the ProcessName Tag, then there is no need to specify the ProcessDefinitionId. However, if no value is being specified for ProcessName, ProcessDefinitionId becomes mandatory.	NA
ActivityId	Root	No	ID of the workstep, for which the associated variables list is to be fetched.	NA
ProcessName	Root	No	Name of the Process whose Process Variables are to be fetched. Specify the name of the Process, in case you wish to fetch the Variables defined for the Process across all versions. In this case, do not specify the ID of the Process. However, if no value is being specified for ProcessName, ProcessDefinitionId becomes mandatory.	NA

ActivityType	Root	No	Type of the Activity, specified in the ActivityId Tag.	1 — Work Introduction 2 — Work Exit 3 — Discard 4 — Hold 5 — Distribute 6 — Collect 7 — Decision 18 — SubProcess 10 — Custom 19 — Integration 11 — Query
EnableMultiLingual	Root	No	Multilingual support	Y/N
FetchSearchCompatibleVariables	Root	No		Y/N
RightFlag	Root	No	Defines the rights for the User	
SearchScope	Root	No	Tells whether the variable is a Search Variable or Search result	C — Search Variable R — Search Result
OpenMode	Root	No	This flag decides whether the user is business admin or userdesktop. This flag value is PM then the EnableMultiLingual flag value is ignored.	WD — Webdesktop user (no impact on the multilingual flag) PM — Multilingual must be disabled. DefaultValue — WD

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessVariables_Output>
<Option>WFGetProcessVariables</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attributes>
<Attribute>
<Name>AccountType</Name>
<Type>1110</Type>
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>Address</Name>
<Type>2110</Type>
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>Age</Name>
<Type>213</Type>
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>ApplicantName</Name>
<Type>1110</Type>
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>ApplicationDate</Name>
<Type>218</Type>
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>ApprovalStatus</Name>
<Type>1110</Type>
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>EmploymentDetails</Name>
<Type>2110</Type>
```

```
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>Location</Name>
<Type>1110</Type>
<Length>1024</Length>
</Attribute>
</Attributes>
<Count>8</Count>
</WFGetProcessVariables_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	Attribute	Name of the data attribute.
Type	Attribute	This indicates the Type of the data attribute. This is a numeric value, where each digit corresponds to some information about the attribute. 1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 — Queue 2 — External 3 — System 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 — Read 2 — Modify 3 — Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 — Integer 4 — Long 6 — Float 8 — Date 10 — Text
Length	Attribute	It is the length of the attribute.
Count	Root	No. of Variables fetched

If OAuth is enabled

Parameter	Parent tag	Description

AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No More Data
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.

WFGetDynamicConstants

This API returns the list of all dynamic constants defined for a Process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetDynamicConstants_Input>
    <Option>WFGetDynamicConstants</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>1338058054</SessionId>
    <ProcessDefinitionId>4</ProcessDefinitionId>
    <ProcessName>AccOpening</ProcessName>
    <SortOrder>A</SortOrder>
    <OrderBy>1</OrderBy>
    <NoOfRecordsToFetch>500</NoOfRecordsToFetch>
    <CountFlag>Y</CountFlag>
</WFGetDynamicConstants_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetDynamicConstants
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA

ProcessDefinitionId	Root	No	ID of the Process whose Dynamic Constants are to be fetched.	NA
ProcessName	Root	No	Name of the Process.	NA
NoOfRecordsToFetch	BatchInfo	No	Number of constants to fetch per batch.	NA
LastValue	BatchInfo	No	Name of the Last Constant fetched in the previous batch.	NA
SortOrder	Filter	No	Order in which the Constants list is to be sorted.	A — Ascending D — Descending
CountFlag	Root	No	Flag indication if the total count of constants defined in the process is to be returned.	Y — Yes N — No

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WFGetDynamicConstants_Output>
```

```
    <Option>WFGetDynamicConstants</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessDefinitionId>4</ProcessDefinitionId>
    <ProcessName>Loan</ProcessName>
    <ProcessVersion>3</ProcessVersion>
    <DynamicConstants>
        <DynamicConstant>
            <ConstantName>CONST_vbxcvn</ConstantName>
            <ConstantValue>xyz</ConstantValue>
            <LastModifiedOn>2007-03-23 09:53:54</LastModifiedOn>
        </DynamicConstant>
    </DynamicConstants>
    <RetrievedCount>1</RetrievedCount>
    <TotalCount>1</TotalCount>
</WFGetDynamicConstants_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessDefinitionId	Root	ID of the Process.
ProcessName	Root	Name of Process
ProcessVersion	Root	Version of Process
ConstantName	DynamicConstant	Name of the dynamic constant
ConstantValue	DynamicConstant	Value of the dynamic constant
LastModifiedOn	DynamicConstant	Last modified time at which the value of the Dynamic Constant was changed.
RetrievedCount	Root	No. of Dynamic Constants fetched in the current batch.
TotalCount	Root	Total no. of Dynamic constants defined for the process.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message

400	WF_OPERATION_FAILED	Operation failed
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid Session
15	WM_INVALID_FILTER	Invalid Filter

WFSetDynamicConstants

This API allows the user to set the values for the Dynamic Constants defined in a Process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetDynamicConstants_Input>
    <Option>WFSetDynamicConstants</Option>
    <EngineName>ibps25ora</EngineName>
    <SessionId>-67879889</SessionId>
    <ProcessDefinitionId>4</ProcessDefinitionId>
    <ActionComments>Setting the Dynamic constant for Testing</ActionComments>
    <DynamicConstants>
        <DynamicConstant>
            <ConstantName>ABC</ConstantName>
            <ConstantValue>xyz</ConstantValue>
        </DynamicConstant>
        <DynamicConstant>
            <ConstantName>XYZ</ConstantName>
            <ConstantValue>abc</ConstantValue>
        </DynamicConstant>
    </DynamicConstants>
</WFSetDynamicConstants_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetDynamic Constants
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionId	Root	Yes	It is the logged-in user's session id.	NA

ActionComments	Root	No	This field contains the comments provided by the user while setting the dynamic constants	NA
ProcessDefinitionId	Root	Yes	ID of the Process whose Dynamic Constants are to be fetched.	NA
ConstantName	DynamicConstant	No	Name of the dynamic constant.	NA
ConstantValue	DynamicConstant	No	Value of the dynamic constant.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WFSetDynamicConstants_Output>
    <Option>WFSetDynamicConstants</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
</WFSetDynamicConstants_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
602	WFS_OPERATION_SET_DYNAMIC_CONST_FAILED	Set Dynamic Constant Failed
400	WF_OPERATION_FAILED	Operation failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Invalid filter

WFGetRecordMappedFields

This API is used to fetch the Record Mapping Fields specified for an External Table used in a Process. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?Xml Version="1.0"?>
<WFGetRecordMappedFields_Input>
<Option>WFGetRecordMappedFields</Option>
<EngineName>ofcab</EngineName>
<SessionID>1750281704</SessionID>
<ProcessInstanceId>WF-0000003-ACC</ProcessInstanceId>
</WFGetRecordMappedFields_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetRecordMappedFields

EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	No	ID of the Process Instance for which the Record Mapping Data is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Sample response:

```
<?xml version="1.0"?>
<WFGetRecordMappedFields_Output>
<Option>WFGetRecordMappedFields</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<RecordMapping>
<MappedDatabaseName></MappedDatabaseName>
<MappedDatabaseType></MappedDatabaseType>
<MappedDatabaseTable></MappedDatabaseTable>
<MappedObjectID></MappedObjectID>
<ColumnREC1></ColumnREC1>
<ValueREC1></ValueREC1>
<ColumnREC2></ColumnREC2>< ValueREC2>
```

```
</ ValueREC2>
<ColumnREC3></ColumnREC3>
<ValueREC3>
</ ValueREC3>
<ColumnREC4></ColumnREC4>
<ValueREC4>
</ ValueREC4>
<ColumnREC5></ColumnREC5>
<ValueREC5>
</ ValueREC5>
</RecordMapping>undefined</WFGetRecordMappedFields_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MappedDatabaseName	RecordMapping	The Name of the Database in which the External table exists.
MappedDatabaseType	RecordMapping	Type of the Database in which the External table exists.
MappedDatabaseTable	RecordMapping	Name of the External table.
MappedObjectID	RecordMapping	Object Id of the external Table. It is always 1.
ColumnREC1	RecordMapping	The Name of the External table Column which is mapped to Var_Rec_1 field of NewgenONE.
ValueREC1	RecordMapping	Value of the Mapped Field.
ColumnREC2	RecordMapping	The Name of the External table Column which is mapped to Var_Rec_2 field of NewgenONE.
ValueREC2	RecordMapping	Value of the Mapped Field
ColumnREC3	RecordMapping	The Name of the External table Column which is mapped to Var_Rec_3 field of NewgenONE.
ValueREC3	RecordMapping	Value of the Mapped Field
ColumnREC4	RecordMapping	The Name of the External table Column which is mapped to Var_Rec_4 field of NewgenONE.
ValueREC4	RecordMapping	Value of the Mapped Field
ColumnREC5	RecordMapping	The Name of the External table Column which is mapped to Var_Rec_5 field of NewgenONE.
ValueREC5	RecordMapping	Value of the Mapped Field

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
4001	WF_OPERATION_FAILED	Operation failed
18	WM_NO_MORE_DATA	Records are unavailable

WMSetTurnAroundTime

This API is used to set the Turn-Around-Time for a Process, and the individual activities in it. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMSetTurnAroundTime
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	ID of the Process whose Turn-Around-Time (TAT) is to be set	NA
ProcessTurnAround	Root	Yes	Turn-Around-Time (TAT) for the Process in hours.	NA

Id	ActivityInfo	Yes	Id of the activity in the specified process for which the TAT is to be set.	NA
TurnAround	ActivityInfo	Yes	TAT for the activity in hours.	NA
ProcessTATCalFlag	Root	No	Flag for TAT for process	Y — Working days N — Calendar days
ActionComments	Root	No		NA
ActivityTATCalFlag	ActivityInfo	No	Flag for TAT for activity	Y — Working days N — Calendar days

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Output parameter description:

Parameter	Parent tag	Description

Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Id	FailedList	ID of the activity whose TAT could not be set.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
830	WFS_NORIGHTS	No Rights
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	The requested filter is invalid
400	WF_OPERATION_FAILED	Operation failed

Input XML:

```
<?xml version="1.0"?>
<WMSetTurnAroundTime_Input>
    <Option>WMSetTurnAroundTime</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>2081172709</SessionId>
    <ProcessDefinitionID>1</ProcessDefinitionID>
    <ProcessTurnAround>23</ProcessTurnAround>
    <ActivityList>
        <ActivityInfo>
            <Id>2</Id>
            <TurnAround>10</TurnAround>
        </ActivityInfo>
        <ActivityInfo>
            <Id>4</Id>
            <TurnAround>5</TurnAround>
        </ActivityInfo>
```

```
    </ActivityList>
</WMSetTurnAroundTime_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMSetTurnAroundTime_Output>
    <Option>WMSetTurnAroundTime</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <FailedList></FailedList>
</WMSetTurnAroundTime_Output>
```

WFGetStateList

This API is used to retrieve the list of States defined for a specific process. The states can be Completed, Running, Suspended, Aborted, Not Started, Terminated, and custom-defined states. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetStateList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionId	Root	Yes	ID of the Process for which the States are to be fetched.	NA
ProcessName	Root	No	Name of the Process for which the states are to be fetched.	NA

SortOrder	BatchInfo	No	Order in which the States list is to be sorted.	A — Ascending D — Descending
OrderBy	BatchInfo	No	It is the field on which the sorting has to be done.	Order by: 1 — State ID 2 — State Name
NoOfRecordsToFetch	BatchInfo	No	This indicates the no. of records to be fetched per batch.	NA
LastValue	BatchInfo	No	The name of the last state fetched.	NA
LastIndex	BatchInfo	No	It is the id of the last state fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NAs

Output parameter description:

Parameter	Parent tag	Description

Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Id	StateInfo	It is the id of the state, which is fetched.
StateName	StateInfo	It is the name of the state, which is fetched.
RetrievedCount	Root	It is the number of states retrieved in the current batch.
TotalCount	Root	It is the total number of states defined in the process.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	SubCode	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	--	WF_OPERATION_FAILED	Operation Failed.

Input XML:

```
<WFGetStateList_Input>
    <Option>WFGetStateList</Option>
    <EngineName>ibps5oct</EngineName>
    <SessionID>1018497187</SessionID>
    <ProcessDefinitionId>1</ProcessDefinitionId>
    <ActivityId>1</ActivityId>
    <BatchInfo>
        <SortOrder/>
        <OrderBy/>
        <NoOfRecordsToFetch/>
        <LastValue/>
        <LastIndex/>
    </BatchInfo>
</WFGetStateList_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WFGetStateList_Output>
    <Option>WFGetStateList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <StateList>
        <StateInfo>
            <ID>1</ID>
            <StateName>NotStarted</StateName>
        </StateInfo>
        <StateInfo>
            <ID>2</ID>
            <StateName>Running</StateName>
        </StateInfo>
        <StateInfo>
            <ID>3</ID>
            <StateName>Suspended</StateName>
        </StateInfo>
        <StateInfo>
            <ID>4</ID>
            <StateName>Terminated</StateName>
        </StateInfo>
        <StateInfo>
            <ID>5</ID>
            <StateName>Aborted</StateName>
        </StateInfo>
        <StateInfo>
            <ID>6</ID>
            <StateName>Completed</StateName>
        </StateInfo>
    </StateList>
    <TotalCount>6</TotalCount>
    <RetrievedCount>6</RetrievedCount>
</WFGetStateList_Output>
```

WFFetchProcessDefinition

This API fetches process layout details for a specified Process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFFetchProcessDefinition_Input>
```

```
    <Option>WFFetchProcessDefinition</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>1601559629</SessionId>
    <Name>AccOpening</Name>
</WFFetchProcessDefinition_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFFetchProcessDefinition
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
Name	Root	Yes	Name of the Process whose layout details are to be fetched	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFFetchProcessDefinition_Output>
    <Option>WFFetchProcessDefinition</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <WorkflowProcess>
```

```
        <Id></Id>
        <Name></Name>
        <Activities>
            <Activity>
                <Id></Id>
                <Name></Name>
                <Left></Left>
                <Top></Top>
                <ActivityType></ActivityType>
                <Subprocess>
                    <Id></Id>
                    <Name></Name>
                </Subprocess>
                <ActivityIcon></ActivityIcon>
                <Length></Length>
            </Activity>
        </Activities>
        <Transitions>
            <Transition>
                <From></From>
                <To></To>
                <Color></Color>
                <TransitionType>T</TransitionType>
            </Transition>
        </Transitions>
    </WorkflowProcess>
</WFFetchProcessDefinition_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Id	WorkflowProcess	ID of the Process.
Name	WorkflowProcess	Name of the Process
Id	Activity	ID of Activity in the Process.
Name	Activity	Name of the Activity in the Process.
Left	Activity	X position of the Activity in the Process layout.
Top	Activity	Y position of the Activity in the Process layout.

ActivityType	Activity	Type of Activity. 1 — Work Introduction 2 — Work Exit 3 — Discard 4 — Hold 5 — Distribute 6 — Collect 7 — Decision 18 — SubProcess 10 — Custom 19 — Integration 11 — Query
ActivityIcon	Activity	Icon Buffer for the Activity.
Length	Activity	Length of the Icon Buffer.
Subprocess	Subprocess	This Tag is included if the Type of Activity is Sub-Process.
Name	Subprocess	Name of the Sub-Process.
Id	Subprocess	ID of the Sub-Process.
From	Transition	ID of the Activity from where the Link starts.
To	Transition	ID of the Target Activity where the Link ends.
Color	Transition	Color of the Link.
TransitionType	Transition	Type of Transition - T.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA	No more records
15	WM_INVALID_FILTER	Invalid Filter
400	WF_OPERATION_FAILED	Operation failed

WFSetQuickSearchVariables

This API sets/deletes the variables for quick search. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFSetQuickSearchVariables_Input>
    <Option>WFSetQuickSearchVariables</Option>
    <SessionId></SessionId>
    <EngineName></EngineName>
    <SearchVariables>
        <SearchVariable>
            <ProcessDefinitionID></ProcessDefinitionID>
            <Name></Name>
            <Alias></Alias>
            <SearchAllVersion></SearchAllVersion>
            <Operation></Operation>
        </SearchVariable>
        <SearchVariable>
            <ProcessDefinitionID></ProcessDefinitionID>
            <Name></Name>
            <Alias></Alias>
            <SearchAllVersion></SearchAllVersion>
            <Operation></Operation>
        </SearchVariable>
        <SearchVariable>
            <ProcessDefinitionID></ProcessDefinitionID>
            <Name></Name>
            <Alias></Alias>
            <SearchAllVersion></SearchAllVersion>
            <Operation></Operation>
        </SearchVariable>
    </SearchVariables>
</WFSetQuickSearchVariables_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetQuickSearchVariables
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	SearchVariable	No	ID of the Process.	NA
Name	SearchVariable	No	This is the name of the attribute	NA
Alias	SearchVariable	No	This is the alias of the attribute	NA
SearchAllVersion	SearchVariable	No	Specifies whether to search results for all versions or not	Yes No
Operation	SearchVariable	No	Specifies which operation to perform on the attribute	I — Insert D — Delete
ActionComments	Root	No	Specifies the comments for the operation.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetQuickSearchVariables_Output>
```

```
    <Option>WFSetQuickSearchVariables</Option>
    <Exception>
        <MainCode>0</MainCode>
        <SubErrorCode></SubErrorCode>
        <TypeOfError></TypeOfError>
        <Subject></Subject>
        <Description></Description>
    </Exception>
    <FailedList>
        <Alias></Alias>
        <Alias></Alias>
    </FailedList>
</WFSetQuickSearchVariables_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Alias	FailedList	Name of the Alias that failed while insertion or deletion.
SubErrorCode	Exception	Sub error code specified by WAPI.
TypeOfError	Exception	Type of error.
Subject	Exception	Subject of the error describing the reason of error.
Description	Exception	Description about the error.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Invalid Filter
400	WF_OPERATION_FAILED	Operation failed

WFGetQuickSearchVariables

This API retrieves the variables for quick search. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFGetQuickSearchVariables_Input>
<Option>WFGetQuickSearchVariables</Option>
<SessionId></SessionId>
<EngineName></EngineName>
<ProcessDefinitionID></ProcessDefinitionID>
<ProcessName></ProcessName>
<OpenMode>WD</OpenMode>
</WFGetQuickSearchVariables_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetQuickSearchVariables
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Root	No	ID of the Process.	NA
ProcessName	Root	No	This is the name of the process	NA
OpenMode	Root	No	This flag decide whether the user is business admin or userdesktop. This flag value is PM then the EnableMultiLingual flag value is ignored	WD — Webdesktop user (no impact on the multilingual flag) PM — Multilingual must be disabled. DefaultValue — WD

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetQuickSearchVariables_Output>
<Option>WFGetQuickSearchVariables</Option>
<Exception>
<MainCode>0</MainCode>
<SubErrorCode></SubErrorCode>
<TypeOfError></TypeOfError>
<Subject></Subject>
<Description></Description>
</Exception>
<SearchVariables>
<SearchVariable>
<ProcessName></ProcessName>
<ProcessDefinitionID></ProcessDefinitionID>
<ProcessVersion></ProcessVersion>
<Name></Name>
<Alias></Alias>
<SearchAllVersion></SearchAllVersion>
<Type></Type>
<Length></Length>
</SearchVariable>
<SearchVariable>
<ProcessName></ProcessName>
<ProcessDefinitionID></ProcessDefinitionID>
<ProcessVersion></ProcessVersion>
<Name></Name>
<Alias></Alias>
<SearchAllVersion></SearchAllVersion>
<Type></Type>
<Length></Length>
</SearchVariable>
<SearchVariable>
<ProcessName></ProcessName>
<ProcessDefinitionID></ProcessDefinitionID>
<ProcessVersion></ProcessVersion>
<Name></Name>
<Alias></Alias>
<SearchAllVersion></SearchAllVersion>
<Type></Type>
<Length></Length>
</SearchVariable>
</SearchVariables>
</WFGetQuickSearchVariables_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

SubErrorCode	Exception	Sub error code specified by WAPI.
TypeOfError	Exception	Type of error.
Subject	Exception	Subject of the error describing the reason of error.
Description	Exception	Description about the error.
Process Name	SearchVariable	Name of the process
ProcessDefinitionID	SearchVariable	ID of the process
ProcessVersion	SearchVariable	Version of the process
Name	SearchVariable	Name of the attribute that was searched
Alias	SearchVariable	Alias of the attribute that was searched
SearchAllVersion	SearchVariable	Whether all versions of the process were searched or not
Type	SearchVariable	Type of the attribute that was searched
Length	SearchVariable	Length of the attribute that was searched
Precision	SearchVariable	Precision in case attribute is of float type.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Invalid Filter
400	WF_OPERATION_FAILED	Operation failed
18	WM_NO_MORE_DATA	No more records

WFGetProcessVariablesExt

This API is used to retrieve the external Process Variables that are defined for a specified process, and associated with the specified activity. This call also allows you to fetch the variables for all versions of a process. You can view the XML input and output

parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetProcessVariablesExt_Input>
    <Option>WFGetProcessVariablesExt</Option>
    <EngineName>iBPS5SP2PostgresSrvrCab</EngineName>
    <SessionID>1358750648</SessionID>
    <RightFlag>010100</RightFlag>
    <QueueID />
    <ProcessDefinitionID>6</ProcessDefinitionID>
    <ProcessName>testToDO</ProcessName>
    <SearchScope>F,C</SearchScope>
    <ActivityType>1</ActivityType>
    <UserDefVarFlag>Y</UserDefVarFlag>
    <OpenMode>PM</OpenMode>
    <SearchConfigCase>Y</SearchConfigCase>
    <EnableMultiLingual>Y</EnableMultiLingual>
</WFGetProcessVariablesExt_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessVariablesExt
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionId	Root	No	ID of the Process for which Process Variables are to be fetched. If you are specifying the Process Name in the ProcessName Tag, then there is no need to specify the ProcessDefinitionId. However, if no value is being specified for ProcessName, ProcessDefinitionId becomes mandatory.	NA

ActivityId	Root	No	ID of the workstep, for which the associated variables list is to be fetched.	NA
ProcessName	Root	No	Name of the Process whose Process Variables are to be fetched. Specify the name of the Process, in case you wish to fetch the Variables defined for the Process across all versions. In this case, do not specify the ID of the Process. However, if no value is being specified for ProcessName, ProcessDefinitionId becomes mandatory.	NA
ActivityType	Root	No	Type of the Activity, specified in the ActivityId Tag.	1 — Work Introduction 2 — Work Exit 3 — Discard 4 — Hold 5 — Distribute 6 — Collect 7 — Decision 18 — SubProcess 10 — Custom 19 — Integration 11 — Query
SearchScope	Root	No	SearchScope	
UserDefVarFlag	Root	No	UserDefVarFlag	
VariantId	Root	No	It refers to the variant id for which the variable list is to be fetched.	NA
OpenMode	Root	No	This flag decides whether the user is business admin or userdesktop. This flag value is PM then the EnableMultiLingual flag value is ignored.	WD — Webdesktop user (no impact on the multilingual flag) PM — Multilingual must be disabled. DefaultValue — WD

SearchConfigCase	Root	No	This signifies the ability to configure filters which are to be displayed in the advanced search screen	Y or N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessVariablesExt_Output>
    <Option>WFGetProcessVariablesExt</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Attributes>
        <Attribute DefaultValue="null" EntityName="" Length="255"
SystemDefinedName="VAR_STR1" Type="1310" Unbounded="N" VarFieldId="0"
VariableId="19" UserDefinedName="name" />
        <Attribute DefaultValue="null" EntityName="" SystemDefinedName="VAR_INT1"
Type="133" Unbounded="N" VarFieldId="0" VariableId="1" UserDefinedName="age" />
    </Attributes>
</WFGetProcessVariablesExt_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
Exception	Root	

MainCode	Exception	Error code specified by WAPI.
Attributes	Root	
Attributes	Root	This signifies the list of process variables (Attributes)
Attribute	Attributes	This tag returns the details of process variable(Attribute) like UserDefinedName, SystemDefinedName, VariableId, Type, etc. This tag is introduced to allow space in UserDefinedName.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session

Process variant related calls

This section includes a detailed description of the following calls:

API	Description
WFCreateProcessVariant	This API is used to create a process variant of a multivariant process.
WFGetProcessVariantInfo	This API is used to fetch information of a process variant.
WFModifyProcessVariant	This API is used to modify a process variant.
WFGetProcessVariantList	This API is used to fetch the variant's list for a process.
WFChangeProcessVariantState	This API is used to change the variant's state.
WFDeleteProcessVariant	This API is used to delete a process variant.

WFCreateProcessVariant

This API is used to create a process variant of a multi-variant process.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFCreateProcessVariant_Input>
    <Option>WFCreateProcessVariant</Option>
    <EngineName>ibpms21april</EngineName>
    <SessionId>1646373652</SessionId>
    <ProcessDefId>47</ProcessDefId>
    <VariantName>Var1</VariantName>
    <RegPrefix>Vari</RegPrefix>
    <StartSeqNumber>1</StartSeqNumber>
    <RegSuffix>process</RegSuffix>
    <VariantCode>Variant1</VariantCode>
    <Description></Description>
    <Layout>
        <FormLayout columns="2" width1="100" width2="50" width3="0"
activityId="0" />
    </Layout>
    <Fields> -- Description of fields of variant


        <Field name="id" type="3" length="2" precision="" controlType="3"
methodName="" defaultValue="1" pickListInfo="" />
        <Field name="address" type="10" length="49" precision="" controlType="3"
methodName="" defaultValue="abc" pickListInfo="" />
    </Fields>
    <DocumentTypes> --Document types of variant


        <DocumentType name="ldoc1" />
    </DocumentTypes>
    <Association>
        <FieldAssociation>
            <Activity id="2">
                <Age enable="Y" editable="Y" visible="N" mandatory="N"
varType="U" />
                <Name enable="Y" editable="Y" visible="N" mandatory="N"
varType="U" />
                <id enable="Y" editable="Y" visible="N" mandatory="N"
varType="I" />
                <address enable="Y" editable="Y" visible="N" mandatory="N"
varType="I"/>
            </Activity>
            <Activity id="1">
                <Age enable="Y" editable="Y" visible="N" mandatory="N"
varType="U" />
                <Name enable="Y" editable="Y" visible="N" mandatory="N"
varType="U" />
                <id enable="Y" editable="Y" visible="N" mandatory="N"
varType="I" />
                <address enable="Y" editable="Y" visible="N" mandatory="N"
varType="I"/>
```

```
            </Activity>
        </FieldAssociation>
        <DocumentAssociation>
            <Activity id="2">
                <ldoc1 authorization="T" />
            </Activity>
            <Activity id="1">
                <ldoc1 authorization="T" />
            </Activity>
        </DocumentAssociation>
    </Association>
    <Listener />
</WFCreateProcessVariant_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFCreateProcessVariant
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged in user's session id.	NA
ProcessDefId	Root	Yes	It refers to the Multivariant Process definition identifier for which variant is to be created.	NA
VariantName	Root	Yes	It refers to name of variant.	NA
RegPrefix	Root	Yes	It refers to prefix for variant (same as defined for generic process).	NA
StartSeqNumber*	Root	Yes	It refers to starting sequence number of Workitem when created from Variant.	NA

RegSuffix *	Root	Yes	It refers to suffix for variant (same as defined for generic process).	NA
VariantCode *	Root	Yes	It refers to unique identifier for variant.	NA
Description	Root	No	It refers to detailed description for Variant.	NA
Layout	Root	No	It refers to variant-specific form layout.	NA
FormLayout	Layout	No	It refers to variant-specific form layout.	NA
Fields	Root	No	It refers to description of fields of variant.	NA
Field	Fields	No	It refers to individual field of variant.	NA
DocumentTypes	Root	No	It refers to document types of variant.	NA
DocumentType	DocumentTypes	No	It refers to individual document type of variant.	NA
Association	Root	No	It defines field and document associations with activities.	NA
FieldAssociation	Association	No	It defines field associations with activities.	NA

Activity	FieldAssociation	No	It defines activities associated with fields.	NA
DocumentAssociation	Root	No	It defines Document associations with activities.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFCreateProcessVariant_Output>
    <Option>WFCreateProcessVariant</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <VariantId>5</VariantId>
</WFCreateProcessVariant_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

VariantId	Root	It refers to variant id generated for variant.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
400	848	WF_VARIANT_ALREADY_EXISTS	Variant Already Exists.
400	849	WF_REGSEQ_ALREADY_EXISTS	Same Prefix and Suffix Already Exist.
400	846	WF_INVALID_VARNAME	Invalid Variant Name.
701	0	WF_PROCESS_TYPE_GENERIC	Process Type is Generic.
502	0	WF_INVALID_PROCESS_DEFINITION	Invalid Process Definition.
11	0	WM_INVALID_SESSION_HANDLE	Invalid Session.
400	0	WF_OPERATION_FAILED	Operation Failed.

WFGetProcessVariantInfo

This API is used to fetch information on a process variant.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetProcessVariantInfo_Input>
    <Option>WFGetProcessVariantInfo</Option>
    <EngineName>ibpms21april</EngineName>
    <SessionId>1646373652</SessionId>
    <VariantId>5</VariantId>
</WFGetProcessVariantInfo_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessVariantInfo
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id.	NA
VariantId	Root	Yes	Variant id for which Info is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessVariantInfo_Output>
    <Option>WFGetProcessVariantInfo</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <VariantCode>Variant1</VariantCode>
    <VariantName>Var1</VariantName>
    <RegPrefix>Vari</RegPrefix>
    <StartSeqNumber>1</StartSeqNumber>
    <RegSuffix>process</RegSuffix>
    <VariantState>Disabled</VariantState>
    <Layout>
        <FormLayout activityId="0" columns="2" width1="100" width2="50"
width3="0"/>
    </Layout>
    <Fields>
        <Field controlType="3" defaultValue="1" length="2" methodName="" name="id"
pickListInfo="" precision="0" type="3"/>
        <Field controlType="3" defaultValue="abc" length="49" methodName=""
name="address" pickListInfo="" precision="0" type="10"/>
    </Fields>
    <DocumentTypes>
        <DocumentType id="1" name="ldoc1"/>
```

```
    </DocumentTypes>
    <Associations>
        <FieldAssociation>
            <Activity id="1">
                <Age editable="Y" enable="Y" mandatory="N" varType="U"
visible="N"/>
                <Name editable="Y" enable="Y" mandatory="N" varType="U"
visible="N"/>
                <id editable="Y" enable="Y" mandatory="N" varType="I" visible="N"/
>
                <address editable="Y" enable="Y" mandatory="N" varType="I"
visible="N"/>
            </Activity>
            <Activity id="2">
                <Age editable="Y" enable="Y" mandatory="N" varType="U"
visible="N"/>
                <Name editable="Y" enable="Y" mandatory="N" varType="U"
visible="N"/>
                <id editable="Y" enable="Y" mandatory="N" varType="I" visible="N"/
>
                <address editable="Y" enable="Y" mandatory="N" varType="I"
visible="N"/>
            </Activity>
        </FieldAssociation>
        <DocumentAssociation>
            <Activity id="1">
                <ldoc1 authorization="T"/>
            </Activity>
            <Activity id="2">
                <ldoc1 authorization="T"/>
            </Activity>
        </DocumentAssociation>
    </Associations>
</WFGetProcessVariantInfo_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
VariantCode	Root	It refers to unique identifier for variant.
VariantName	Root	It refers name of variant.
RegPrefix	Root	It refers prefix for variant (same as defined for generic process).
StartSeqNumber	Root	It refers to starting sequence number of Workitem when created from Variant.

RegSuffix	Root	It refers to suffix for variant (same as defined for generic process).
VariantState	Root	It refers to new state for variant.
Layout	Root	It refers to variant specific form layout.
FormLayout	Layout	It refers to variant specific form layout.
Fields	Root	It refers to description of fields of variant.
Field	Fields	It refers to individual field of variant.
DocumentTypes	Root	It refers to document types of variant.
DocumentType	DocumentTypes	It refers to individual document type of variant.
Association	Root	It defines field and document associations with activities.
FieldAssociation	Association	It defines field associations with activities.
Activity	FieldAssociation	It defines activities associated with fields.
DocumentAssociation	Root	It defines Document associations with activities.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	0	WF_OPERATION_FAILED	Operation Failed.
702	0	WF_NO_VARIANTS_EXISTS	No Variant exist.

WFModifyProcessVariant

This API is used to modify a process variant.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFModifyProcessVariant_Input>
    <Option>WFModifyProcessVariant</Option>
    <EngineName>ibpms21april</EngineName>
    <SessionId>1646373652</SessionId>
    <VariantId>5</VariantId>
    <VariantName>Var1</VariantName>
    <VariantCode>Variant1</VariantCode>
    <Description></Description>
    <Layout>
        <FormLayout columns="3" width1="100" width2="50" width3="150"
activityId="0" operation="U" />
    </Layout>
    <Fields>
        <Field name="id" type="3" length="2" precision="0" controlType="3"
methodName="" defaultValue="1" operation="U" pickListInfo="" />
        <Field name="address" type="10" length="49" precision="0" controlType="3"
methodName="" defaultValue="abc" operation="U" pickListInfo="" />
        <Field name="depart" type="10" length="50" precision="" controlType="1"
methodName="None" defaultValue="" operation="I" pickListInfo="" />
    </Fields>
    <DocumentTypes>
        <DocumentType name="ldoc1" operation="U" />
    </DocumentTypes>
    <Association>
        <FieldAssociation>
            <Activity id="2">
                <Age enable="Y" editable="Y" visible="N" mandatory="N" varType="U"
operation="U" />
                <Name enable="Y" editable="Y" visible="N" mandatory="N"
varType="U" operation="U" />
                <id enable="Y" editable="Y" visible="N" mandatory="N" varType="I"
operation="U" />
                <address enable="Y" editable="Y" visible="N" mandatory="N"
varType="I" operation="U" />
                <depart enable="Y" editable="Y" visible="N" mandatory="N"
varType="I" operation="I" />
            </Activity>
            <Activity id="1">
                <Age enable="Y" editable="Y" visible="N" mandatory="N" varType="U"
operation="U" />
                <Name enable="Y" editable="Y" visible="N" mandatory="N"
varType="U" operation="U" />
                <id enable="Y" editable="Y" visible="N" mandatory="N" varType="I"
operation="U" />
                <address enable="Y" editable="Y" visible="N" mandatory="N"
varType="I" operation="U" />
                <depart enable="Y" editable="Y" visible="N" mandatory="N"
varType="I" operation="I" />
            </Activity>
        </FieldAssociation>
        <DocumentAssociation>
            <Activity id="2">
                <ldoc1 authorization="T" operation="U" />
```

```
            </Activity>
            <Activity id="1">
                <ldoc1 authorization="T" operation="U" />
            </Activity>
        </DocumentAssociation>
    </Association>
    <Listener/>
</WFModifyProcessVariant_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFModifyProcessVariant
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged in user's session id.	NA
VariantId	Root	Yes	Variant id for which Info is to be fetched.	NA
ForceDeleteVariable	Root	No	Deletes variant's variable if the workitem exists for that variant.	Y or N
AuthorizationFlag	Root	No	Flag for Maker Checker support.	Y or N
VariantName	Root	No	It refers to name of variant.	NA
VariantCode *	Root	Yes	It refers to unique identifier for variant.	NA

Description	Root	No	It refers to detailed description for Variant.	NA
Layout	Root	No	It refers to variant-specific form layout.	NA
FormLayout	Layout	No	It refers to variant-specific form layout.	NA
Fields	Root	No	It refers to the description of fields of variant.	NA
Field	Fields	No	It refers to the individual field of variant.	NA
DocumentTypes	Root	No	It refers to document types of variant.	NA
DocumentType	DocumentTypes	No	It refers to individual document types of variant.	NA
Association	Root	No	It defines the field and documents associations with activities.	NA
FieldAssociation	Association	No	It defines field associations with activities.	NA
Activity	FieldAssociation	No	It defines activities associated with fields.	NA

DocumentAssociation	Association	No	It defines Document associations with activities.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFModifyProcessVariant_Output>
    <Option>WFModifyProcessVariant</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
</WFModifyProcessVariant_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
400	847	WM_INVALID_PROC_VARIANT_DEFINITION	Operation Failed (Invalid Process Variant)
400	909	WF_INVALID_ACTIVITY_ID	Operation Failed (Invalid Activity ID found)
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	0	WF_OPERATION_FAILED	Operation failed.

WFGetProcessVariantList

This API is used to fetch the variant's list for a process.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetProcessVariantList_Input>
    <Option>WFGetProcessVariantList</Option>
    <EngineName>ibpms21april</EngineName>
    <SessionID>1646373652</SessionID>
    <ProcessDefId>47</ProcessDefId>
</WFGetProcessVariantList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessVariantList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA

ProcessDefId	Root	Yes	It refers to the Multivariant Process definition identifier for which variant is to be created.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessVariantList_Output>
    <Option>WFGetProcessVariantList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessVariantList>
        <VariantInfo>
            <VariantId>5</VariantId>
            <VariantCode>Variant1</VariantCode>
            <VariantName>Var1</VariantName>
            <VariantState>Disabled</VariantState>
        </VariantInfo>
    </ProcessVariantList>
    <RetrievedCount>1</RetrievedCount>
    <TotalCount>1</TotalCount>
</WFGetProcessVariantList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.

MainCode	Exception	Error code specified by WAPI.
ProcessVariantList	Root	List of variants.
VariantInfo	ProcessVariantList	It refers to the information of each variant.
VariantId	VariantInfo	It refers to process variant id.
VariantCode	VariantInfo	It refers to variant code.
VariantName	VariantInfo	It refers to the name of variant.
VariantState	VariantInfo	It refers to the state of variant.
RetrievedCount	Root	It refers to the number of variants returned in output xml.
TotalCount	Root	It refers to the total number of variants for process present in input xml.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
701	0	WF_PROCESS_TYPE_GENERIC	Process Type is generic.
502	0	WM_INVALID_PROCESS_DEFINITION	The process definition ID was not valid.
702	0	WF_NO_VARIANTS_EXISTS	No Variant exist.
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	0	WF_OPERATION_FAILED	Operation failed.

WFChangeProcessVariantState

This API is used to change the variant's state.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFChangeProcessVariantState_Input>
<Option>WFChangeProcessVariantState</Option>
<EngineName>ibpms21april</EngineName>
<SessionID>1646373652</SessionID>
<VariantId>5</VariantId>
<VariantState>Enabled</VariantState>
</WFChangeProcessVariantState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFChangeProcessVariantState
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
VariantId	Root	Yes	It refers to process variant id for which variant's state needs to be changed.	NA
VariantState	Root	Yes	It refers to state of variant.	Disabled or Enabled.
AuthorizationFlag	Root	No	It refers to Flag for Maker Checker support.	Y or N
PendingActionsFlag	Root	No	It refers to Flag for Maker Checker support.	Y or N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFChangeProcessVariantState_Output>
<Option>WFChangeProcessVariantState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFChangeProcessVariantState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
400	847	WM_INVALID_PROC_VARIANT_DEFINITION	Operation Failed (Invalid Process Variant).

9	0	WM_INVALID_STATE	Invalid State.
855	855	WF_BASEPRO_DISABLED	Base variant process must be enabled before enabling any variant.
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	0	WF_OPERATION_FAILED	Operation Failed.

WFDeleteProcessVariant

This API is used to delete a process variant.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFDeleteProcessVariant_Input>
    <Option>WFDeleteProcessVariant</Option>
    <EngineName>ibpms21april</EngineName>
    <SessionId>1646373652</SessionId>
    <VariantId>5</VariantId>
</WFDeleteProcessVariant_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFDeleteProcessVariant
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA

VariantId	Root	Yes	It refers to process variant id for which variant's state needs to be changed.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFDeleteProcessVariant_Output>
    <Option>WFDeleteProcessVariant</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
</WFDeleteProcessVariant_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
702	0	WF_NO_VARIANTS_EXISTS	No Variant exist.

Activity control functions

Activity Control Functions can be defined as those, which change the operational state of one or more activity instances. These API calls are intended for use by the WFM end user. However, some of the API calls, or parameters within some of the API calls, may affect multiple users and would normally be restricted to the use of a process administrator.

This section includes the description of the following calls:

API	Description
WMGetActivityList	This API fetches a list of all the Activities defined in a specified Process.
WMGetStreamList	This API is used to fetch a detailed list of all the streams defined on a specified activity of a specified process.
WMFetchActivityInstanceState	This API returns the permissible Sates for the specified Activity Instance of the specified Process Instance, depending on the filter criteria specified in the input.

WMFetchActivityInstanceStates	This API returns the permissible Sates for the specified Activity Instance of the specified Process Instance, depending on the filter criteria specified in the input. This API is exactly the same as the WMFetchActivityInstanceState API.
WMChangeActivityInstancesState	This API is used to change the states of all Activity Instances lying on a specified Activity of a specified Process that matches the specified criteria.
WMFetchActivityInstanceAttribute	This API is used to fetch the attributes corresponding to the specified Activity Instance that match the specified Filter criteria.
WMFetchActivityInstanceAttributes	This API is used to fetch the attributes corresponding to the specified Activity Instance that match the specified Filter criteria. This API is the same as the WMFetchActivityInstanceAttribute API.
WMGetActivityInstanceAttributeValue	This API is used to fetch details of a specified Attribute for the specified Activity Instance.
WMAssignActivityInstancesAttribute	This API is used to set the value of a specific Attribute for the Activity Instances on a specified Activity within a specified Process.
WMAssignActivityInstanceAttribute	This API is used to set the value of a specific Attribute for the specific Activity Instance for the specified Process Instance.
WMFetchActivityInstance	This API returns a List of Activity Instances for a specified Process Instance.
WMFetchActivityInstances	This API returns a List of Activity Instances for a specified Process Instance. This API is the same as WMFetchActivityInstance API.
WMGetActivityInstance	This API is used to fetch details of the specified Activity Instance.

WMGetActivityList

This API fetches a list of all the Activities defined in a specified Process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchActivityInstance
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID whose Activity Instances are to be fetched.	NA
ProcessName	Root	No	Name of the Process based on which the Activity List is to be filtered. This Tag should be specified only if there is no value or 0 value specified for the ProcessDefintionID Tag.	NA
QueueId	Filter	No	ID of the Queue, which contains the stream(s) defined on the Activities to be fetched. This tag is used to filter the Activity list to only those Activities that have their streams included in the specified Queue ID.	NA

UserId	Filter	No	ID of the User. This is specified to filter a list of all activities that contain workitems that are assigned to the User specified.	NA
DataFlag	BatchInfo	No	Flag indicating whether the Data regarding the NoofWorkitems and NoOfDelayedWorkitems on the activities are to be fetched or not.	Y — Yes N — No
SortOrder	BatchInfo	No	Order in which the returned Activities list is to be sorted.	A — Ascending D — Descending
OrderBy	BatchInfo	No	Order By field on which the Activities list is to be sorted.	1 — ActivityID 2 — Activity Name 3 — Number of Workitems 4 — Number Of Delayed Workitems 5 — Process ID
LastValue	BatchInfo	No	Name of the Last Activity retrieved in the previous batch.	NA
LastIndex	BatchInfo	No	ID of the last Activity retrieved in the previous batch.	NA
LastProcessDefinitionId	BatchInfo		ID of the Process for the last Activity retrieved in the previous batch.	NA
NoOfRecordsToFetch	BatchInfo		No. of Activities to be fetched per batch.	NA

ActivityType	Filter	No	Type of the Activity to filter the list based on Activity Type.	Type of Activity. 1 — Work Introduction 2 — Work Exit 3 — Discard 4 — Hold 5 — Distribute 6 — Collect 7 — Decision 18 — SubProcess 10 — Custom 19 — Integration 11 — Query
EnableMultiLingual	Root	No	It refers to the flag that represents language.	Y — Locale-specific N — Standard english
ActivityPrefix	Root	No	Name of the workstep in the process.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

TotalCount	Root	Total No. of Activities that match the specified filter criteria.
RetrievedCount	Root	No. of Activities retrieved in the current batch.
ID	ActivityInfo	It is the ID of the activity.
Name	ActivityInfo	It is the Name of the activity.
ProcessName	ActivityInfo	Name of the Process to which the Activity belongs.
ProcessDefintionID	ActivityInfo	ID of the Process to which the Activity belongs.
VersionNo	ActivityInfo	Version No. of the Process to which the Activity belongs.
NoofWorkitems	ActivityInfo	No. of workitems currently lying on the Activity.
NoOfDelayedWorkitems	ActivityInfo	No. of workitems in Delay on the Activity.
ActivityTurnAroundTime	ActivityInfo	Turn-Around-Time set for the Activity.
ActivityType	ActivityInfo	Type of the Activity. 1 — Work Introduction 2 — Work Exit 3 — Discard 4 — Hold 5 — Distribute 6 — Collect 7 — Decision 18 — SubProcess 10 — Custom 19 — Integration 11 — Query
ActivityTATCalFlag	ActivityInfo	Flag to calculate turn around time of the activity/workstep.
EntityName	ActivityInfo	Name corresponding to Entity number specified for particular locale.
CacheTime	Root	Time to cache the data.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message

11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	No more records.

Input XML:

```
<?xml version="1.0"?>
<WMGetActivityList_Input>
    <Option>WMGetActivityList</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>2097286869</SessionId>
    <ProcessDefinitionID>1</ProcessDefinitionID>
    <ProcessName>AccOpening</ProcessName>
    <Filter>
        <QueueId>0</QueueId>
    </Filter>
    <BatchInfo>
        <SortOrder>A</SortOrder>
        <OrderBy>2</OrderBy>
        <NoOfRecordsToFetch>10</NoOfRecordsToFetch>
    </BatchInfo>
</WMGetActivityList_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetActivityList_Output>
    <Option>WMGetActivityList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <CacheTime>2007-02-21 19:15:59</CacheTime>
    <ActivityList>
        <ActivityInfo>
            <ID>2</ID>
            <Name>Data Entry</Name>
            <ActivityTurnAroundTime>10</ActivityTurnAroundTime>
            <ActivityType>10</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
        <ActivityInfo>
            <ID>6</ID>
            <Name>Decision2</Name>
            <ActivityType>7</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
```

```
        <ActivityInfo>
            <ID>8</ID>
            <Name>Discard1</Name>
            <ActivityType>3</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
        <ActivityInfo>
            <ID>4</ID>
            <Name>ExceptionResolution</Name>
            <ActivityTurnAroundTime>5</ActivityTurnAroundTime>
            <ActivityType>10</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
        <ActivityInfo>
            <ID>3</ID>
            <Name>ExceptionStatus</Name>
            <ActivityType>7</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
        <ActivityInfo>
            <ID>5</ID>
            <Name>Manager</Name>
            <ActivityType>10</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
        <ActivityInfo>
            <ID>1</ID>
            <Name>Scanning</Name>
            <ActivityType>1</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
        <ActivityInfo>
            <ID>7</ID>
            <Name>Work Exit1</Name>
            <ActivityType>2</ActivityType>
            <ProcessDefinitionID>1</ProcessDefinitionID>
            <ProcessName>AccOpening</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
    </ActivityList>
    <TotalCount>8</TotalCount>
    <RetrievedCount>8</RetrievedCount>
</WMGetActivityList_Output>
```

WMGetStreamList

This API is used to fetch a detailed list of all the streams defined on a specified activity of a specified process. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMGetStreamList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	ID of the Process that contains the activity for which the streams list is to be fetched.	NA
ActivityID	Root	No	ID of the activity for which the streams list is to be fetched.	NA
ActivityType	Root	No	Type of activity for which the streams list is to be fetched.	1 — Work Introduction 2 — Work Exit 3 — Discard 4 — Hold 5 — Distribute 6 — Collect 7 — Decision 18 — SubProcess 10 — Custom 19 — Integration 11 — Query
SortOrder	BatchInfo	No	Order on which the returned streams list is to be sorted.	A — Ascending D — Descending

OrderBy	BatchInfo	No	Order By field based on which the returned stream list is to be ordered/sorted.	1 — StreamID 2 — StreamName 3 — StreamCondition
LastValue	BatchInfo	No	Value of the Order by field of the last stream returned in the previous batch.	NA
LastIndex	BatchInfo	No	ID of the last stream returned in the previous batch.	NA
NoOfRecordsToFetch	BatchInfo	No	No. of streams to fetch per batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ActivityId	ActivityStreamList	ID of the Activity in which the stream is contained.
ActivityName	ActivityStreamList	Name of the Activity in which the stream is contained.
Id	StreamInfo	ID of the Stream.
Name	StreamInfo	Name of the Stream.

Definition	StreamInfo	Definition of the Stream.
QueueId	QueueInfo	ID of the Queue with which the Stream is associated.
QueueName	QueueInfo	Name of the Queue with which the Stream is associated.
TotalCount	Root	Total no. of streams on the activity.
RetrievedCount	Root	No. of streams retrieved in the current batch.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	The requested filter is invalid
400	WF_OPERATION_FAILED	Operation failed

Input XML:

```
<?xml version="1.0"?>
<WMGetStreamList_Input>
    <Option>WMGetStreamList</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>-998134874</SessionId>
    <ProcessDefinitionID>1</ProcessDefinitionID>
    <ActivityId>1</ActivityId>
    <ActivityType>1</ActivityType>
    <BatchInfo>
        <SortOrder></SortOrder>
        <OrderBy></OrderBy>
        <LastValue></LastValue>
        <LastIndex></LastIndex>
        <NoOfRecordsToFetch></NoOfRecordsToFetch>
    </BatchInfo>
</WMGetStreamList_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetStreamList_Output>
    <Option>WMGetStreamList</Option>
```

```
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <OutputList>
        <ActivityStreamList>
            <ActivityId>1</ActivityId>
            <ActivityName>Scanning</ActivityName>
            <StreamList>
                <StreamInfo>
                    <ID>1</ID>
                    <Name>Default</Name>
                    <Definition>Always</Definition>
                </StreamInfo>
                <QueueList>
                    <QueueInfo>
                        <QueueId>1</QueueId>
                        <QueueName>AccOpening_Scanning</QueueName>
                    </QueueInfo>
                </QueueList>
            </StreamList>
        </ActivityStreamList>
    </OutputList>
    <TotalCount>1</TotalCount>
    <RetrievedCount>1</RetrievedCount>
</WMGetStreamList_Output>
```

WMFetchActivityInstanceState

This API returns the permissible Sates for the specified Activity Instance of the specified Process Instance, depending on the filter criteria specified in the input. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WMFetchActivityInstanceState_Input>
<Option>WMFetchActivityInstanceState</Option>
<EngineName>ofcab</EngineName>
<SessionID>253216293</SessionID>
<CountFlag></CountFlag>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<ActivityInstanceId>1</ActivityInstanceId>
<Filter>
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
```

```
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastValue></LastValue>
</BatchInfo>
</WMFetchActivityInstanceState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchActivityInstanceState
EngineName	Root	Yes	This is the Name of the cabinet.	Valid Cabinet Name
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA
ActivityInstanceId	Root	Yes	Activity Instance ID, whose states are to be fetched. It is generally 1.	1
CountFlag	Root	No	Flag indicating whether the count of total no. of States is to be returned in the output.	Y — Yes N — No

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then the filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, the Type is specified as 256 in case you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, in case you need to specify a filter as Attribute = Value.
Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 — > 2 — >= 3 — = 4 — <> 5 — < 6 — <= 7 — Like 8 — Not like.

AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the States list is to be filtered.	NA
FilterString	Filter	No	This Tag may contain the following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the States list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the States meeting the criteria.	NA

LastValue	BatchInfo	No	Specifies the name of the last states retrieved in the previous batch.	NA
NoOfRecordsToFetch	BatchInfo	No	No. of States to be fetched per batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchActivityInstanceState_Output>
<Option>WMFetchActivityInstanceState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ActivityInstanceStates>
<ActivityInstanceState>Aborted</ActivityInstanceState>
<ActivityInstanceState>Completed</ActivityInstanceState>
<ActivityInstanceState>NotStarted</ActivityInstanceState>
<ActivityInstanceState>Running</ActivityInstanceState>
<ActivityInstanceState>Suspended</ActivityInstanceState>
<ActivityInstanceState>Terminated</ActivityInstanceState>
</ActivityInstanceStates>
<RetrievedCount>6</RetrievedCount>
</WMFetchActivityInstanceState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name
MainCode	Exception	Error code specified by WAPI.
ActivityInstanceState	ActivityInstanceStates	Name of the State for the specified Activity Instance.
RetrievedCount	Root	No. of states retrieved in the current batch.
Count	ActivityInstanceStates	Total no. of states for the specified Activity Instance that matched the specified criteria.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No More Data
5	WM_INVALID_ACTIVITY_INSTANCE	Invalid Activity Instance
12	WM_INVALID_QUERY_HANDLE	Invalid query handle
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation failed

WMFetchActivityInstanceStates

This API returns the permissible Sates for the specified Activity Instance of the specified Process Instance, depending on the filter criteria specified in the input. This API is exactly the same as the WMFetchActivityInstanceState API. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchActivityInstanceState_Input>
<Option>WMFetchActivityInstanceState</Option>
<EngineName>ofcab</EngineName>
<SessionID>253216293</SessionID>
<CountFlag></CountFlag>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<ActivityInstanceId>1</ActivityInstanceId>
<Filter>
```

```
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastValue></LastValue>
</BatchInfo>
</WMFetchActivityInstanceState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchFetchActivityInstanceStates
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
CountFlag	Filter	No	Flag indicating whether the total count of processes matching the specified criteria (if any) is also to be returned.	Y — Yes N — No
ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA
ActivityInstanceId	Root	Yes	Activity Instance ID, whose states are to be fetched. It is generally 1	1
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then the filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, the Type is specified as 256 in case you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, in case you need to specify a filter as Attribute = Value.

Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 — > 2 — >= 3 — = 4 — <> 5 — < 6 — <= 7 — Like 8 — Not like.
AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain the following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchActivityInstanceState_Output>
<Option>WMFetchActivityInstanceState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ActivityInstanceStates>
<ActivityInstanceState>Aborted</ActivityInstanceState>
<ActivityInstanceState>Completed</ActivityInstanceState>
<ActivityInstanceState>NotStarted</ActivityInstanceState>
<ActivityInstanceState>Running</ActivityInstanceState>
<ActivityInstanceState>Suspended</ActivityInstanceState>
<ActivityInstanceState>Terminated</ActivityInstanceState>
</ActivityInstanceStates>
<RetrievedCount>6</RetrievedCount>
</WMFetchActivityInstanceState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	It is the total no. of processes that match the specified criteria.
RetrievedCount	Root	No. of Processes retrieved in the current batch.
ActivityInstanceState	ActivityInstanceStates	Name of the State for the specified Activity Instance.

If OAuth is enabled

Parameter	Parent tag	Description

AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.
4	0	WM_INVALID_PROCESS_INSTANCE	Invalid Process Instance
400	804	WF_OPERATION_FAILED	Operation Failed.

WMChangeActivityInstancesState

This API is used to change the states of all Activity Instances lying on a specified Activity of a specified Process that match the specified criteria. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMChangeActivityInstancesState_Input>
<Option>WMChangeActivityInstancesState</Option>
<EngineName>ofcab</EngineName>
<SessionId>253216293</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<ActivityId>1</ActivityId>
<ActivityInstanceState>Running</ActivityInstanceState>
</WMChangeActivityInstancesState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMChangeActivityInstancesState
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id	NA
ActivityId	Root	No	ID of the Activity whose Instances States are to be changed.	NA
ActivityInstanceState	Activity	No	The State to which the Activity Instances current state is to be changed.	Not Started Running Suspended Aborted Terminated Completed
ProcessDefinitionId	Root	No	ID of the Process in which the specified Activity is contained.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMChangeActivityInstancesState_Output>
<Option>WMChangeActivityInstancesState</Option>
<Exception>
<MainCode>0</MainCode>
```

```
</Exception>
</WMChangeActivityInstancesState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Constant value	Message
4	WM_INVALID_PROCESS_INSTANCE	Invalid Process Instance
5	WM_INVALID_ACTIVITY_INSTANCE	Invalid Activity Instance
11	WM_INVALID_SESSION_HANDLE	Invalid session
3	WM_INVALID_ACTIVITY_DEFINITION	The activity was not valid.
15	WM_INVALID_FILTER	The requested filter is invalid.
9	WM_INVALID_STATE	Invalid state.
400	WF_OPERATION_FAILED	Operation Failed
10	WM_TRANSITION_NOT_ALLOWED	The requested state transition is not allowed.

WMFetchActivityInstanceAttribute

This API is used to fetch the attributes corresponding to the specified Activity Instance that match the specified Filter criteria. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml Version="1.0"?>
<WMFetchActivityInstanceAttribute_Input>
<Option>WMFetchActivityInstanceAttribute</Option>
<EngineName>ofcab</EngineName>
<SessionID>253216293</SessionID>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<ActivityInstanceId>1</ActivityInstanceId>
<CountFlag></CountFlag>
<Filter>
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastValue></LastValue>
</BatchInfo>
</WMFetchActivityInstanceAttribute_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchActivityInstanceAttribute
EngineName	Root	Yes	This is the Name of the cabinet.	Valid Cabinet Name
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA

ActivityInstanceId	Root	Yes	ID of the Activity Instance whose attributes are to be fetched. This is generally 1.	1
CountFlag	Root	No	Flag indicating whether the count of the total no. of attributes that match the specified criteria (if any) is to be fetched	Y – Yes N – No

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then the filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, the Type is specified as 256 in case you wish to specify the SQL WHERE Clause in the Filter String.	256 — SQL WHERE Clause String. Any value between 0 to 255, in case you need to specify a filter as Attribute = Value.
Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 — > 2 — >= 3 — = 4 — <> 5 — < 6 — <= 7 — Like 8 — Not like.

AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain the following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the States list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the States meeting the criteria.	NA
LastValue	BatchInfo	No	Name of the last attribute fetched in the previous batch.	NA
NoOfRecordsToFetch	BatchInfo	No	No. of attributes to be fetched per batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml Version="1.0"?>
<WMFetchActivityInstanceAttribute_Output>
<Option>WMFetchActivityInstanceAttribute</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attributes>
<Attribute>
<Name></Name>
<Type></Type>
<Length></Length>
<Value></Value>
</Attribute>
</Attributes>
<RetrievedCount></RetrievedCount>
<Count></Count>
</WMFetchActivityInstanceAttribute_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
RetrievedCount	Root	It is the number of records retrieved in the current batch.
Count	Root	Total no of attributes that match the specified criteria.
Name	Attribute	Name of the data attribute.

Type	Attribute	Type of the data attribute. This is a numeric value, where each digit corresponds to some information about the attribute. 1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 — Queue 2 — External 3 — System. 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 — Read 2 — Modify 3 — Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 — Integer 4 — Long 6 — Float 8 — Date 10 — Text
Length	Attribute	It is the length of the attribute.
Value	Attribute	It is the current value of the attribute.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
4	WM_INVALID_PROCESS_INSTANCE	Invalid Process Instance
18	WM_NO_MORE_DATA	No More Data
5	WM_INVALID_ACTIVITY_INSTANCE	Invalid Activity Instance
12	WM_INVALID_QUERY_HANDLE	Invalid query handle
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation failed

WMFetchActivityInstanceAttributes

This API is used to fetch the attributes corresponding to the specified Activity Instance that match the specified Filter criteria. This API is the same as the WMFetchActivityInstanceAttribute API. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml Version="1.0"?>
<WMFetchActivityInstanceAttribute_Input>
<Option>WMFetchActivityInstanceAttribute</Option>
<EngineName>ofcab</EngineName>
<SessionID>253216293</SessionID>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<ActivityInstanceId>1</ActivityInstanceId>
<CountFlag></CountFlag>
<Filter>
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastValue></LastValue>
</BatchInfo>
</WMFetchActivityInstanceAttribute_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchFetchActivityInstanceAttributes
EngineName*	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
CountFlag	Filter	No	Flag indicating whether the total count of processes matching the specified criteria (if any) is also to be returned.	Y — Yes N — No
ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA
ActivityInstanceId	Root	Yes	Activity Instance ID, whose states are to be fetched. It is generally 1	1
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then the filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, the Type is specified as 256 in case you wish to specify the SQL WHERE Clause in the Filter String.	256 — SQL WHERE Clause String. Any value between 0 to 255, in case you need to specify a filter as Attribute = Value.

Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 — > 2 — >= 3 — = 4 — <> 5 — < 6 — <= 7 — Like 8 — Not like.
AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain the following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA
LastValue	BatchInfo	No	Name of the last attribute fetched in the previous batch.	NA

DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y -- Write N -- Not Write

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml Version="1.0"?>
<WMFetchActivityInstanceAttribute_Output>
<Option>WMFetchActivityInstanceAttribute</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attributes>
<Attribute>
<Name></Name>
<Type></Type>
<Length></Length>
<Value></Value>
</Attribute>
</Attributes>
<RetrievedCount></RetrievedCount>
<Count></Count>
</WMFetchActivityInstanceAttribute_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.

MainCode	Exception	Error code specified by WAPI.
Count	Root	It is the total no. of processes that match the specified criteria.
RetrievedCount	Root	No. of Processes retrieved in the current batch.
Name	Attribute	Name of the data attribute.
Type	Attribute	Type of the data attribute. This is a numeric value, where each digit corresponds to some information about the attribute. 1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 — Queue 2 — External 3 — System. 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 — Read 2 — Modify 3 – Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 — Integer 4 — Long 6 — Float 8 — Date 10 — Text
Length	Attribute	It is the length of the attribute.
Value	Attribute	It is the current value of the attribute.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.

4	0	WM_INVALID_PROCESS_INSTANCE	Invalid Process Instance
400	804	WF_OPERATION_FAILED	Operation Failed.

WMGetActivityInstanceAttributeValue

This API is used to fetch details of a specified Attribute for the specified Activity Instance. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMGetActivityInstanceAttributeValue
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId *	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA
ActivityInstanceId	Root	Yes	ID of the Activity Instance whose Attribute Data is to be fetched.	NA
Name	Root	No	User-Defined Name of the Attribute whose details and data is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Type	Attribute	Type of the data attributes. This is a numeric value, where each digit corresponds to some information about the attribute. 1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 — Queue 2 — External 3 — System 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 — Read 2 — Modify 3 — Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 — Integer 4 — Long 6 — Float 8 — Date 10 — Text

Length	Attribute	Length of the attribute.
Value	Attribute	Current Value of the attribute.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
5	WM_INVALID_ACTIVITY_INSTANCE	Invalid Activity Instance
7	WM_INVALID_ATTRIBUTE	Invalid Attribute
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid Session

Input XML:

```
<?xml version=1.0?>< WMGetActivityInstanceAttributeValue_Input>
<Option>WMGetActivityInstanceAttributeValue</Option>
<SessionId>253216293</SessionId>
<EngineName>ofcab</EngineName>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<ActivityInstanceId>1</ActivityInstanceId>
<Name>ApplicantNAme</Name>undefined</WMGetActivityInstanceAttributeValue_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetActivityInstanceAttributeValue_Output>
<Option>WMGetActivityInstanceAttributeValue</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attribute>
<Type>10</Type>
<Length>100</Length>
<Value>a</Value>
</Attribute>
</WMGetActivityInstanceAttributeValue_Output>
```

WMAssignActivityInstancesAttribute

This API is used to set the value of a specific Attribute for the Activity Instances on a specified Activity within a specified Process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<? Xml Version="1.0"? >
<WMAssignActivityInstancesAttribute _Input>
<Option>WMAssignActivityInstancesAttribute</Option>
<EngineName>ofcab</EngineName>
<SessionId>566816288</SessionId>
<ProcessDefinitionId>2</ProcessDefinitionId>
<ActivityId>1</ActivityId>
<Name>LoanAmount</Name>
<Type>10</Type>
<Value>D</Value>
<Length>0</Length>
<Filter>
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
</WMAssignActivityInstancesAttribute_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMAssignActivityInstancesAttribute
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionId	Root	Yes	ID of the Process to which the Activity belongs.	NA

ActivityId	Root	Yes	ID of the Activity on which the attribute for all Activity Instances is to be set.	NA
Name	Root	Yes	Name of the Attribute whose value is to be set.	NA
Type	Root	Yes	Type of the attribute whose value is to be set.	3 — INTEGER 4 — LONG 6 — FLOAT 8 — DATE 10 — TEXT
Value	Root	Yes	The Value to be set for the attribute.	NA
Length	Root	Yes	Length of the values string specified.	NA
Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then the filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, the Type is specified as 256 in case you wish to specify the SQL WHERE Clause in the Filter String.	256 — SQL WHERE Clause String. Any value between 0 to 255, in case you need to specify a filter as Attribute = Value.

Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 — > 2 — >= 3 — = 4 — <> 5 — < 6 — <= 7 — Like 8 — Not like
AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the Activity Instances list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain the following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the Activity Instances list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the Activity Instances meeting the criteria.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMAssignActivityInstancesAttribute_Output>
<Option>WMAssignActivityInstancesAttribute</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMAssignActivityInstancesAttribute_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
4	WM_INVALID_PROCESS_INSTANCE	Invalid Process Instance
5	WM_INVALID_ACTIVITY_INSTANCE	Invalid Activity Instance
8	WM_ATTRIBUTE_ASSIGNMENT_FAILED	Attribute Assignment Failed
7	WM_INVALID_ATTRIBUTE	The attribute was not valid.
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation Failed
3	WM_INVALID_ACTIVITY_DEFINITION	The activity was not valid.

WMAssignActivityInstanceAttribute

This API is used to set the value of a specific Attribute for the specific Activity Instance for the specified Process Instance. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMAssignActivityInstanceAttribute_Input>
<Option>WMAssignActivityInstanceAttribute</Option>
<SessionId>253216293</SessionId>
<EngineName>ofcab</EngineName>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
```

```
<ActivityInstanceId>1</ActivityInstanceId>
<Name>ApplicantName</Name>
<Type>10</Type>
<Value>abc</Value>
</WMAssignActivityInstanceAttribute_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMAssignActivityInstanceAttribute
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionI	Root	Yes	Process Instance ID of the workitem whose Attribute is to be set.	NA
ActivityInstanceId	Root	Yes	ID of the Activity on which the attribute for all Activity Instances is to be set.	NA
Name	Root	Yes	Name of the Attribute whose value is to be set.	NA
Type	Root	Yes	Type of the attribute whose value is to be set.	3 — INTEGER 4 — LONG 6 — FLOAT 8 — DATE 10 — TEXT
Value	Root	Yes	The Value to be set for the attribute.	NA
Length	Root	Yes	Length of the values string specified.	NA
DebugFlag	Root	No	This flag indicates whether the logging is to be done or not.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMAssignActivityInstanceAttribute_Output>
<Option>WMAssignActivityInstanceAttribute</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMAssignActivityInstanceAttribute_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
4	WM_INVALID_PROCESS_INSTANCE	Invalid Process Instance

5	WM_INVALID_ACTIVITY_INSTANCE	Invalid Activity Instance
8	WM_ATTRIBUTE_ASSIGNMENT_FAILED	Attribute Assignment Failed
7	WM_INVALID_ATTRIBUTE	The attribute was not valid.
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation Failed

WMFetchActivityInstance

This API returns a List of Activity Instances for a specified Process Instance. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchActivityInstance_Input>
<Option>WMFetchActivityInstance</Option>
<EngineName>ofcab</EngineName>
<SessionId>253216293</SessionId>
<CountFlag>Y</CountFlag>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
</BatchInfo>
</WMFetchActivityInstance_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchActivityInstance
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID whose Activity Instances are to be fetched.	NA

NoOfRecordsToFetch	BatchInfo	No	No. of Activity Instance to be fetched per batch.	NA
CountFlag	Root	No	Flag indicating whether the total count of Activity Instances matching the specified criteria is to be returned.	Y — Yes N — No
DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y — Write N — Not write

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<? xml version=""1.0""?>
<WMFetchActivityInstance_Output>
<Option>WMFetchActivityInstance</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ActivityInstances>
<ActivityInstance>
<ActivityName></ActivityName>
<ActivityInstanceId></ActivityInstanceId>
<ProcessInstanceId></ProcessInstanceId>
<ActivityInstanceState></ActivityInstanceState>
<PriorityLevel></PriorityLevel>
<Participants></Participants>
</ActivityInstance>
```

```
</ActivityInstances>
</WMFetchActivityInstance_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	Total number of process instances. It will only appear if count flag is set as "Y".
ActivityInstanceId	ActivityInstance	It is the id of the activity instance that is fetched.
ActivityName	ActivityInstance	Name of the activity.
ProcessInstanceId	ActivityInstance	Process definition id in which process instance appears.
ActivityInstanceState	ActivityInstance	State of the activity instance.
PriorityLevel	ActivityInstance	It is the priority specified for the process instance.
Participant	Participants	Name of the User who has currently locked the Activity Instance.
RetrievedCount	Root	It is the number of records retrieved.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	No more records.

WMFetchActivityInstances

This API returns a List of Activity Instances for a specified Process Instance. This API is the same as WMFetchActivityInstance API. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchActivityInstance_Input>
<Option>WMFetchActivityInstance</Option>
<EngineName>ofcab</EngineName>
<SessionId>253216293</SessionId>
<CountFlag>Y</CountFlag>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
</BatchInfo>
</WMFetchActivityInstance_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchActivityInstances
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

CountFlag	Filter	No	Flag indicating whether the total count of processes matching the specified criteria (if any) is also to be returned.	Y — Yes N — No
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA
DebugFlag	Root	NO	This flag is used to print logs in console.log file.	Y — Write N — Not Write

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<? xml version=""1.0""?>
<WMFetchActivityInstance_Output>
<Option>WMFetchActivityInstance</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ActivityInstances>
<ActivityInstance>
<ActivityName></ActivityName>
<ActivityInstanceId></ActivityInstanceId>
<ProcessInstanceId></ProcessInstanceId>
<ActivityInstanceState></ActivityInstanceState>
<PriorityLevel></PriorityLevel>
<Participants></Participants>
</ActivityInstance>
```

```
</ActivityInstances>
</WMFetchActivityInstance_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	It is the total no. of processes that match the specified criteria.
RetrievedCount	Root	No. of Processes retrieved in the current batch.
ActivityInstanceId	ActivityInstance	It is the id of the activity instance that is fetched.
ActivityName	ActivityInstance	Name of Activity.
ProcessInstanceId	ActivityInstance	Process definition id in which process instance appears.
ActivityInstanceState	ActivityInstance	Process definition id in which process instance appears.
PriorityLevel	ActivityInstance	It is the priority specified for the process instance.
Participant	Participants	Name of the User who has currently locked the Activity Instance.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.
400	--	WF_OPERATION_FAILED	Operation Failed.

WMGetActivityInstance

This API is used to fetch details of the specified Activity Instance. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMGetActivityInstance
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceId	Root	Yes	Process Instance ID of the workitem whose Activity Instance details are to be fetched.	NA
ActivityInstanceId	Root	Yes	Activity Instance ID whose details are to be fetched. This value is usually 1.	1

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Activity Name	ActivityInstance	The name of the Activity on which the Instance lies.
ActivityInstanceId	ActivityInstance	Activity Instance ID.
ActivityInstanceState	ActivityInstance	The State of the Activity Instance: Completed Running Suspended Aborted Not Started Terminated
Priority	ActivityInstance	Priority Level of the specified Activity Instance.
ProcessInstanceId	ActivityInstance	Process Instance ID to which the Activity Instance belongs.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
5	WM_INVALID_ACTIVITY_INSTANCE	Invalid Activity Instance
7	WM_INVALID_ATTRIBUTE	Invalid Attribute
400	WF_OPERATION_FAILED	Operation Failed
4	WM_INVALID_PROCESS_INSTANCE	Invalid Process Instance.
11	WM_INVALID_SESSION_HANDLE	Invalid Session
15	WM_INVALID_FILTER	Invalid Filter

Input XML:

```
<? xml version="1.0"?>
<WMGetActivityInstance_Input>
<Option>WMGetActivityInstance</Option>
<EngineName>ofcab</EngineName>
<SessionId>253216293</SessionId>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<ActivityInstanceId>1</ActivityInstanceId>
</WMGetActivityInstance_Input>
```

Output XML:

```
<?xml version=1.0?>
<WMGetActivityInstance_Output>
<Option>WMGetActivityInstance</Option>
<Exception>
<Maincode>0</Maincode>
</Exception>
<ActivityInstance>
<ActivityName></ActivityName>
<ActivityInstanceId></ActivityInstanceId>
<ProcessInstanceId></ProcessInstanceId>
<ActivityInstanceState></ActivityInstanceState>
<Priority></Priority>
</ActivityInstance>
</WMGetActivityInstance_Output>
```

Queue management

Queue management calls includes the queue addition, deletion, fetching queue list, fetching queue properties, changing properties and setting the preferences for the queue list.

This section includes the details for the following calls:

API	Description
WFGetQueueProperty	This call returns the properties of the specified queue.
WMChangeQueueProperty	This call allows changing the properties of a queue.
WMChangeQueuePropertyEx	This call allows changing the properties of a queue. It is an extended version of WMChangeQueueProperty API, as it supports the Addition/Deletion of Users/Streams/Groups in a single go, while WMChangeQueueProperty call supports either addition or deletion, but not both together.
WMAddQueue	This call allows you to add a queue.
WFDeleteQueue	This call deletes the specified list of Queues from the cabinet.
WMGetUsersInQueue	This call allows you to fetch the list of users who are members of a particular Queue.
WFGetPreferredQueueList	This call returns the list of Preferred Queues set for a User. The Preferred List of Queues is displayed to the user, in the Queue View pane, when he logs into the Process Manager, for monitoring the processing in the Queues.
WFSetPreferredQueueList	This call sets the specified list of Queues as the Preferred List, for a specific user. The Preferred List of Queues is displayed to the user, in the Queue View pane, when he logs into the Process Manager, for monitoring the processing in the Queues.
WFGetVariableMapping	This API is used to fetch the list of Mapped Process Variables/ Aliases for a specified Queue. This API can also be used to fetch the list of all the Aliases defined for all the Queues, by not specifying a specific Queue ID in the input.
WFSetVariableMapping	This API is used to set the Process Variables/ Aliases Mappings for specified Queues. This can be used to set Aliases for multiple Queues in a single call.

WMGetQueueList

This call allows you to fetch the list of all the queues based on certain criteria. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMGetQueueList
EngineName	Root	Yes	It is the cabinet or database name.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueAssociation	Root	No	This flag indicates whether to fetch a list of only the Preferred Queues as set by the logged-in User, or to fetch all the Queues in the cabinet, or to fetch a list of only those queues on which the currently logged-in user has access rights.	0 — To fetch ALL Queues. 1 — To fetch Preferred Queues. 2 — To fetch only those queues on which the currently logged-in user has access rights. If however, a value is specified for the UserId Tag, then the system will fetch only those queues on which the User specified in UserId tag has access rights.

UserId	Filter	No	This is the Index of the User based on which the Queue List is to be filtered, i.e., all the Queues of which this user is a member will be fetched in case the QueueAssociation flag = 2. If however, no value is specified for this tag, then the system will fetch a list of all the Queues of which the currently logged-in user is a member.	NA
QueuePrefix	Filter	No	Indicates the prefix entered (while specifying wild card entries) on which the Queue List is to be filtered	NA
DataFlag	Root	No	This flag indicates if the Data corresponding to each of the Queues like No. of User Members, No. of Active Users, No of Workitems in Delay, etc. is also to be fetched.	Y — Fetch the Data N — Do not fetch the Data
ZipBuffer	Root	No	It indicates whether the output will be in zip or unzipped form.	Y/N

RightFlag	Root	No	This Flag indicates whether to fetch the list of Queues based on the rights associated with it for the currently logged-in user. These are the Read/Modify/Create/Delete/Annotate rights that may be associated with the Queue while assigning the Queue Management Rights.	000000 — No Rights Checking. Else a valid RMCDA string.
ProcessDefinitionID	Root	No	Id of the process, in case the Queue List is to be fetched specific for a process	NA
ProcessName	Root	No	Name of the process, in case the Queue List is to be fetched specific for a process.	NA
ActivityID	Filter	No	Id of the Activity, in case the Queue List is to be fetched for all Queues defined on a particular Activity in a Process.	NA
StreamID	Filter	No	Id of the Stream on an activity, in case the Queue List is to be fetched for the Queue defined on a particular stream, on a specific Activity, in a Process.	NA

QueueType	Filter	No	This is used to fetch the Queues based on their types. Queues belonging to multiple types can be specified by separating each type by a comma. For e.g. F, I can be specified for fetching Queues of type FIFO and Introduction.	I — Introduction F — FIFO D — (WIP) Dynamic N — (WIP) No Assignment S — (WIP) Permanent
SortOrder	BatchInfo	No	It is the order of sorting the fetched list.	A — Ascending. D — Descending.
OrderBy	BatchInfo	No	This is the field on the basis of which the fetched list of Queues is to be sorted.	QueueName
LastValue	BatchInfo	No	It is the Name of the last Queue, which was fetched in the previous batch.	NA
LastIndex	BatchInfo	No	It is the Id of the last queue, which was fetched in the previous batch.	NA
NoOfRecordsToFetch	BatchInfo		It is the batch size for the no. of queues to be fetched in the list.	NA
EnableMultiLingual	Root	No	This flag enables the multilingual results in the queue list output	Y — Enabled N — Disabled
PDAFlag	Root	No	This flag is for the Mobile devices support.	Y — Fetch results to be displayed in mobile like devices N — Fetch results for desktop devices.

DebugFlag	Root	No	This flag indicates whether the query logging is to be done or not	Y — Enable Query Logging N — Disable Query Logging
ByPassBatchSizeValidation	BatchInfo	No	This flag bypasses the batch size validation on the provided NoOfRecordsToFetch input parameter if enabled.	Y — Bypasses the batch size validation. N — Batch size validation is done on NoOfRecordsToFetch input.
PendingActionsFlag	Root	No	This flag is to fetch the list of pending action Ids.	Y — Fetch the list of pending action Ids. N — No pending action Ids will be fetched in the output.
FromLastModifiedOn	Filter	No	This tag can be used to filter the queue list based on the LastModifiedOn date range. FromLastModifiedOn signifies the starting date on which Modification was made.	String
ToLastModifiedOn	Filter	No	This tag can be used to filter the queue list based on the LastModifiedOn date range. ToLastModifiedOn signifies the end date on which Modification was made.	String
ActivityId	Filter	No	This tag can be used to filter the queue list on the basis of activity id	String

LastQueueName	Root	No	This signifies the name of the last queue returned in previous batch	String

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ID	QueueInfo	It is the ID of the Queue
Name	QueueInfo	It is the name of the Queue
Type	QueueInfo	It is the Type of the Queue. I — Introduction F — FIFO D — (WIP) Dynamic N — (WIP) No Assignment S — (WIP) Permanent
AllowReassignment	QueueInfo	It is the flag indicating whether re-assignment is allowed on the Queue or not. Y — Re-Assignment Allowed N — Re-Assignment Not Allowed

FilterValue	QueueInfo	It is the System Defined Name of the Queue variable on which the Filter has been set for WIP - Dynamic Queue.
FilterOption	QueueInfo	This indicates whether any Filter has been specified for the Queue. It is valid for only WIP - Dynamic Queue Types. 1 — Show All Workitems. 2 — Show Workitems where logged-in index is equal to Queue variable whose value is specified in Tag <Filter Value>. 3 — Show Workitems where logged-in index is not equal to Queue variable whose value is specified in Tag <Filter Value>.
AssignmentInfo	QueueInfo	In case of any Temporary Assignments set for the user in the Queue, this value returns the Temporary Assignment Till Date Time.
RightString	QueueInfo	This field represents the queue rights for the user.
EntityName	QueueInfo	This field represents the entity name.
NoofWorkitems	Data	It is the number of workitems currently pending in the queue. This is returned in case the Data Flag has been specified as Y in the input XML.
NoOfActiveUsers	Data	It is the number users who are currently logged into the queue. This is returned in case the Data Flag has been specified as Y in the input XML.
NoOfLoggedInActiveUsers	Data	It is the number of currently logged-in active members. This is returned in case the Data Flag has been specified as Y in the input XML.
NoOfDelayedWorkitems	Data	It is number of delayed workitems in the queue. This is returned in case the Data Flag has been specified as Y in the input XML.
NoofUserWorkItems	Data	It is the number of user workitems in the queue.
TotalUsers	Data	It is the total number of users in the Queue. This is returned in case the Data Flag has been specified as Y in the input XML.
PendingActions	QueueInfo	This is the list of pending actionsIds separated by Commas.
RefreshInterval	QueueInfo	This field is the refresh interval of the queue.
OrderBy	QueueInfo	It indicates the order by fields.

SortOrder	QueueInfo	It indicates the sort order of the output of the workitems in the result.
QProcessName	QueueInfo	This field is the process name with which the given queue is attached.
TotalCount	Root	It is the total number of queues that match the specified criteria in the input XML.
RetrieveCount	Root	It is the number of queues retrieved/returned in the list.
LastModifiedOn	Root	This signifies the last modified time of the queue

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records.
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Any error returned due to operation failure

Input XML:

```
<?xml version="1.0"?>
<WMGetQueueList_Input>
<Option>WMGetQueueList</Option>
<EngineName>ng1release27apr</EngineName>
<SessionId>1405541061</SessionId>
<ZipBuffer>N</ZipBuffer>
<Filter>
<QueueAssociation>0</QueueAssociation>
<FromLastModifiedOn>2023-06-05 00:00:00</FromLastModifiedOn>
<ToLastModifiedOn>2023-07-03 23:59:59</ToLastModifiedOn>
<QueueType>I</QueueType>
<ActivityId/>
<RightFlag>010100</RightFlag>
<UserId>93</UserId>
</Filter>
<QueuePrefix/>
<BatchInfo>
<SortOrder>D</SortOrder>
<LastIndex/>
```

```
<LastValue/>
<LastQueueName/>
<OrderBy>21</OrderBy>
<NoOfRecordsToFetch>20</NoOfRecordsToFetch>
</BatchInfo>
<DataFlag>N</DataFlag>
<OpenMode>PM</OpenMode>
<EnableMultiLingual>Y</EnableMultiLingual>
</WMGetQueueList_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetQueueList_Output>
<Option>WMGetQueueList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<QueueList>
<QueueInfo>
<ID>139</ID>
<Name>Achintya_Sanity_Start Event_1</Name>
<Type>I</Type>
<AllowReassignment>N</AllowReassignment>
<FilterValue/>
<RightString>1111100000000000000000000000000000000000</RightString>
<EntityName/>
<OrderBy>2</OrderBy>
<SortOrder>A</SortOrder>
<QProcessName>Achintya_Sanity</QProcessName>
<Comments>Process Modeler generated Default Queue for Start Activity</Comments>
<LastModifiedOn>2023-06-28 12:54:53.507</LastModifiedOn>
<ModifiedByUserName>rohit123</ModifiedByUserName>
<ModifiedByPersonalName>Rohit</ModifiedByPersonalName>
</QueueInfo>
<QueueInfo>
<ID>370</ID>
<Name>shampcess_Start Event_1</Name>
<Type>I</Type>
<AllowReassignment>N</AllowReassignment>
<FilterValue/>
<RightString>1111100000000000000000000000000000000000</RightString>
<EntityName/>
<OrderBy>2</OrderBy>
<SortOrder>A</SortOrder>
<QProcessName>shampcess</QProcessName>
<Comments>Process Modeler generated Default Queue for Start Activity</Comments>
<LastModifiedOn>2023-06-28 11:44:53.123</LastModifiedOn>
</QueueInfo>
<QueueInfo>
<ID>15</ID>
<Name>NPCaseCompExt1_Start Event_1</Name>
<Type>I</Type>
<AllowReassignment>N</AllowReassignment>
<RightString>1111100000000000000000000000000000000000</RightString>
<EntityName/>
```

```
<OrderBy>2</OrderBy>
<SortOrder>A</SortOrder>
<Comments>Process Modeler generated Default Queue for Start Activity .rkb</
Comments>
<LastModifiedOn>2023-06-20 12:15:33.627</LastModifiedOn>
<ModifiedByUserName>bye</ModifiedByUserName>
<ModifiedByPersonalName>New User</ModifiedByPersonalName>
<ModifiedByFamilyName></ModifiedByFamilyName>
</QueueInfo>
<QueueInfo>
<ID>13</ID>
<Name>SubProcess1_Start Event_1</Name>
<Type>I</Type>
<AllowReassignment>N</AllowReassignment>
<RightString>11111000000000000000000000000000000000</RightString>
<EntityName/>
<OrderBy>2</OrderBy>
<SortOrder>A</SortOrder>
<QProcessName>SubProcess1</QProcessName>
<Comments>Process Modeler generated Default Queue for Start Activity</Comments>
<LastModifiedOn>2023-06-20 12:14:59.817</LastModifiedOn>
<ModifiedByUserName>bye</ModifiedByUserName>
<ModifiedByPersonalName>New User</ModifiedByPersonalName>
<ModifiedByFamilyName></ModifiedByFamilyName>
</QueueInfo>
<QueueInfo>
<ID>324</ID>
<Name>SecretManagerTestingN_Start Event_1</Name>
<Type>I</Type>
<AllowReassignment>N</AllowReassignment>
<FilterValue/>
<RightString>11111000000000000000000000000000000000</RightString>
<EntityName/>
<OrderBy>2</OrderBy>
<SortOrder>A</SortOrder>
<QProcessName>SecretManagerTestingN</QProcessName>
<Comments>Process Modeler generated Default Queue for Start Activity</Comments>
<LastModifiedOn>2023-06-14 13:43:36.29</LastModifiedOn>
<ModifiedByUserName>sham</ModifiedByUserName>
<ModifiedByPersonalName>sham</ModifiedByPersonalName>
</QueueInfo>
<QueueInfo>
<ID>97</ID>
<Name>validateObjectTest_Start Event_1</Name>
<Type>I</Type>
<AllowReassignment>N</AllowReassignment>
<FilterValue/>
<RightString>11111000000000000000000000000000000000</RightString>
<EntityName/>
<OrderBy>2</OrderBy>
<SortOrder>A</SortOrder>
<QProcessName>validateObjectTest</QProcessName>
<Comments>Process Modeler generated Default Queue for Start Activity</Comments>
<LastModifiedOn>2023-06-08 15:08:51.92</LastModifiedOn>
<ModifiedByUserName>badmin</ModifiedByUserName>
<ModifiedByPersonalName>New User</ModifiedByPersonalName>
</QueueInfo>
```

```
</QueueList>
<TotalCount>6</TotalCount>
<RetrievedCount>6</RetrievedCount>
<SessionId>1405541061</SessionId>
<UserName>sham</UserName>
<QueueAssociation>0</QueueAssociation>
</WMGetQueueList_Output>
```

WFGetQueueProperty

This call returns the properties of the specified queue. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFGetQueueProperty_Input>
<Option>WFGetQueueProperty</Option>
<EngineName>ibps5oct</EngineName>
<SessionID>1859552310</SessionID>
<DataFlag>Y</DataFlag>
<QueueID>59</QueueID>
<QUserInfoFlag>Y</QUserInfoFlag>
<NoOfRecordsToFetch>1000</NoOfRecordsToFetch>
<WorkListConfigFlag>Y</WorkListConfigFlag>
</WFGetQueueProperty_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetQueueProperty
EngineName	Root	Yes	It is the cabinet or database name.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueID	Root	Yes	It is the ID of the queue whose properties are to be fetched.	NA

DataFlag	Root	No	This flag indicates if the Data corresponding to each of the Queues like number of User Members, number of Active Users, number of Workitems, and more. is also to be fetched.	Y — Fetch the Data N — Do not fetch the Data
StatFlag	Root	No	Flag to indicate whether count is to be returned	Y/N
WorkListConfigFlag	Root	No	Worklist configuration flag	Y/N
PDAFlag	Root	No	Flag to indicate whether queue property is to be fetched for PDA	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetQueueProperty_Output>
<Option>WFGetQueueProperty</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<QueueInfo>
<StatusInfo>
<StatusCode>0</StatusCode>
<Description>SUCCESS</Description>
</StatusInfo>
<QueueId>23</QueueId>
<Name>A1_Start Event_1</Name>
```

```
<Type>I</Type>
<Comments>Process Modeler generated Default Queue for Start Activity</Comments>
<FilterValue></FilterValue>
<OrderBy>2</OrderBy>
<WorkListConfigFields>
<Variable>
<VariableId>29</VariableId>
<VariableType>S</VariableType>
<VariableName>EntryDateTime</VariableName>
<DisplayName>EntryDateTime</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>30</VariableId>
<VariableType>S</VariableType>
<VariableName>ValidTill</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
<Variable>
<VariableId>31</VariableId>
<VariableType>S</VariableType>
<VariableName>ProcessInstanceId</VariableName>
<DisplayName>Registration No</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>32</VariableId>
<VariableType>S</VariableType>
<VariableName>CreatedByPersonalName</VariableName>
<DisplayName>CreatedByName</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>35</VariableId>
<VariableType>S</VariableType>
<VariableName>IntroductionDateTime</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
<Variable>
<VariableId>36</VariableId>
<VariableType>S</VariableType>
<VariableName>IntroducedBy</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
<Variable>
<VariableId>42</VariableId>
<VariableType>M</VariableType>
<VariableName>Status</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
<Variable>
<VariableId>45</VariableId>
<VariableType>M</VariableType>
```

```
<VariableName>QueueName</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
<Variable>
<VariableId>46</VariableId>
<VariableType>M</VariableType>
<VariableName>LockedByUserName</VariableName>
<DisplayName>LockedByName</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>47</VariableId>
<VariableType>M</VariableType>
<VariableName>LockedTime</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
<Variable>
<VariableId>49</VariableId>
<VariableType>M</VariableType>
<VariableName>ActivityName</VariableName>
<DisplayName>Workstep Name</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>50</VariableId>
<VariableType>M</VariableType>
<VariableName>CheckListCompleteFlag</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
<Variable>
<VariableId>52</VariableId>
<VariableType>S</VariableType>
<VariableName>ProcessedBy</VariableName>
<DisplayName>ProcessedBy</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>10002</VariableId>
<VariableType>S</VariableType>
<VariableName>ExpectedWorkitemDelay</VariableName>
<DisplayName></DisplayName>
<MobileDisplay>N</MobileDisplay>
</Variable>
</WorkListConfigFields>
<AllowReassignment>N</AllowReassignment>
<QueueFilter></QueueFilter>
<SortOrder>A</SortOrder>
<QProcessName>A1</QProcessName>
<Data>
<GroupList></GroupList>
<UserList>
<UserInfo>
<Id>7</Id>
<Name>chandra</Name>
```

```
<QueryPreview>N</QueryPreview>
<EditWorkItem>N</EditWorkItem>
<PersonalName>New User</PersonalName>
<FamilyName>User</FamilyName>
</UserInfo>
<UserInfo>
<Id>6</Id>
<Name>nikhil</Name>
<QueryPreview>N</QueryPreview>
<EditWorkItem>N</EditWorkItem>
<PersonalName>nikhil</PersonalName>
</UserInfo>
</UserList>
<StreamList>
<StreamInfo>
<Id>1</Id>
<Name>Default</Name>
<ProcessDefId>7</ProcessDefId>
<ActivityId>1</ActivityId>
<ActivityName>Start Event_1</ActivityName>
<ProcessName>A1</ProcessName>
<Definition>ALWAYS</Definition>
<VersionNo>1</VersionNo>
</StreamInfo>
</StreamList>
</Data>
<TotalCount>2</TotalCount>
<RetrievedCount>2</RetrievedCount>
</QueueInfo>
</WFGetQueueProperty_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	QueueInfo	It is the name of the queue
Type	QueueInfo	It is the type of the queue. F — FIFO D — (WIP) Dynamic N — (WIP) No Assignment S — (WIP) Permanent U — User Queue
Comments	QueueInfo	It is the comments associated with the queue.
AllowReassignment	QueueInfo	It is the value for Re-Assignment flag specified for the Queue. Y — Re-Assignment Allowed N — Re-Assignment Not Allowed
OrderBy	QueueInfo	It is the order on the basis of which the workitems are to be sorted in a FIFO type of a Queue. 1 — Sort on Entry Date Time. 2 — Sort on Introduction Date Time.
FilterOption	QueueInfo	This indicates whether any Filter has been specified for the Queue. It is valid for only WIP – Dynamic Queue Types. 1 — Show All Workitems. 2 — Show Workitems where logged-in index is equal to Queue variable whose value is specified in Tag <Filter Value>. 3 - Show Workitems where logged-in index is not equal to Queue variable whose value is specified in Tag <Filter Value>.
QueueFilter	QueueInfo	This indicates the queue filter (if any) set on the queue for queue Type N.
FilterValue	QueueInfo	It is the System Defined Name of the Queue variable on which the Filter has been set for WIP - Dynamic Queue.

UserCount	QueueInfo	It is the number of users who are members of the queue. This is returned only if the DataFlag is specified as Y in input XML.
StreamCount	QueueInfo	It is the number of Streams included in the queue. This is returned only if the DataFlag is specified as Y in input XML.
NoOfWorkitems	QueueInfo	It is the number of workitems currently lying in the queue. This is returned only if the DataFlag is specified as Y in input XML.
NoOfActiveUsers	QueueInfo	It is the number of active users in the queue. i.e. The no. of users who are processing workitems belonging to the Queue. This is returned only if the DataFlag is specified as Y in input XML.
NoOfInActiveUsers	QueueInfo	It is the number of inactive users in the queue. This is returned only if the DataFlag is specified as Y in input XML.
Id	UserInfo	ID of the user who is a member of the Queue.
Name	UserInfo	Name of the user who is a member of the Queue.
QueryFilter	UserInfo	This is the ‘Set Filter’ string for the User added to the Queue.
ID	GroupInfo	ID of the Group that is a member of the Queue.
Name	GroupInfo	Name of the Group that is a member of the Queue.
QueryFilter	GroupInfo	This is the ‘Set Filter’ string for the Group added to the Queue.
Id	StreamInfo	It is the ID of the Stream included in the Queue.
Definition	StreamInfo	It is the definition of the Stream included in the Queue.
Name	StreamInfo	Name of the Stream included in the Queue.
Activityid	StreamInfo	ID of the Activity on which the stream included in the Queue is defined.
ActivityName	StreamInfo	Name of the Activity on which the stream included in the Queue is defined.
ProcessDefId	StreamInfo	ID of the Process which contains the Activity on which the stream included in the Queue is defined.

ProcessName	StreamInfo	Name of the Process which contains the Activity on which the stream included in the Queue is defined.
VersionNo	StreamInfo	Version No. of the Process which contains the Activity on which the stream included in the Queue is defined.
Variable	WorkListConfigFields	NA
VariableId	Variable	Id of the variable
VariableType	Variable	Type of Variable. S — System M — System-Modifiable Q/U — Queue/User defined I — External Table
VariableName	Variable	Name of the variable
DisplayName	Variable	Display name of variable
MobileDisplay	Variable	Flag to indicate whether variable is to be displayed on Mobile
PersonalName	UserInfo	PersonalName of user.
FamilyName	UserInfo	FamilyName of user.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
830	WFS_NORIGHTS	No Rights
18	WM_NO_MORE_DATA	No More Data
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.

WMChangeQueueProperty

This call allows changing the properties of a queue. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMChangeQueueProperty_Input>
<Option>WMChangeQueueProperty</Option>
<EngineName>ofcab</EngineName>
<SessionId>1601559629</SessionId>
<QueueId>46</QueueId>
<StreamOperation>
<Operation>A</Operation>
<StreamList>
<StreamInfo>
<ID>1</ID>
<ProcessDefinitionID>4</ProcessDefinitionID>
<Activityid>9</Activityid>
</StreamInfo>
</StreamList>
</StreamOperation>
<UserOperation>
<Operation>A</Operation>
<UserList>
<UserInfo>
<ID>1</ID>
<QueryFilter>a=4</QueryFilter>
<AssignedTilldate>2007-10-09</AssignedTilldate>
</UserInfo>
</UserList>
</UserOperation>
<GroupOperation>
<Operation>A</Operation>
<GroupList>
<GroupInfo>
<ID>1</ID>
<QueryFilter>a=4</QueryFilter>
</GroupInfo>
</GroupList>
</GroupOperation>
</WMChangeQueueProperty_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMChangeQueueProperty
EngineName	Root	Yes	It is the cabinet or database name.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueID	QueueDetail	Yes	It is the ID of the Queue whose properties are to be modified.	NA
QueueName	QueueDetail	No	It is the Name to be set for the Queue	NA
Description	QueueDetail	No	It is the Description to be set for the Queue	NA
QueueType	QueueDetail	No	It is the Type to be set for the Queue	F — FIFO D — (WIP) Dynamic N — (WIP) No Assignment S — (WIP) Permanent
AllowReassignment	QueueDetail	No	This is a flag indicating whether Re-Assignment is allowed on the Queue or not	Y — Re-Assignment Allowed N — Re-Assignment Not Allowed

OrderBy	QueueDetail	No	It is the order on the basis of which the workitems are to be sorted in a FIFO type of a Queue	1 — Sort on Entry Date Time 2 — Sort on Introduction Date Time
FilterOption	QueueDetail	No	This indicates whether any Filter has been specified for the Queue. It is valid for only WIP – Dynamic Queue Types.	1 — Show All Workitems 2 — Show Workitems where logged-in index is equal to Queue variable whose value is specified in Tag <Filter Value> 3 — Show Workitems where logged-in index is not equal to Queue variable whose value is specified in Tag <Filter Value>
FilterValue	QueueDetail	No	It is the System Defined Name of the Queue variable on which the Filter has been set for WIP - Dynamic Queue.	NA
Operation	StreamOperation	No	This is a flag indicating whether the following Streams specified in the <StreamList> tag, are to be Added or Deleted or created Afresh	A — The streams following in the <StreamList> tag are to be added into the Queue. D — The streams following in the <StreamList> tag are to be deleted from the Queue. N — New, i.e. all existing stream associations with the Queue are to be removed, and the streams following in the <StreamList> tag are to be added into the Queue.

ID	StreamInfo	No	The ID of the Stream to be added/deleted from the Queue	NA
Activityid	StreamInfo	No	The ID of the activity whose stream is to be added/deleted from the Queue.	NA
ProcessDefinitionID	StreamInfo	No	ID of the Process that contains the activity whose stream is to be added/deleted from the Queue.	NA
Operation	UserOperation	No	This is a flag indicating whether the following Users specified in the <UserList> tag, are to be Added or Deleted or created Afresh.	A — The users following in the <UserList> tag are to be added into the Queue. D — The users following in the <UserList> tag are to be deleted from the Queue. N — New, i.e. all existing users associations with the Queue are to be removed, and the users following in the <UserList> tag are to be added into the Queue.
Id	UserInfo	No	The ID of the User to be added/deleted from the Queue.	NA

AssignedTilldate	UserInfo	No	The Date-Time until which the user is temporarily assigned to the Queue.	NA
QueryFilter	UserInfo	No	This is used to specify the 'Set Filter' string for the User being added to the Queue.	NA
Operation	GroupOperation	No	This is a flag indicating whether the following Groups specified in the <GroupList> tag, are to be Added or Deleted or created Afresh.	A — The groups following in the <GroupList> tag are to be added into the Queue. D — The groups following in the <GroupList> tag are to be deleted from the Queue. N — New, i.e. all existing groups associations with the Queue are to be removed, and the groups following in the <GroupList> tag are to be added into the Queue.
Id	GroupInfo	No	The ID of the Group to be added/deleted from the Queue	
QueryFilter	GroupInfo	No	This is used to specify the 'Set Filter' string for the Group being added to the Queue.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMChangeQueueProperty_Output>
<Option>WMChangeQueueProperty</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<FailedStreams></FailedStreams>
<FailedUsers></FailedUsers>
<FailedGroups></FailedGroups>
</WMChangeQueueProperty_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Id	FailedStreams/ StreamInfo	The ID of the Stream that failed to be added/deleted from the Queue.
Activityid	FailedStreams/ StreamInfo	The ID of the activity whose stream failed to be added/ deleted from the Queue.
ProcessDefinitionID	FailedStreams/ StreamInfo	The ID of the Process, whose stream failed to be added/ deleted from the Queue.
Id	FailedUsers/ UserInfo	The ID of the User that failed to be added/deleted from the Queue.

Id	FailedGroups/ GroupInfo	The ID of the Group that failed to be added/deleted from the Queue.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

WMChangeQueuePropertyEx

This call allows changing the properties of a queue. It is an extended version of WMChangeQueueProperty API, as it supports the Addition/Deletion of Users/Streams/ Groups in a single go, while WMChangeQueueProperty call supported either addition or deletion, but not both together.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMChangeQueuePropertyEx_Input>
<Option>WMChangeQueuePropertyEx</Option>
<EngineName></EngineName>
<SessionId></SessionId>
<ZipBuffer></ZipBuffer>
<RightFlag></RightFlag>
<QueueName></QueueName>
<Description></Description>
<QueueType>N</QueueType>
<FilterOption></FilterOption>
<QueueFilter></QueueFilter>
<FilterValue></FilterValue>
<OrderBy></OrderBy>
<AllowReassignment></AllowReassignment>
<QueueID></QueueID>
```

```
<StreamOperation>
<StreamList></StreamList>
</StreamOperation>
<UserOperation>
<UserList></UserList>
</UserOperation>
<GroupOperation>
<GroupList></GroupList>
</GroupOperation>
</WMChangeQueuePropertyEx_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMChangeQueuePropertyEX
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueID	Root	Yes	ID of the Queue, of which the no. of workitems is to be fetched.	0 — To fetch the count of workitems in the currently logged-in User's My Queue. -1 — To fetch the total count of workitems in all the Queues of which the currently logged-in user is a member. Else to fetch the count of workitems in a specific queue, provide the Valid Queue ID in this Tag.
SetWorkListConfigFlag	Root	No	Flag that enable worklist configuration flag.	Y — Yes N — No

QueueName	QueueDetail	No	It is the Name to be set for the Queue.	NA
QProcessName	QueueDetail	No	Name of the process on the queue.	NA
Description	QueueDetail	No	It is the Description to be set for the Queue.	NA
QueueFilter	Root	No	This indicates the filter set by the user on the queue Type N.	NA
RefreshInterval	Root	No	Interval time to refresh	0 -- by default
FilterOption	QueueDetail	No	This indicates whether any Filter has been specified for the Queue. It is valid for only WIP – Dynamic Queue Types.	1 — Show All Workitems 2 — Show Workitems where logged-in index is equal to Queue variable whose value is specified in Tag <Filter Value>. 3 — Show Workitems where logged-in index is not equal to Queue variable whose value is specified in Tag <Filter Value>.
OrderBy	QueueDetail	No	It is the order on the basis of which the workitems are to be sorted in a FIFO type of a Queue.	1 — Sort on Entry Date Time 2 — Sort on Introduction Date Time
SortOrder	Root	No	Arrange in sorted order.	A — Ascending D — Descending

AllowReassignment		No	This is a flag indicating whether Re-Assignment is allowed on the Queue or not.	Y — Re-Assignment Allowed N — Re-Assignment Not Allowed
Operation	StreamInfo	No	This is a flag indicating whether the following Stream is to be Added or Deleted.	I — The stream is to be added into the Queue. D — The stream is to be deleted from the Queue.
StreamList	StreamOperation	No	List of Streams.	NA
Operation	UserInfo	No	This is a flag indicating whether the following User is to be Added or Deleted.	I — The user is to be added into the Queue. D — The user is to be deleted from the Queue. U — The User Query Filter specified needs to be updated for the Queue-User association.
UserList	UserOperation	No	List of users.	NA
Operation	GroupOperation	No	This is a flag indicating whether the following Group is to be Added or Deleted.	I — The groups following in the <GroupList> tag are to be added into the Queue. D — The groups following in the <GroupList> tag are to be deleted from the Queue. U — The Group Query Filter specified needs to be updated for the Queue-Group association.
GroupList	GroupOperation	No	List of Groups.	NA
ActionComments	Root	No	Comments on action by user.	NA

DebugFlag	Root	No	Enable to write in console.log f ile.	Y — Yes N — No
WorkListConfigFields	Root	No	Enable worklist configuration fields in xml.	Y — Yes N — No
AuthorizationFlag	Root	No	It is a Flag to determine whether Maker-Checker functionality needs to be implemented or not.	N — Changes made are permanent. No Checker approval required. Y — Changes require approval or rejection from some Checker.
RightFlag	Root	No	It is a Right String to be checked on the corresponding queue.	010000 — Read Rights to be checked. 010100 — Read, Modify Rights to be checked.
FilterValue	QueueDetail	No	It is the System Defined Name of the Queue variable on which the Filter has been set for WIP - Dynamic Queue.	NA
FilterOption	QueueDetail	No	This indicates whether any Filter has been specified for the Queue. It is valid for	1 — Show All Workitems 2 — Show Workitems where logged-in index is equal to Queue variable whose value is specified in Tag <Filter Value>.

			only WIP – Dynamic Queue Types.	3 — Show Workitems where logged-in index is not equal to Queue variable whose value is specified in Tag <Filter Value>.
StreamName	StreamInfo	No	Name of stream.	NA
Id	StreamInfo	No	The ID of the Stream to be added/ deleted from the Queue.	NA
Id	UserInfo	No	The ID of the User to be added/ deleted from the Queue.	NA
Id	GroupInfo	No	The ID of the Group to be added/ deleted from the Queue.	NA
Activityid	StreamInfo	No	The ID of the activity whose stream is to be added/ deleted from the Queue.	NA
ProcessDefinitionID	StreamInfo	No	ID of the Process that contains the activity whose stream is to be added/ deleted from the Queue.	NA
AssignedTilldate	UserInfo	No	The Date-Time until which the	NA

			user is temporarily assigned to the Queue.	
QueryFilter	GroupInfo	No	This is used to specify the Set Filter' string for the Group being added to the Queue.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMChangeQueuePropertyEx_Output>
<Option>WMChangeQueuePropertyEx</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<FailedStreams></FailedStreams>
<FailedUsers></FailedUsers>
<FailedGroups></FailedGroups>
</WMChangeQueuePropertyEx_Output>
```

Response parameters description:

Parameter	Parent tag	Description

Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
QueueName	FailedStreams	Name of the queue where workitem is.
Operation	StreamInfo	Stream operation.
StreamCount	StreamList	Count of Stream on the queue.
UserName	UserInfo	Name of user.
UserId	UserInfo	Id of the user.
AssignmentType	UserInfo	Type that assign either U or P.
UserCount	UserList	Count of Users.
UserList	FailedUsers	List of users.
GroupName	GroupInfo	Name of the group.
GroupId	GroupInfo	Id of group.
Operation	GroupInfo	Group oOperation.
GroupCount	GroupList	Count of Groups.
GroupList	FailedGroups	List of groups.
AuthorizationFlag	Root	It is a Flag to determine whether Maker-Checker functionality needs to be implemented or not.
Old	queueName	Old Queue Name
New	queueName	New Queue Name
Old	queueType	Type of queue.
New	queueType	Type of queue.
Old	comments	Old comments.
New	comments	New comments.
Old	allowReassingment	Old reassignment value.
New	allowReassingment	New reassignment value.
Old	refreshInterval	Old refresh interval.
New	refreshInterval	New refresh interval
Old	processName	Old process name.

New	processName	New process name.
Old	filterOption	Old filter options.
New	filterOption	New filter option.
Old	filterValue	Old filter value
New	filterValue	New filter value.
Old	orderBy	Old orderby value.
New	orderBy	New orderby value.
Old	sortOrder	Old sort order
New	sortOrder	New sort order
Old	QueueFilter	Old query filter
New	QueueFilter	New query filter.
originalQueueName	Root	Name of process used at the time of creation.
Id	FailedStreams/ StreamInfo	The ID of the Stream that failed to be added/deleted from the Queue.
Activityid	FailedStreams/ StreamInfo	The ID of the activity whose stream failed to be added/ deleted from the Queue.
ProcessDefinitionID	FailedStreams/ StreamInfo	The ID of the Process, whose stream failed to be added/deleted from the Queue.
Id	FailedUsers/ UserInfo	The ID of the User that failed to be added/deleted from the Queue.
Id	FailedUsers/ UserInfo	The ID of the Group that failed to be added/deleted from the Queue.

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	--	WF_OPERATION_FAILED	Operation Failed.
18	0	WM_NO_MORE_DATA	No more records.
12	801	WM_INVALID_QUERY_HANDLE	Invalid Query handle.

WMAddQueue

This call allows you to add a queue. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMAddQueue_Input>
<Option>WMAddQueue</Option>
<EngineName>ofcab</EngineName>
<SessionId>2081172709</SessionId>
<QueueName>abxc</QueueName>
<Description></Description>
<QueueType>F</QueueType>
<QueueFilter></QueueFilter>
<StreamList>
<StreamInfo>
<ID>1</ID>
<ProcessDefinitionID>4</ProcessDefinitionID>
<Activityid>9</Activityid>
</StreamInfo>
</StreamList>
<GroupList>
<GroupInfo>
<ID>1</ID>
<QueryFilter>a=34</QueryFilter>
</GroupInfo>
</GroupList>
<UserList>
<UserInfo>
<ID>1</ID>
<AssignedTilldate>2007-12-12</AssignedTilldate>
<QueryFilter>a=94</QueryFilter>
</UserInfo>
</UserList>
<FilterOption>1</FilterOption>
<FilterValue></FilterValue>
<OrderBy>10</OrderBy>
<AllowReassignment>N</AllowReassignment>
</WMAddQueue_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMAddQueue

EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueName	Root	Yes	The Name with which the Queue is to be created.	NA
Description	Root	No	It is the description for the queue.	NA
QueueType	Root	Yes	It is the type for the queue.	F — FIFO D — (WIP) Dynamic N — (WIP) No Assignment S — (WIP) Permanent U — User Queue
AllowReassignment	Root	No	This is a flag indicating whether Re-Assignment is allowed on the Queue or not.	Y — Re-Assignment Allowed N — Re-Assignment Not Allowed
OrderBy	Root	No	It is the order on the basis of which the workitems are to be sorted in a FIFO type of Queue.	1 — Sort on Entry Date Time 2 — Sort on Introduction Date Time
FilterOption	Root	No	This indicates whether any Filter has been specified for the Queue. It is valid for only WIP – Dynamic Queue Types.	1 — Show All Workitems. 2 — Show Workitems where the logged-in index is equal to the Queue variable whose value is specified in Tag <Filter Value>. 3 — Show Workitems where logged-in index is not equal to Queue variable whose value is specified in Tag <Filter Value>.

QueueFilter	Root	No	This indicates the filter set on the queue.	NA
FilterValue	Root	No	It is the System Defined Name of the Queue variable on which the Filter has been set for WIP - Dynamic Queue.	NA
ID	StreamInfo	No	The ID of the Stream to be added to the Queue.	NA
ActivityId	StreamInfo	No	The ID of the activity whose stream is to be added to the Queue.	NA
ProcessDefinitionID	StreamInfo	No	ID of the Process that contains the activity whose stream is to be added to the Queue.	NA
ID	UserInfo	No	The ID of the User to be added to the Queue.	NA
AssignedTilldate	UserInfo	No	The Date-Time until which the user is temporarily assigned to the Queue.	NA
QueryFilter	UserInfo	No	This is used to specify the 'Set Filter' string for the User being added to the Queue.	NA
Id	GroupInfo	No	The ID of the Group to be added to the Queue.	NA
QueryFilter	GroupInfo	No	This is used to specify the 'Set Filter' string for the Group being added to the Queue.	NA

SetWorkListConfigFlag	Root	No	Flag to check whether the variable must be displayed on mobile	Y- Display on mobile N-Do not display on mobile
WorkListConfigFields	Root	No	List of <Variable> to be displayed on mobile	NA
VariableId	Variable	No	Variable id of variable to be displayed on mobile	NA
VariableType	Variable	No	Variable type of variable to be displayed on mobile	NA
DisplayName	Variable	No	Display name on UI	NA
MobileDisplay	Variable	No	Flag for displaying on mobile	Y- Display on mobile N-Do not display on mobile
RefreshInterval	Root	No	Time after which queue will refresh	NA
QProcessName	Root	No	Process name for which queue is defined	NA
ActionComments	Root	No	Action comments	NA
SortOrder	Root	No	Default order of workitem in queue	A-Ascending order D- Descending order
AuthorizationFlag	Root	No	Maker-Checker flag	Y- Checker is required to authorize N- Checker not required.No authorization required

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMAddQueue_Output>
<Option>WMAddQueue</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<QueueID>61</QueueID>
<FailedStreams></FailedStreams>
<FailedGroups></FailedGroups>
<FailedUsers></FailedUsers>
</WMAddQueue_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
QueueId	ActivityStreamList	ID of the Activity in which the stream is contained.
Id	ActivityStreamList	Name of the Activity in which the stream is contained.
ActivityId	StreamInfo	ID of the Stream.
ProcessDefinitionID	StreamInfo	Name of the Stream.
Id	StreamInfo	Definition of the Stream.
Id	QueueInfo	ID of the Queue with which the Stream is associated.
AuthorizationID	Root	Auth Id generated for work Table.
TempQueueFlag	Root	Y- Only when AuthorizationFlag='Y'. Inidcates authorization required.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	The requested filter is invalid
400	WF_OPERATION_FAILED	Operation failed

WFDeleteQueue

This call deletes the specified list of Queues from the cabinet. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFDeleteQueue_Input>
<Option>WFDeleteQueue</Option>
<EngineName>ibpsjune29sql</EngineName>
<SessionId>-880178176</SessionId>
<ZipBuffer>N</ZipBuffer>
<UserId>1019</UserId>
<RightFlag>010100</RightFlag>
<ActionComments>23</ActionComments>
<QueueInfo>
<QueueId>24</QueueId>
</QueueInfo>
</WFDeleteQueue_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFDeleteQueue
EngineName	Root	Yes	It is the cabinet or database name.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

UserId	Root	No	It is the id of the user logged-in. This tag is not mandatory and may not be specified.	NA
QueueId	QueueInfo	No	ID of the Queue to be deleted from the cabinet.	NA
DebugFlag	Root	No	This flag indicates whether the query logging is to be done or not.	NA
ActionComments	Root	No	Comment provided while deleting the queue.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFDeleteQueue_Output>
<Option>WFDeleteQueue</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<FailedList></FailedList>
</WFDeleteQueue_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
QueueId	FailedList	ID of the Queue that could not be deleted.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
983	WF_QUEUE_DELETION_FAILED	Invalid queue definition

WMGetUsersInQueue

This call allows you to fetch the list of users who are members of a particular Queue. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMGetUserInQueue
EngineNam	Root	Yes	It is the cabinet or database name.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueryName	Root	Yes	It specifies the name of the Queue, for which the list of user members are to be fetched.	NA
Status	Root	No	It specifies the status of the query.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
UserName	Root	It is the user name who is a member of the Queue specified in input XML
RetrievedCount	Root	It is the count of user names who are members of the Queue specified in input XML

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	Invalid Filter
18	WM_NO_MORE_DATA	No more records.
11	WM_INVALID_SESSION_HANDLE	Invalid session.

Input XML:

```
<?xml version="1.0"?>
<WMGetUsersInQueue_Input>
<Option>WMGetUsersInQueue</Option>
<EngineName>ofcab</EngineName>
<SessionId>528292443</SessionId>
<QueryName>AccOpening_Data Entry</QueryName>
</WMGetUsersInQueue_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetUsersInQueue_Output>
<Option>WMGetUsersInQueue</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Users>
<UserName>DataEntryOperator</UserName>
<UserName>ExceptionResolver</UserName>
<UserName>Japneet</UserName>
<UserName>Manager</UserName>
<UserName>ScanningOperator</UserName>
<UserName>Supervisor</UserName>
</Users>
<RetrievedCount>6</RetrievedCount>
</WMGetUsersInQueue_Output>
```

WFGetPreferredQueueList

This call returns the list of Preferred Queues set for a User. The Preferred List of Queues is displayed to the user, in the Queue View pane, when he logs into the Process Manager, for monitoring the processing in the Queues. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0">
<WFGetPreferredQueueIist_Input>
<Option>WFGetPreferredQueueList</Option>
<EngineName>ofcab</EngineName>
<SessionID>1338058054</SessionID>
<UserId>1</UserId>
</WFGetPreferredQueueIist_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetPreferredQueueList
EngineName	Root	Yes	It is the cabinet or database name.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
UserID	Root	Yes	It is the Id of the User, for whom the Preferred list is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetPreferredQueueList_Output>
<Option>WFGetPreferredQueueList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<QueueList>
<QueueInfo>
<QueueId>1</QueueId>
<QueueName>AccOpening_Scanning</QueueName>
</QueueInfo>
<QueueInfo>
<QueueId>2</QueueId>
<QueueName>AccOpening_Data Entry</QueueName>
</QueueInfo>
<QueueInfo>
<QueueId>4</QueueId>
<QueueName>AccOpening_Manager</QueueName>
</QueueInfo>
<QueueInfo>
<QueueId>48</QueueId>
<QueueName>Loan_Integration1</QueueName>
</QueueInfo>
<QueueInfo>
<QueueId>51</QueueId>
<QueueName>Loan_Integration2</QueueName>
</QueueInfo>
<QueueInfo>
<QueueId>53</QueueId>
<QueueName>Japneet's MyQueue</QueueName>
</QueueInfo>
</QueueList>
</WFGetPreferredQueueList_Output>
```

Response parameters description:

Parameter	Parent tag	Description

Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
QueueName	QueueInfo	The Name of the Queue included in the Preferred Queue List.
QueueId	QueueInfo	The ID of the Queue included in the Preferred Queue List.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation failed

WFSetPreferredQueueList

This call sets the specified list of Queues as the Preferred List, for a specific user. The Preferred List of Queues is displayed to the user, in the Queue View pane, when he logs into the Process Manager, for monitoring the processing in the Queues.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetPreferredQueueList_Input>
<Option>WFSetPreferredQueueList</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1658511567</SessionId>
<Operation>N</Operation>
<QueueList>
<QueueInfo>
<QueueID>2</QueueID>
</QueueInfo>
<QueueInfo>
<QueueID>4</QueueID>
```

```
</QueueInfo>
<QueueInfo>
<QueueID>1</QueueID>
</QueueInfo>
<QueueInfo>
<QueueID>53</QueueID>
</QueueInfo>
<QueueInfo>
<QueueID>48</QueueID>
</QueueInfo>
<QueueInfo>
<QueueID>51</QueueID>
</QueueInfo>
</QueueList>
</WFSetPreferredQueueList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetPreferredQueueList
EngineName	Root	Yes	It is the cabinet or database name.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
UserID	Root	Yes	It is the Id of the User, for whom the Preferred list is to be set.	NA
Operation	Root	Yes	This Flag is used to specify the operation to be performed. i.e. whether to add the queues to the existing Queues Preferred list for the user, or delete the specified Queues from the existing Preferred Queues List, or delete the complete existing Preferred Queues List, and add the Queues specified afresh.	A — Add the queues to the existing Queues Preferred list for the user D — Delete the specified Queues from the existing Preferred Queues List N — Delete the complete existing Preferred Queues List, and add the Queues specified to the new list.
QueueId	QueueInfo	Yes	ID of the Queue to be added/Deleted to the Preferred Queues List.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetPreferredQueueList_Output>
<Option>WFSetPreferredQueueList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<FailedList></FailedList>
</WFSetPreferredQueueList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
QueueId	FailedList	The ID of the Queue, that could not be added/deleted from the Preferred List of Queues, for the specified User.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.

WFGetVariableMapping

This API is used to fetch the list of Mapped Process Variables/ Aliases for a specified Queue. This API can also be used to fetch the list of all the Aliases defined for all the Queues, by not specifying a specific Queue ID in the input. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetVariableMapping_Input>
<Option>WFGetVariableMapping</Option>
<EngineName>ibps5oct</EngineName>
<SessionId>2051953535</SessionId>
<QueueId>0</QueueId>
<DataFlag>Y</DataFlag>
<GetWorkListConfigFlag>Y</GetWorkListConfigFlag>
<OpenMode>WD</OpenMode>
</WFGetVariableMapping_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetVariableMapping
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueId	Root	No	The ID of the Queue for which the list of Aliases is to be fetched. However, if	NA

			you wish to fetch the list of all the Aliases defined for all the Queues in the cabinet, then do not specify this Tag.	
DataFlag	Root	No	This flag indicates whether the information about the Queue/System variable mapped with the defined alias is to be returned or not.	Y — Information about the Queue/System variable mapped with the defined alias is to be returned. N — Information about the Queue/System variable mapped with the defined alias is not to be returned.
ProcessDefId	Root		The ID of the Process for which the list of Aliases is to be fetched. However, if you wish to fetch the list of all the Aliases defined for all the Processes in the cabinet, then do not specify this Tag.	NA
GetWorkListConfigFlag	Root	No	Worklist configuration flag	Y/N
EnableMultiLingual	Root	No	Flag to indicate whether data is to fetched for entity names already set in different language	Y/N
OpenMode	Root	No	This flag decide whether the user is business admin or userdesktop. This flag value is PM then the EnableMultiLingual flag value is ignored.	WD — Webdesktop user (no impact on the multilingual flag) PM — Multilingual must be disabled. DefaultValue — WD

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFGetVariableMapping_Output>
<Option>WFGetVariableMapping</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<VarList></VarList>
<WorkListConfigFields>
<Variable>
<VariableId>29</VariableId>
<VariableType>S</VariableType>
<VariableName>EntryDateTime</VariableName>
<DisplayName>EntryDateTime</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>31</VariableId>
<VariableType>S</VariableType>
<VariableName>ProcessInstanceId</VariableName>
<DisplayName>ProcessInstanceName</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>32</VariableId>
<VariableType>S</VariableType>
<VariableName>CreatedByPersonalName</VariableName>
<DisplayName>CreatedByName</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>37</VariableId>
<VariableType>S</VariableType>
<VariableName>InstrumentStatus</VariableName>
<DisplayName>InstrumentStatus</DisplayName>
<MobileDisplay>Y</MobileDisplay>
```

```
</Variable>
<Variable>
<VariableId>38</VariableId>
<VariableType>S</VariableType>
<VariableName>PriorityLevel</VariableName>
<DisplayName>PriorityLevel</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>46</VariableId>
<VariableType>S</VariableType>
<VariableName>LockedByUserName</VariableName>
<DisplayName>LockedByName</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>48</VariableId>
<VariableType>S</VariableType>
<VariableName>LockStatus</VariableName>
<DisplayName>LockStatus</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>49</VariableId>
<VariableType>S</VariableType>
<VariableName>ActivityName</VariableName>
<DisplayName>ActivityName</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
<Variable>
<VariableId>52</VariableId>
<VariableType>S</VariableType>
<VariableName>ProcessedBy</VariableName>
<DisplayName>ProcessedBy</DisplayName>
<MobileDisplay>Y</MobileDisplay>
</Variable>
</WorkListConfigFields>
</WFGetVariableMapping_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Alias	Var	The name of the defined ALIAS for the Queue/System variable.
Return	Var	Y — Specifies that the defined Alias is to be returned in the Worklist calls for the Queue, and displayed in the Worklist for the Queue in Process Client.

		N — Specifies that the defined Alias is not to be returned in the Worklist calls for the Queue, and not to be displayed in the Worklist for the Queue in Process Client.
Param1	Var	The System-Defined Name of the mapped Queue/System variable.
Type	Var	Type of the Mapped Queue/System variable. 3 — Integer 4 — Long 6 — Float 8 — Date 10 — Text
QueueId	Var	ID of the Queue for which the Alias has been defined.
Variable	WorkListConfigFields	NA
VariableId	Variable	Id of the variable.
VariableType	Variable	Types of Variable. S — System M — System-Modifiable Q/U — Queue/User-defined I — External Table
VariableName	Variable	Name of the variable.
DisplayName	Variable	Display name of variable.
MobileDisplay	Variable	Flag to indicate whether to display the variable on Mobile.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
26	WM_NO_MORE_DATA	No More Data
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.

WFSetVariableMapping

This API is used to set the Process Variables/ Aliases Mappings for specified Queues. This can be used to set Aliases for multiple Queues in a single call. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetVariableMapping_Input>
<Option>WFSetVariableMapping</Option>
<EngineName>ofcab</EngineName>
<SessionId>2081172709</SessionId>
<VarList>
<Var>
<ToReturn>Y</ToReturn>
<Alias>APPLICANT</Alias>
<QueueId>0</QueueId>
<Param1>VAR_STR1</Param1>
<Param1Type>10</Param1Type>
<Type1>V</Type1>
</Var>
<Var>
<ToReturn>Y</ToReturn>
<Alias>sfsda</Alias>
<QueueId>0</QueueId>
<Param1>VAR_INT8</Param1>
<Param1Type>3</Param1Type>
<Type1>V</Type1>
</Var>
</VarList>
</WFSetVariableMapping_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetVariableMapping
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
Alias	Var	Yes	Name of the Alias being defined.	NA

QueueId	Var	Yes	The ID of the Queue for which the Alias is being defined.	NA
ToReturn	Var	No	This Flag specifies whether the defined Alias is to be returned in the Worklist calls for the Queue, and displayed in the Worklist for the Queue in Process Client, or not.	Y — Yes, to be returned. N — No, not to be returned.
Param1	Var	No	System-Defined Name for the Queue/System Variable mapped to the Alias.	NA
Type1	Var	No	Type of the Variable mapped to the Alias.	NA
Param1Type	Var	No	Data Type of the Variable Mapped with the Alias.	3 — Integer 4 — Long 6 — Float 8 — Date 10 — Text
ProcessDefId	Var	No	ProcessDef id of the process on which alias is defined	NA
ActionComments	Var	No	Action comments entered by the user	NA
DisplayFlag	Var	No	Flag which determines where Alias has to be displayed on mobile	Y/N
SearchFlag	Var	No	Searching enabled/ disbaled on Alias	Y/N
SortFlag	Var	No	Sorting enabled/disbaled on Alias	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetVariableMapping_Input>
<Option>WFSetVariableMapping</Option>
<EngineName>ofcab</EngineName>
<SessionId>2081172709</SessionId>
<VarList>
<Var>
<ToReturn>Y</ToReturn>
<Alias>APPLICANT</Alias>
<QueueId>0</QueueId>
<Param1>VAR_STR1</Param1>
<Param1Type>10</Param1Type>
<Type1>V</Type1>
</Var>
<Var>
<ToReturn>Y</ToReturn>
<Alias>sfsda</Alias>
<QueueId>0</QueueId>
<Param1>VAR_INT8</Param1>
<Param1Type>3</Param1Type>
<Type1>V</Type1>
</Var>
</VarList>
</WFSetVariableMapping_Input>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessDefId	Var	ProcessDef id of the process on which alias is defined
Variable	FailedList	System defined name of the variable to be given in alias

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
830	WFS_NORIGHTS	No Rights to perform the operation specified.

User management

The user management calls allow fetching the user list applicable for a particular cabinet, getting user properties, audit details, its diversion state, and queue details.

This section includes a detailed description of the following calls:

API	Description
WFGetGroupList	This API is used to fetch a list of all the groups defined in the system
WMGetUserList	This API is used to fetch the users based on specified criteria.
WFGetUserProperty	This API is used to fetch the properties of a specified User.
WFGetPreferences	This API is used to fetch the preferences set for a specified User.
WFSetPreferences	This API is used to set the preferences for a specified User.
WFGetUsersForRole	This API is used to fetch a list of all the users who are assigned a specified role in the system.
WFGetUserWorkAudit	This API is used to fetch details of the work-audit set for the specified user.
WFSetUserWorkAudit	This API is used to set Work-Audit for a User processing workitems on a specific activity in a specified process.
WFGetDiversionforUser	This API is used to fetch the details about the diversion for a particular user.
WFSetDiversionforUser	This API is used to set a diversion for a specific user for a particular time period. The workitems assigned to the source user, during the specified date range, will be diverted to the target user. Even the current workitems assigned to the source user are diverted.
WFGetReminder	This API is used to fetch the list of reminders set for the currently logged-in User, whose session id is specified in the input.
WFSetReminders	This API is used to set reminders for user(s)/group(s).
WFGetUserQueueDetails	This API is used to fetch the Queue Details for the specified user.

WFGetGroupList

This API is used to fetch a list of all the groups defined in the system. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetGroupList_Input>
<Option>WFGetGroupList</Option>
<EngineName>iBPS5SP2PostgresSrvrCab</EngineName>
<SessionID>537939924</SessionID>
<ZipBuffer>N</ZipBuffer>
<RightFlag>010100</RightFlag>
<BatchInfo>
<OrderBy>2</OrderBy>
<NoOfRecordsToFetch>6</NoOfRecordsToFetch>
<Prefix />
<SortOrder>A</SortOrder>
<LastValue>MDM Users</LastValue>
<LastIndex>8</LastIndex>
</BatchInfo>
<DataFlag>N</DataFlag>
<Filter>
<ProfileId />
<ReturnProfileAssociation>N</ReturnProfileAssociation>
<ReturnOwnerInfo>Y</ReturnOwnerInfo>
</Filter>
<UseStdParser>Y</UseStdParser>
<ReturnAssociatedObjectType>Y</ReturnAssociatedObjectType>
<ReturnObjectTypeUserProfileCount>Y</ReturnObjectTypeUserProfileCount>
<ReturnParentGroupInfo>Y</ReturnParentGroupInfo>
<ReturnTotalCount>Y</ReturnTotalCount>
<ExcludedSearchGroupConfig>N</ExcludedSearchGroupConfig>
</WFGetGroupList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetGroupList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

SortOrder	BatchInfo	No	Order in which the Group List is to be sorted.	A — ascending D — descending
OrderBy	BatchInfo	No	Field on which the Group List to be returned is to be sorted	1 — GroupIndex 2 — GroupName 3 — CreationDateTime 4 — ExpiryDateTime
LastValue	BatchInfo	No	Value of the Order By Field for the last group fetched in the previous batch.	NA
LastIndex	BatchInfo	No	ID of the last group fetched in the previous batch.	NA
NoOfRecordsToFetch	BatchInfo	No	No. of groups to be fetched per batch.	NA
ReturnProfileAssociation	Filter	No	Flag for returning profile Association	Y/N
ProfileId	Filter	No	Profile Id of the group	NA
Prefix	BatchInfo	No	Prefix used as Search Filter	NA
TaskId	Root	No	Task Id for setting default user for Case Preferences	NA
ProcessDefId	Root	No	ProcessDef id of the case in which default user has to be set	NA
ActivityId	Root	No	Activity id of the case in which	NA

			default user has to be set	
ReturnAssociatedObjectType	Root	No	This tag signifies whether the list of distinct object types directly associated with group is to be returned for each group .	Y or N
ReturnObjectTypeUserProfileCount	Root	No	This tag signifies whether the count for associated users, profiles, distinct object types, and roles to be returned for each group.	Y or N
ExcludedSearchGroupConfig	Root	No	This tag signifies whether the groups which are associated with any Advanced search configuration is to be excluded or not.	Y or N
ReturnOwnerInfo	Root	No	This tag signifies whether the information of the owner is to be returned or not	Y or N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetGroupList_Output>
<Option>WFGetGroupList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<GroupList>
<GroupInfo>
<ID>10</ID>
<GroupName>OTMS Users</GroupName>
<CreationDateTime>2021-08-04 13:27:53</CreationDateTime>
<ExpiryDateTIme>2121-08-04 13:27:53.686251</ExpiryDateTIme>
<Privileges>0000000000000000</Privileges>
<OwnerId>1</OwnerId>
<Comment />
<GroupType>G</GroupType>
<MainGroupID>0</MainGroupID>
<PersonalName>Supervisor</PersonalName>
<ParentGroupID>1</ParentGroupID>
<ParentGroupName>Everyone</ParentGroupName>
<ObjectTypes />
<AssociatedUserCount>5</AssociatedUserCount>
<AssociatedProfileCount>0</AssociatedProfileCount>
<AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
</GroupInfo>
<GroupInfo>
<ID>6</ID>
<GroupName>Process Designer</GroupName>
<CreationDateTime>2021-08-04 13:27:53</CreationDateTime>
<ExpiryDateTIme>2121-08-04 13:27:53.606212</ExpiryDateTIme>
<Privileges>0000000000000000</Privileges>
<OwnerId>1</OwnerId>
<Comment />
<GroupType>G</GroupType>
```

```
<MainGroupID>0</MainGroupID>
<ParentGroupID>1</ParentGroupID>
<ParentGroupName>Everyone</ParentGroupName>
<ObjectTypes />
<AssociatedUserCount>8</AssociatedUserCount>
<AssociatedProfileCount>0</AssociatedProfileCount>
<AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
</GroupInfo>
<GroupInfo>
<ID>3</ID>
<GroupName>Public</GroupName>
<CreationDateTime>2021-08-04 13:23:47</CreationDateTime>
<ExpiryDateTIme>2121-08-04 13:23:47.998998</ExpiryDateTIme>
<Privileges>0000000000000000</Privileges>
<OwnerId>1</OwnerId>
<Comment />
<GroupType>G</GroupType>
<MainGroupID>0</MainGroupID>
<ParentGroupID>0</ParentGroupID>
<ObjectTypes>
<ObjectType>Process Management</ObjectType>
<ObjectType>Local Project Management</ObjectType>
<ObjectType>PMWeb Menu Management</ObjectType>
</ObjectTypes>
<AssociatedUserCount>8</AssociatedUserCount>
<AssociatedProfileCount>0</AssociatedProfileCount>
<AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
</GroupInfo>
<GroupInfo>
<ID>4</ID>
<GroupName>Second Factor Immune</GroupName>
<CreationDateTime>2021-08-04 13:23:47</CreationDateTime>
<ExpiryDateTIme>2121-08-04 13:23:47.998998</ExpiryDateTIme>
<Privileges>0000000000000000</Privileges>
<OwnerId>1</OwnerId>
<Comment />
<GroupType>G</GroupType>
<MainGroupID>0</MainGroupID>
<ParentGroupID>0</ParentGroupID>
<ObjectTypes />
<AssociatedUserCount>4</AssociatedUserCount>
<AssociatedProfileCount>1</AssociatedProfileCount>
<AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
</GroupInfo>
<GroupInfo>
<ID>2</ID>
<GroupName>Supervisors</GroupName>
<CreationDateTime>2021-08-04 13:23:47</CreationDateTime>
<ExpiryDateTIme>2121-08-04 13:23:47.998998</ExpiryDateTIme>
<Privileges>1111111111111111</Privileges>
<OwnerId>1</OwnerId>
<Comment />
<GroupType>G</GroupType>
<MainGroupID>0</MainGroupID>
<ParentGroupID>0</ParentGroupID>
<ObjectTypes />
<AssociatedUserCount>9</AssociatedUserCount>
```

```
<AssociatedProfileCount>0</AssociatedProfileCount>
<AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
</GroupInfo>
</GroupList>
<TotalCount>11</TotalCount>
<RetrievedCount>5</RetrievedCount>
</WFGetGroupList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ID	GroupInfo	It is the id of the group.
GroupName	GroupInfo	It is the group name.
CreationDateTime	GroupInfo	It is the creation date/ time of the group.
ExpiryDateTime	GroupInfo	It is the expiry date/time of the group.
Privileges	GroupInfo	It is the privileges assigned for the group.
OwnerID	GroupInfo	It is the owner name of the group.
GroupType	GroupInfo	It is the type of group.
Comment	GroupInfo	It is the group description.
MainGroupID	GroupInfo	It is the main group id of the current group.
RetrievedCount	Root	It is the number of groups retrieved in the current batch.
TotalCount	Root	It is the total number of groups defined in the system.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
18	WM_NO_MORE_DATA	No more records.
11	WM_INVALID_SESSION_HANDLE	Invalid session

15	WM_INVALID_FILTER	The requested filter is invalid.

WMGetUserList

This API is used to fetch the users based on the specified criteria. You can view the XML input and output parameters for the API. There is a list of errors and warning that can occur in the execution.

Sample request:

```
<WMGetUserList_Input>
    <Option>WMGetUserList</Option>
    <EngineName>iBPS5SP2PostgresSrvrCab</EngineName>
    <SessionID>771122223</SessionID>
    <DataFlag>N</DataFlag>
    <Filter>
        <ProfileId />
        <ReturnProfileAssociation>N</ReturnProfileAssociation>
    </Filter>
    <Prefix />
    <IncludeInactiveUserFlag>Y</IncludeInactiveUserFlag>
    <ReturnAssociatedObjectType>Y</ReturnAssociatedObjectType>
    <ReturnObjectTypeGroupProfileCount>Y</ReturnObjectTypeGroupProfileCount>
    <GroupFilter>
        <GroupID>5</GroupID>
        <GroupID>11</GroupID>
    </GroupFilter>
    <ExpertiseIdFilter>
        <ExpertiseId>1</ExpertiseId>
        <ExpertiseId>2</ExpertiseId>
    </ExpertiseIdFilter>
    <UserCountFlag>Y</UserCountFlag>
    <ReturnExpiryAndCreationInfo>Y</ReturnExpiryAndCreationInfo>
    <AdditionalInfo>Y</AdditionalInfo>
    <BatchInfo>
        <SortOrder>A</SortOrder>
        <LastValue />
        <LastIndex />
        <OrderBy>2</OrderBy>
        <NoOfRecordsToFetch>20</NoOfRecordsToFetch>
    </BatchInfo>
</WMGetUserList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMGetUserList

EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session ID.	NA
DataFlag	Root	No	Flag indicating whether the count of workitems in user's 'My Queue', Count of System Assigned Workitems, and the Workitems processed by each of the corresponding users is to be returned.	Y — Yes, My Queue count, System Assignments Count and Processes Workitems count is to be returned for each user. N — No, Do not return the count data.
Process DefinitionId	Filter	No	From Date part of the Date range for which the Load History is to be fetched.	N/A
QueueID	Filter	No	ID of the Queue whose workitems the users are or will be processing.	NA
ActivityID	Filter	No	ID of the Workstep whose workitems the users are or will be processing.	NA
From	Date Range	No	From Date for the Date Range to fetch the users who during that period processed the workitems.	NA
To	Date Range	No	To Date for the Date Range to fetch the users who during that period processed the workitems.	NA
SortOrder	Batch Info	No	Order in which the Users List is to be sorted.	A — Ascending D — Descending
OrderBy	Batch Info	No	The field on the basis of which the Users List is to be sorted.	2 — User Name 3 — Personal Name and User Index
LastValue	Batch Info	No	Value of the Order By Field of the last user returned in the previous batch.	NA
NoOfRecords ToFetch	Batch Info	No	The number of users to fetch per batch.	NA

GroupID	Root	No	ID of the Group to which the User belongs.	NA
RightFlag	Root	No	This Flag indicates whether to first fetch the list of Queues based on the rights associated with it for the currently logged-in user. These are the Read/Modify/Create/Delete/Annotate rights that may be associated with the Queue while assigning the Queue Management Rights. And then based on that fetch the list of users in those Queues.	000000 — No Rights Checking Else a valid RMCDA string.
Prefix	Root	No	Prefix with which the User Name Starts. Wild-Card Char (*) is allowed in this field.	NA
TaskId	Root	No	TaskId — Getting user list for task.	NA
LastIndex	Batch Info	No	Index of the last user of the batch.	NA
Subordinates Only	Root	No	Subordinates of the user.	Y — Yes N — No
status	Root	No	Status of user.	AI
IsAdmin	Root	No	Flag for Admin user.	Y — Yes N — No
ReturnProfile Association	Root	No	Flag for returning profile association details.	Y — Yes N — No
ExpertiseId	Root	No	User Expertise ID.	NA
Rating	Root	No	User Expertise Rating.	NA
Operator	Root	No	Operator for expertise rating.	1 — = 2 — >> 3 — < 4 — >= 5 — <= 6 — <>
Return Associated ObjectType	Root	No	Signifies whether the object types associated with users are to be returned for each user.	Y — Yes N — No

ReturnObject TypeGroup Profile Count	Root	No	Indicates whether the count of associated groups, profiles, and distinct object types for each user is to be returned or not.	Y — Yes N — No
UserCount Flag	Root	No	Indicates whether the count of users is to be returned or not.	Y — Yes N — No
ReturnExpiry AndCreation Info	Root	No	Indicates whether the details of user creatio and expiry is to be returned or not. These details are returned in CreatedDateTime, ExpiryDateTime, and PasswordExpiryTime in output.	Y — Yes N — No
GroupFilter	Root	No	This tag can be used to filter the user list based on multiple GroupId values passed under GroupFilter tag. If GroupFilter is provided, Output will contain only the list of users which are part of groups specified under GroupFilter.	NA
ExpertiseId Filter	Root	No	This tag can be used to filter the user list based on certain ExpertiseId (skills) passed under ExpertiseIdFilter . If ExpertiseIdFilter is provided, Output will contain only the list of users which are having expertise on the expertiseid provided in filter.	NA
LockedUsers	Root	No	This tag indicates whether only the locked users' data is to be returned or not.	Y — Yes N — No
UsersToBe Expired InFiveDays	Root	No	This tag indicates that the UserList will be returned for users which are going to be expired in next five days.	Y — Yes N — No

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WMGetUserList_Output>
    <Option>WMGetUserList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <UserList>
        <UserInfo>
            <ID>3</ID>
            <Name>badmin</Name>
            <PersonalName>New User</PersonalName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes>
                <ObjectType>Process Management</ObjectType>
                <ObjectType>Local Project Management</ObjectType>
                <ObjectType>PMWeb Menu Management</ObjectType>
                <ObjectType>Queue Management</ObjectType>
                <ObjectType>Project Management</ObjectType>
                <ObjectType>Criteria Management</ObjectType>
            </ObjectTypes>
            <AssociatedGroupCount>9</AssociatedGroupCount>
            <AssociatedProfileCount>1</AssociatedProfileCount>
            <AssociatedObjectTypeCount>6</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>6</ID>
            <Name>Of_Sys_User</Name>
            <PersonalName>New User</PersonalName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <ExpiryDateTime>2121-10-14 18:20:54</ExpiryDateTime>
            <CreatedDateTime>2021-10-14 18:20:54</CreatedDateTime>
            <PasswordExpiryTime>2121-10-14 18:20:54</PasswordExpiryTime>
            <UserLocked>N</UserLocked>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes />
            <AssociatedGroupCount>2</AssociatedGroupCount>
            <AssociatedProfileCount>0</AssociatedProfileCount>
            <AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>4</ID>
```

```
            <Name>padmin</Name>
            <PersonalName>New User</PersonalName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes>
                <ObjectType>Queue Management</ObjectType>
                <ObjectType>Process Management</ObjectType>
                <ObjectType>Project Management</ObjectType>
                <ObjectType>Local Project Management</ObjectType>
            </ObjectTypes>
            <AssociatedGroupCount>5</AssociatedGroupCount>
            <AssociatedProfileCount>0</AssociatedProfileCount>
            <AssociatedObjectTypeCount>4</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>7</ID>
            <Name>ravi</Name>
            <PersonalName>New User</PersonalName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes>
                <ObjectType>Process Management</ObjectType>
                <ObjectType>Process Client Worklist</ObjectType>
                <ObjectType>Local Project Management</ObjectType>
                <ObjectType>PMWeb Menu Management</ObjectType>
                <ObjectType>Queue Management</ObjectType>
                <ObjectType>Project Management</ObjectType>
            </ObjectTypes>
            <AssociatedGroupCount>11</AssociatedGroupCount>
            <AssociatedProfileCount>1</AssociatedProfileCount>
            <AssociatedObjectTypeCount>6</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>9</ID>
            <Name>raviraj</Name>
            <PersonalName>New User</PersonalName>
            <email>ravi.mewara@newgen.co.in</email>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes>
                <ObjectType>Process Client Worklist</ObjectType>
                <ObjectType>Local Project Management</ObjectType>
                <ObjectType>PMWeb Menu Management</ObjectType>
                <ObjectType>Process Management</ObjectType>
                <ObjectType>Queue Management</ObjectType>
                <ObjectType>Project Management</ObjectType>
            </ObjectTypes>
            <AssociatedGroupCount>12</AssociatedGroupCount>
            <AssociatedProfileCount>1</AssociatedProfileCount>
            <AssociatedObjectTypeCount>6</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>10</ID>
            <Name>satyam</Name>
```

```
            <PersonalName>New User</PersonalName>
            <email>satyanarayan.sharma@newgen.co.in</email>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes>
                <ObjectType>Process Management</ObjectType>
                <ObjectType>Deployment Manager Management</ObjectType>
                <ObjectType>Process Client Worklist</ObjectType>
                <ObjectType>Advance Search</ObjectType>
                <ObjectType>Local Project Management</ObjectType>
                <ObjectType>ORM General Rights</ObjectType>
                <ObjectType>PMWeb Menu Management</ObjectType>
                <ObjectType>Queue Management</ObjectType>
                <ObjectType>Project Management</ObjectType>
                <ObjectType>MDM General Rights</ObjectType>
                <ObjectType>Criteria Management</ObjectType>
                <ObjectType>Transport Management</ObjectType>
                <ObjectType>Process Client Menu</ObjectType>
            </ObjectTypes>
            <AssociatedGroupCount>12</AssociatedGroupCount>
            <AssociatedProfileCount>0</AssociatedProfileCount>
            <AssociatedObjectTypeCount>13</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>1</ID>
            <Name>Supervisor</Name>
            <PersonalName>Supervisor</PersonalName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes />
            <AssociatedGroupCount>5</AssociatedGroupCount>
            <AssociatedProfileCount>0</AssociatedProfileCount>
            <AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>2</ID>
            <Name>Supervisor2</Name>
            <PersonalName>Supervisor2</PersonalName>
            <FamilyName>Checker</FamilyName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes>
                <ObjectType>Process Management</ObjectType>
            </ObjectTypes>
            <AssociatedGroupCount>5</AssociatedGroupCount>
            <AssociatedProfileCount>0</AssociatedProfileCount>
            <AssociatedObjectTypeCount>1</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>8</ID>
            <Name>testuser</Name>
            <PersonalName>New User</PersonalName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
```

```
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes />
            <AssociatedGroupCount>3</AssociatedGroupCount>
            <AssociatedProfileCount>0</AssociatedProfileCount>
            <AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
        </UserInfo>
        <UserInfo>
            <ID>5</ID>
            <Name>user</Name>
            <PersonalName>New User</PersonalName>
            <Status>I</Status>
            <UserAlive>Y</UserAlive>
            <QueueAssignment>T</QueueAssignment>
            <ObjectTypes />
            <AssociatedGroupCount>2</AssociatedGroupCount>
            <AssociatedProfileCount>0</AssociatedProfileCount>
            <AssociatedObjectTypeCount>0</AssociatedObjectTypeCount>
        </UserInfo>
    </UserList>
    <TotalCount>10</TotalCount>
    <RetrievedCount>10</RetrievedCount>
    <UserCount>
        <AllUserCount>9</AllUserCount>
        <ActiveUserCount>9</ActiveUserCount>
        <UserLockedCount>1</UserLockedCount>
        <AboutToExpireUsersCount>0</AboutToExpireUsersCount>
    </UserCount>
</WMGetUserList_Output>
```

Response parameters description:

Parameter	Parent Tag	Description
Option	Root	Refer to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ID	UserInfo	ID of the User.
Name	UserInfo	Name of the User. For example, if the report type is selected as W, then this tag specifies the date when the week end.
PersonalName	UserInfo	Personal Name of the User.
FamilyName	UserInfo	Family Name of the User.
email	UserInfo	Email Address of the User.
status	AI	PersonalQueueStatus
PersonalQueueStatus	Data	No. of workitems in the User's My Queue. This is returned only if the DataFlag is specified as Y in the input XML.

SystemAssignedWorkItems	Data	No. of workitems System Assigned to the user. This is returned only if the DataFlag is specified as Y in the input XML.
WorkItemsProcessed	Data	No. of workitems processes by the user in the specified Date Range. This is returned only if the DataFlag is specified as Y in the input XML.
AverageRating	UserInfo	Average expertise rating of the user.
QueueAssignment	UserInfo	P — Permanent assignment T — Temporary assignment
AssignedTillDate	UserInfo	AssignedTill to a profile.
AssociatedWithProfile	UserInfo	Y — if ReturnProfileAssociation is 'Y' N — if ReturnProfileAssociation is 'N'
DefaultAssociation	UserInfo	Default Profile of user.
TotalCount	Root	Total no. of Users who match the criteria specified.
RetrievedCount	Root	No. of Users returned in the current batch.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant Value	Message
18	WM_NO_MORE_DATA	No more records.
11	WM_INVALID_SESSION_HANDLE	Invalid session handle.

WFGetUserProperty

This API is used to fetch the properties of a specified User. You can view the XML input and output parameters, for the API.

There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetUserProperty_Input>
<Option>WFGetUserProperty</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
<UserId>3</UserId>
</WFGetUserProperty_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetUserProperty
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
UserID	Root	No	ID of the User whose properties are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetUserProperty_Output>
<Option>WFGetUserProperty</Option>
<Exception>
<MainCode>0</MainCode>
```

```
</Exception>
<UserInfo>
<Name>DataEntryOperator</Name>
<PersonalName>DataEntryOperator</PersonalName>
<CreatedDateTime>2007-02-12 19:30:25.547</CreatedDateTime>
<ExpiryDateTime>2008-02-12 23:59:59.0</ExpiryDateTime>
</UserInfo>
</WFGetUserProperty_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	UserInfo	Name of he User.
PersonalName	UserInfo	Personal Name of the User.
FamilyName	UserInfo	Family Name of the User.
email	UserInfo	Email Address of the User.
CreatedDateTime	UserInfo	Date Time on which the User was created.
ExpiryDateTime	UserInfo	Date Time on which the User will expire.
Comment	UserInfo	Comment associated with the user.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	The specified filter is invalid
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFGetPreferences

This API is used to fetch the preferences set for a specified User. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetPreferences_Input>
<Option>WFGetPreferences</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1929979315</SessionId>
<ZipBuffer>N</ZipBuffer>
<ObjectName>1@2</ObjectName>
<ObjectType>W</ObjectType>
</WFGetPreferences_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetPreferences
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ObjectID	Root	No	ID of the object whose preferences set for the specified user have to be fetched.	NA
ObjectName	Root	No	Name of the object whose preferences set for the specified user have to be fetched.	NA
ObjectType	Root	No	Type of the object whose preferences set for the specified user have to be fetched.	Q — For saved queries. G — General settings. D — Search document settings. F — Folder search settings. W — WorkDesk

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetPreferences_Output>
<Option>WFGetPreferences</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Preferences></Preferences>
</WFGetPreferences_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ObjectId	Preference	ID of the Object whose preference has been set for a specified user.
ObjectName	Preference	Name of the Object whose preference has been set for a specified user.
ObjectType	Preference	Type of the Object whose preference has been set for a specified user. Q — For saved queries G — General settings D — Search document settings F — Folder search settings. W — WorkDesk

NotifyByEmail	Preference	Whether to notify the user by email or not.
Data	Preference	Data associated with the Object.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.

WFSetPreferences

This API is used to set the preferences for a specified User. You can view the XML input and output parameters, for the API.

There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetPreferences_Input>
<Option>WFSetPreferences</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1929979315</SessionId>
<OperationFlag>U</OperationFlag>
<ObjectInfo>
<ObjectID>1</ObjectID>
<ObjectName>1@2</ObjectName>
<ObjectType>W</ObjectType>
<Data>
<Width>1024</Width>
<Height>740</Height>
<Right>717</Right>
<Left>304</Left>
</Data>
</ObjectInfo>
</WFSetPreferences_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetPreferences
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id.	NA
OperationFlag	Root	Yes	It is the operation flag to define the user's action on database.	I — Inserts a Preference setting of the specified object for the user. U — Updates a Preference setting of the specified object for the user. D — Deletes a Preference setting of the specified object for the user.
ObjectID	ObjectInfo	Yes	ID of the Object for which the operation is specified.	NA
ObjectName	ObjectInfo	Yes	Name of the Object for which the operation is specified.	NA
ObjectType	ObjectInfo	Yes	Type of the Object for which the operation is specified.	Q — For saved queries G — General settings D — Search document settings F — Folder search settings. W — WorkDesk
NotifyByEmail	Root	No	Whether to notify the User by Email or not.	Y — Yes N — No
Data	Root	No	It is the actual data to be saved in user preference. Any Data can be specified in this tag, and it will be saved in the same format as specified in the Tag.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetPreferences_Output>
<Option>WFSetPreferences</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Preference>
<ObjectId>1</ObjectId>
</Preference>
</WFSetPreferences_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ObjectId	Preferences	It is the object id for which the settings are changed.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
201	WF_INVALID_CONTEXT_DATA	Invalid Context Data
104	WF_INVALID_KEY	Invalid Key

11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

WFGetUsersForRole

This API is used to fetch a list of all the users who are assigned a specified role in the system. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetUsersForRole_Input>
<Option>WFGetUsersForRole</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
<ObjectName>Manager</ObjectName>
<ObjectType>U</ObjectType>
<RoleName>manager</RoleName>
</WFGetUsersForRole_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetUsersForRole
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ObjectName	Root	Yes	GroupName or Username depending on the object Type.	NA
ObjectType	Root	Yes	Type of the Object, whether User or Group.	U — for User G — for group Default is U.
RoleName	Root	Yes	The RoleName specified e.g. INITIATOR	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetUsersForRole_Output>
<Option>WFGetUsersForRole</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Users>
<User>
<UserIndex>3</UserIndex>
<UserName>DataEntryOperator</UserName>
<GroupIndex>1</GroupIndex>
<GroupName>Everyone</GroupName>
</User>
<User>
<UserIndex>6</UserIndex>
<UserName>ExceptionResolver</UserName>
<GroupIndex>1</GroupIndex>
<GroupName>Everyone</GroupName>
</User>
<User>
<UserIndex>2</UserIndex>
<UserName>Japneet</UserName>
<GroupIndex>1</GroupIndex>
<GroupName>Everyone</GroupName>
</User>
<User>
<UserIndex>1</UserIndex>
<UserName>Supervisor</UserName>
<GroupIndex>1</GroupIndex>
<GroupName>Everyone</GroupName>
</User>
</Users>
</WFGetUsersForRole_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
UserIndex	User	ID of the User performing the specified User.
UserName	User	Name of the User performing the specified User.
GroupIndex	User	ID of the Group to which the User belongs.
GroupName	User	Name of the Group to which the User belongs.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	Invalid Filter

WFGetUserWorkAudit

This API is used to fetch details of the work-audit set for the specified user. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetUserWorkAudit_Input>
<Option>WFGetUserWorkAudit</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
<UserId>3</UserId>
</WFGetUserWorkAudit_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetUserWorkAudit
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
UserID	Root	Yes	ID of the user for whom the wok-audit details are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetUserWorkAudit_Output>
<Option>WFGetUserWorkAudit</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<UserList>
<UserInfo>
<AuditorUserId>2</AuditorUserId>
<AuditorUsername>Japneet</AuditorUsername>
<PercentageAudit>10</PercentageAudit>
<ActivityId>2</ActivityId>
<ActivityName>Data Entry</ActivityName>
<ProcessDefinitionId>1</ProcessDefinitionId>
<ProcessName>AccOpening</ProcessName>
<Version>1</Version>
</UserInfo>
```

```
</UserList>
</WFGetUserWorkAudit_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
AuditorUserId	UserInfo	ID of the auditor user.
AuditorUserName	UserInfo	It specifies the name of the Auditor.
PercentageAudit	UserInfo	Percentage of workitem processed by the auditee user that are to be audited.
ActivityId	UserInfo	ID of the activity on which the processed workitems are to be audited.
ActivityName	UserInfo	Name of the activity on which the processed workitems are to be audited.
ProcessName	UserInfo	Name of the process that contains the activity on which audit is to take place.
ProcessDefinitionId	UserInfo	ID of the Process that contains the activity on which audit is to take place.
Version	UserInfo	Version No. of the process.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	Invalid filter
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFSetUserWorkAudit

This API is used to set Work-Audit for a User processing workitems on a specific activity in a specified process. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFSetUserWorkAudit_Input>
<Option>WFSetUserWorkAudit</Option>
<EngineName>shubh</EngineName>
<SessionId>-1202638152</SessionId>
<UserList>
<UserInfo>
<UserId>7</UserId>
<UserName>test</UserName>
<AuditUserId>6</AuditUserId>
<AuditUserName>shubh</AuditUserName>
<ActivityId>2</ActivityId>
<ActivityName>Workdesk_2</ActivityName>
<ProcessDefinitionId>7</ProcessDefinitionId>
</UserInfo>
</UserList>
<Operation>D</Operation>
</WFSetUserWorkAudit_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetUserWorkAudit
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
Operation	Root	No	This specifies the operation to be performed for the work-audit, i.e. whether to add a work-audit, update it or delete an already set work-audit.	I — Add a new work-audit U — Update D — Delete
UserID	UserInfo	No	ID of the User whose work is to be audited.	NA

UserName	UserInfo	No	Name of the User whose work is to be audited	NA
AuditorUserId	UserInfo	No	ID of the user who will audit the work.	NA
AuditorUserName	UserInfo	No	Name of the user who will audit the work.	NA
PercentageAudit	UserInfo	No	Percentage of workitems processed by the auditee user that will be audited by the auditor.	NA
ActivityId	UserInfo	No	ID of the activity on which the workitems processed will be audited.	NA
ActivityName	UserInfo	No	Name of the activity on which the workitems processed will be audited.	NA
ProcessDefintionID	UserInfo	No	ID of the Process that contains the activity.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFSetUserWorkAudit_Output>
```

```
<Option>WFSetUserWorkAudit</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<FailedList />
</WFSetUserWorkAudit_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	It specifies the error code specified by WAPI.
UserID	FailedInfo	ID of the User for whom the work-audit setting failed.
AuditorUserID	FailedInfo	Id of the Auditor User specified.
ActivityID	FailedInfo	ID of the Activity for which the Audit setting failed.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed.

WFGetDiversionforUser

This API is used to fetch the details about the diversion for a particular user. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetDiversionforUser_Input>
<Option>WFGetDiversionforUser</Option>
```

```
<EngineName>ofcab</EngineName>
<SessionId>-1658511567</SessionId>
<UserId>3</UserId>
</WFGetDiversionforUser_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetDiversionforUser
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
UserId	Root	Yes	ID User for whom the Diversion details are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetDiversionforUser_Output>
<Option>WFGetDiversionforUser</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<UserList>
<UserInfo>
<AssignedToUserId>2</AssignedToUserId>
```

```
<Username>DataEntryOperator</Username>
<AssignedToUserName>Japneet</AssignedToUserName>
<From>2007-03-23 00:00:00.0</From>
<To>2007-03-29 23:23:59.0</To>
<CurrentWorkitemsFlag>Y</CurrentWorkitemsFlag>
</UserInfo>
</UserList>
</WFGetDiversionforUser_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
UserName	UserInfo	Name of the Source User for whom the Diversion is set.
AssignedToUserId	UserInfo	ID of the Target user to whom the workitems are to be diverted to, during the diversion date range.
AssignedToUserName	UserInfo	Name of the Target user to whom the workitems are to be diverted to, during the diversion date range.
From	UserInfo	From Date from when the diversion will be set.
To	UserInfo	To Date till when the diversion will be set.
CurrentWorkitemsFlag	UserInfo	Flag indicating whether the currently assigned workitems are also to be deleted.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.

WFSetDiversionforUser

This API is used to set a diversion for a specific user for a particular time period. The workitems assigned to the source user, during the specified date range, will be diverted to the target user. Even the current workitems assigned to the source user are diverted. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetDiversionforUser_Input>
<Option>WFSetDiversionforUser</Option>
<EngineName>ibps25ora</EngineName>
<SessionID>862937824</SessionID>
<ZipBuffer>N</ZipBuffer>
<RightFlag>010100</RightFlag>
<UserId>27</UserId>
<Operation>I</Operation>
<AssignedToUserId>47</AssignedToUserId>
<From>2017-11-3 00:00:00</From>
<To>2017-11-3 23:59:59</To>
<CurrentWorkitemsFlag>Y</CurrentWorkitemsFlag>
<DivertedBackWorkItemsFlag>Y</DivertedBackWorkItemsFlag>
</WFSetDiversionforUser_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetDiversionforUser
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
UserID	Root	Yes	ID of the Source User for whom the Diversion is to be set.	NA

From	Root	Yes	It is the time period for which the workitems are to be diverted.	NA
To	Root	Yes	It is the time period until which the workitems are to be diverted.	NA
Operation	Root	No	Flag indicating whether the diversion is to be set or removed.	I/U — To set the diversion. D — To remove an existing Diversion.
AssignedToUserID	Root	No	ID of the Target user to whom the workitems are to be diverted during the specified date range.	NA
CurrentWorkItemsFlag	Root	No	Flag indicating whether the workitems currently assigned to the source user are also to be diverted to be diverted to the Target User.	Y — Yes N — No
DivertedBackWorkItemsFlag	Root	No	Flag indicates that if the workitem is diverted back.	Y — Yes N — No

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetDiversionforUser_Output>
<Option>WFSetDiversionforUser</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFSetDiversionforUser_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
UserID	FailedInfo	It is the Id of the User for whom diversion setting failed.
AssignedToUserID	FailedInfo	It is the Id of the Target User for whom diversion setting failed.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
13	WM_INVALID_SOURCE_USER	Invalid Source User
14	WM_INVALID_TARGET_USER	Invalid Target User
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed.
961	WM_TARGET_USER_ALREADY_DIVERTED	Diversion is already set for target user
962	WM_DIVERTED_USER_ALREADY_TARGET	Diversion is already set for the requested user

WFGetReminder

This API is used to fetch the list of reminders set for the currently logged-in User, whose session id is specified in the input. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetReminders_Input>
<Option>WFGetReminders</Option>
```

```
<EngineName>ofcab</EngineName>
<SessionId>1257653973</SessionId>
<CurrentDateTime>2007-7-09 10:00</CurrentDateTime>
<SortOrder>A</SortOrder>
<NoOfRecordsToFetch>20</NoOfRecordsToFetch>
<DataFlag>N</DataFlag>
<OrderBy>2</OrderBy>
</WFGetReminder_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetReminder
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
OrderBy	Root	No	This is the sort on field, based on which the list of reminders for the specified user are to be sorted.	1 — Order By Reminder Index 2 — Order by Reminder Date Time If this is not specified, the system by default sorts the list based on Reminder Index.
SortOrder	Root	No	It is the sorting order for the reminders.	A — Ascending D — Descending
LastValue	Root	No	The value of the Order By field of the last reminder fetched in the previous batch.	NA
LastIndex	Root	No	ID of the last reminder fetched in the previous batch.	NA
DataFlag	Root	No	This flag indicates whether to fetch only the count of reminders set for the specified user, or to fetch the	Y — Also fetch the Data corresponding to the reminders. N — Simply return the count of reminders set.

			data corresponding to the reminders as well.	
NoOfRecordsToFetch	Root	No	No. of reminders to be fetched per batch.	NA
CurrentDatetime	Root	No	Current Date Time until when the reminders are to be fetched. You may not specify any value for this Tag, as the system automatically calculates the System Date Time for this value.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetReminder_Output>
<Option>WFGetReminder</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Count>1</Count>
<Reminders>
<Reminder>
<RemIndex>1</RemIndex>
<ProcessInstanceId>BANK-0000000001-ACC</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<RemDateTime>2007-07-09 10:00:00.0</RemDateTime>
<Comment>Please work on this ASAP</Comment>
```

```
<SetByUser>Supervisor</SetByUser>
</Reminder>
</Reminders>
<RetrievedCount>1</RetrievedCount>
<TotalCount>1</TotalCount>
</WFGetReminder_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	Total number of reminders for the login user.
RemIndex	Reminder	ID of the Reminder.
ProcessInstanceId	Reminder	Process Instance ID of the workitem on which the reminder is set.
WorkItemId	Reminder	ID of the workitem on which the reminder is set.
RemDateTime	Reminder	Date-Time on which the user is to be reminded.
SetByUser	Reminder	ID of the User who has set the reminder.
RetrievedCount	Root	No. of reminders retrieved in the current batch.
TotalCount	Root	No. of Reminders set for the User. If it is equal to the retrieved count, then it indicates that there are no more reminders in the list, otherwise it will be one greater than the batch size, it indicates that there are more reminders to be fetched in the next batch.
Comment	Reminder	Comment set on the reminder.
MailFlag	Reminder	Flag indicating whether the user is to be reminded through email or not.
FaxFlag	Reminder	Flag indicating whether to send fax as a reminder or not.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session

18	WM_NO_MORE_DATA	No records are available
15	WM_INVALID_FILTER	Invalid filter specified
400	WF_OPERATION_FAILED	Operation failed

WFSetReminders

This API is used to set reminders for user(s)/group(s). You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

In case of an immediate reminder is disabled:

```
<?xml version="1.0"?>
<WFSetReminder_Input>
<Option>WFSetReminders</Option>
<EngineName>ofcab</EngineName>
<SessionId>750244030</SessionId>
<Reminders>
<Reminder>
<RemIndex></RemIndex>
<UserIndex>1</UserIndex>
<ReminderDateTime>2007-07-09 10:00:00.000</ReminderDateTime>
<Comment>Please work on this ASAP</Comment>
<UserType>U</UserType>
<ProcessInstanceId>BANK-0000000001-ACC</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ImmediateReminder>N</ImmediateReminder>
</Reminder>
</Reminders>
</WFSetReminder_Input>
```

In case of an immediate reminder is enabled:

```
<?xml version="1.0"?>
<WFSetReminder_Input>
<Option>WFSetReminders</Option>
<EngineName>ofcab</EngineName>
<SessionId>750244030</SessionId>
<Reminders>
<Reminder>
<RemIndex></RemIndex>
<UserIndex>1</UserIndex>
<ReminderDateTime>2007-07-09 10:00:00.000</ReminderDateTime>
<Comment>Please work on this ASAP</Comment>
<UserType>U</UserType>
```

```
<ProcessInstanceId>BANK-0000000001-ACC</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ImmediateReminder>Y</ImmediateReminder>
</Reminder>
</Reminders>
</WFSetReminder_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetReminders
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
UserIndex	Reminder	Yes	ID of the User for whom the reminder is being set.	NA
ReminderDateTime	Reminder	Yes	Date-Time on which the user is to be reminded.	NA
Comment	Reminder	No	The message to be displayed as reminder to the user.	NA
UserType	Reminder	No	Type of User/Group to be reminded.	U — User G — Group
ProcessInstanceId	Reminder	Yes	Process Instance ID of the workitem for which the reminder is being set.	NA
WorkItemId	Reminder	Yes	ID of the workitem for which the reminder is being set.	NA
Operation	Root	No	Operation Specifying whether a Reminder is to be added or deleted.	I — Add a new reminder D — Delete an existing reminder
MailFlag	Reminder	No	Flag indicating whether the user is to be reminded through Email or not.	NA

FaxFlag	Reminder	No	Flag indicating whether the user is to be reminded through Fax or not.	NA
InformMode	Reminder	No	Mode by which Information will be sent	NA
ReminderType	Reminder	No	It is the Type of the reminder	NA
RemIndex	Reminder	No	Index of the Reminder. To be given if the Operation type is specified as 'D'.	NA
TaskId	Reminder	No	Id of the task.	NA
SubTaskId	Reminder	No	Id of the sub-task associated with task.	NA
ImmediateReminder	Reminder	No	Flag indicating whether the user is using immediate Reminder or not.	Y — using Immediate Reminder N — Not using Immediate Reminder (normal reminder)

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetReminder_Output>
<Option>WFSetReminder</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFSetReminder_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Reminder Failed
823	WFS_REMFAIL	Invalid target user
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	Filter is invalid

WFGetUserQueueDetails

This API is used to fetch the Queue Details for the specified user. You can view the XML input and output parameters, for the API.

There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetUserQueueDetails_Input>
<Option>WFGetUserQueueDetails</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
```

```
<UserId>1</UserId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<ActivityId></ActivityId>
<DataFlag>Y</DataFlag>
</WFGetUserQueueDetails_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetUserQueueDetails
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Root	No	ID of the Process for which Queues are to be fetched.	NA
ActivityId	Root	No	ID of the Activity which is to be contained in the Queues to be fetched.	NA
UserID	Root	Yes	ID of the user for whom the Queue Details are to be fetched.	NA
DataFlag	Root	No	Flag indicating whether data like TotalWorkItems, TotalWorkItemsAssigned, etc is to be fetched for the Queues in which the specified user is included.	Y — Yes N — No

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetUserQueueDetails_Output>
<Option>WFGetUserQueueDetails</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<UserQueueList>
<UserQueueInfo>
<QueueName>AccOpening_Data Entry</QueueName>
<UserName>Supervisor</UserName>
<TotalWorkItems>10</TotalWorkItems>
<TotalUsers>6</TotalUsers>
<TotalWorkItemsAssigned>0</TotalWorkItemsAssigned>
</UserQueueInfo>
<UserQueueInfo>
<QueueName>AccOpening_ExceptionResolution</QueueName>
<UserName>Supervisor</UserName>
<TotalWorkItems>3</TotalWorkItems>
<TotalUsers>6</TotalUsers>
<TotalWorkItemsAssigned>0</TotalWorkItemsAssigned>
</UserQueueInfo>
<UserQueueInfo>
<QueueName>AccOpening_Manager</QueueName>
<UserName>Supervisor</UserName>
<TotalWorkItems>1</TotalWorkItems>
<TotalUsers>6</TotalUsers>
<TotalWorkItemsAssigned>0</TotalWorkItemsAssigned>
</UserQueueInfo>
<UserQueueInfo>
<QueueName>AccOpening_Scanning</QueueName>
<UserName>Supervisor</UserName>
<TotalWorkItems>3</TotalWorkItems>
<TotalUsers>6</TotalUsers>
<TotalWorkItemsAssigned>1</TotalWorkItemsAssigned>
</UserQueueInfo>
</UserQueueList>
<TotalCount>4</TotalCount>
</WFGetUserQueueDetails_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TotalCount	Root	It is the total number of records that matched the criteria specified.
QueueName	UserQueueInfo	Name of the Queue.
UserName	UserQueueInfo	Name of the User.
TotalWorkItems	UserQueueInfo	Total no. of workitems in the Queue.
TotalUsers	UserQueueInfo	It is the total number of users in the queue.
TotalWorkItemsAssigned	UserQueueInfo	It is the total workitems assigned to the specified user in the queue.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	Invalid filter
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation failed.

Workitem functions

The workitem API calls provide workflow participants access to information about work to which they have been assigned. As described by the WFM Coalition reference model, a process consists of a set of activities connected in such a way to control the sequencing of application invocation. An activity is associated with one or more

applications to be invoked and also, during run time, is associated with the person(s) who has been assigned to do the work. Depending upon a WFM product's implementation, a workflow participant may be assigned one or more pieces of work at any one time.

Each piece of work assigned to a workflow participant is called a 'workitem' and the collection of all work items assigned to a workflow participant is called that workflow participant's 'worklist'.

This section includes the description of the following calls:

API	Description
WMCreateProcessInstance	This API is used to create a new Process Instance in the specified process. Please note that Process Instances can be created only in Enabled Processes.
WFUploadWorkItem	This API is used to create workitems, create their corresponding DMS folders in the underlying DMS, set workitem attribute variables, upload documents in the workitem folders and initiate workitems, all in a single call.
WMStartProcess	This API is used to start a specified Process Instance in the Process. A Process Instance will continue to lie on the Work-Introduction workstep unless it is started, after which it will start to flow in the Process.
WMFetchProcessInstanceAttributes	This API returns the Attributes/Data Variables and their related data corresponding to the specified Process Instance.
WMGetProcessInstanceAttributeValue	This API is used to return the value of a specified Attribute for a specified Process Instance.
WMAssignProcessInstanceAttribute	This API is used to assign a value to a specified Attribute of a Process Instance. You may use this API for setting a value of a single attribute. However incase of setting values of multiple attributes it is recommended to use WMAssignWorkItemAttributes API.
WMGetProcessInstance	This call returns details like state, priority level, process id, etc., corresponding to a specified Process Instance.
WMFetchProcessInstances	This API fetches a list of all the Process Instances in the underlying cabinet that match the specified criteria.

WMFetchProcessInstance	This API fetches a list of all the Process Instances in the underlying cabinet that match the specified criteria. This API is the same as WMFetchProcessInstances API.
WMFetchProcessInstanceState	This API returns the states that a specified Process Instance can acquire in the process.
WMFetchProcessInstanceStates	This API returns the states that a specified Process Instance can acquire in the process. This API is the same as WMFetchProcessInstanceState API.
WMChangeProcessInstanceState	This API is used to change the state of a specified process instance, to the new state specified in the call.
WMChangeProcessInstancesState	This API is used to change the state of Process Instances contained in the specified Process definition, to the new state specified in the call.
WMTerminateProcessInstance	This API is used to terminate a specified process instance.
WMTerminateProcessInstances	This API is used for terminating the process instances of the specified process.
WMAbortProcessInstances	This API aborts the set of process instances that correspond to the named process definition, regardless of its state. This command is for use in catastrophic circumstances where nothing except clearing the process away can be done.
WMFetchWorkList	This call returns the list of workitems in a specified Queue. It returns the list in batches the size of which can be specified in the input XML.
WFFetchWorkItemsWithLock	This call returns the list of workitems in a specified Queue, based on the specified filter criteria. Apart from returning the list of workitems it also locks those workitems for the user requesting the list. It returns the list in batches the size of which can be specified in the input XML.
WMFetchWorkItems	This call returns the list of workitems in a specified Queue. It returns the list in batches the size of which can be specified in the input XML.

WFFetchWorkItemCount	This API is used to fetch the total count of workitems in a specified Queue, or in the current User's My Queue, or the total count of workitems in all the Queues of which the currently logged-in user is a member.
WMGetWorkItem	This API is used to obtain the record corresponding to the specified workitem, along with locking the workitem for the user requesting it.
WFGetNextUnlockedWorkItem	This API is used to fetch the next available unlocked workitem in a FIFO Queue. Apart from returning the workitem, this API also locks the workitem for the user requesting it.
WFGetWorkitemData	This API is used to fetch the data for a specified workitem
WFGetWorkitemDataExt	This API is used to both lock the specified workitem as well as fetch complete data for a workitem, in one go. You can specify the Process Instance ID and workitem ID for the workitem that is to be locked and for which the Data is to be fetched. You may also specify the ID and Type of the Queue, from which the next available workitem and its corresponding data are to be fetched, based on the specified Last Process Instance ID and Workitem ID. However in case the Last Process Instance ID and Workitem ID are not specified, this API returns the first available workitem and its data in the specified Queue.
WMFetchWorkItemAttributes	This call returns all the attributes of workitem.
WMFetchWorkItemAttribute	This call returns the attribute of a specified workitem depending upon the filter criterion specified. If however no filter is specified then, the API behaves in the same way as WMFetchWorkItemAttributes, in which case all the attributes associated with the workitem and their corresponding types and data are returned.
WMGetWorkItemAttributeValue	This API fetches the current value and type of the specified attribute for a specified workitem.
WMAssignWorkItemAttribute	This API is used to assign a value to an attribute of a workitem. It can be used to specify a value for only one attribute at a time.

WMAssignWorkItemAttributes	This API is used to assign values to attributes of a workitem. It can be used to specify values for multiple workitems at a time.
WFSetAttributes	This API is used to assign values to attributes of a workitem. It can be used to specify values for multiple workitems at a time.
WFGetExternalData	This API is used to fetch the external data regarding To-Do Lists, Exceptions, Document Types, Scan Tool, Form, Actions, etc for a specified workitem, or fetch the External Tool Definitions for a specific Activity in a specified Process. This API can be used to fetch the External Data associated with an activity of a Process, in which case you need to specify the Process ID and the Activity ID, for which the data is to be fetched. This API can also be used to fetch the External Data information for a workitem, in which case you also need to specify the Process Instance ID and the Workitem ID of that workitem.
WFSetExternalData	This API is used to set the External Data corresponding to To-Do List Status, Exceptions, etc, for a specified workitem.
WMUnlockWorkItem	This API is used to unlock a currently locked workitem.
WMFetchWorkitemStates	This call returns the all the states defined for the workitem. The valid states of a workitem may be Completed, Running, Not Started, Terminated, Aborted, Suspended, or can be any other User defined State, defined in the Process Modeler.
WMChangeWorkitemState	This call changes the state of the named workitem. This command is defined to allow a workitem to be changed temporarily to a specific state such as Completed, Running, Not Started, Terminated, Aborted, Suspended or custom States.
WMCompleteWorkItem	This API is used to specify to the NewgenONE Engine that the specified workitem has been completed, and is ready to be routed to the next step.
WFCompleteWithSet	This API allows the set the attributes of multiple workitems and mark them completed in a single call.

WFGetLinkedWorkitems	This API is used to fetch all the workitems that are linked to a specified workitem.
WFLinkWorkitem	This API is used to link multiple workitems with a selected workitem.
WFReferWorkItem	This API is used to refer a workitem to any specified user of the system. After referral, the workitem gets fixed assigned to the specified User, and is available in his 'My Queue'.
WFWithdrawWorkitem	This API is used to withdraw a workitem referred by a user. NewgenONE supports chained referrals, i.e. User A can refer to B, B can refer to C, and C can refer to D and so on. Thus once D completes the workitem, it comes back to C, and after C comes back to B and after B to A, and so on. Now any user in the chained referral can withdraw the workitem, in which case it comes back directly to the user withdrawing it.
WMReassignWorkItem	This API allows a workitem to be re-assigned to any other User of the Queue in which it currently lies. However if the scope of the currently logged-in user is ADMIN, i.e. the supervisory user has logged-in as an administrator into the system, like in case of Process Manager, then the workitem can be re-assigned to any other User of the System.
WMSearchWorkItems	This API is used to search for workitems based on the specified criteria. This API allows you to search for workitems across various versions of different processes.
WFSearchWorkItemList	This API is used to search for workitems based on the specified criteria. This API allows you to search for workitems across various versions of different processes.
WFGetWorkItemHistory	This API returns the History of Actions performed on the specified workitem.
WFDeleteWorkItem	This API is used to delete the specified workitem.
WMCreateChildWorkItem	This API is used to create the child of workitem.

WMFetchWorkItemCount	This API is used to fetch the total count of workitems in a specified Queue, or in the current User's My Queue, or the total count of workitems in all the Queues of which the currently logged-in user is a member.

WMCreateProcessInstance

This API is used to create a new Process Instance in the specified process. Please note that Process Instances can be created only in Enabled Processes. Incase of multiple Work-Introduction Type of worksteps defined in the Process, you may specify the activity id of the workstep in which you wish to create the Process Instance.

If however, the activity ID is not specified the system will internally create the Process Instance on the Primary Work-Introduction Workstep. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMCreateProcessInstance_Input>
<Option>WMCreateProcessInstance</Option>
<EngineName>ofcab</EngineName>
<SessionId>1601559629</SessionId>
<ProcessDefinitionID>1</ProcessDefinitionID>
<QueueId>1</QueueId>
</WMCreateProcessInstance_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMCreateProcessInstance
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

ProcessDefinitionID	Root	Yes	ID of the Process whose states is to be created.	NA
QueueId	Root	No	ID of the Work-Introduction Queue, from which the Instance is being created.	NA
ActivityId	Root	No	ID of the Work-Introduction Activity on which the Process Instance is being created.	NA
OmniService	Root	No	refers to the flag that shows the service from utility or external.	Y — PS N — External
VariantId	Root	No	Id of the variant of process.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMCreateProcessInstance_Output>
<Option>WMCreateProcessInstance</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstanceId>BANK-0000000022-ACC</ProcessInstanceId>
</WMCreateProcessInstance_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Root	Process Instance ID of the newly created Process Instance.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
502	WM_INVALID_PROCESS_DEFINITION	The process definition ID was not valid.

WFUploadWorkItem

This API is used to create workitems, create their corresponding DMS folders in the underlying DMS, set workitem attribute variables, upload documents in the workitem folders and initiate workitems, all in a single call. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFUploadWorkItem_Input>
<Option>WFUploadWorkItem</Option>
<EngineName>ibps6dec30</EngineName>
<SessionId>1201037483</SessionId>
<ProcessDefId>56</ProcessDefId>
<QueueId>145</QueueId>
<InitiateFromActivityId></InitiateFromActivityId>
<InitiateAlso>N</InitiateAlso>
<UserDefVarFlag>N</UserDefVarFlag>
<Attributes>
<Attribute UserDefinedName="Q_int">12</Attribute>
<Attribute UserDefinedName="Q_string">ravi</Attribute>
<Attribute UserDefinedName="Q_string2">raj</Attribute>
```

```
<Attribute UserDefinedName="ext_string">rr</Attribute>
<Attribute UserDefinedName="ext_int">22</Attribute>
<Attribute UserDefinedName="Q_Cmpny_complex">
<Attribute UserDefinedName="CmpnyName">name</Attribute>
<Attribute UserDefinedName="CmpnyLocation">lov</Attribute>
</Attribute>
</Attributes>
<IsWorkItemExtInfo>N</IsWorkItemExtInfo>
<VariantId>0</VariantId>
<Documents></Documents>
</WFUploadWorkItem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFUpload Workitem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefId	Root	Yes	ID of the Process in which the workitem is to be created/uploaded.	NA
QueueId	Root	No	Queue ID in which the workitem has to be introduced	NA
pdaFlag	Root	No	This flag indicates if the processdefid is to be taken from the queueID	NA
UserDefVar Flag	Root	No	This flag indicates if the values of the user-defined variables are to be uploaded.	N — The user-defined variables are not parsed Y — The user-defined variables are parsed also
PSFlag	Root	No	This flag indicates??	NA
DebugFlag	Root	No	This flag indicates if the logging id to be done or not.	Y — Logging is done N — Logging not done.

MoveRowTo History	Root	No	Flag indicates whether the workitem has to be moved to history or not. If given as yes, four child tags must be provided	Y/N
CSName	MoveRow ToHistory	No		NA
TableName	MoveRow ToHistory	No		NA
ImportDataId	MoveRow ToHistory	No		NA
ColumnString	MoveRow ToHistory	No		NA
InitiateAlso	Root	No	This flag indicates whether the workitem has to be initiated also or not.	Y — Initiate workitem N — Don't Initiate workitem
Synchronous Routing	Root	No	Flag to indicate whether workitem has to be routed synchronously irrespective of the fact that the server is running in synchronous mode or asynchronous mode.	Y — The workitem will be routed. N — The Workitem will not be routed automatically.
InitiateFrom ActivityId	Root	No	ID of the Work-Introduction workstep of the specified process, from which the workitem will be initiated in the Process. If this tag is omitted, then the system will initiate the workitem from the DEFAULT work-introduction workstep for the process.	NA
InitiateFrom ActivityName	Root	No	Name of the Work-Introduction workstep of the specified process, from which the workitem will be initiated in the Process.	NA

DataDef Name	Root	No	In case a Data Class has been associated with the Process as an External Table, then this Data Class gets associated with the Workitem Folders Created in the DMS. Hence, specify the Name of the DMS Data Class in this Tag, only in case a Data Class Table has been associated as an External Table in the Process	NA
Validation Required	Root	Yes	This tag is provided to support customizations. Currently, the system supports the addition of a specified value in a specified column in a specified external table. This Tag takes the input in the form: Table_Name char(21) Column_Name char(21) Value_To_Be_Updated char(25) The system will check to see if the value supplied in Value_To_Be_Updated exists in the specified Column_Name of the specified Table_Name. If the value does not exist it will add the value supplied, else it will return an error code of WM_CUSTOM_APPLICATION_ERROR_50 And an error that "Supplied Data Already Exists". This field is required only for specific customizations and can be ignored for normal use.	NA
Fields	Root	No	Name-Values of the Data Class Fields that are to be set for the Data Class. These are specified in the following format: Batch1 CHAR(25) Batch2 CHAR(25) Batchn CHAR(25) where Batch is of the following form: Variable CHAR(21) Variable-Value For example, ApplicantNameCHAR(21)AmitCHAR(25) LoanAmountCHAR(21)5000000CHAR(25)	NA

Documents	Root	No	Document-Name-ID list for all the documents that are already added to the Image Server, and need to be added to the workitems. This is specified in the following form: Batch1 CHAR(25) Batch2 CHAR(25) .....Batchn CHAR(25) where Batch is of the form DocName CHAR(21) ImageIndex CHAR(35) VolumeId CHAR(21) No.OfPages CHAR(21) DocumentSize CHAR(25) Eg. ResumeCHAR(21) 12CHAR(35)1CHAR(21)2CHAR(21)34567CHAR(25)	NA
Attributes	Root	No	Name-Values of the Attributes that are to be set. These are specified in the following format Batch1 CHAR(25) Batch2 CHAR(25) .....Batchn CHAR(25) where Batch is of the following form Variable-Name CHAR(21) Variable-Value For Example: ApplicantNameCHAR(21)AmitCHAR(25) LoanAmountCHAR(21)5000000CHAR(25)	NA
VariantId	Root	No	It refers to the variant id for which the variable list is to be fetched.	NA
Generate LogFlag	Root	No	Flag indicating whether the actions of creation and uploading the workitems have logged-in the Audit Trail or not.	NA
Attributes	Root	No	Pass all the attributes which are to be set for the newly created workitem under Attributes tag	NA
Attribute	Attributes	No	It refers to the Attribute which is to be set for the workitem. This tag is introduced to allow space in UserDefinedName.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFUploadWorkItem_Output>
<Option>WFUploadWorkItem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstanceId>JunitAssignWorkItem-0000000191-process</ProcessInstanceId>
<WorkStageId>1</WorkStageId>
<CreationDateTime>2017-10-12 15:57:02</CreationDateTime>
<FolderIndex>681</FolderIndex>
<InsertionOrderIdValues>
<InsertionOrderIdValue>
<HashId>3</HashId>
<InsertionOrderId>13</InsertionOrderId>
</InsertionOrderIdValue>
<InsertionOrderIdValue>
<HashId>2</HashId>
<InsertionOrderId>9</InsertionOrderId>
</InsertionOrderIdValue>
<InsertionOrderIdValue>
<HashId>1</HashId>
<InsertionOrderId>21</InsertionOrderId>
</InsertionOrderIdValue>
<InsertionOrderIdValue>
<HashId>6</HashId>
<InsertionOrderId>15</InsertionOrderId>
</InsertionOrderIdValue>
<InsertionOrderIdValue>
<HashId>5</HashId>
<InsertionOrderId>10</InsertionOrderId>
</InsertionOrderIdValue>
<InsertionOrderIdValue>
<HashId>4</HashId>
<InsertionOrderId>14</InsertionOrderId>
```

```
</InsertionOrderIdValue>
</InsertionOrderIdValues>
<Documents>
<Document>
<DocumentName>aadharCard.pdf</DocumentName>
<DocumentIndex>121</DocumentIndex>
<ISIndex>1</ISIndex>
</Document>
<Document>
<DocumentName>PAN.pdf</DocumentName>
<DocumentIndex>122</DocumentIndex>
<ISIndex>1</ISIndex>
</Document>
</Documents>
</WFUploadWorkItem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Root	ID of the newly created and uploaded Process Instance.
CreationDateTime	Root	Date-Time on which the Process Instance was created in the system.
FolderIndex	Root	ID of the DMS Folder created for the Process Instance.
WorkStageId	Root	Workstage at which the workitem is introduced
Documents	Root	Contains the documents details list for each of the documents which are provided in the input of the WFUploadWorkItem API.
Document	Documents	Contains the details of the individual document which are provided in the input to be associated with the workitem.
DocumentName	Document	Contains the document name provided in the input xml of API.
DocumentIndex	Document	Contains the document index generated after adding the document successfully in Omnidocs.
ISIndex	Document	Contains the ISIndex of the image server in which the document is added.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	Invalid Filter
903	WM_AMBIGUOUS_PROCESS_DEFINITION	Ambiguous Process Definition
2	WM_INVALID_ACTIVITY_DEFINITION	Invalid Activity Definition
19	WM_INSUFFICIENT_BUFFER_SIZE	Insufficient buffer Size
11	WM_INVALID_SESSION_HANDLE	Invalid Session

WMStartProcess

This API is used to start a specified Process Instance in the Process. A Process Instance will continue to lie on the Work-Introduction workstep unless it is started, after which it will start to flow in the Process. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMStartProcess
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID to be started/ initiated in the Process.	NA
WorkItemId	Root	No	It refers to the Id of WorkItem.	NA

SynchronousRouting	Root	No	It refers to the flag to show application server's running mode.	Y – Synchronous N – Asynchronous
OmniService	Root	No	refers to the flag that shows the service from utility or external.	Y – PS N – External
PSFlag	Root	No	Process Server Flag.	Y – PS N – Default
DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y – Write N – Not write

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

ProcessInstanceId	Root	Process Instance ID of the newly created Process Instance.
WorkitemId	Root	It refers to the id of workitem.
ActivityName	Root	Name of the Work-Introduction Activity on which the Process Instance is being created.
ActivityId	Root	ID of the Work-Introduction Activity on which the Process Instance is being created.
TargetActivityID	Root	ID of the Target Activity on which the Process Instance is being target.
TargetQueueID	Root	ID of the Target Queue on which the Process Instance is being target.
TargetQueueType	Root	Type of the Target Activity Queue on which the Process Instance is being target.
TargetProcessInstanced	Root	ID of the Target Process Instance.
TargetWorkitemId	Root	ID of the Target Process Instance's Workitem.
CompletionTime	Root	Time to complete workitem to end event.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed

4	WM_INVALID_PROCESS_INSTANCE	The activity instance ID was not valid.
2	WM_INVALID_PROCESS_DEFINITION	The process id in which the workitem is being created is invalid.
300	WF_NO_AUTHORIZATION	The user does not have the rights to create the workitem.

Input XML:

```
<?xml version="1.0"?>
<WMStartProcess_Input>
<Option>WMStartProcess</Option>
<EngineName>ofcab</EngineName>
<SessionId>1162940856</SessionId>
<ProcessInstanceID>BANK-0000000009-ACC</ProcessInstanceID>
</WMStartProcess_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMStartProcess_Output>
<Option>WMStartProcess</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstanceId>BANK-0000000009-ACC</ProcessInstanceId>
</WMStartProcess_Output>
```

WMFetchProcessInstanceAttributes

This API returns the Attributes/Data Variables and their related data corresponding to the specified Process Instance. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchProcessInstanceAttributes_Input>
<Option>WMFetchProcessInstanceAttributes</Option>
```

```
<EngineName>ofcab</EngineName>
<SessionID>528292443</SessionID>
<ProcessInstanceId>BANK-0000000005-ACC</ProcessInstanceId>
<Filter>
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
</WMFetchProcessInstanceAttributes_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessInstanceAttributes
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceID	Root	Yes	Process Instance ID whose Attributes is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessInstanceAttributes_Output>
<Option>WMFetchProcessInstanceAttributes</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attributes>
<Attribute>
<Name>AccountType</Name>
<Type>1310</Type>
<Length>1024</Length>
</Attribute>
<Attribute>
<Name>ApplicantName</Name>
<Type>1310</Type>
<Length>1024</Length>
</Attribute>
<RetrievedCount>39</RetrievedCount>
<Count>39</Count>
</WMFetchProcessInstanceAttributes_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	Attribute	It is the name of the data attribute.

Type	Attribute	Type of the data attributes. This is a numeric value, where each digit corresponds to some information about the attribute. 1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 - Queue 2 - External 3 - System 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 - Read 2 - Modify 3 – Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 - Integer 4 - Long 6 - Float 8 - Date 10 - Text
Length	Attribute	It is the length of the attribute.
Value	Attribute	It is the current value of the attribute
Count	Root	Total No. of Attributes for the specified Process Instance.
RetrievedCount	Root	The no. of attributes retrieved in the current batch.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No More Data
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation failed
7	WM_INVALID_ATTRIBUTE	Invalid Attribute
6	WM_INVALID_WORKITEM	Invalid Workitem

15	WM_INVALID_FILTER	Invalid query filter

WMGetProcessInstanceAttributeValue

This API is used to return the value of a specified Attribute for a specified Process Instance. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option*	Root	Yes	It refers to the case-sensitive call name.	WMGetProcessInstanceAttributeValue
EngineName*	Root	Yes	This is the Name of the cabinet.	NA
SessionID*	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceId*	Root	Yes	ID of the Process Instance corresponding to the workitem associated with the case and task.	NA
Name*	Root	Yes	Name of the Attribute whose value is to be fetched for the specified Process Instance.	NA
OmniService	Root	No	Flag to indicate whether the api is getting called internally from PS	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	Attribute	It is the name of the attribute.
Type	Attribute	It is the type of the attribute.
Length	Attribute	It is the length of the attribute
Value	Attribute	It is the value of the attribute
RetrievedCount	Root	Retrived Count of Attribute.(Same as count in this API)
Count	Root	Total Count of Attribute.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
7	WM_INVALID_ATTRIBUTE	Invalid Attribute
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
4	WM_INVALID_PROCESS_INSTANCE	The activity instance ID was not valid.
400	WF_OPERATION_FAILED	Operation failed

Input XML:

```
<?xml Version="1.0"?>
<WMGetProcessInstanceAttributeValue_Input>
<Option>WMGetProcessInstanceAttributeValue</Option>
<EngineName>ofcab</EngineName>
<SessionID>1769754629</SessionID>
<ProcessInstanceId>NGF-000000000001-FORMS</ProcessInstanceId>
<Name>Address</Name>
</WMGetProcessInstanceAttributeValue_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetProcessInstanceAttributeValue_Output>
<Option>WMGetProcessInstanceAttributeValue</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attributes>
<Attribute>
<Name>Address</Name>
<Type>1310</Type>
<Length>1024</Length>
</Attribute>
</Attributes>
<RetrievedCount>1</RetrievedCount>
<Count>1</Count>
</WMGetProcessInstanceAttributeValue_Output>
```

WMAssignProcessInstanceAttribute

This API is used to assign a value to a specified Attribute of a Process Instance. You may use this API for setting a value of a single attribute. However, in case of setting values of multiple attributes it is recommended to use WMAssignWorkItemAttributes API.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMAssignProcessInstanceAttribute_Input>
<Option>WMAssignProcessInstanceAttribute</Option>
<EngineName>ofcab</EngineName>
<SessionId>-2017064627</SessionId>
<ProcessInstanceId>BANK-0000000017-ACC</ProcessInstanceId>
<Attribute>
<Name>ITEMTYPE</Name>
<Type>10</Type>
<Length>0</Length>
<Value>F</Value>
</Attribute>
<DebugFlag>Y</DebugFlag>
<UserDefVarFlag>Y</UserDefVarFlag>
</WMAssignProcessInstanceAttribute_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMAssignProcessInstanceAttribute
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
Name	Attribute	Yes	It is the name of the attribute whose value is to be set	NA
Value	Attribute	No	It is the value of the attribute which is to be set	NA
Type	Attribute	Yes	Type of the attribute	3 - Integer 4 - Long 6 - Float 8 - Date 10 – Text
Length	Attribute	Yes	Length of attribute value	NA
ProcessInstanceId	Root	Yes	Process Instance ID of the Process Instance whose attributes are to be set.	NA
UserDefVarFlag	Root	No	Flag for Using DomParser (Y)or Newgen Parser(N)	Y/N
DebugFlag	Root	No	Flag for writing in Console.log	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMAssignProcessInstanceAttribute_Output>
<Option>WMAssignProcessInstanceAttribute</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMAssignProcessInstanceAttribute_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
9	WM_ATTRIBUTE_ASSIGNMENT_FAILED	Attribute Assignment Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	Invalid Filter

400	WF_OPERATION_FAILED	Operation failed
502	WM_INVALID_PROCESS_DEFINITION	The process definition ID was not valid.

WMGetProcessInstance

This call returns details like state, priority level, process id, etc., corresponding to a specified Process Instance. You can view the XML input and output parameters, which

have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option *	Root	Yes	It refers to the case-sensitive call name.	WMGetProcessInstance
EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceId*	Root	Yes	Process Instance ID of the Process Instance whose details are to be fetched.	NA
DebugFlag	Root	No	It indicates whether sql queries are to be printed in Query log	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Root	Error code specified by WAPI.
ProcessName	ProcessInstance	Name of the Process Instance.
ProcessInstanceId	ProcessInstance	ID of the Process Instance.
ProcessDefinitionId	ProcessInstance	ID of the Process to which the Process Instance belongs.
ProcessInstanceState	ProcessInstance	State if the Process Instance. It can be Completed, Running, Suspended, Aborted, Not Started, Terminated.
PriorityLevel	ProcessInstance	Priority Level of the Process Instance. 1 – Low 2 – Medium 3 – High 4 – Very High
Participant	Participants	Name of the User who has currently locked the process instance.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
4	WM_INVALID_PROCESS_INSTANCE	The process instance ID was not valid.

Input XML:

```
<WMGetProcessInstance_Input>
<Option>WMGetProcessInstance</Option>
<EngineName>ibps5oct</EngineName>
<SessionId>-1900872500</SessionId>
<ProcessInstanceId>case1-0000000005-process</ProcessInstanceId>
<DebugFlag>Y</DebugFlag>
</WMGetProcessInstance_Input>
```

Output XML:

```
<WMFetchProcessInstances_Input>
<Option>WMFetchProcessInstance</Option>
<EngineName>ibps5oct</EngineName>
<SessionId>-1900872500</SessionId>
<CountFlag>Y</CountFlag>
<DebugFlag>Y</DebugFlag>
<Filter>
<Type/>
<AttributeName/>
<Comparison/>
<FilterString/>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch/>
<LastValue/>
<Priority/>
</BatchInfo>
</WMFetchProcessInstances_Input>
```

WMFetchProcessInstances

This API fetches a list of all the Process Instances in the underlying cabinet that match the specified criteria. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchProcessInstances_Input>
<Option>WMFetchProcessInstances</Option>
<EngineName>ofcab</EngineName>
<SessionId>528292443</SessionId>
<CountFlag>Y</CountFlag>
```

```
<Filter>
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastValue></LastValue>
<Priority></Priority>
</BatchInfo>
</WMFetchProcessInstances_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessInstances
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
CountFlag	Filter	No	Flag indicating whether the total count of processes matching the specified criteria (if any) is also to be returned.	Y -- Yes N -- No
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, incase you need to specify a filter as Attribute = Value.
Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.
AttributeName	Filter	No	This tag is to be specified incase the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA
DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y -- Write N -- Not Write

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessInstance_Output>
<Option>WMFetchProcessInstance</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstances>
<Count>2</Count>
<ProcessInstance>
<ProcessName>AM-0000000001-Process</ProcessName>
<ProcessInstanceId>AM-0000000001-Process</ProcessInstanceId>
<ProcessDefinitionId>7</ProcessDefinitionId>
<State>Terminated</State>
<PriorityLevel>1</PriorityLevel>
<Participants></Participants>
</ProcessInstance>
<ProcessInstance>
<ProcessName>BANK-0000000012-ACC</ProcessName>
<ProcessInstanceId>BANK-0000000012-ACC</ProcessInstanceId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<State>Terminated</State>
<PriorityLevel>1</PriorityLevel>
<Participants></Participants>
</ProcessInstance>
</ProcessInstances>
<RetrievedCount>2</RetrievedCount>
</WMFetchProcessInstance_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	It is the total no. of processes that match the specified criteria.
ProcessInstanceId	ProcessInstance	Process Instance ID.
State	ProcessInstance	The State of the Process Instance. It can be Completed, Running, Suspended, Aborted, and Not Started.

PriorityLevel	ProcessInstance	Priority Level of the Process Instance. 1 – Low 2 – Medium 3 – High 4 – Very High
RetrievedCount	Root	No. of Processes retrieved in the current batch.
ProcessName	ProcessInstance	Name of the process instance.
ProcessDefinitionId	ProcessInstance	ID of the Process to which the Process Instance belongs.
Participant	Participants	User who has currently locked the Process Instance.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.
400	802	WF_OPERATION_FAILED	Invalid Parameter.
400	804	WF_OPERATION_FAILED	Operation Failed.

WMFetchProcessInstances

This API fetches a list of all the Process Instances in the underlying cabinet that match the specified criteria. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchProcessInstances_Input>
<Option>WMFetchProcessInstances</Option>
```

```
<EngineName>ofcab</EngineName>
<SessionId>528292443</SessionId>
<CountFlag>Y</CountFlag>
<Filter>
<Type></Type>
<AttributeName></AttributeName>
<Comparison></Comparison>
<FilterString></FilterString>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastValue></LastValue>
<Priority></Priority>
</BatchInfo>
</WMFetchProcessInstances_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessInstances
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
CountFlag	Filter	No	Flag indicating whether the total count of processes matching the specified criteria (if any) is also to be returned.	Y -- Yes N -- No
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, incase you need to specify a filter as Attribute = Value.
Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.
AttributeName	Filter	No	This tag is to be specified incase the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA
DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y -- Write N -- Not Write

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessInstance_Output>
<Option>WMFetchProcessInstance</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstances>
<Count>2</Count>
<ProcessInstance>
<ProcessName>AM-0000000001-Process</ProcessName>
<ProcessInstanceId>AM-0000000001-Process</ProcessInstanceId>
<ProcessDefinitionId>7</ProcessDefinitionId>
<State>Terminated</State>
<PriorityLevel>1</PriorityLevel>
<Participants></Participants>
</ProcessInstance>
<ProcessInstance>
<ProcessName>BANK-0000000012-ACC</ProcessName>
<ProcessInstanceId>BANK-0000000012-ACC</ProcessInstanceId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<State>Terminated</State>
<PriorityLevel>1</PriorityLevel>
<Participants></Participants>
</ProcessInstance>
</ProcessInstances>
<RetrievedCount>2</RetrievedCount>
</WMFetchProcessInstance_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	Root	It is the total no. of processes that match the specified criteria.
ProcessInstanceId	ProcessInstance	Process Instance ID.
State	ProcessInstance	The State of the Process Instance. It can be Completed, Running, Suspended, Aborted, and Not Started.

PriorityLevel	ProcessInstance	Priority Level of the Process Instance. 1 – Low 2 – Medium 3 – High 4 – Very High
RetrievedCount	Root	No. of Processes retrieved in the current batch.
ProcessName	ProcessInstance	Name of the process instance.
ProcessDefinitionId	ProcessInstance	ID of the Process to which the Process Instance belongs.
Participant	Participants	User who has currently locked the Process Instance.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.
400	802	WF_OPERATION_FAILED	Invalid Parameter.
400	804	WF_OPERATION_FAILED	Operation Failed.

WMFetchProcessInstanceState

This API returns the states that a specified Process Instance can acquire in the process.

Sample request:

```
<?xml Version="1.0"?>
<WMFetchProcessInstanceStates_Input>
<Option>WMFetchProcessInstanceStates</Option>
<EngineName>ofcab</EngineName>
<SessionID>528292443</SessionID>
<ProcessInstanceId>AM-0000000003-Process</ProcessInstanceId>
</WMFetchProcessInstanceStates_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessInstanceState
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceID	Root	Yes	Process Instance ID whose states are to be fetched.	NA
CountFlag	Root	No	Flag indicating whether the Total count of states is to be returned or not.	Y – Yes N - No
Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, incase you need to specify a filter as Attribute = Value.

Comparision	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.
AttributeName	Filter	No	This tag is to be specified incase the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA
NoOfRecordsToFetch	BatchInfo	No	No. of States to be fetched per batch.	NA
LastValue	BatchInfo	No	The last state returned in the previous batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchProcessInstanceState_Output>
<Option>WMFetchProcessInstanceState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstanceStates>
<ProcessInstanceState>Aborted</ProcessInstanceState>
<ProcessInstanceState>Completed</ProcessInstanceState>
<ProcessInstanceState>NotStarted</ProcessInstanceState>
<ProcessInstanceState>Running</ProcessInstanceState>
<ProcessInstanceState>Suspended</ProcessInstanceState>
<ProcessInstanceState>Terminated</ProcessInstanceState>
</ProcessInstanceStates>
<RetrievedCount>6</RetrievedCount>
</WMFetchProcessInstanceState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceState	ProcessInstanceStates	Process Instance State.
Count	Root	Total no. of Process Instance States.
RetrievedCount	Root	Total no. of Process Instance States retrieved in the current batch

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	Invalid Filter
11	WM_INVALID_SESSION_HANDLE	Invalid session.
12	WM_INVALID_QUERY_HANDLE	WM_INVALID_QUERY_HANDLE
18	WM_NO_MORE_DATA	No more records

WMFetchProcessInstanceStates

This API returns the states that a specified Process Instance can acquire in the process. This API is the same as WMFetchProcessInstanceState API.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchProcessInstanceStates
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceID	Root	Yes	Process Instance ID whose states are to be fetched.	NA

CountFlag	Root	No	Flag indicating whether the Total count of states is to be returned or not.	Y – Yes N - No
Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, incase you need to specify a filter as Attribute = Value.
Comparision	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.

AttributeName	Filter	No	This tag is to be specified incase the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA
FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

NoOfRecordsToFetch	BatchInfo	No	No. of States to be fetched per batch.	NA
LastValue	BatchInfo	No	The last state returned in the previous batch.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceState	ProcessInstanceStates	Process Instance State.
Count	Root	Total no. of Process Instance States.
RetrievedCount	Root	Total no. of Process Instance States retrieved in the current batch

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	Invalid Filter
11	WM_INVALID_SESSION_HANDLE	Invalid session
12	WM_INVALID_QUERY_HANDLE	WM_INVALID_QUERY_HANDLE
18	WM_NO_MORE_DATA	No more records

Input XML:

```
<?xml Version="1.0"?>
<WMFetchProcessInstanceStates_Input>
<Option>WMFetchProcessInstanceState</Option>
<EngineName>ofcab</EngineName>
<SessionID>528292443</SessionID>
<ProcessInstanceId>AM-0000000003-Process</ProcessInstanceId>
</WMFetchProcessInstanceStates_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMFetchProcessInstanceState_Output>
<Option>WMFetchProcessInstanceState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstanceStates>
<ProcessInstanceState>Aborted</ProcessInstanceState>
<ProcessInstanceState>Completed</ProcessInstanceState>
<ProcessInstanceState>NotStarted</ProcessInstanceState>
<ProcessInstanceState>Running</ProcessInstanceState>
<ProcessInstanceState>Suspended</ProcessInstanceState>
<ProcessInstanceState>Terminated</ProcessInstanceState>
</ProcessInstanceStates>
<RetrievedCount>6</RetrievedCount>
</WMFetchProcessInstanceState_Output>
```

WMChangeProcessInstanceState

This API is used to change the state of a specified process instance, to the new state specified in the call. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml Version="1.0"?>
<WMChangeProcessInstanceState_Input>
<Option>WMChangeProcessInstanceState</Option>
<EngineName>ofcab</EngineName>
<SessionID>158809397</SessionID>
<ProcessInstanceID>WF-0000000001-Process</ProcessInstanceID>
<ProcessInstanceState>SUSPENDED</ProcessInstanceState>
</WMChangeProcessInstanceState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMChangeProcessInstanceState
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceID	Root	Yes	ID of the Process Instance whose state is to be changed.	NA
ProcessInstanceState	Root	Yes	State which needs to be set for the specified Process Instance.	Completed Running Suspended Aborted Not Started Terminated

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMChangeProcessInstanceState_Output>
<Option>WMChangeProcessInstanceState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMChangeProcessInstanceState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Constant value	Message
2	WM_INVALID_PROCESS_DEFINITION	The process definition ID was not valid.
11	WM_INVALID_SESSION_HANDLE	Invalid session
9	WM_INVALID_STATE	Invalid state.
10	WM_TRANSITION_NOT_ALLOWED	The requested state transition is not allowed.
400	WF_OPERATION_FAILED	The requested operation failed.

WMChangeProcessInstancesState

This API is used to change the state of Process Instances contained in the specified Process definition, to the new state specified in the call. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml Version="1.0"?>
<WMChangeProcessInstancesState_Input>
<Option>WMChangeProcessInstancesState</Option>
<EngineName>ofcab</EngineName>
<SessionId>158809397</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<ProcessInstanceState>SUSPENDED</ProcessInstanceState>
</WMChangeProcessInstancesState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMChangeProcessInstancesState
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionId	Root	Yes	ID of the Process whose Process Instances states are to be changed.	NA
ProcessInstanceState	Root	Yes	State that is to be set	Completed Running Suspended Aborted Not Started Terminated

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMChangeProcessInstancesState_Output>
<Option>WMChangeProcessInstancesState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMChangeProcessInstancesState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
4	WM_INVALID_PROCESS_INSTANCE	The activity instance ID was not valid.
9	WM_INVALID_STATE	Invalid state.
10	WM_TRANSITION_NOT_ALLOWED	The requested state transition is not allowed.

WMTerminateProcessInstance

This API is used to terminate a specified process instance. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option *	Root	Yes	It refers to the case-sensitive call name.	WMTerminateProcessInstance
EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceID*	Root	Yes	Process Instance ID to be terminated.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session.
4	WM_INVALID_PROCESS_INSTANCE	The activity instance ID was not valid.

Input XML:

```
<?xml version="1.0"?>
<WMTerminateProcessInstance_Input>
<Option>WMTerminateProcessInstance</Option>
<EngineName>ofcab</EngineName>
<SessionID>-204064972</SessionID>
<ProcessInstanceID>AM-0000000001-Process</ProcessInstanceID>
</WMTerminateProcessInstance_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMTerminateProcessInstance_Output>
<Option>WMTerminateProcessInstance</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMTerminateProcessInstance_Output>
```

WMTerminateProcessInstances

This API is used for terminating the process instances of the specified process. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option *	Root	Yes	It refers to the case-sensitive call name.	WMTerminateProcessInstances
EngineName *	Root	Yes	This is the Name of the cabinet	NA
SessionID *	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionId*	Root	Yes	ID of the Process whose instance are to be Terminated	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

Input XML:

```
<?xml Version="1.0"?>
<WMTerminateProcessInstances_Input>
<Option>WMTerminateProcessInstances</Option>
<EngineName></EngineName>
<SessionId></SessionId>
<ProcessDefinitionId></ProcessDefinitionId>
</WMTerminateProcessInstances_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMTerminateProcessInstances_Output>
<Option>WMTerminateProcessInstances</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMTerminateProcessInstances_Output>
```

WMAbortProcessInstances

This API aborts the set of process instances that correspond to the named process definition, regardless of its state. This command is for use in catastrophic circumstances where nothing except clearing the process away can be done. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WMAbortProcessInstances_Input>
<Option>WMAbortProcessInstances</Option>
<EngineName>ibps5oct</EngineName>
<SessionId>-1871735617</SessionId>
<ProcessDefinitionId>81</ProcessDefinitionId>
</WMAbortProcessInstances_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	No	It refers to the case-sensitive call name.	WMAbortProcessInstances
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user session id	NA
ProcessDefinitionId	Root	Yes	It refers to the id of the process definition	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WMAbortProcessInstances_Output>
<Option>WMAbortProcessInstances</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMAbortProcessInstances_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

WMFetchWorkList

This call returns the list of WorkItems in a specified Queue. It returns the list in batches the size of which can be specified in the input XML. Hence, the programmer using this API should call it in a loop until the call returns the error exception WM_NO_MORE_DATA. This indicates that the entire list of workitems that meet the specified criteria has been returned.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option *	Root	Yes	It refers to the case-sensitive call name.	WMFetchWorkList

EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged-in user's session id.	NA
CountFlag	Root	No	This flag indicates whether the total count of workitems that meet the specified criteria is to be returned or not.	Y – Yes, returns the total count of workitems. N – No, do not return the total count.
OrderBy	Root	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, etc. The list can also be sorted on the Mapped Process Variables/ Aliases, for which the values to be specified starts from 101.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 - IntroductionDateTime 17 - Status 18 - CreatedDateTime Above 100 – Alias Basically, you need to keep adding 100 to the order in which the Aliases are returned for the Queue. For example, if the 1st Alias returned is LoanAmount, 2nd is LoanType, then to sort on Loan Amount, specify 101. Similarly to sort on LoanType specify 102, and so on.

SortOrder	Root	No	This is the order in which the workitems are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D.
NoOfRecordsToFetch	BatchInfo	No	This is the batch size information in terms of the no. of workitems to be fetched per batch.	NA
LastWorkItem	BatchInfo	No	This is the Workitem ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastValue	BatchInfo	No	It is the value of the Sort Order By field for the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastProcessInstance	BatchInfo	No	This is the Process Instance ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA

DataFlag	Root	No	This flag indicates whether the workitem data is to be returned or not.	Y – Yes, return Workitem Data also. N – No, do not return Workitem Data.
QueueId	Root	No	The ID of the Queue, whose workitems are to be fetched.	Specify the ID, of the Queue for which the workitems are to be fetched. However, if you wish to get the workitems in any user's My Queue, then specify the QueueId as 0 and specify the Q_UserId in the Filter Tag, as the id of the user for whom you wish to get the workitems in his 'My Queue'. Example: <Filter> <Type>256</Type> <Comparison>0</Comparison> <FilterString>Q_UserId='2'</FilterString> <Length>0</Length> </Filter>

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 in case you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String Any value between 0 and 255, in case you need to specify a filter as Attribute=Value.
Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.
AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA
MyQueueFlag	Root	No	Flag is 'Y' if MyQueue Workitems are to fetched	Y/N
PagingFlag	Root	No	Flag is 'Y' if paging is enabled through webdesktop.ini	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Instrument	The Process Instance ID of the workitem fetched.
WorkitemName	Instrument	The Name of the workitem fetched.
RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.
RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised

LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.
CreatedByUserName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.
WorkitemState	Instrument	State of the workitem fetched 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete
EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	Name of the user to whom the workitem is currently assigned.
WorkitemID	Instrument	The ID of the workitem fetched.

QueueName	Instrument	Name of the Queue to which the workitem belongs.
AssignmentType	Instrument	Current Assignment Type for the workitem S – Shared F – Fixed E – Referred
ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueId	Instrument	ID of the Queue to which the workitem belongs.
Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
Referredby	Instrument	Name of the user who referred the workitem.
Referredto	Instrument	Name of the user to whom the workitem has been referred to.
Name	Instrument\Data\QueueData	Name of the attribute variable for the workitem.
Value	Instrument\Data\QueueData	Value of the attribute variable for the workitem.

RetrievedCount	Root	No. of workitems retrieved in the current Call. This is dependent on the batch size indicated in the input XML
Count	Root	The total No. of workitems that actually meet the specified criteria.
WorkitemCount	Root	Count of Workitem
AliasProcessDefId	Root	If ProcessAlias=Y in webdesktop.ini then AliasProcessDefId is returned with processdefId of process in Myqueue with Alias defined. If MyQueue has more than 1 process workitem then AliasProcessDefid is not returned.
CalendarName	Instrument	Returnes the current calendar name which is set for that specific workitem either through the process (default calendar) or either by entry settings or by customcode.
SecondaryDBFlag	Instrument	This flag will signify whether workitem is present in Primary cabinet or Secondary cabinet. Possible Values : Y and N

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	Invalid Filter
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA.	No more records
400	WF_OPERATION_FAILED	Operation failed

Input XML:

```
<?xml version="1.0"?>
<WMFetchWorkList_Input>
<Option>WMFetchWorkList</Option>
<EngineName>ofcab</EngineName>
<SessionId>1338058054</SessionId>
<QueueId>0</QueueId>
<Filter>
<Type>256</Type>
<Comparison>0</Comparison>
<FilterString>Q_UserId = '2' and QUEUETYPE <>N'I'


        </FilterString>
<Length>0</Length>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastWorkItem></LastWorkItem>
<LastValue></LastValue>
<LastProcessInstance></LastProcessInstance>
<SortOrder></SortOrder>
<OrderBy></OrderBy>
</BatchInfo>
<DataFlag>Y</DataFlag>
<CountFlag>Y</CountFlag>
</WMFetchWorkList_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMFetchWorkList_Output>
<Option>WMFetchWorkList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Instruments>
<Instrument>
<ProcessInstanceId>AM-003-Process</ProcessInstanceId>
<WorkItemName>AM-003-Process</WorkItemName>
<RouteId>9</RouteId>
<RouteName>AMy</RouteName>
<WorkStageId>2</WorkStageId>
<ActivityName>Custom1</ActivityName>
<PriorityLevel>1</PriorityLevel>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>Y</LockStatus>
<LockedByUserName>DataEntryOperator</LockedByUserName


            <ExpiryDateTime></ExpiryDateTime>
<CreatedByUserName>Manager</CreatedByUserName>
<CreationDateTime></CreationDateTime>
<WorkitemState>RUNNING</WorkitemState>
```

```
<CheckListCompleteFlag>Y</CheckListCompleteFlag>
<EntryDateTime></EntryDateTime>
<LockedTime>2007-03-28 12:24:52.327</LockedTime>
<IntroductionDateTime></IntroductionDateTime>
<IntroducedBy>Manager</IntroducedBy>
<AssignedTo>DataEntryOperator</AssignedTo>
<WorkItemId>1</WorkItemId>
<QueueName>Japneet's MyQueue</QueueName>
<QueueType>F</QueueType>
<QueueId>56</QueueId>
<AssignmentType>F


                <AssignmentType>
<ProcessInstanceState>2</ProcessInstanceState>
<Status></Status>
<Turnaroundtime></Turnaroundtime>
<Referredby></Referredby>
<Referredto></Referredto>
<Data>
<QueueData>
<Name>a</Name>
<Value>10</Value>
</QueueData>
<QueueData>
<Name>b</Name>
<Value>20</Value>
</QueueData>
</Data>
<CalendarName></CalendarName>
</Instrument>
</Instruments>
<RetrievedCount></RetrievedCount>
<Count></Count>
</WMFetchWorkList_Output>
```

WFFetchWorkItemsWithLock

This call returns the list of workitems in a specified Queue, based on the specified filter criteria. Apart from returning the list of workitems it also locks those workitems for the user requesting the list. It returns the list in batches the size of which can be specified in the input XML. Hence the programmer using this API must call it in a loop until the call returns the error exception WM_NO_MORE_DATA. This indicates that the entire list of workitems that meet the specified criteria has been returned. You can view the XML

input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFFetchWorkItemsWithLock_Input>
<Option>WFFetchWorkItemsWithLock</Option>
<EngineName>ofcab</EngineName>
<SessionId>1338058054</SessionId>
<QueueId>0</QueueId>
<Filter>
<Type>256</Type>
<Comparison>0</Comparison>
<FilterString>Q_UserId = '2' and QUEUETYPE <>N'I'
</FilterString>
<Length>0</Length>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastWorkItem></LastWorkItem>
<LastValue></LastValue>
<LastProcessInstance></LastProcessInstance>
<SortOrder></SortOrder>
<OrderBy></OrderBy>
</BatchInfo>
<DataFlag>Y</DataFlag>
<CountFlag>Y</CountFlag>
</WFFetchWorkItemsWithLock_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFFetchWorkItemsWithLock
EngineName	Root	Yes	This is the Name of the cabinet	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

CountFlag	Root	No	This flag indicates whether the total count of workitems that meet the specified criteria is to be returned or not	Y – Yes, returns the total count of workitems N – No, do not return the total count
OrderBy	Root	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, and more. The list can also be sorted on the Mapped Process Variables/ Aliases, for which the values to be specified starts from 101.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 - IntroductionDateTime 17 - Status 18 - CreatedDateTime Above 100 – Alias Basically, you need to keep adding 100 to the order in which the Aliases are returned for the Queue. i.e. Lets say, if the 1st Alias returned is LoanAmount, 2nd is LoanType, then to sort on Loan Amount, specify 101. Similarly to sort on LoanType specify 102, and so on.
SortOrder	Root	No	This is the order in which the workitems are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D

NoOfRecordsToFetch	BatchInfo	No	This is the batch size information in terms of the no. of workitems to be fetched per batch.	NA
LastWorkItem	BatchInfo	No	This is the Workitem ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastValue	BatchInfo	No	It is the value of the Sort Order By field for the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastProcessInstance	BatchInfo	No	This is the Process Instance ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
DataFlag	Root	No	This flag indicates whether the workitem data is to be returned or not.	Y – Yes, returns Workitem Data also. N – No, do not return Workitem Data.

QueueId	Root	No	The ID of the Queue, whose workitems are to be fetched.	Specify the ID, of the Queue for which the workitems are to be fetched. However, if you wish to get the workitems in any user's My Queue, then specify the QueueId as 0 and specify the Q_UserId in the Filter Tag, as the id of the user for whom you wish to get the workitems in his 'My Queue'. Example: <Filter> <Type>256</Type> <Comparison>0</Comparison> <FilterString>Q_UserId='2'</FilterString> <Length>0</Length> </Filter>
Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String Any value between 0 to 255, incase you need to specify a filter as Attribute=Value.

Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified in case the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.
AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFFetchWorkItemsWithLock_Output>
<Option>WFFetchWorkItemsWithLock</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Instruments>
<Instrument>
<ProcessInstanceId>AM-003-Process</ProcessInstanceId>
<WorkItemName>AM-003-Process</WorkItemName>
<RouteId>9</RouteId>
<RouteName>AMy</RouteName>
<WorkStageId>2</WorkStageId>
<ActivityName>Custom1</ActivityName>
<PriorityLevel>1</PriorityLevel>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>Y</LockStatus>
<LockedByUserName>DataEntryOperator</LockedByUserName>
<ExpiryDateTime></ExpiryDateTime>
<CreatedByUserName>Manager</CreatedByUserName>
<CreationDateTime></CreationDateTime>
<WorkitemState>RUNNING</WorkitemState>
<CheckListCompleteFlag>Y</CheckListCompleteFlag>
<EntryDateTime></EntryDateTime>
<LockedTime>2007-03-28 12:24:52.327</LockedTime>
<IntroductionDateTime></IntroductionDateTime>
<IntroducedBy>Manager</IntroducedBy>
<AssignedTo>DataEntryOperator</AssignedTo>
<WorkItemId>1</WorkItemId>
<QueueName>Japneet's MyQueue</QueueName>
<QueueType>F</QueueType>
<QueueId>56</QueueId>
<AssignmentType>F
<AssignmentType>
<ProcessInstanceState>2</ProcessInstanceState>
<Status></Status>
<Turnaroundtime></Turnaroundtime>
<Referredby></Referredby>
<Referredto></Referredto>
<Data>
<QueueData>
<Name>a</Name>
<Value>10</Value>
</QueueData>
<QueueData>
<Name>b</Name>
<Value>20</Value>
</QueueData>
</Data>
</Instrument>
</Instruments>
<RetrievedCount></RetrievedCount>
```

```
<Count></Count>
</WFFetchWorkItemsWithLock_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Instrument	The Process Instance ID of the workitem fetched.
WorkItemName	Instrument	The Name of the workitem fetched.
RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.
RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.

CreatedByUserName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.
WorkitemState	Instrument	State of the workitem fetched. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete
EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	Name of the user to whom the workitem is currently assigned.
WorkItemID	Instrument	The ID of the workitem fetched.
QueueName	Instrument	Name of the Queue to which the workitem belongs.
AssignmentType	Instrument	Current Assignment Type for the workitem. S – Shared F – Fixed E – Referred

ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueId	Instrument	ID of the Queue to which the workitem belongs.
Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
Referredby	Instrument	Name of the user who referred the workitem.
Referredto	Instrument	Name of the user to whom the workitem has been referred to.
Name	Instrument\Data\QueueData	Name of the attribute variable for the workitem.
Value	Instrument\Data\QueueData	Value of the attribute variable for the workitem.
RetrievedCount	Root	No. of workitems retrieved in the current Call. This is dependent on the batch size indicated in the input XML.
Count	Root	The Total No. of workitems that actually meet the specified criteria.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid Session
15	WM_INVALID_FILTER	Invalid Filter
400	WF_OPERATION_FAILED	Operation failed

WMFetchWorkItems

This call returns the list of workitems in a specified Queue. It returns the list in batches the size of which can be specified in the input XML. Hence the programmer using this API should call it in a loop until the call returns the error exception, WM_NO_MORE_DATA. This indicates that the entire list of workitems that meet the specified criteria has been returned.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchWorkItems
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
SystemAssignedWI	Root	No		

QueueId		No	The ID of the Queue, whose workitems are to be fetched.	Specify the ID of the Queue for which the workitems are to be fetched. However, if you wish to get the workitems in any user's My Queue, then specify the QueueId as 0 and specify the Q_UserId in the Filter Tag, as the id of the user for whom you wish to get the workitems in his 'My Queue'. Example: <Filter> <Type>256</Type> <Comparison>0</Comparison> <FilterString>Q_UserId='2' </FilterString> <Length>0</Length> </Filter>

OrderBy	Root	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, etc. The list can also be sorted on the Mapped Process Variables/Aliases, for which the values to be specified starts from 101.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 - IntroductionDateTime 17 - Status 18 - CreatedDateTime Above 100 – Alias Basically, you need to keep adding 100 to the order in which the Aliases are returned for the Queue. For e.g., if the 1st Alias returned is LoanAmount, 2nd is LoanType, then to sort on Loan Amount, specify 101. Similarly to sort on LoanType specify 102, and so on.
NoOfRecordsToFetch	BatchInfo	No	This is the batch size information in terms of the no. of workitems to be fetched per batch.	NA
LastWorkItem	BatchInfo	No	This is the Workitem ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA

LastValue	Root	No	It is the value of the Sort Order By field for the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastProcessInstance	Root	No	This is the Process Instance ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
SortOrder	Root	No	This is the order in which the workitems are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D.
DataFlag	Root	No	The ID of the Queue, whose workitems are to be fetched.	Y – Yes, returns Workitem Data also N – No, do not return Workitem Data
FetchLockedFlag	Root	No	Enable to fetch locked Workitem in read only mode.	Y – Yes N – No
ReturnCountFlag	Root	No	Enable to return the count of workitems.	Y – Yes N – No
MyQueueFlag	Root	No	My Queue Flag.	Y – Yes N – No
ProcessAlias	Root	No	Flag that enable to fetch specific process alias.	Y – Yes N – No

ProcessDefId	Root	No	ID of the Process for which the Variable value setting action is to be enabled.	NA
ClientOrderFlag	Root	No	Ordered flag for client.	Y – Yes N – No
StartingRecordNo	Root	No	Initial Value of recirds.	0
ReminderFlag	Root	No	Reminder flag for last reminder time.	Y – Yes N – No
PagingFlag	Root	No	It refers to the flag	Y – Yes, page no comes in xml N – No, do not come in xml
usestdparser	Root	No	Enable/disable standard parser.	Y – Yes N – No
DynamicQueueFlag	Root	No	Flag that enable/ disable standard parser.	Y – Yes N – No
QueueType	Root	No	Type of queue in which the workitem is.	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, incase you need to specify a filter as Attribute=Value.
Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255.	operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255. 1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like

AttributeName	Filter	No	This tag is to be specified incase the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA
FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Instrument	The Process Instance ID of the workitem fetched.
WorkitemName	Instrument	The Name of the workitem fetched.
RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.
RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High

InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.
CreatedByUserName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.
WorkitemState	Instrument	State of the workitem fetched 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete
EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	Name of the user to whom the workitem is currently assigned.
WorkitemID	Instrument	The ID of the workitem fetched
QueueName	Instrument	Name of the Queue to which the workitem belongs.

AssignmentType	Instrument	Current Assignment Type for the workitem S – Shared F – Fixed E – Referred
ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueId	Instrument	ID of the Queue to which the workitem belongs.
Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
Referredby	Instrument	Name of the user who referred the workitem.
Referredto	Instrument	Name of the user to whom the workitem has been referred to.
Name	Instrument/ Data/ QueueData	Name of the attribute variable for the workitem.
Value	Instrument/ Data/ QueueData	Value of the attribute variable for the workitem.
RetrievedCount	Root	No. of workitems retrieved in the current Call. This is dependent on the batch size indicated in the input XML.

Count	Root	The Total No. of workitems that actually meet the specified criteria.
LockedByPersonalName	Instrument	Personal Name of the user who locked the workitem.
CreatedByPersonalName	Instrument	Personal Name of the user who created the workitem.
IntroducedByPersonalName	Instrument	Personal Name of the user who introduced the workitem.
AssignedToPersonalName	Instrument	Personal Name of the user the workitem is assigned to.
Turnaroundtime	Instrument	Turn around time for the workitem.
Q_DivertedByUserId	Instrument	Id of the user who diverted queue.
ActivityType	Instrument	Type of Acitivity.
ProcessedBy	Instrument	Name of the user who processed the workitem.
ProcessedByPersonalName	Instrument	Personal Name of the user who processed the workitem.
WorkitemCount	Root	Count of Workitems.
AliasProcessDefId	Root	Id of Process alias.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	SubCode	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.
400	--	WM_OPERATION_FAILED	Operation Failed.

Input XML:

```
<?xml version="1.0"?>
<WMFetchWorkItems_Input>
<Option>WMFetchWorkItems</Option>
<EngineName>ofcab</EngineName>
<SessionId>1338058054</SessionId>
<QueueId>0</QueueId>
<Filter>
<Type>256</Type>
<Comparison>0</Comparison>
<FilterString>Q_UserId = '2' and QUEUETYPE <>N'I'
</FilterString>
<Length>0</Length>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastWorkItem></LastWorkItem>
<LastValue></LastValue>
<LastProcessInstance></LastProcessInstance>
<SortOrder></SortOrder>
<OrderBy></OrderBy>
</BatchInfo>
<DataFlag>Y</DataFlag>
<CountFlag>Y</CountFlag>
</WMFetchWorkItems_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMFetchWorkItems_Output>
<Option>WMFetchWorkItems</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Instruments>
<Instrument>
<ProcessInstanceId>AM-003-Process</ProcessInstanceId>
<WorkItemName>AM-003-Process</WorkItemName>
<RouteId>9</RouteId>
<RouteName>AMy</RouteName>
<WorkStageId>2</WorkStageId>
<ActivityName>Custom1</ActivityName>
<PriorityLevel>1</PriorityLevel>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>Y</LockStatus>
<LockedByUserName>DataEntryOperator</LockedByUserName


            <ExpiryDateTime></ExpiryDateTime>
<CreatedByUserName>Manager</CreatedByUserName>
<CreationDateTime></CreationDateTime>
<WorkitemState>RUNNING</WorkitemState>
<CheckListCompleteFlag>Y</CheckListCompleteFlag>
<EntryDateTime></EntryDateTime>
<LockedTime>2007-03-28 12:24:52.327</LockedTime>
<IntroductionDateTime></IntroductionDateTime>
```

```
<IntroducedBy>Manager</IntroducedBy>
<AssignedTo>DataEntryOperator</AssignedTo>
<WorkItemId>1</WorkItemId>
<QueueName>Japneet's MyQueue</QueueName>
<QueueType>F</QueueType>
<QueueId>56</QueueId>
<AssignmentType>F
<AssignmentType>
<ProcessInstanceState>2</ProcessInstanceState>
<Status></Status>
<Turnaroundtime></Turnaroundtime>
<Referredby></Referredby>
<Referredto></Referredto>
<Data>
<QueueData>
<Name>a</Name>
<Value>10</Value>
</QueueData>
<QueueData>
<Name>b</Name>
<Value>20</Value>
</QueueData>
</Data>
</Instrument>
</Instruments>
<RetrievedCount></RetrievedCount>
<Count></Count>
</WMFetchWorkItems_Output>
```

WMFetchInstrumentsList

This call returns the list of workitems in a specified Queue. It returns the list in batches the size of which can be specified in the input XML. Hence the programmer using this API must call it in a loop until the call returns the error exception WM_NO_MORE_DATA. This indicates that the entire list of workitems that meet the specified criteria has been returned. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchInstrumentsList_Input>
<Option>WMFetchInstrumentsList</Option>
<EngineName>ofcab</EngineName>
<SessionId>1338058054</SessionId>
```

```
<QueueId>0</QueueId>
<Filter>
<Type>256</Type>
<Comparison>0</Comparison>
<FilterString>Q_UserId = '2' and QUEUETYPE <>N'I'
</FilterString>
<Length>0</Length>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<LastWorkItem></LastWorkItem>
<LastValue></LastValue>
<LastProcessInstance></LastProcessInstance>
<SortOrder></SortOrder>
<OrderBy></OrderBy>
</BatchInfo>
<DataFlag>Y</DataFlag>
<CountFlag>Y</CountFlag>
</WMFetchInstrumentsList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchInstrumentsList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
CountFlag	Root	No	This flag indicates whether the total count of workitems that meet the specified criteria is to be returned or not.	Y – Yes, returns the total count of workitems. N – No, do not return the total count.

OrderBy	Root	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, and more. The list can also be sorted on the Mapped Process Variables/ Aliases, for which the values to be specified starts from 101.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 - IntroductionDateTime 17 - Status 18 - CreatedDateTime Above 100 – Alias Basically, you need to keep adding 100 to the order in which the Aliases are returned for the Queue. For example, if the 1st Alias returned is LoanAmount, 2nd is LoanType, then to sort on Loan Amount, specify 101. Similarly to sort on LoanType specify 102, and so on.
SortOrder	Root	No	This is the order in which the workitems are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D.
NoOfRecordsToFetch	BatchInfo	No	This is the batch size information in terms of the no. of workitems to be fetched per batch.	NA

LastWorkItem	BatchInfo	No	This is the Workitem ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastValue	BatchInfo	No	It is the value of the Sort Order By field for the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastProcessInstance	BatchInfo	No	This is the Process Instance ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
DataFlag	Root	No	This flag indicates whether the workitem data is to be returned or not.	Y – Yes, return Workitem Data also. N – No, do not return Workitem Data.

QueueId	Root	No	The ID of the Queue, whose workitems are to be fetched.	Specify the ID, of the Queue for which the workitems are to be fetched. However, if you wish to get the workitems in any user's My Queue, then specify the QueueId as 0 and specify the Q_UserId in the Filter Tag, as the id of the user for whom you wish to get the workitems in his 'My Queue'. Example: <Filter> <Type>256</Type> <Comparison>0</Comparison> <FilterString>Q_UserId='2'</FilterString> <Length>0</Length> </Filter>
Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However, Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String Any value between 0 to 255, incase you need to specify a filter as Attribute=Value.

Comparison	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.
AttributeName	Filter	No	This tag is to be specified incase the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchInstrumentsList_Output>
<Option>WMFetchInstrumentsList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Instruments>
<Instrument>
<ProcessInstanceId>AM-003-Process</ProcessInstanceId>
<WorkItemName>AM-003-Process</WorkItemName>
<RouteId>9</RouteId>
<RouteName>AMy</RouteName>
<WorkStageId>2</WorkStageId>
<ActivityName>Custom1</ActivityName>
<PriorityLevel>1</PriorityLevel>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>Y</LockStatus>
<LockedByUserName>DataEntryOperator</LockedByUserName
<ExpiryDateTime></ExpiryDateTime>
<CreatedByUserName>Manager</CreatedByUserName>
<CreationDateTime></CreationDateTime>
<WorkitemState>RUNNING</WorkitemState>
<CheckListCompleteFlag>Y</CheckListCompleteFlag>
<EntryDateTime></EntryDateTime>
<LockedTime>2007-03-28 12:24:52.327</LockedTime>
<IntroductionDateTime></IntroductionDateTime>
<IntroducedBy>Manager</IntroducedBy>
<AssignedTo>DataEntryOperator</AssignedTo>
<WorkItemId>1</WorkItemId>
<QueueName>Japneet's MyQueue</QueueName>
<QueueType>F</QueueType>
<QueueId>56</QueueId>
<AssignmentType>F
<AssignmentType>
<ProcessInstanceState>2</ProcessInstanceState>
<Status></Status>
<Turnaroundtime></Turnaroundtime>
<Referredby></Referredby>
<Referredto></Referredto>
<Data>
<QueueData>
<Name>a</Name>
<Value>10</Value>
</QueueData>
<QueueData>
<Name>b</Name>
```

```
<Value>20</Value>
</QueueData>
</Data>
</Instrument>
</Instruments>
<RetrievedCount></RetrievedCount>
<Count></Count>
</WMFetchInstrumentsList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Instrument	The Process Instance ID of the workitem fetched.
WorkitemName	Instrument	The Name of the workitem fetched.
RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.
RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked

LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.
CreatedByUserName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.
WorkitemState	Instrument	State of the workitem fetched 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete
EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	Name of the user to whom the workitem is currently assigned.
WorkitemID	Instrument	The ID of the workitem fetched.
QueueName	Instrument	Name of the Queue to which the workitem belongs.

AssignmentType	Instrument	Current Assignment Type for the workitem S – Shared F – Fixed E – Referred
ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueId	Instrument	ID of the Queue to which the workitem belongs.
Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
Referredby	Instrument	Name of the user who referred the workitem.
Referredto	Instrument	Name of the user to whom the workitem has been referred to.
Name	Instrument\Data\QueueData	Name of the attribute variable for the workitem.
Value	Instrument\Data\QueueData	Value of the attribute variable for the workitem.
RetrievedCount	Root	No. of workitems retrieved in the current Call. This is dependent on the batch size indicated in the input XML

Count	Root	The Total No. of workitems that actually meet the specified criteria.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	Invalid Filter
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA.	No more records
400	WF_OPERATION_FAILED	Operation failed

WFFetchWorkItemCount

This API is used to fetch the total count of workitems in a specified Queue, or in the current User's My Queue, or the total count of workitems in all the Queues of which the currently logged-in user is a member. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFFetchWorkItemCount
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA

QueueId	Root	No	ID of the Queue, of which the no. of workitems is to be fetched.	0 – To fetch the count of workitems in the currently logged-in User's My Queue. -1 – To fetch the total count of workitems in all the Queues of which the currently logged-in user is a member. Else to fetch the count of workitems in a specific queue, provide the Valid Queue ID in this Tag.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the log-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
WorkitemCount	Root	Count of Workitems in the specified Queue.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA	No more Data
12	WM_INVALID_FILTER	Invalid Query Handle
400	WF_OPERATION_FAILED	Operation failed.

Input XML:

```
<?xml version="1.0"?>
<WFFetchWorkItemCount_Input>
<Option>WFFetchWorkItemCount</Option>
<EngineName>ofcab</EngineName>
```

```
<SessionId>-1929979315</SessionId>
<QueueId>0</QueueId>
</WFFetchWorkItemCount_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WFFetchWorkItemCount_Input>
<Option>WFFetchWorkItemCount</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1929979315</SessionId>
<QueueId>0</QueueId>
</WFFetchWorkItemCount_Input>
```

WMGetWorkItem

This API is used to obtain the record corresponding to the specified workitem, along with locking the workitem for the user requesting it. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option *	Root	Yes	It refers to the case-sensitive call name.	WMGetWorkItem
EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged in user's session id.	NA
ProcessInstanceId*	Root	Yes	ID of the Process Instance corresponding to the workitem to be locked.	NA
WorkItemId *	Root	Yes	ID of the workitem to be locked.	NA
AssignMe	Root	No	It indicates whether workitem is to be reassigned to the logged in user.	Y/N

GenerateLog	Root	No	It indicates whether auditing is required for this operation	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
WorkitemID	Workitem	It is the Id of the workitem, which is fetched...
WorkitemName	Workitem	It is the Name of the workitem, which is fetched.
ActivityInstanceId	Workitem	It is the ID of the Activity Instance associated with the workitem. (Activity Instance ID is a numeric ID given to a workitem when it enters an Activity.)
ProcessInstanceId	Workitem	It is the id of the process instance for the workitem.
PriorityLevel	Workitem	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
Participant	Participants	The Name of the user for whom the workitem is being locked.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_Operation_Failed	Operation Failed
16	Wm_Locked	Locked
15	Wm_Invalid_Filter	Invalid Filter
11	WM_INVALID_SESSION_HANDLE	Invalid session
6	WM_INVALID_WORKITEM	The workitem ID was not valid or the workitem could not be locked for the specified user due to some reason.

Input XML:

```
<WMGetWorkItem_Input>
<Option>WMGetWorkItem</Option>
<EngineName>ibps5oct</EngineName>
<SessionId>-1591186242</SessionId>
<ProcessInstanceId>new_2-0000000018-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<AssignMe>Y</AssignMe>
<GenerateLog>Y</GenerateLog>
</WMGetWorkItem_Input>
```

Output XML:

```
<WMGetWorkItem_Output>
<Option>WMGetWorkItem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Workitem>
<WorkitemName>new_2-0000000018-process</WorkitemName>
<WorkitemId>1</WorkitemId>
<ActivityInstanceId>1</ActivityInstanceId>
<ProcessInstanceId>new_2-0000000018-process</ProcessInstanceId>
<PriorityLevel>1</PriorityLevel>
<Participants>
<Participant>pgaur</Participant>
</Participants>
</Workitem>
</WMGetWorkItem_Output>
```

WFGetNextUnlockedWorkitem

This API is used to fetch the next available unlocked workitem in a FIFO Queue. Apart from returning the workitem, this API also locks the workitem for the user requesting it. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<Option>WFGetNextUnlockedWorkitem</Option>
<EngineName>ofcab</EngineName>
<SessionId>-2017064627</SessionId>
<CountFlag>Y</CountFlag>
<DataFlag>N</DataFlag>
<QueueId>3</QueueId>
<Filter>
<Type>256</Type>
<Comparison>0</Comparison>
<FilterString>Q_QUEUEID = '3'</FilterString>
<Length>0</Length>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch>20</NoOfRecordsToFetch>
<OrderBy>10</OrderBy>
<SortOrder>A</SortOrder>
</BatchInfo>undefinedundefined</WFGetNextUnlockedWorkitem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetNextUnlockedWorkitem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

Type	Filter	No	Type of the filter criteria specified. Filter type can be SQL string or an attribute. If you are filtering on attributes, then filter string contains the value of the attribute, and the Type is specified as any value between 0-255. However Type is specified as 256 incase you wish to specify the SQL WHERE Clause in the Filter String.	256 - SQL WHERE Clause String. Any value between 0 to 255, incase you need to specify a filter as Attribute = Value
Comparision	Filter	No	This is an integer value specifying the comparison operator for specifying the Attribute-Value comparison filters. It is to be specified incase the Type has been specified as a value between 0-255.	1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like.

AttributeName	Filter	No	This tag is to be specified incase the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA
FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

OrderBy	Root	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, and more. The list can also be sorted on the Mapped Process Variables/ Aliases, for which the values to be specified starts from 101.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 - CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 - IntroductionDateTime 17 - Status 18 - CreatedDateTime above 100 – Alias Basically, you need to keep adding 100 to the order in which the Aliases are returned for the Queue. Example: If the 1st Alias returned is LoanAmount, 2nd is LoanType, then to sort on Loan Amount, specify 101. Similarly, to sort on LoanType specify 102, and so on.
SortOrder	Root	No	This is the order in which the workitems are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D.
LastWorkItem	BatchInfo	No	This is the Workitem ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA

LastValue	BatchInfo	No	It is the value of the Sort Order By field for the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastProcessInstance	BatchInfo	No	This is the Process Instance ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
DataFlag	Root	No	This flag indicates whether the workitem data is to be returned or not.	Y – Yes, returns Workitem Data also. N – No, do not return Workitem Data.
QueueId	Root	No	The ID of the Queue, whose workitems are to be fetched.	Specify the ID, of the Queue for which the workitems are to be fetched.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetNextUnlockedWorkitem_Output>
<Option>WFGetNextUnlockedWorkitem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Instrument>
<ProcessInstanceId>AM-0000003-Process</ProcessInstanceId>
<WorkItemName>AM-0000000003-Process</WorkItemName>
<RouteId>9</RouteId>
<RouteName>AMy</RouteName>
<WorkStageId>2</WorkStageId>
<ActivityName>Custom1</ActivityName>
<PriorityLevel>1</PriorityLevel>
<LockStatus>Y</LockStatus>
<LockedByUserName>DataEntryOperator</LockedByUserName>
<WorkitemState>RUNNING</WorkitemState>
<EntryDateTime>2007-03-26 12:00:17.013</EntryDateTime>
<LockedTime>2007-03-28 12:24:52.327</LockedTime>
<AssignedTo>DataEntryOperator</AssignedTo>
<WorkItemId>1</WorkItemId>
<QueueName>Japneet's MyQueue</QueueName>
<QueueType>F</QueueType>
<QueueId>56</QueueId>
<CreatedByUserName>Manager</CreatedByUserName>
<CreationDateTime>2007-03-26 11:58:10.0</CreationDateTime>
<IntroductionDateTime></IntroductionDateTime>
<IntroducedBy>Manager</IntroducedBy>
<ProcessInstanceState>2</ProcessInstanceState>
<InstrumentStatus>N</InstrumentStatus>
<CheckListCompleteFlag>Y</CheckListCompleteFlag>
</Instrument>
</WFGetNextUnlockedWorkitem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
ProcessInstanceId	Instrument	The Process Instance ID of the workitem fetched.
WorkItemName	Instrument	The Name of the workitem fetched.

RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.
RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.
CreatedByUserName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.
WorkitemState	Instrument	State of the workitem fetched. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed

CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete
EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	Name of the user to whom the workitem is currently assigned.
WorkitemID	Instrument	The ID of the workitem fetched.
QueueName	Instrument	Name of the Queue to which the workitem belongs.
AssignmentType	Instrument	Current Assignment Type for the workitem. S – Shared F – Fixed E – Referred
ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed

QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueId	Instrument	ID of the Queue to which the workitem belongs.
Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
Referredby	Instrument	Name of the user who referred the workitem.
Referredto	Instrument	Name of the user to whom the workitem has been referred to.
Name	Instrument\Data\QueueData	Name of the attribute variable for the workitem.
Value	Instrument\Data\QueueData	Value of the attribute variable for the workitem.
ProcessDefId	Instrument	ProcessDefId of the workitem
ActivityId	Instrument	ActivityID of the workitem
URN	Instrument	URN of the workitem
LastModifiedOn	Instrument	Last modified time of the Queue

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session

15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	Records are unavailable.
400	WF_OPERATION_FAILED	Operation failed

WFGetWorkitemData

This API is used to fetch the data for a specified workitem. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetWorkitemData_Input>
<Option>WFGetWorkitemData</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1929979315</SessionId>
<ProcessInstanceID>BANK-0000000001-ACC</ProcessInstanceID>
<WorkItemID>1</WorkItemID>
<QueryWorkstep>N</QueryWorkstep>
<DataFlag>N</DataFlag>
</WFGetWorkitemData_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetWorkitemData
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

ProcessInstanceId	Root	Yes	ID of the Process Instance for which the workitem data is to be fetched.	NA
WorkItemId	Root	Yes	ID of the workitem for which the Workitem Data is to be fetched.	NA
QueryWorkStep	Root	No	This Flag indicates whether the workitem is being opened from Search Worklist, for search purposes or not.	Y – Yes, the workitem is being opened from Search. In this case, the system will internally check if the workitem is to be opened in Read or Modify Mode depending on the rights that the currently logged-in user has. Incase the system identifies that though the logged-in user is not a member of the Queue of which the workitem belongs, but is a member of Query Queue, the API returns an additional Tag named QueryActivityId, indicating that the workitem is to be opened in Read Only Mode. However, incase the user is not even a member of the Query Queue, an Error Message is returned by the API N – No, the workitem is not being opened from a Query Queue.
ArchiveSearch	Root	No	If WorkItem needs to be searched in Archive Cabinet as well.	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetWorkitemData_Output>
<Option>WFGetWorkitemData</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Instrument>
<ProcessInstanceId>BANK-0000000001-ACC</ProcessInstanceId>
<ProcessInstanceName>BANK-0000000001-ACC</ProcessInstanceName>
<RouteId>1</RouteId>
<RouteName>AccOpening</RouteName>
<WorkStageId>2</WorkStageId>
<ActivityName>Data Entry</ActivityName>
<PriorityLevel>1</PriorityLevel>
<LockStatus>N</LockStatus>
<Statename>RUNNING</Statename>
<EntryDateTime>2007-02-15 11:02:49.81</EntryDateTime>
<WorkItemId>1</WorkItemId>
<QueueName>AccOpening_Data Entry</QueueName>
<AssignmentType>S</AssignmentType>
<QueueType>F</QueueType>
<QueueId>2</QueueId>
<UserID>0</UserID>
<WorkitemState>2</WorkitemState>
<InstrumentStatus>N</InstrumentStatus>
<CheckListCompleteFlag>N</CheckListCompleteFlag>
<CreatedByUserName>DataEntryOperator</CreatedByUserName>
<CreationDateTime>2007-02-12 19:38:41.0</CreationDateTime>
<IntroductionDateTime>2007-02-12 19:38:54.937</IntroductionDateTime>
<IntroducedBy>DataEntryOperator</IntroducedBy>
<ProcessInstanceState>2</ProcessInstanceState>
<CacheTime>2007-02-21 19:15:59</CacheTime>
</Instrument>
</WFGetWorkitemData_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Instrument	The Process Instance ID of the workitem fetched.
WorkitemName	Instrument	The Name of the workitem fetched.
RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.
RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.
CreatedByUserName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.

WorkitemState	Instrument	State of the workitem fetched. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete
EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	Name of the user to whom the workitem is currently assigned.
WorkItemId	Instrument	The ID of the workitem fetched.
QueueName	Instrument	Name of the Queue to which the workitem belongs.
AssignmentType	Instrument	Current Assignment Type for the workitem. S – Shared F – Fixed
ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed

QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueId	Instrument	ID of the Queue to which the workitem belongs.
Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
ReferredBy	Instrument	Name of the user who referred the workitem.
ReferredTo	Instrument	Name of the user to whom the workitem has been referred to.
UserID	Instrument	The ID of the User to whom the workitem is currently assigned to.
QueryActivityId	Instrument	ID of the Query Workstep included in the Query Queue of which the logged-in user is a member. This Tag is returned to indicate that the logged-in user does not have rights to process the workitem, but can view it in Read Only mode, as he is a member of a Query Queue.
CacheTime	Instrument	It specifies the current time at which the data is being fetched, for the client to maintain the data in its cache.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid
400	WF_OPERATION_FAILED	Operation failed
300	WF_NO_AUTHORIZATION	User is not authorized to view the workitem

WFGetWorkitemDataExt

This API is used to both lock the specified workitem as well as fetch complete data for a workitem, in one go. You can specify the Process Instance ID and workitem ID for the workitem that is to be locked and for which the Data is to be fetched.

You may also specify the ID and Type of the Queue, from which the next available workitem and its corresponding data is to be fetched, based on the specified Last Process Instance ID and Workitem ID. However, incase the Last Process Instance ID and Workitem ID are not specified, this API returns the first available workitem and its data in the specified Queue. You can view the XML input and output parameters, which have to be passed for setting the attributes. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetWorkitemDataExt_Input>
    <Option>WFGetWorkitemDataExt</Option>
    <EngineName>iBPS5SP2PostgresSrvrCab</EngineName>
    <SessionId>1374163274</SessionId>
    <ArchiveSearch>N</ArchiveSearch>
    <ProcessInstanceId>testToDO-0000000007-process</ProcessInstanceId>
    <WorkitemId>1</WorkitemId>
    <QueueId>18</QueueId>
    <QueueType>I</QueueType>
    <ActivityType>1</ActivityType>
    <DocOrderBy>5</DocOrderBy>
    <DocSortOrder>A</DocSortOrder>
    <ObjectPreferenceList>W,D</ObjectPreferenceList>
    <GenerateLog>Y</GenerateLog>
    <ZipBuffer>N</ZipBuffer>
    <UserDefVarFlag>Y</UserDefVarFlag>
```

```
    <ReturnAttributesOnly>Y</ReturnAttributesOnly>
</WFGetWorkitemDataExt_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetWorkitemDataExt
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ArchiveSearch	Root	No	Flag that enables to search archive.	Y -- Yes N -- No
NoOfRecordsToFetch	Root	No	Total number of fetched records.	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem that is to be locked, and whose data is to be fetched. Specify this value incase you need to lock a particular workitem. If however, you do not specify this tag, then you need to specify the Queue ID and Queue Type Tags.	NA
WorkItemId	Root	Yes	ID of the workitem that is to be locked, and whose data is to be fetched. Specify this value incase you need to lock a particular workitem.	NA

QueueId	Root	No	This is the ID of the Queue whose 1st available unlocked workitem is to be fetched. This Tag needs to be specified incase you wish to fetch the 1st unlocked workitem from a specific Queue, along with its complete Data, and along with locking the workitem. However, if you are specifying the Process Instance Id and the Workitem Id, then this tag may be ignored.	NA
QueueType	Root	No	Type of the Queue whose ID is specified in the QueueId Tag.	I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
LastWorkItem	Root	No	ID of the last workitem, whose next workitem is to be fetched.	NA
LastProcessInstance	Root	No	Process Instance ID of the last workitem, whose next workitem is to be fetched.	NA
GenerateLog	Root	No	Flag indicating whether the log is to be generated for locking and fetching complete data for the workitem or not.	Y – Yes, generate log N – No, do not generate log
ZipBuffer	Root	No	Flag indicating whether the output data is to be zipped or not.	Y – Yes N – No
ObjectPreferenceList	Root	No	List of Object Type for which the Preferences for the logged-in user are also to be fetched.	Comma separated Object Types. For example, W, D

OrderBy	Root	No	Order By field on which the Activities list is to be sorted.	1 - ActivityID 2 - Activity Name 3 - Number of Workitems 4 - Number Of Delayed Workitems 5 – Process ID
LastValue	Root	No	Name of the Last Activity retrieved in the previous batch.	NA
ObjectPreferenceList	Root	No	List of object preferences.	NA
UserDefVarFlag	Root	No	Falg that enables user to define variables.	Y – Yes N – No
ClientOrderFlag	Root	No	Flag that enables to client an order.	Y – Yes N – No
PDAFlag	Root	No	It refers to the call coming from.	Y -- Mobile N -- Web Desktop
AssignMe	Root	No	Assign to me flag	Y – Yes N – No
IsSharePoint	Root	No	Flag that tells about sharepoint	Y – Yes N – No
DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y -- Write N -- Not Write
ReminderFlag	Root	No	Reminder flag for last reminder time.	Y – Yes N – No
UtilityFlag	Root	No	Flag that enables utilities.	Y – Yes N – No
DMSUserName	Root	No	DMS UserName	NA
DMSPassword	Root	No	DMS Password	NA
DocListOption	Root	No	Document option list flag.	Y – Yes N – No
ISDocFlag	Root	No	Flag that tells about document.	Y – Yes N – No
DataAlsoFlag	Root	No	Data Also Flag.	Y – Yes N – No

ClientSite	Root	No	Value of client site	NA
TaskId	Root	No	Id of the task.	NA
SubTaskId	Root	No	Sub task Id associated with task.	NA
ActivityType	Root	No	Type of activity.	Type of Activity. 1 - Work Introduction 2 - Work Exit 3 - Discard 4 - Hold 5 - Distribute 6 - Collect 7 - Decision 18 - SubProcess 10 - Custom 19 – Integration 11 - Query
DocOrderBy	Root	No	Field by which the Documents in the workitem are to be returned.	Name
DocSortOrder	Root	No	Order by which the Documents in the workitem are to be returned.	A – Ascending D – Descending
ReturnAttributesOnly	Root	No	This tag signifies whether only the attributes set for a workitem to return.	Y or N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetWorkitemDataExt_Output>
    <Option>WFGetWorkitemDataExt</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <UserDefVarFlag>Y</UserDefVarFlag>
    <Workitem>
        <CurrentDateTime>2021-09-09 14:58:34.917658+05:30</CurrentDateTime>
        <ProcessInstanceId>testToDO-0000000007-process</ProcessInstanceId>
        <WorkitemId>1</WorkitemId>
        <ProcessName>testToDO</ProcessName>
        <ProcessVersion>1</ProcessVersion>
        <ProcessDefId>6</ProcessDefId>
        <ProcessedBy>ravi</ProcessedBy>
        <ActivityName>Start Event_1</ActivityName>
        <ActivityId>1</ActivityId>
        <EntryDateTime>2021-09-09 14:49:00</EntryDateTime>
        <AssignmentType>S</AssignmentType>
        <PriorityLevel>1</PriorityLevel>
        <QueueId>18</QueueId>
        <AssignedTo>ravi</AssignedTo>
        <WorkitemStateId>2</WorkitemStateId>
        <WorkitemState>RUNNING</WorkitemState>
        <LockStatus>Y</LockStatus>
        <LockedTime>2021-09-09 14:58:34</LockedTime>
        <QueueName>testToDO_Start Event_1</QueueName>
        <QueueType>I</QueueType>
        <VariantId>0</VariantId>
        <URN>testToDO-7</URN>
        <LastValue>testToDO-0000000007-process</LastValue>
        <CheckListCompleteFlag>N</CheckListCompleteFlag>
        <InstrumentStatus>N</InstrumentStatus>
        <ActivityType>1</ActivityType>
    </Workitem>
    <WorkitemData>
        <Documents />
        <ExternalData>
            <ToDoListInterface>
                <Status>
                    <ToDoListStats>
                        <ToDoListStat>
                            <ToDoIndex>1</ToDoIndex>
                            <Value>No</Value>
                            <ToDoHistories>
                                <ToDoHistory>
```

```
                                    <ToDoRemark>commenttodo1</ToDoRemark>
                                    <ActivityName>Start Event_1</ActivityName>
                                    <UserName>ravi</UserName>
                                    <ActionDateTime>2022-01-03 02:05:30.315653</
ActionDateTime>
                                </ToDoHistory>
                                <ToDoHistory>
                                    <ToDoRemark>commenttodo1_2</ToDoRemark>
                                    <ActivityName>Start Event_1</ActivityName>
                                    <UserName>badmin</UserName>
                                    <ActionDateTime>2022-01-03 02:08:49.882412</
ActionDateTime>
                                </ToDoHistory>
                            </ToDoHistories>
                        </ToDoListStat>
                    </ToDoListStats>
                </Status>
            </ToDoListInterface>
        </ExternalData>
        <CommentData />
        <Attributes>
            <Attribute Length="2" Type="133" VarFieldId="0" VariableId="1"
isView="N" UserDefinedName="Q_int">12</Attribute>
            <Attribute Length="255" Type="1310" VarFieldId="0" VariableId="19"
isView="N" UserDefinedName="Q_string">ravi</Attribute>
            <Attribute Length="255" Type="1310" VarFieldId="0" VariableId="20"
isView="N" UserDefinedName="Q_string2">raj</Attribute>
            <Attribute Length="50" Type="2310" VarFieldId="0" VariableId="58"
isView="N" UserDefinedName="ext_string">rr</Attribute>
            <Attribute Length="2" Type="233" VarFieldId="0" VariableId="59"
isView="N" UserDefinedName="ext_int">22</Attribute>
            <Attribute Length="0" Type="2311" VarFieldId="1" VariableId="60"
isView="N" UserDefinedName="Q_Cmpny_complex">
                <Attribute Length="50" Type="2310" VarFieldId="2" VariableId="60"
isView="N" UserDefinedName="CmpnyName">name_up</Attribute>
                <Attribute Length="50" Type="2310" VarFieldId="3" VariableId="60"
isView="N" UserDefinedName="CmpnyLocation">lov_up</Attribute>
                <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="1"
MinInsertionOrderId="1" Type="2311" VarFieldId="4" VariableId="60" isView="N"
UserDefinedName="employee">
                    <Attribute Length="50" Type="2310" VarFieldId="5"
VariableId="60" isView="N" UserDefinedName="EmpName">ravi</Attribute>
                    <Attribute Length="4" Type="234" VarFieldId="6"
VariableId="60" isView="N" UserDefinedName="EmpAge">24</Attribute>
                    <Attribute Length="4" Type="234" VarFieldId="10"
VariableId="60" isView="N" UserDefinedName="EmpSalary">2400</Attribute>
                </Attribute>
            </Attribute>
        </Attributes>
        <TimeElapsedToFetchQueueData>1</TimeElapsedToFetchQueueData>
        <TimeElapsedToFetchExternalData>1</TimeElapsedToFetchExternalData>
        <RetrievedCount>53</RetrievedCount>
        <Count>53</Count>
    </WorkitemData>
    <LockResult>Y</LockResult>
    <CacheTime>2021-09-09 14:44:37</CacheTime>
    <SessionId>1374163274</SessionId>
```

```
    <UserName>ravi</UserName>
</WFGetWorkitemDataExt_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
InitiatedBy	TaskInfo	Task initiated by which user.
InitiatedOn	TaskInfo	Task initiated on which date.
AssignedTo	TaskInfo	Task assigned to which user.
DueDate	TaskInfo	Due date of task.
TaskType	TaskInfo	Type of task.
TaskMode	TaskInfo	Task in which mode.
CommentByPersonalName	CommentInfo	Comments by personal name.
CommentToPersonalName	CommentInfo	Comments to personal name.
ActivityName	CommentInfo	Name of activity.
Comment	CommentInfo	Comments specified for the workitem.
CommentBy	CommentInfo	ID of the user who specified the comments.
CommentByName	CommentInfo	Name of the user who specified the comments corresponding to the ID.
CommentTo	CommentInfo	ID of the user to whom comments are given.
CommentToName	CommentInfo	Name of the user to whom comments are given corresponding to the ID.
CommentType	CommentInfo	Type of the comments. It can have one of the following three values: 1 - incase comments are given while referring workitems 2 - incase comments are given while reassigning workitems 3 - incase comments are given at the time of Audit rejection
CommentDateTime	CommentInfo	Date and Time on which comments are specified.

ExcpSeqId	ExceptionHistory	Exception sequence ID.
ActionIndex	ExceptionHistory	ID of the Raising/Clearing action on the exception.
ActivityName	ExceptionHistory	Activity on which the exception was raised or cleared.
UserName	ExceptionHistory	Name of the User who Raised/Cleared the exception.
ActionDateTime	ExceptionHistory	Date-Time on which the exception was Raised/ Cleared.
ExceptionName	ExceptionHistory	Name of the Exception.
ExceptionComments	ExceptionHistory	Comments with which the exception was Raised/ Cleared.
OwnerIndex	Document	Index of document Owner.
OwnerName	Document	Name of document owner.
RevisedDateTime	Document	Revised date time of document.
DocumentVersionNo	Document	Version no. of the Document.
DocumentName	Document	Name of the Document.
CreationDateTime	Document	Date-Time when the Document was added to the workitem
Comment	Document	Comments associated with the document.
CreatedByAppName	Document	Name of the Application through which the document got created in the DMS.
ISIndex	Document	Image Server index for retrieving the image for the document.
DocumentType	Document	Document Type with which the Document is added in the workitem
CheckoutStatus	Document	Status Flag indicating whether the document is currently checked out or not.
CheckoutBy	Document	Name of the User who has check-out the document.
NoOfPages	Document	No. of pages in the document.
DocumentSize	Document	Size of the Document.

DocumentIndex	Document	DMS ID of the Document included in the workitem.
ActivityType	Workitem	Type of Activity. 1 - Work Introduction 2 - Work Exit 3 - Discard 4 - Hold 5 - Distribute 6 - Collect 7 - Decision 18 - SubProcess 10 - Custom 19 – Integration 11 - Query
ProcessName	WorkItem	Name of the process.
ProcessDefId	WorkItem	ID of the Process for which the Variable value setting action is to be enabled.
WorkitemStateId	WorkItem	State Id of Work Item.
LastValue	WorkItem	Last value of workitem.
VariantId	WorkItem	Process variant support.
CanInitiate	WorkItem	Flag that tells whether user can initiate or not.
ShowCaseVisual	WorkItem	Flag that enables to display case visual.
LastModifiedTime	WorkItem	Last modified time of workitem.
CurrentDateTime	WorkItem	Current Date Time at the Server.
ProcessInstanceId	WorkItem	Process Instance ID of the workitem returned.
WorkitemId	WorkItem	Workitem ID of the workitem returned.
RouteName	WorkItem	The Name of the Process to which the fetched workitem belongs.
ProcessVersion	WorkItem	The Version of the Process to which the fetched workitem belongs.
RouteId	WorkItem	The ID of the Process to which the fetched workitem belongs.
ProcessedBy	WorkItem	ID of the User who processed the workitem.

ActivityName	WorkItem	The Name of the Activity on which the workitem currently lies.
ActivityId	WorkItem	The ID of the Activity on which the workitem currently lies.
EntryDateTime	WorkItem	This is the Date and Time at which the workitem entered the activity on which it currently lies.
AssignmentType	WorkItem	Current Assignment Type for the workitem. S – Shared F – Fixed
PriorityLevel	WorkItem	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
ValidTill	WorkItem	Date-Time till which the workitem is valid on the activity.
QueueId	WorkItem	ID of the Queue to which the workitem belongs.
UserId	WorkItem	The ID of the User to whom the workitem is currently assigned to.
AssignedTo	WorkItem	Name of the user to whom the workitem is currently assigned.
CreatedDateTime	WorkItem	Date and Time of creation of the workitem.
WorkItemState	WorkItem	State of the workitem fetched. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
StateName	WorkItem	Name of the State of the workitem
TurnAroundTime	WorkItem	The expected Turn-Around Time for the workitem on the workstep it lies on.
PreviousStage	WorkItem	Name of the Activity from which the workitem has arrived.
LockedByName	WorkItem	Name of the User who has locked the workitem.

LockStatus	WorkItem	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedTime	WorkItem	This is the Date and Time at which the workitem was locked by the user.
QueueName	WorkItem	Name of the Queue to which the workitem belongs.
QueueType	WorkItem	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
CreatedByName	WorkItem	Name of the user who created the workitem
ExpectedProcessDelay	WorkItem	The expected process delay time in hours.
IntroducedBy	WorkItem	Name of the user who introduced the workitem.
IntroductionDateTime	WorkItem	This is the Date and Time at which the workitem was introduced/started in the process.
ProcessInstanceState	WorkItem	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
ReferredBy	WorkItem	Name of the user who referred the workitem
ReferredTo	WorkItem	Name of the user to whom the workitem has been referred to
CheckListCompleteFlag	WorkItem	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete

HoldStatus	WorkItem	Value of System variable Hold Status of the workitem
InstrumentStatus	WorkItem	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
ParentWorkItemID	WorkItem	ID of the Parent Process Instance, incase of Distributed instances.
ProcessInstanceName	WorkItem	Name of the Process Instance.
SaveStage	WorkItem	Name of the Save Stage (Activity) set for the workitem.
Name	Attribute	Name of the workitem Attribute Variable, associated with the activity on which the workitem currently lies.
Value	Attribute	Current Value of the Attribute Variable.
Type	Attribute	This indicates the Type of the data attribute. This is a numeric value, where each digit corresponds to some information about the attribute. 1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 - Queue 2 - External 3 - System 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 - Read 2 - Modify 3 – Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 - Integer 4 - Long 6 - Float 8 - Date 10 - Text
Length	Attribute	Length of the value of the attribute.
ToDoIndex	ToDoListStat	Current value of the To Do Item for the workitem.

Value	ToDoListStat	ID of the Exception associated with the activity on which the workitem currently lies.
ExceptionDefIndex	ExceptionStat	ID of the Exception associated with the activity on which the workitem currently lies.
Status	ExceptionStat	Status of the Exception. R – Raised C – Cleared
ObjectId	Preference	Object ID of the Preferences set for the logged-in User.
ObjectName	Preference	Object name of the Preferences set for the logged-in User.
ObjectType	Preference	Object Type for the Preference object. Q - For saved queries G - General settings D - Search document settings, F - Folder search settings W - WorkDesk
NotifyByEmail	Preference	Flag indicating whether the current logged-in User is to be notified by email for all workitems that get fixed assigned to him.
Data	Preference	Data associated with the Preference Object.
VariantId	Root	It refers to variant id for which the variable list is to be fetched.
ToDoRemark	ToDoHistory	It refers to the remarks provided by user while marking the TODO item for a workitem.
Attribute	Attributes	This tag provides the details of attribute like UserDefinedName,Length,Type and its value.This tag is introduced to allow space in UserDefinedName

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Reminder Failed
400	WF_OPERATION_FAILED	Operation Failed.
15	WM_INVALID_FILTER	Filter is invalid.
856	WF_ARCHIVAL_CABINET_NOT_SET	Archival cabinet not found.
978	WF_TASK_ALREADY_COMPLETED	Task Already done
979	WF_TASK_ALREADY_REVOKED	Task already revoked
998	WF_TASK_ALREADY_EXPIRED	Task already Expired
16	WM_LOCKED	Locked workitem.
300	WF_NO_AUTHORIZATION	No authorization
957	WF_WORKITEM_NOT_PRESENT	Workitem not found.
32	WM_BYPASS_LOCK	Bypass locked

WMFetchWorkItemAttributes

This call returns all the attributes of workitem. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchWorkItemAttributes
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem whose	NA

			attributes are to be fetched.	
WorkItemId *	Root	Yes	ID of the workitem whose attributes are to be fetched.	NA
ActivityId	Root	No	ID of the Activity whose attributes are to be fetched	NA
AttributeName	Root	No	Name of attribute to be fetched	NA
ProcessDefinitionId	Root	No	ID of the Process Definition corresponding to the workitem whose attributes are to be fetched	NA
UserDefVarFlag	Root	No	Flag for Using DomParser (Y)or Newgen Parser(N) X-For enabling XML attributes of the Variable	Y/N/X

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	Attribute	Name of the data attribute.
Type	Attribute	Type of the data attribute. This is a numeric value, where each digit corresponds to some information about the attribute. 1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 - Queue 2 - External 3 - System 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 - Read 2 - Modify 3 – Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 - Integer 4 - Long 6 - Float 8 - Date 10 - Text
Length	Attribute	Length of the attribute
Value	Attribute	Current Value of the attribute
RetrievedCount	Root	It is the number of the workitem attributes fetched in the current batch.
TimeElapsedToFetchQueueData	Root	Total time taken to fetch queue variables
TimeElapsedToFetchExternalData	Root	Total time taken to fetch external variables
Attributes	Root	It contains the list of attributes fetched for the workitem.
Attribute	Attributes	This tag returns the details of the process variable(Attribute) like UserDefinedName, SystemDefinedName, VariableId, Type, and more

		along with its value. This tag is introduced to allow space in UserDefinedName.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No More Data
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

Input XML:

```
<?xml version="1.0"?>
<WMFetchWorkItemAttributes_Input>
    <Option>WMFetchWorkItemAttributes</Option>
    <EngineName>ofcab</EngineName>
    <SessionId>-2017064627</SessionId>
    <ProcessInstanceId>BANK-0000000017-ACC</ProcessInstanceId>
    <WorkItemId>1</WorkItemId>
    <ActivityID>1</ActivityID>
    <ProcessDefinitionId>1</ProcessDefinitionId>
    <ZipBuffer>N</ZipBuffer>
    <CountFlag>Y</CountFlag>
    <Filter>
        <Type>0</Type>
        <Comparison>0</Comparison>
    </Filter>
    <BatchInfo></BatchInfo>
</WMFetchWorkItemAttributes_Input>
```

Output XML:

```
<WMFetchWorkItemAttributes_Output>
    <Option>WMFetchWorkItemAttributes</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Attributes>
        <Attribute Length="2" Type="133" VarFieldId="0" VariableId="1" isView="N"
UserDefinedName="Q_int">12</Attribute>
        <Attribute Length="255" Type="1310" VarFieldId="0" VariableId="19"
isView="N" UserDefinedName="Q_string">ravi</Attribute>
        <Attribute Length="255" Type="1310" VarFieldId="0" VariableId="20"
```

```
isView="N" UserDefinedName="Q_string2">raj</Attribute>
        <Attribute Length="50" Type="2310" VarFieldId="0" VariableId="58"
isView="N" UserDefinedName="ext_string">rr</Attribute>
        <Attribute Length="2" Type="233" VarFieldId="0" VariableId="59" isView="N"
UserDefinedName="ext_int">22</Attribute>
        <Attribute Length="0" Type="2311" VarFieldId="1" VariableId="60"
isView="N" UserDefinedName="Q_Cmpny_complex">
            <Attribute Length="50" Type="2310" VarFieldId="2" VariableId="60"
isView="N" UserDefinedName="CmpnyName">name_up</Attribute>
            <Attribute Length="50" Type="2310" VarFieldId="3" VariableId="60"
isView="N" UserDefinedName="CmpnyLocation">lov_up</Attribute>
            <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="1"
MinInsertionOrderId="1" Type="2311" VarFieldId="4" VariableId="60" isView="N"
UserDefinedName="employee">
                <Attribute Length="50" Type="2310" VarFieldId="5" VariableId="60"
isView="N" UserDefinedName="EmpName">ravi</Attribute>
                <Attribute Length="4" Type="234" VarFieldId="6" VariableId="60"
isView="N" UserDefinedName="EmpAge">24</Attribute>
                <Attribute Length="4" Type="234" VarFieldId="10" VariableId="60"
isView="N" UserDefinedName="EmpSalary">2400</Attribute>
            </Attribute>
        </Attribute>
    </Attributes>
    <RetrievedCount>10</RetrievedCount>
    <Count>10</Count>
</WMFetchWorkItemAttributes_Output>
```

WMFetchWorkItemAttribute

This call returns the attribute of a specified workitem depending upon the filter criterion specified. If however, no filter is specified then, the API behaves in the same way as WMFetchWorkItemAttribute, in which case all the attributes associated with the workitem and their corresponding types and data are returned. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WMFetchWorkItemAttribute_Input>
<Option>WMFetchWorkItemAttribute</Option>
<EngineName>ibps13oct</EngineName>
<SessionId>-1768378551</SessionId>
<ProcessInstanceId>WF-0000000002-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ActivityID>1</ActivityID>
<Attribute>EntryDateTime</Attribute>
<ProcessDefinitionId>1</ProcessDefinitionId>
```

```
<BatchInfo></BatchInfo>
</WMFetchWorkItemAttribute_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchWorkItemAttribute
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem whose attributes are to be fetched.	NA
WorkItemId	Root	Yes	ID of the workitem whose attributes are to be fetched.	NA
ActivityId	Root	No	This tag is for activity ID of the process.	
ProcessDefinitionId	Root	No	This tag is for ProcessDefinition ID of the process.	
AttributeName	Filter	No	This tag is to be specified in case the Type is specified as a value between 0-255. This is the name of the Queue variable based on whose value the workitem list is to be filtered.	NA
UserDefVarFlag	Root	No	This flag is set when the query is for complex data type.	Y- Is user defined variable (Complex variable) N – is not user defined.

BatchInfo	Root	No	This tag is for batching support.	NA
NoOfRecordsToFetch	BatchInfo	No	This tag contains the max number of records to return.	NA
LastValue	BatchInfo	No	This tag contains the last value returned in the previous query	NA
SortOrder	BatchInfo	No	This tag indicates the sorting order.	NA
OrderBy	BatchInfo	No	This tag indicates the columns by which the returned result will be sorted	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMFetchWorkItemAttributes_Output>
<Option>WMFetchWorkItemAttributes</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<UserDefVarFlag>N</UserDefVarFlag>
<Attributes>
<Attribute>
<Name>EntryDateTime</Name>
<Type>318</Type>
<Length>255</Length>
<Value>2017-10-13 11:58:32.207</Value>
</Attribute>
</Attributes>
<RetrievedCount>44</RetrievedCount>
<Count>44</Count>
</WMFetchWorkItemAttributes_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	Attribute	Name of the data attribute.

Type	Attribute	Type of the data attribute. This is a numeric value, where each digit corresponds to some information about the attribute.1st digit indicates the Type of the Variable, whether System, Queue, or External Table. 1 - Queue 2 - External 3 - System 2nd Digit indicates the access permissions on the attribute, on the current activity. 1 - Read 2 - Modify 3 – Both Read and Modify 3rd & 4th Digits indicate the Data Type of the variable. 3 - Integer 4 - Long 6 - Float 8 - Date 10 - Text
Length	Attribute	Length of the attribute
Value	Attribute	Current Value of the attribute
RetrievedCount	Root	It is the number of the workitem attributes fetched in the current batch.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No More Data
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

WMGetWorkItemAttributeValue

This API fetches the current value and type of the specified attribute for a specified workitem. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option *	Root	Yes	It refers to the case-sensitive call name.	WMGetWorkItemAttributeValue
EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId*	Root	Yes	ID of the Process Instance corresponding to the workitem whose attribute value is to be fetched.	NA
WorkItemID *	Root	Yes	ID of the workitem whose attribute value is to be fetched.	NA
Name *	Attribute	Yes	Name of the attribute, whose data is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
Main code	Exception	Error code specified by WAPI.
Name	Attribute	It is the attribute name.
Type	Attribute	It is the attribute type.
Length	Attribute	It is the length of the attribute.
Value	Attribute	It is the current value of the attribute.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session
4	WM_INVALID_PROCESS_INSTANCE	The process instance ID was not valid.
6	WM_INVALID_WORKITEM	The work item ID was not valid.
7	WM_INVALID_ATTRIBUTE	The attribute was not valid.

Input XML:

```
<? Xml Version="1.0"?>
<WMGetWorkItemAttributeValue_Input>
<Option>WMGetWorkItemAttributeValue</Option>
<EngineName>ofcab</EngineName>
<SessionID>528292443</SessionID>
<ProcessInstanceId>BANK-0000000005-ACC</ProcessInstanceId>
<WorkItemID>1</WorkItemID>
<Attribute>
<Name>AccountType</Name>
</Attribute>
</ WMGetWorkItemAttributeValue_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMGetWorkItemAttributeValue_Output>
<Option>WMGetWorkItemAttributeValue</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attributes>
<Name>AccountType</Name>
<Type>1310</Type>
<Length>1024</Length>
<RetrievedCount>37</RetrievedCount>
<Count>37</Count>
</Attributes>
</WMGetWorkItemAttributeValue_Output>
```

WMAssignWorkItemAttributes

This API is used to assign values to attributes of a workitem. It can be used to specify values for multiple workitems at a time. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WMAssignWorkItemAttributes_Input>
    <Option>WMAssignWorkItemAttributes</Option>
    <EngineName>ibps6dec30</EngineName>
    <SessionId>1201037483</SessionId>
    <IsValidationRequired>Y</IsValidationRequired>
    <ProcessInstanceId>caseprocess-0000000004-process</ProcessInstanceId>
    <WorkitemId>1</WorkitemId>
    <ActivityId>1</ActivityId>
    <ProcessDefId>56</ProcessDefId>
    <ActivityType>1</ActivityType>
    <UserDefVarFlag>Y</UserDefVarFlag>
```

```
    <LastModifiedTime></LastModifiedTime>
    <Attributes>
        <Attribute UserDefinedName="Q_int">12</Attribute>
        <Attribute UserDefinedName="Q_string">ravi</Attribute>
        <Attribute UserDefinedName="Q_string2">raj</Attribute>
        <Attribute UserDefinedName="ext_string">rr</Attribute>
        <Attribute UserDefinedName="ext_int">22</Attribute>
        <Attribute UserDefinedName="Q_Cmpny_complex">
            <Attribute UserDefinedName="CmpnyName">name</Attribute>
            <Attribute UserDefinedName="CmpnyLocation">lov</Attribute>
        </Attribute>
    </Attributes>
</WMAssignWorkItemAttributes_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMAssignWorkItem Attributes
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceID	Root	Yes	ID of the Process Instance corresponding to the workitem whose attribute values are to be set.	NA
WorkItemID	Root	Yes	ID of the workitem whose attribute values are to be set.	NA
Name	Attribute	Yes	It is the name of the attribute whose value is to be set.	NA
Value	Attribute	Yes	It is the value of the attribute, which has to be set.	NA
UserDefVarFlag	Root	No	Flag for Using DomParser (Y)or Newgen Parser(N)	Y/N (Refer Sample XML)

InsertionOrderId	Parent Complex Tag(Refer sample XML for better understanding)	No	InsertionOrderId will be passed in WMAssignWorkItemAttributes API call and value of InsertionOrderID will define the type of operation to be performed on Complex array elements.	Following are the 3 cases: The positive value passed in InsertionOrderId tag: Defines the insertionOrderId corresponding to the attributes passed to be updated . 0 value passed in InsertionOrderId tag: Defines that the values passed for Complex array are to be inserted The negative value passed in InsertionOrderId tag: Defines the InsertionOrderId for which row is to be deleted.
HashId	Parent Complex Tag(Refer sample XML for better understanding)	No	Unique hashId for the row of complex array	
LastModifiedTime	Root	No	LastModifiedTime from WfInsatrument Table	
DebugFlag	Root	No	Flag for printing debug message in Console.log	
ActivityId	Root	No	Current activity id at which workitem is present	
ActivityType	Root	No	Current activity Type at which workitem is present	
LastModifiedTime	Root	No		

TaskId	Root	No	TaskId, used in case task variables are set	
SubTaskId	Root	No	SubTaskId, used in case task variables are set	
ProcessDefId	Root	No	Process definition Id	
TemplateVariableId	Data	No	Taskvariable Id	
TaskVariableName	Data	No	Task Variable Name	
Value	Data	No	Task variable value	
VariableType	Data	No	Task variable Type	
Complete	Root	No	Flag to determine which workitem is to be “Done”	D-Done I-Initiate
IsDeleteInsertFlag	Root	No	Flag to indicate if the old data in the array will be deleted or updated before inserting the incoming data in the input XML.	IF its value is Y then the API deletes all the data of the array and then insert the data received in XML and if its value is N then API will update the data corresponding to insertionorderid Sending IsDeleteInsertFlag as Y is not recommended because of performance impact. Default Value - N
Attributes	Root	No	Pass the attributes to set for the workitem under the Attributes tag.	
Attribute	Attributes	No	It refers to the Attribute which is to be set for the workitem. This tag is introduced to allow space in UserDefinedName.	

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFSetAttributes_Output>
    <Option>WFSetAttributes</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <InsertionOrderIdValues>
        <InsertionOrderIdValue>
            <HashId>1</HashId>
            <InsertionOrderId>15</InsertionOrderId>
        </InsertionOrderIdValue>
        <InsertionOrderIdValue>
            <HashId>2</HashId>
            <InsertionOrderId>45</InsertionOrderId>
        </InsertionOrderIdValue>
        <InsertionOrderIdValue>
            <HashId>3</HashId>
            <InsertionOrderId>46</InsertionOrderId>
        </InsertionOrderIdValue>
        <InsertionOrderIdValue>
            <HashId>4</HashId>
            <InsertionOrderId>16</InsertionOrderId>
        </InsertionOrderIdValue>
        <InsertionOrderIdValue>
            <HashId>5</HashId>
            <InsertionOrderId>47</InsertionOrderId>
        </InsertionOrderIdValue>
        <InsertionOrderIdValue>
            <HashId>6</HashId>
            <InsertionOrderId>13</InsertionOrderId>
        </InsertionOrderIdValue>
    </InsertionOrderIdValues>
    <WMStartProcesss_Output>
```

```
        <Exception>
            <MainCode>0</MainCode>
        </Exception>
        <ProcessInstanceId>WF-0000000035-soft_delete</ProcessInstanceId>
        <WorkitemId>1</WorkitemId>
        <ActivityName>Start Event_1</ActivityName>
        <ActivityId>1</ActivityId>
        <CompletionTime>122</CompletionTime>
    </WMStartProcesss_Output>
    <WorkitemUnholded>N</WorkitemUnholded>
</WFSetAttributes_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Attribute	FailedList	Name of the Attribute whose value could not be set.
WMCompleteWorkItem_Output	Root	CompletWorkitem API output only in case <Complete> is 'D'
HashId	Root	
InsertionOrderId	Parent Complex Tag(Refer sample XML for better understanding)	InsertionOrderId will be passed in WMAssignWorkItemAttributes API call and value of InsertionOrderID will define the type of operation to be performed on Complex array elements.
HashId	Parent Complex Tag(Refer sample XML for better understanding)	Unique hashId for a row of the complex array.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session

400	WF_OPERATION_FAILED	Operation failed.
8	WM_ATTRIBUTE_ASSIGNMENT_FAILED	The attribute assignment failed.

WFSetAttributes

This API is used to assign values to attributes of a workitem. It can be used to specify values for multiple workitems at a time. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetAttributes_Input>
<Option>WFSetAttributes</Option>
<EngineName>oracab_1</EngineName>
<SessionId>1507611969</SessionId>
<ProcessInstanceId>Test5-00000000056-Var</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<UserDefVarFlag>Y</UserDefVarFlag>
<Attributes>
<Attribute>
<age>1</age>
<name>8</name>
<data_Var5>
<FirstName>1</FirstName>
<Contact_Number>9452578215</Contact_Number>
<Age>1</Age>
</data_Var5>
</Attribute>
</Attributes>
</WFSetAttributes_Input>
```

```
<WFSetAttributes_Input>
<Option>WFSetAttributes</Option>
<EngineName>ambujsqlcab1</EngineName>
<SessionId>2015006473</SessionId>
<ProcessInstanceId>NestedComp-0000000011-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ActivityId>1</ActivityId>
<ProcessDefId>9</ProcessDefId>
<LastModifiedTime/>
<ActivityType>1</ActivityType>
<UserDefVarFlag>Y</UserDefVarFlag>
<Attributes>
<CompanyVar>
```

```
<CompName>Newgen</CompName>
<CompLocation>Noida</CompLocation>
<InsertionOrderId>0</InsertionOrderId>
<HashId>50fda6a3-6e04-43b1-9544-5a5331f974b7</HashId>
<Employeee>
<EmpName>Mohnish</EmpName>
<EmpAge>29</EmpAge>
<HashId>45a190d2-6943-49e8-b77d-f8552c806cbb</HashId>
<InsertionOrderId>0</InsertionOrderId>
<Address>
<pin>XYZ</pin>
<Country>PQR</Country>
<HashId>e8b37291-0aa3-44e9-8064-6d9cfa533761</HashId>
<InsertionOrderId>0</InsertionOrderId>
</Address>
</Employeee>
<IsDeleteInsertFlag>N</IsDeleteInsertFlag>
</CompanyVar>
</Attributes>
</WFSetAttributes_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name	WFSetAttributes
EngineName	Root	Yes	This is the Name of the cabinet	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceID	Root	Yes	ID of the Process Instance corresponding to the workitem whose attribute values are to be set.	NA
WorkItemID	Root	Yes	ID of the workitem whose attribute values are to be set.	NA
Name	Attribute	Yes	It is the name of the attribute whose value is to be set.	NA
Value	Attribute	Yes	It is the value of the attribute which has to be set.	NA
UserDefVarFlag	Root	No	Flag for Using DomParser (Y)or Newgen Parser(N)	Y/N (Refer Sample XML)

InsertionOrderId	Parent Complex Tag(Refer sample XML for better understanding)	No	InsertionOrderId will be passed in WMAssignWorkItemAttributes api call and value of InsertionOrderID will define the type of operation to be performed on Complex array elements .	Following are the 3 cases : Positive value passed in InsertionOrderId tag : Defines the insertionOrderId corresponding to the attributes passed to be updated . 0 value passed in InsertionOrderId tag : Defines that the values passed for Complex array are to be inserted Negative value passed in InsertionOrderId tag : Defines the InsertionOrderId for which row is to be deleted.
HashId	Parent Complex Tag(Refer sample XML for better understanding)	No	Unique hashId for row of complex array	
LastModifiedTime	Root	No	LastModifiedTime from WfInsatrument Table	
DebugFlag	Root	No	Flag for printing debug message in Console.log	
ActivityId	Root	No	Current activity id at which workitem is present	
ActivityType	Root	No	Current activity Type at which workitem is present	
LastModifiedTime	Root	No		

TaskId	Root	No	TaskId ,used in case task variables are set	
SubTaskId	Root	No	SubTaskId ,used in case task variables are set	
ProcessDefId	Root	No	Process defination Id	
TemplateVariableId	Data	No	Taskvariable Id	
TaskVariableName	Data	No	Task Variable Name	
Value	Data	No	Task variable value	
VariableType	Data	No	Task variable Type	
CompleteFlag	Root	No	Flag to determine which workitem is to be “Done”	Y-Done I-Initiate
IsDeleteInsertFlag	Root	No	Flag to indicate if the old data in the arrray will be deleted or updated before inserting the incoming data in the input XML.	IF it's value is Y then API wll delete all the data of array and then insert the data which is recieved in xml and if it's value is N then API will update the data corresponding to insertionorderid Sending IsDeleteInsertFlag as Y is not recommended because of performance impact. Default Value - N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetAttributes_Output>
<Option>WFSetAttributes</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFSetAttributes_Output>
```

```
<WFSetAttributes_Output>
<Option>WFSetAttributes</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<InsertionOrderIdValues>
<InsertionOrderIdValue>
<HashId>50fda6a3-6e04-43b1-9544-5a5331f974b7</HashId>
<InsertionOrderId>24</InsertionOrderId>
</InsertionOrderIdValue>
<InsertionOrderIdValue>
<HashId>e8b37291-0aa3-44e9-8064-6d9cfa533761</HashId>
<InsertionOrderId>49</InsertionOrderId>
</InsertionOrderIdValue>
<InsertionOrderIdValue>
<HashId>45a190d2-6943-49e8-b77d-f8552c806cbb</HashId>
<InsertionOrderId>34</InsertionOrderId>
</InsertionOrderIdValue>
</InsertionOrderIdValues>
</WFSetAttributes_Output>
```

Response parameters description:

Parameter	Parent tag	Description

Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Attribute	FailedList	Name of the Attribute whose value could not be set.
WMCompleteWorkItem_Output	Root	CompletWorkitem API output only incase <CompleteFlag> is 'Y'
HashId	Root	
InsertionOrderId	Parent Complex Tag(Refer sample XML for better understanding)	InsertionOrderId will be passed in WMAssignWorkItemAttributes api call and value of InsertionOrderID will define the type of operation to be performed on Complex array elements .
HashId	Parent Complex Tag(Refer sample XML for better understanding)	Unique hashId for row of complex array

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation failed.
8	WM_ATTRIBUTE_ASSIGNMENT_FAILED	The attribute assignment failed.

WFGetExternalData

This API is used to fetch the external data regarding To-Do Lists, Exceptions, Document Types, Scan Tool, Form, Actions, etc for a specified workitem, or fetch the External Tool Definitions for a specific Activity in a specified Process.

This API can be used to fetch the External Data associated with an activity of a Process, in which case you need to specify the Process ID and the Activity ID, for which the data is to be fetched. This API can also be used to fetch the External Data information for a workitem, in which case you also need to specify the Process Instance ID and the Workitem ID of that workitem. You can view the XML input and output parameters, for the API.

There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetExternalData_Input>
<Option>WFGetExternalData</Option>
<EngineName>iBPS5SP2PostgresSrvrCab</EngineName>
<SessionId>-524286112</SessionId>
<ProcessDefinitionID>6</ProcessDefinitionID>
<ActivityID>2</ActivityID>
<ProcessInstanceId>testToDO-0000000002-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<VariantId>0</VariantId>
<ZipBuffer>N</ZipBuffer>
<DefinitionFlag>Y</DefinitionFlag>
</WFGetExternalData_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetExternalData
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId (Mandatory if the API is to fetch the external data for a workitem)	Root	Yes	ID of the Process Instance for which the External data is to be fetched.	NA
WorkItemId (Mandatory if the API is to fetch the external data for a workitem)	Root	Yes	ID of the Workitem for which the External data is to be fetched.	NA

ActivityId (Mandatory if the API is to fetch the external data definitions on an activity in a process)	Root	Yes	ID of the Activity for which the External data definitions is to be fetched.	NA
ProcessDefinitionId (Mandatory if the API is to fetch the external data definitions on an activity in a process)	Root	Yes	ID of the Process that contains the Activity for which the External data definitions is to be fetched.	NA
DefinitionFlag	Root	No	Flag indicating whether definition is returned or not.	Y or N
ZipBuffer	Root	No	Flag indicating whether output is required to be zipped or not.	Y or N
VariantId	Root	No	It refers to variant id for which the variable list is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetExternalData_Output>
```

```
<Option>WFGetExternalData</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<CacheTime>2021-09-30 16:37:00</CacheTime>
<CallFromIbps>Y</CallFromIbps>
<FormViewerApp>J</FormViewerApp>
<Interface>
<Name>ToDoList</Name>
<Class></Class>
<Url></Url>
<Coordinates>Y,0,915,7305,7005</Coordinates>
</Interface>
<Interface>
<Name>FormView</Name>
<Class></Class>
<Url></Url>
<Coordinates>Y,0,930,10275,15360</Coordinates>
</Interface>
<Interface>
<Name>Exceptions</Name>
<Class></Class>
<Url></Url>
<Coordinates>Y,0,915,7305,7005</Coordinates>
</Interface>
<Interface>
<Name>Document</Name>
<Class></Class>
<Url></Url>
<Coordinates>Y,0,915,7305,7005</Coordinates>
</Interface>
<Interface>
<Name>ScanTool</Name>
<Class></Class>
<Url></Url>
<Coordinates></Coordinates>
</Interface>
<RecordMapping>
<MappedDatabaseName>onLine</MappedDatabaseName>
<MappedDatabaseType>local</MappedDatabaseType>
<MappedDatabaseTable>ext_testToDo</MappedDatabaseTable>
<MappedObjectID>1</MappedObjectID>
<ColumnREC1>itemindex</ColumnREC1>
<ColumnREC2>itemtype</ColumnREC2>
<ValueREC1>194</ValueREC1>
<ValueREC2>F</ValueREC2>
<ValueREC5>1</ValueREC5>
</RecordMapping>
<ToDoListInterface>
<Status>
<ToDoListStats>
<ToDoListStat>
<ToDoIndex>1</ToDoIndex>
<Value>No</Value>
</ToDoListStat>
<ToDoListStat>
<ToDoIndex>2</ToDoIndex>
```

```
<Value>pick2_1</Value>
</ToDoListStat>
<ToDoListStat>
<ToDoIndex>3</ToDoIndex>
<Value>Yes</Value>
</ToDoListStat>
<ToDoListStat>
<ToDoIndex>4</ToDoIndex>
<Value>Yes</Value>
</ToDoListStat>
</ToDoListStats>
</Status>
<Definition>
<ToDoListDefs>
<ToDoListDef>
<ToDoIndex>1</ToDoIndex>
<ToDoExternalObjectIndex>0</ToDoExternalObjectIndex>
<Mandatory>Y</Mandatory>
<ViewType>M</ViewType>
<Name>ToDo1</Name>
<Description>kk</Description>
<AssociatedField>
<None>
</AssociatedField>
<VariableId>0</VariableId>
<VarFieldId>0</VarFieldId>
<CategoryId>2</CategoryId>
<CategoryName>todocategory_1</CategoryName>
<Attribute>M</Attribute>
<AdditionalToDoItem>N</AdditionalToDoItem>
</ToDoListDef>
<ToDoListDef>
<ToDoIndex>2</ToDoIndex>
<ToDoExternalObjectIndex>0</ToDoExternalObjectIndex>
<Mandatory>Y</Mandatory>
<ViewType>P</ViewType>
<Name>ToDo2</Name>
<Description>kk</Description>
<AssociatedField>
<None>
</AssociatedField>
<PickLists>
<PickListData>
<PickList>pick2</PickList>
<PickListId>1</PickListId>
<PickListOrderId>1</PickListOrderId>
</PickListData>
<PickListData>
<PickList>pick2_1</PickList>
<PickListId>2</PickListId>
<PickListOrderId>2</PickListOrderId>
</PickListData>
<PickListCount>2</PickListCount>
</PickLists>
<VariableId>0</VariableId>
<VarFieldId>0</VarFieldId>
<CategoryId>3</CategoryId>
```

```
<CategoryName>todocategory_2</CategoryName>
<Attribute>M</Attribute>
<AdditionalToDoItem>N</AdditionalToDoItem>
</ToDoListDef>
<ToDoListDef>
<ToDoIndex>3</ToDoIndex>
<ToDoExternalObjectIndex>0</ToDoExternalObjectIndex>
<Mandatory>N</Mandatory>
<ViewType>M</ViewType>
<Name>ToDo Mark1</Name>
<Description>kk</Description>
<AssociatedField>
<None>
</AssociatedField>
<VariableId>0</VariableId>
<VarFieldId>0</VarFieldId>
<CategoryId>4</CategoryId>
<CategoryName>todocategory_3</CategoryName>
<Attribute>M</Attribute>
<AdditionalToDoItem>N</AdditionalToDoItem>
</ToDoListDef>
<ToDoListDef>
<ToDoIndex>4</ToDoIndex>
<ToDoExternalObjectIndex>0</ToDoExternalObjectIndex>
<Mandatory>N</Mandatory>
<ViewType>M</ViewType>
<Name>TodoPicklist2</Name>
<Description>kk</Description>
<AssociatedField>
<None>
</AssociatedField>
<VariableId>0</VariableId>
<VarFieldId>0</VarFieldId>
<CategoryId>2</CategoryId>
<CategoryName>todocategory_1</CategoryName>
<Attribute>M</Attribute>
<AdditionalToDoItem>N</AdditionalToDoItem>
</ToDoListDef>
</ToDoListDefs>
</Definition>
</ToDoListInterface>
<FormInterface>
<Definition>
<Forms></Forms>
</Definition>
</FormInterface>
<ExceptionInterface>
<Definition>
<ExceptionDefs>
<ExceptionDef>
<ExceptionDefIndex>1</ExceptionDefIndex>
<ExceptionDefName>exc1</ExceptionDefName>
<Description>kkkk</Description>
<CategoryId>5</CategoryId>
<CategoryName>Exceptioncategory_1</CategoryName>
<Attributes>
<Attribute>
```

```
<Type>5</Type>
<Trigger></Trigger>
</Attribute>
<Attribute>
<Type>5</Type>
<Trigger></Trigger>
</Attribute>
<Attribute>
<Type>5</Type>
<Trigger></Trigger>
</Attribute>
</Attributes>
</ExceptionDef>
<ExceptionDef>
<ExceptionDefIndex>2</ExceptionDefIndex>
<ExceptionDefName>exc2</ExceptionDefName>
<Description>kk</Description>
<CategoryId>6</CategoryId>
<CategoryName>Exceptioncategory_2</CategoryName>
<Attributes>
<Attribute>
<Type>6</Type>
<Trigger></Trigger>
</Attribute>
<Attribute>
<Type>6</Type>
<Trigger></Trigger>
</Attribute>
<Attribute>
<Type>6</Type>
<Trigger></Trigger>
</Attribute>
</Attributes>
</ExceptionDef>
</ExceptionDefs>
</Definition>
<Status>
<ExceptionStats>
<ExceptionStat>
<ExceptionDefIndex>2</ExceptionDefIndex>
<ExceptionHistories>
<ExceptionHistory>
<ExcpSeqId>2</ExcpSeqId>
<ActionIndex>9</ActionIndex>
<ActivityName>Workdesk_2</ActivityName>
<UserName>RAVI</UserName>
<ActionDateTime>2021-09-30 12:47:36.309213</ActionDateTime>
<ExceptionName>exc2</ExceptionName>
<ExceptionComments>ravi & !@#$%^ check</ExceptionComments>
</ExceptionHistory>
<ExceptionHistory>
<ExcpSeqId>1</ExcpSeqId>
<ActionIndex>9</ActionIndex>
<ActivityName>Workdesk_2</ActivityName>
<UserName>ravi</UserName>
<ActionDateTime>2021-09-09 15:05:32.070341</ActionDateTime>
<ExceptionName>exc2</ExceptionName>
```

```
<ExceptionComments>new exception</ExceptionComments>
</ExceptionHistory>
</ExceptionHistories>
</ExceptionStat>
</ExceptionStats>
</Status>
</ExceptionInterface>
<DocumentTypeInterface>
<Definition>
<SearchDocumentMapping></SearchDocumentMapping>
<DocumentTypes>
<DocumentType>
<DocumentTypeDefIndex>1</DocumentTypeDefIndex>
<DocumentTypeDefName>Doc1</DocumentTypeDefName>
<Attribute>T</Attribute>
<VariantId>0</VariantId>
<SubCategory>Scan copy of filled form</SubCategory>
<IsMandatory>N</IsMandatory>
<ScanActions></ScanActions>
</DocumentType>
</DocumentTypes>
</Definition>
<Status></Status>
<MultiLingualDocumentMappings></MultiLingualDocumentMappings>
</DocumentTypeInterface>
</WFGetExternalData_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
CacheTime	Root	Date Time at which the result of this API was last cached on the Server.
Name	Interface	Name of the external Tool Window/ Interface.
Class	Interface	Run-Time execution Class Name of the external Tool Window/Interface.
URL	Interface	Run-Time execution JSP to be launched for the external Tool Window/ Interface.
Coordinates	Interface	Coordinates on the WorkDesk, where the External Tool window is to be launched.

MappedDatabaseName	RecordMapping	Name of the Database whose External Table has been included in the Process.
MappedDatabaseType	RecordMapping	Type of the Database whose External Table has been included in the Process.
MappedDatabaseTable	RecordMapping	Name of the External Table included in the Process.
MappedObjectID	RecordMapping	Ext Object ID for the External Table Included. This is always 1.
ColumnREC1	RecordMapping	The Column of the External Table that is mapped to the VAR_REC_1 Record Mapping Field.
ValueREC1	RecordMapping	The value of the VAR_REC_1 Record Mapping Field, for the specified workitem.
ColumnREC2	RecordMapping	The Column of the External Table that is mapped to the VAR_REC_2 Record Mapping Field.
ValueREC2	RecordMapping	The value of the VAR_REC_2 Record Mapping Field, for the specified workitem .
ColumnREC3	RecordMapping	The Column of the External Table that is mapped to the VAR_REC_3 Record Mapping Field.
ValueREC3	RecordMapping	The value of the VAR_REC_3 Record Mapping Field, for the specified workitem.
ColumnREC4	RecordMapping	The Column of the External Table that is mapped to the VAR_REC_4 Record Mapping Field.
ValueREC4	RecordMapping	The value of the VAR_REC_4 Record Mapping Field, for the specified workitem.
ColumnREC5	RecordMapping	The Column of the External Table that is mapped to the VAR_REC_5 Record Mapping Field.

ValueREC5	RecordMapping	The value of the VAR_REC_5 Record Mapping Field, for the specified workitem.
CategoryId	Root	This signifies the Categoryid specific to the category of the TODO item.
CategoryName	Root	This signifies the category name specific to the category of the TODO item.
SubCategory	DocumentType	This tag signifies the sub category of the document type defined in the process.
IsMandatory	DocumentType	This signifies that whether the document is mandatory or not
Following Tags specify the To Do Items Associated with the Activity		
ToDoIndex	ToDoListDef	ID of the TO DO Item defined in the Process.
Mandatory	ToDoListDef	Flag indicating whether the To Do Item is mandatory or not. Y - Mandatory N – Not Mandatory
ViewType	ToDoListDef	View Type for the To Do Item. M – Mark P – Picklist T – Trigger
Name	ToDoListDef	Name of the To Do Item.
Description	ToDoListDef	Description String defined for the To Do Item.
AssociatedField	ToDoListDef	Name of the variable associated with the To Do Item, such that the value of the To DO Item will be reflected in the Associated Field.
ToDoExternalObjectIndex	ToDoListDef	Ext Object ID of the Variable associated with the To Do Item. 1 – For External Table variables 0 - Otherwise.

PickList	PickLists	Pick List value in the Pick List defined for the To DO Item.
PickListCount	PickLists	No. of Pick List values defined in the Pick List.
AdditionalToDoItem	ToDoListDef	Flag indicating whether this To Do Item is to be displayed in the Additional To Do List when requested by a user on the Activity. Additional To Do Items are the ones that are not associated with an activity, but they may be displayed to the user in Read Only mode on the activity, on request. N – Not an Additional To Do Item. Y – Additional To Do Item
Value	ToDoListStat	The current value of the To Do Item. This is returned only incase the Process Instance ID and workitem ID have been specified in input.
Following Tags specify the Data related to the Form Associated with the Activity		
FormIndex	Form	ID of the NGF form associated with the activity.
FormName	Form	Name of the NGF Form associated with the activity.
LengthFormBuffer	Form	Length of the Form Buffer.
FormBuffer	Form	Form Buffer binary data of the associated with the activity.
Following Tags specify the Document Types Associated with the Activity		
DocumentTypeDefIndex	DocumentTypes/ DocumentType	ID of the Document Type associated with the Activity.
DocumentTypeDefName	DocumentTypes/ DocumentType	Name of the Document Type.

Attribute	DocumentType	Attribute with which the Document Type is associated with the activity. V –Viewable M – View and Modify A – Addable B – Viewable and Addable T – Viewable, Addable and Modifiable
Parameter1	ScanActions/ ScanAction	Name of the Variable to be set on addition of the corresponding Document Type in a workitem on the activity.
Type1	ScanActions/ ScanAction	Type of the Parameter. Q/U – Queue/User Defined I – External M – System Modifiable
ExternalObjectId1	ScanActions/ ScanAction	Ext Obj ID for the variable specified in Parameter1. 1 – For 'I' type of Variables 0 - Otherwise
Parameter2	ScanActions/ ScanAction	Name of the Variable whose value is to be set in variable specified in Parameter1, on addition of the corresponding Document Type in a workitem on the activity. This can also be a constant value.
Type2	ScanActions/ ScanAction	Type of the Parameter. Q/U – Queue/User Defined I – External M – System Modifiable S - System C – Constant
ExternalObjectId2	ScanActions/ ScanAction	Ext Obj ID for the variable specified in Parameter2. 1 – For 'I' type of Variables 0 - Otherwise
Following Tags specify the Actions Associated with the Activity		
ActionIndex	Action	ID of the Action associated with the activity.

ActionName	Action	Name of the Action associated with the activity.
ActionViewAs	RuleCondition	View Type for the Action. M – As menu Option in Thick Client/ Button in Toolbar in Thin Client
ActionIcon	RuleCondition	Icon Buffer for the Action. This is the .gif image which will display the Action button in the Web Client.
Operand1	RuleCondition	Name of the Variable whose value is to be compared to the value of another variable/constant. Name of the variable in operand 1 of the specified rule condition.
Operand2	RuleCondition	Name of the variable in operand 2 of the specified rule condition.
Type1	RuleCondition	Type of Variable in Operand 1. Q/U – Queue/User Defined I – External M – System Modifiable S - System
Type2	RuleCondition	Type of Variable in Operand 2. Q/U – Queue/User Defined I – External M – System Modifiable S - System C – Constant
Operator	RuleCondition	Value specifying the comparison operator for comparing the values of variables in Param-1 and Param-2. 1 - > 2 - >= 3 - = 4 - <> 5 - < 6 - <= 7 - Like 8 - Not like

LogFlag	RuleCondition	Logical Operator which binds the specified condition with the previous Rule Condition. 1 - AND 3 - OR
OperatorIndex	RuleAction	It is an Integer value indicating the Order of the Rule Action. Order in which the Actions are to be executed.
Operator	RuleAction	Type of Operation to be performed on satisfaction of the specified condition. ACTION_SET = 1 ACTION_INITIATE = 2 ACTION_WAITAT = 3 ACTION_ROUTETO = 4 ACTION_RAISE = 5 ACTION_CLEAR = 6 ACTION_MERGE = 7 ACTION_INCPRIORITY = 8 ACTION_DECPRIORITY = 9 ACTION_REINITIATE = 10 ACTION_ARCHIVE = 12 ACTION_SUBMIT = 13 ACTION_RELEASE = 14 ACTION_TRIGGER = 15 ACTION_COMMIT = 16 ACTION_ROLLBACK = 17ACTION_ASSIGNTO=18 ACTION_SETPARENTDATA=19 ACTION_CALL = 22 ACTION_SET&EXECUTE = 23
Operand1	RuleAction	Name of the Variable whose value is to be set to the value of another variable/ constant. Name of the variable in operand 1 of the specified rule condition.
Operand2	RuleAction	Name of the variable in operand 2 of the specified rule condition.
Operand3	RuleAction	Name of the variable in operand 3 of the specified rule condition.

Type1	RuleAction	Type of Variable in Operand1. Q/U – Queue/User Defined I – External M – System Modifiable S - System
Type2	RuleAction	Type of Variable in Operand2. Q/U – Queue/User Defined I – External M – System Modifiable S - System C - Constant
Type3	RuleAction	Type of Variable in Operand3. Q/U – Queue/User Defined I – External M – System Modifiable S - System C - Constant
ExprOperator	RuleAction	Expression operator binding Operand 2 and Operand 3. ADD = 11 SUBTRACT = 12 MULTIPLY = 13 DIVIDE = 14
Following Tags specify the Exceptions Associated with the Activity		
ExceptionDefIndex	ExceptionDef	ID of the Exception.
ExceptionDefName	ExceptionDef	Name of Exception.
Description	ExceptionDef	Description Text associated with the Exception.
Type	ExceptionDef	Attribute Type of Exception. VR – Exception is associated with View and Raise rights. VC - Exception is associated with View and Raise rights. V – Exception is associated with only View rights.
ActivityName	ExceptionHistory	Name of activity on which the Exception was Raised/Cleared.

UserName	ExceptionHistory	Name of user who Raised/Cleared the exception.
ActionDateTime	ExceptionHistory	Date and time when the Exception was Raised/Cleared.
ExceptionName	ExceptionHistory	Name of the Exception.
ExceptionComments	ExceptionHistory	Comments with which the Exception was Raised/Cleared.
EncodedBinaryData	Root	Returning data in zip form.
Following Tags specify the data corresponding to the Archive Tool associated with the Activity		
CabinetName	ArchiveInterface	Name of the cabinet in which the workitem data on the specified activity is to be archived.
IPAddress	ArchiveInterface	IP Address of the NewgenONE Server on which the specified cabinet is configured.
PortID	ArchiveInterface	PORT No. on which the Server is listening.
ArchiveAs	ArchiveInterface	Path in the cabinet, where the workitem data is to be archived.
ArchiveDataClassId	ArchiveInterface	ID of the DMS Data Class to be associated with the archived workitem folders, to store the data for the workitem.
UserName	ArchiveInterface	Name of the User with which the server is to be connected for archiving the data.
Password	ArchiveInterface	Password with which the connection is to be established with the cabinet for archiving the data.
DocTypeId	ArchiveDocType	ID of the Document Type, whose corresponding document in the workitem is to be archived.
DocTypeName	ArchiveDocType	Name of the Document Type, whose corresponding document in the workitem is to be archived.

DataClassId	ArchiveDocType	Data class ID of the DMS Data Class which needs to be associated with the Document being archived.
DocTypeId	ArchiveDataMap	ID of the Document Type whose corresponding document in the workitem is to be archived.
DataFieldId	ArchiveDataField	ID of the DMS Data field in the associated DMS Data Class.
DataFieldName	ArchiveDataField	Name of the DMS Data field in the associated DMS Data Class.
AssociatedVar	ArchiveDataField	Name of the Workflow Process variable whose value is to be set in the corresponding DMS Data Field.
Following Tags specify the data corresponding to the Print Fax Email Tool associated with the Activity		
FaxNo	PrintFaxEmailInterface	Variable indicating the Fax number on which the Documents are to be Faxed. This can also be a constant number.
FaxNoType	PrintFaxEmailInterface	Type of variable indicating the Fax number. Q/U – Queue/User Defined I – External M – System Modifiable S - System C – Constant
ToUser	PrintFaxEmailInterface	Variable indicating the To User Email Address on which the Documents are to be Emailed. This can also be a constant email id.
FromUser	PrintFaxEmailInterface	Variable indicating the From User Email Address from whose ID the Documents are to be Emailed. This can also be a constant email id.
ToMailId	PrintFaxEmailInterface	Variable indicating the To User Email Address on which the Documents are to be Emailed. This can also be a constant email id.

ToMailIdType	PrintFaxEmailInterface	Type of Variable indicated in ToMailId. Q/U – Queue/User Defined I – External M – System Modifiable S - System C – Constant
SenderMailId	PrintFaxEmailDocType	Variable indicating the From User Email Address from whose ID the Documents are to be Emailed. This can also be a constant email id.
CCMailIdType	PrintFaxEmailDocType	Type of Variable indicated in SenderMailId. Q/U – Queue/User Defined I – External M – System Modifiable S - System C – Constant
CCMailId	PrintFaxEmailDocType	Variable indicating the CC User Email Address on which the Documents are to be Emailed. This can also be a constant email id.
CCMailIdType	PrintFaxEmailDocType	Type of Variable indicated in CCMailId. Q/U – Queue/User Defined I – External M – System Modifiable S - System C – Constant
Subject	PrintFaxEmailDocType	Subject of mail.
Message	PrintFaxEmailDocType	Message in the mail.
DocTypeId	PrintFaxEmailDocType	ID of the Document Type whose corresponding document in the workitem is to be Printed/Faxed/ Emailed.
DocTypeName	PrintFaxEmailDocType	Name of the Document Type whose corresponding document in the workitem is to be Printed/Faxed/ Emailed.

CreateDoc	PrintFaxEmailDocType	Flag indicating whether the Document is to be created from the associated Template, incase it does not exist in the workitem.
Following Tags specify the data corresponding to the Triggers that may be associated with any of the External Tool Windows on the Activity		
DataSetParam1	Definition (For SetData Attribute Trigger Type)	Name of the Variable in Parameter -1 for the Set Data Trigger Type.
DataSetType1	Definition (For SetData Attribute Trigger Type)	Type of the Variable in Parameter -1 for the Set Data Trigger Type.
DataSetExtObjId1	Definition (For SetData Attribute Trigger Type)	Ext Obj ID of the Variable in Parameter -1 for the Set Data Trigger Type.
DataSetParam2	Definition (For SetData Attribute Trigger Type)	Name of the Variable in Parameter -2 for the Set Data Trigger Type.
DataSetType2	Definition (For SetData Attribute Trigger Type)	Type of the Variable in Parameter -2 for the Set Data Trigger Type.
DataSetExtObjId2	Definition (For SetData Attribute Trigger Type)	Ext Obj ID of the Variable in Parameter -2 for the Set Data Trigger Type.
ExceptionName	Definition (For Exception Trigger Type)	Name of the Exception for Exception Type Trigger.
Attribute	Definition (For Exception Trigger Type)	Attribute, whether to Raise/Clear Exception in the Trigger.
RaiseViewComment	Definition (For Exception Trigger Type)	Exception Raising/Clearing Comments to be Associated with the Trigger.
ExceptionId	Definition (For Exception Trigger Type)	ID of the Exception.
FunctionName	Definition (For Execute Application Trigger Type)	Name of the Function to be invoked in case of Execute Application Trigger Type.
ArgList	Definition (For Execute Application Trigger Type)	Arg List consisting of Variables which have to be passed as parameters while invoking the specified function.
FileName	Definition (For Generate Response Trigger Type)	Name of the Response File associated with the Generate Response Trigger Type.

ApplicationName	Definition (For Generate Response Trigger Type)	Name of the Application to be invoked. This is generally windowrd, as OF supports Generate Response for MS Word only.
ArgList	Definition (For Generate Response Trigger Type)	Arg List consisting of Variables which have to be replaced by their values in the Response File.
GenDocType	Definition (For Generate Response Trigger Type)	The Document Type with which the Response File is to be added to the workitem.
ApplicationName	Definition (For Launch Application Trigger Type)	Name of the Application to be launched incase of LaunchApplication Trigger.
ArgList	Definition (For Launch Application Trigger Type)	Arg List consisting of Variables which have to be passed as command line arguments while launching the external application.
Subject	Definition (For Mail Trigger Type)	Subject String for Mail Trigger Type.
FromUser	Definition (For Mail Trigger Type)	From User for Mail Trigger Type.
FromUserType	Definition (For Mail Trigger Type)	From User Type for Mail Trigger Type. i.e. C – Constant Email Address V – For Variable
ExtObjIdFromUser	Definition (For Mail Trigger Type)	Incase the FromUserType is V, then ExtObjId for the Variable.
ToUser	Definition (For Mail Trigger Type)	To User for Mail Trigger Type.
ToType	Definition (For Mail Trigger Type)	To User Type for Mail Trigger Type. i.e. C – Constant Email Address V – Variable
ExtObjIdTo	Definition (For Mail Trigger Type)	Incase the ToUserType is V, then ExtObjId for the Variable.
CCUser	Definition (For Mail Trigger Type)	CC User for Mail Trigger Type.

CCType	Definition (For Mail Trigger Type)	CC User Type for Mail Trigger Type. i.e. C – Constant Email Address V – Variable
ExtObjIdCC	Definition (For Mail Trigger Type)	Incase the CCUserType is V, then ExtObjId for the Variable.
Message	Definition (For Mail Trigger Type)	Mail Message Text.
DataEntryTriggerVariableName	Definition (For DataEntry Trigger Type)	Variable Name for which Data Entry Form is to be painted for Data Entry Trigger Type.
DataEntryTrigger Type	Definition (For DataEntry Trigger Type)	Type of the Variable
TriggerExtObjId	Definition (For DataEntry Trigger Type)	Ext Obj ID for the Variable

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation failed
15	WM_INVALID_FILTER	The requested filter is invalid.
11	WM_INVALID_SESSION_HANDLE	Invalid session
4	WM_INVALID_PROCESS_INSTANCE	The process instance ID was not valid.

WFSetExternalData

This API is used to set the External Data corresponding to todo list status, exceptions, and others, for a specified workitem. You can view the XML input and output

parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetExternalData_Input>
<Option>WFSetExternalData</Option>
<EngineName>iBPS5SP2PostgresSrvrCab</EngineName>
<SessionId>1374163274</SessionId>
<UserName>ravi</UserName>
<UserIndex>7</UserIndex>
<ProcessDefinitionID>6</ProcessDefinitionID>
<ActivityID>1</ActivityID>
<ProcessInstanceId>testToDO-0000000007-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ActivityType>1</ActivityType>
<Exceptions />
<ToDoLists>
<ToDoList>
<ToDoIndex>1</ToDoIndex>
<Value>Yes</Value>
<ToDoRemark>comment</ToDoRemark>
</ToDoList>
</ToDoLists>
<Actions />
<DocumentTypes />
</WFSetExternalData_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetExternalData
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ActivityID	Root	Yes	ID of the activity that contains the workitem whose external data is being set.	NA
ProcessDefinitionID	Root	Yes	ID of the Process that contains the workitem whose external data is being set.	NA

ProcessInstanceId	Root	Yes	Process Instance ID of the workitem whose external data is being set.	NA
WorkItemId	Root	Yes	ID of the workitem corresponding to the specified Process Instance.	NA
ActivityType	Root	No	Activity Type of the current workdesk activity	NA
LastModifiedTime	Root	No	Last Modified time of the workitem	NA
TaskId	Root	No	TaskID of the task for which the data is to be set	NA
DefinitionFlag	Root	No	Definition flag is set when the Layout definition is also to be updated	NA
OmniService	Root	No	This flag sets the System as invoker when flag is set (Y).	NA
WSLayoutDefinition	Root	No	This tag contains the Layout definitions. When DefinitionFlag is given, then only this field is considered for setting layout definition.	NA
DebugFlag	Root	No	This flag is for printing the database queries	Y-Queries will be printed N – Queries will not be printed
ProcessVariantID	Root	No	This field is for process variant ID	NA
Username	Root	No	Username contains the user names	NA
Userindex	Root	No	This field contains the user id of the user	NA
ToDoRemark	ToDoLists	No	It refers to the remarks provided while marking the TODO item for a workitem.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetExternalData_Output>
<Option>WFSetExternalData</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<WFSetToDoList_Output>
<Exception>
<SubCode>0</SubCode>
</Exception>
</WFSetToDoList_Output>
</WFSetExternalData_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

In case the setting on any of the specified external tools fails, then the corresponding error is returned in the <SubCode> Tag corresponding to the Tool.

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	The requested filter is invalid.
11	WM_INVALID_SESSION_HANDLE	Invalid session
4	WM_INVALID_PROCESS_INSTANCE	The process instance ID was not valid.
400	WF_OPERATION_FAILED	Operation failed

WMUnlockWorkItem

This API is used to unlock a currently locked workitem or task. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMUnlockWorkItem
EngineName	Root	Yes	It is the name of the cabinet	NA
SessionID	Root	Yes	It is the logged in user's session id	NA
ProcessDefinitionId	Root	Yes	ID of the Process Instance to be unlocked corresponding to the workitem	NA
WorkitemId	Root	Yes	ID of the workitem to be unlocked	NA

UnlockOption	Root	No	Execution Mode –Workitem mode / User mode /Task mode. In User mode, all WIs locked by the user will be unlocked . In Workitem mode, single workitem will be unlocked. In Task mode, single task will be unlocked.	W/U W-workitem U- User T- Task
ActivityId	Root	No	Id of the Activity	NA
TaskId	Root	No	Id of the task in case Unlock option passed is T	NA
SubTaskId	Root	No	Id of the sub-task in case Unlock option passed is T	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
6	WM_INVALID_WORKITEM	Invalid Workitem
12	WM_INVALID_FILTER	Invalid Query Handle
17	WM_NOT_LOCKED	Not Locked
999	WF_INVALID_TASK	Task is invalid
978	WF_TASK_ALREADY_COMPLETED	Task is already completed
400	WF_OPERATION_FAILED	The requested operation failed.

Input XML:

```
<WMUnlockWorkItem_Input>
<Option>WMUnlockWorkItem</Option>
<EngineName>ibps5oct</EngineName>
<SessionId>-1871735617</SessionId>
<ProcessInstanceID>Nested1-0000000018-process</ProcessInstanceID>
<WorkItemID>1</WorkItemID>
<UnlockOption>W</UnlockOption>
</WMUnlockWorkItem_Input>
```

Output XML:

```
<WMUnlockWorkItem_Output>
<Option>WMUnlockWorkItem</Option>
<Exception>
<MainCode>0</MainCode>
```

```
</Exception>
</WMUnlockWorkItem_Output>
```

WMFetchWorkitemStates

This call returns the all the states defined for the workitem. The valid states of a workitem may be Completed, Running, Not Started, Terminated, Aborted, Suspended, or can be any other User defined State, defined in the Process Modeler. You can view the XML input and output parameters, which have to be passed to the API.

There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option *	Root	Yes	It refers to the case-sensitive call name.	WMFetchWorkitemStates
EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged-in user's session id.	NA
CountFlag	Root	No	Flag indicating whether the total count of states is to be returned in the output.	"y" for yes to fetch the count. "N" for not fetching the count.
ProcessInstanceId *	Root	Yes	ID of the Process Instance corresponding to the workitem whose states are to be fetched.	NA
WorkItemId *	Root	Yes	ID of the workitem whose states are to be fetched.	NA

NoOfRecordsToFetch	BatchInfo	No	It is the batch-size indicating the no. of records to be fetched at a time.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Count	WorkItemStates	It is the total count of the workitem states.
WorkItemState	WorkItemStates	The possible State of the workitem
RetrievedCount	Root	No. of workitem states fetched in the current batch.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message

11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Invalid Filter
2	WM_INVALID_PROCESS_DEFINITION	The process definition ID was not valid.
18	WM_NO_MORE_DATA	No more records.

Input XML:

```
<WMFetchWorkItemStates_Input>
<Option>WMFetchWorkItemStates</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1649561796</SessionId>
<CountFlag></CountFlag>
<ProcessInstanceId>BANK-0000000002-ACC</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
</WMFetchWorkItemStates_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMFetchWorkitemState_Output>
<Option>WMFetchWorkitemState</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<WorkItemStates>
<Count>6</Count>
<WorkItemState>Terminated</WorkItemState>
<WorkItemState>Suspended</WorkItemState>
<WorkItemState>Running</WorkItemState>
<WorkItemState>Not Started</WorkItemState>
<WorkItemState>Completed</WorkItemState>
<WorkItemState>Aborted</WorkItemState>
</WorkitemStates>
<RetrievedCount>6</RetrievedCount>
</WMFetchWorkitemState_Output>
```

WMChangeWorkItemState

This call changes the state of the named workitem. This command is defined to allow a workitem to be changed temporarily to a specific state such as Completed, Running, Not Started, Terminated, Aborted, Suspended or custom States. You can view the XML

input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version1.0?>
<WMChangeWorkItemState_Input>
<Option>WMChangeWorkItemState</Option>
<EngineName>ibpsjune29sql</EngineName>
<SessionId>-1551045319</SessionId>
<ProcessInstanceId>case-0000000004-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<WorkItemState>Suspended</WorkItemState>
</WMChangeWorkItemState_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMChangeWorkItemState
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem whose state is to be changed.	NA
WorkItemId	Root	Yes	ID of the workitem whose state is to be changed.	NA
WorkItemState	Root	Yes	The name of the state to be set for the specified workitem.	Completed, Running, Not Started, Terminated, Aborted, Suspended or any other Custom User defined State, already defined in the Process.
OmniService	Root	No	This flag indicates if the Change will be performed by the	Y – Action will be performed by Omniservice

			user or by the OmniService	N – Action will be performed by user logged-in currently.
SynchronousRouting	Root	No	This flag indicates if the workitem is to be routed synchronously or asynchronously	Y – Synchronous mode N – Asynchronous mode
DebugFlag	Root	No	This flag is to enable the query level debugging in the system.	Y – prints DB query logs. N – no logs printed.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMChangeWorkItemState_Output>
<Option>WMChangeWorkItemState</Option>
<Status>9</Status>
<Error>
<Exception>
<MainCode>9</MainCode>
<SubErrorCode>0</SubErrorCode>
<TypeOfError>TEMPORARY</TypeOfError>
<Subject>Invalid state</Subject>
</Exception>
</Error>
</WMChangeWorkItemState_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
9	WM_INVALID_STATE	Invalid state.
400	WF_OPERATION_FAILED	Operation Failed
6	WM_INVALID_WORKITEM	Invalid Workitem
10	WM_TRANSITION_NOT_ALLOWED	The requested state transition is not allowed.

WMCompleteWorkItem

This API is used to specify to the NewgenONE Engine that the specified workitem has been completed, and is ready to be routed to the next step. You can view the XML input and output parameters, which have to be passed to the API.

Sample request:

```
<?xml version="1.0"?>
<WMCompleteWorkItem_Input>
<Option>WMCompleteWorkItem</Option>
<EngineName>ora19sept17</EngineName>
<SessionId>-2109391887</SessionId>
<ProcessInstanceId>JunitAssignWorkItem-0000000001-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<AuditStatus></AuditStatus>
<Comments>sdfsdfsdfsdf</Comments>
</WMCompleteWorkItem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMCompleteWorkItem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA

ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem that is to be marked completed.	NA
WorkItemId	Root	Yes	ID of the workitem that is to be marked completed.	NA
AuditStatus	Root	No	Flag indicating the Audit status of the workitem. This is to be specified incase an Audit Workitem is being completed by an Auditor.	A - Accepted R - Rejected
Comments	Root	No	Comments added while completing the workitems.	NA
SynchronousRouting	Root	No	This flag is for indicating the routing mode of the workitem that is to be completed by the API.	Y – For Synchronous routing N – For Asynchronous routing
ActivityId	Root	No	This tag is for activity ID of the process	NA
DebugFlag	Root	No	This flag indicates whether the query logging is to be done or not.	Y- Debugging is ON N – Debugging is OFF

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WMCompleteWorkItem_Output>
<Option>WMCompleteWorkItem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<EntryDateTime>2017-09-29 19:42:04</EntryDateTime>
<CompletionTime>6453229</CompletionTime>
<SessionId>-2109391887</SessionId>
<UserName>mohnish</UserName>
<ProcessInstanceId>JunitAssignWorkItem-0000000001-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ProcessDefId>4</ProcessDefId>
<ActivityName>Case Workdesk_4</ActivityName>
<ActivityId>4</ActivityId>
</WMCompleteWorkItem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TargetActivityID	Root	Target activity ID of the workitem
TargetQueueID	Root	Target QueueID of the workitem
TargetQueueType	Root	Target Queue Type of the workitem
TargetProcessInstanceId	Root	Target process instance id of the workitem
TargetWorkitemId	Root	Target workitem id of the workitem
EntryDateTime	Root	Entry date time of the workitem on the activity
CompletionTime	Root	Completion date time of the workitem on the activity
ActivityName	Root	Activity name on which workitem was completed
ActivityId	Root	Activity ID on which workitem was completed

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No More Data
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFCompleteWithSet

This API allows the set of the attributes of multiple workitems and marks them completed in a single call. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFCompleteWithSet_Input>
<Option>WFCompleteWithSet</Option>
<EngineName>ibpsjune29sql</EngineName>
<SessionId>1241627539</SessionId>
<NoOfRecordsToComplete>1</NoOfRecordsToComplete>
<CompleteAlso>N</CompleteAlso>
<ProcessInstances>
<ProcessInstance>
<ProcessInstanceId>CaseTask-0000000024-process</ProcessInstanceId>
<ExternalInterfacesValidation>N</ExternalInterfacesValidation>
<WorkItemId>1</WorkItemId>
<Attributes>
<Attribute>
<Name>Age</Name>
<Value>12</Value>
</Attribute>
<Attribute>
<Name>UserName</Name>
<Value>ambuj</Value>
</Attribute>
</Attributes>
</ProcessInstance>
</ProcessInstances>
</WFCompleteWithSet_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value

Option	Root	Yes	It refers to the case-sensitive call name.	WFCompleteWithSet
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
NoOfRecordsToComplete	Root	No	No. of workitems specified to be completed.	NA
CompleteAlso	Root	No	Flag indicating whether only the value of the attributes is to be set for each of the specified workitems or they are to be completed as well.	Y – Values will be set and workitems will also be completed. N – Only the values need to set for the specified workitems.
ProcessInstanceId	ProcessInstances	No	Process Instance ID for which the variable values are to be set and the workitem completed.	NA
WorkItemId	ProcessInstances	No	ID of the workitem to be completed.	NA

Name	Attribute	No	Name of the workitem Attribute Variable whose value is to be set.	NA
Value	Attribute	No	Value to be set for the specified attribute.	NA
AuditRequired	Root	No	This flag indicates whether the audit logs of the operations are to be generated or not.	Y – Audit logs are to be generated. N – Audit logs will not be generated.
ExternalInterfacesValidation	Root	No	This tag is used for the validation of interfaces like todo list, documents, and more.	Y or N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Response parameters description:

```
<?xml version="1.0"?>
<WFCompleteWithSet_Output>
<Option>WFCompleteWithSet</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFCompleteWithSet_Output>
```

WFGetLinkedWorkitems

This API is used to fetch all the workitems that are linked to a specified workitem. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetLinkedWorkitems_Input>
<Option>WFGetLinkedWorkitems</Option>
<EngineName>sourcetestcab</EngineName>
<SessionId>1256096577</SessionId>
<ProcessInstanceID>WF-0000000012-process</ProcessInstanceID>
<BatchInfo>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<OrderBy>2</OrderBy>
```

```
<SortOrder>A</SortOrder>
<LastValue></LastValue>
<LastProcessInstance></LastProcessInstance>
<LastWorkItem></LastWorkItem>
</BatchInfo>
</WFGetLinkedWorkitems_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetLinkedWorkitems
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	Yes	Process Instance ID of the workitem, for which the Linked Workitems list is to be fetched.	NA
SortOrder	Root	No	It is the order in which the returned linked workitems list is to sorted.	A – Ascending D – Descending
OrderBy	Root	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, and more.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 - IntroductionDateTime 17 - Status 18 - CreatedDateTime

LastWorkItem	BatchInfo	No	This is the Workitem ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastValue	BatchInfo	No	It is the value of the Sort Order By field for the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastProcessInstance	BatchInfo	No	This is the Process Instance ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
NoOfRecordsToFetch	BatchInfo	No	The no. of records to be fetched per batch.	NA
DebugFlag	Root	No	If logging to be done then its value must be Y, else N	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetLinkedWorkitems_Output>
<Option>WFGetLinkedWorkitems</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<LinkedWorkItems>
<WorkItem>
<ProcessInstanceId>June-0000000009-process</ProcessInstanceId>
<WorkItemName>June-0000000009-process</WorkItemName>
<RouteId>12</RouteId>
<RouteName>ProcessJun</RouteName>
<WorkStageId>2</WorkStageId>
<ActivityName>Workdesk_2</ActivityName>
<PriorityLevel>1</PriorityLevel>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>N</LockStatus>
<CreatedByUserName>mohnish</CreatedByUserName>
<CreatedByPersonalName>New User</CreatedByPersonalName>
<CreationDateTime>2014-06-13 19:31:14</CreationDateTime>
<WorkitemState>RUNNING</WorkitemState>
<CheckListCompleteFlag>N</CheckListCompleteFlag>
<EntryDateTime>2014-06-13 19:31:25</EntryDateTime>
<IntroductionDateTime>2014-06-13 19:31:25</IntroductionDateTime>
<Archived>N</Archived>
<IntroducedBy>mohnish</IntroducedBy>
<IntroducedByPersonalName>New User</IntroducedByPersonalName>
<WorkItemId>1</WorkItemId>
<QueueName>ProcessJun_SwimLane_1</QueueName>
<AssignmentType>S</AssignmentType>
<ProcessInstanceState>2</ProcessInstanceState>
<QueueType>N</QueueType>
<QueueID>49</QueueID>
</WorkItem>
</LinkedWorkItems>
<NoOfRecordsFetched>1</NoOfRecordsFetched>
<TotalNoOfRecords>1</TotalNoOfRecords>
</WFGetLinkedWorkitems_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.

MainCode	Exception	Error code specified by WAPI.
ProcessInstanceID	Instrument	The Process Instance ID of the workitem fetched.
WorkItemName	Instrument	The Name of the workitem fetched.
RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.
RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.
CreatedByUserName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.
WorkitemState	Instrument	State of the workitem fetched. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed

CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete
EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	Name of the user to whom the workitem is currently assigned.
WorkItemId	Instrument	The ID of the workitem fetched.
QueueName	Instrument	Name of the Queue to which the workitem belongs.
AssignmentType	Instrument	Current Assignment Type for the workitem. S – Shared F – Fixed
ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueID	Instrument	ID of the Queue to which the workitem belongs.

Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
Referredby	Instrument	Name of the user who referred the workitem.
Referredto	Instrument	Name of the user to whom the workitem has been referred to.
NoOfRecordsFetched	Root	No of records fetched in the current batch.
TotalNoOfRecords	Root	Total No. of linked workitems.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed
856	WF_ARCHIVAL_CABINET_NOT_SET	Archival cabinet name not set in system properties.
18	WM_NO_MORE_DATA	o more linked workitems.

WFLinkWorkitem

This API is used to link multiple workitems with a selected workitem. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?Xml version=1.0?>
<WFLinkWorkitem_Input>
<Option>WFLinkWorkitem</Option>
<EngineName>ofcab</EngineName>
<SessionId>-35935945894</SessionId>
<Operation>A</Operation>
<WorkItemId>1</WorkItemId>
<ProcessInstanceID>NEW-000354573-LOAN</ProcessInstanceID>
```

```
<LinkedProcessInstanceID>WF-0007-VEHICLE</LinkedProcessInstanceID>
<LinkedProcessInstanceID>HOME-001900-LOAN</LinkedProcessInstanceID>
</WFLinkWorkitem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFLinkWorkitem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user;s session id.	NA
ProcessInstanceID	Root	Yes	The ID of the Process Instance of the workitem with which the other workitem is to be linked with.	NA
Operation	Root	No	Flag indicating, whether to link or de-link the specified workitems.	A – Link D – De-Link
WorkItemId	Root	Yes	The ID of the Workitem with which the other workitem is to be linked with.	NA
LinkedProcessInstanceID	Root	Yes	The ID of the Process Instance of the workitem to be linked. You can specify multiple such tags, incase you wish to link multiple workitems in a single call.	NA
DebugFlag	Root	No	If logging to be done then its value must be Y, else N	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?Xml version="1.0"?>
<WFLinkWorkitem_Output>
<Option>WFLinkWorkitem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<WFLinkWorkItem></WFLinkWorkItem>
<FailedList>
<FailedProcessInstance></FailedProcessInstance>
</FailedList>
</WFLinkWorkitem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
FailedProcessInstance	FailedList	ID of the Process Instance that could not be linked.
FailedDescription	FailedList	Description for the reason due to which process instance could not be linked.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message

15	WM_INVALID_FILTER	Invalid Filter
400	WF_OPERATION_FAILED	Operation Failed
4	WM_INVALID_PROCESS_INSTANCE	The process instance ID was not valid.
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFReferWorkItem

This API is used to refer a workitem to any specified user of the system. After referral, the workitem gets fixed assigned to the specified User, and is available in his 'My Queue'. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFReferWorkItem_Input>
<Option>WFReferWorkItem</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1744793238</SessionId>
<ProcessInstanceId>BANK-0000000004-ACC</ProcessInstanceId>
<WorkItemId>2</WorkItemId>
<TargetUser>ExceptionResolver</TargetUser>
<Emailnotify>N</Emailnotify>
<Comments></Comments>
</WFReferWorkItem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFReferWorkItem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y -- Write N -- Not Write
ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA

WorkItemId	Root	Yes	ID of the workitem belongs to workstep.	NA
TargetUser	Root	Yes	Name of the User to whom the workitem is to be referred to.	NA
Emailnotify	Root	No	Flag indicating whether the User to whom the Workitem is being referred to is to be notified about the referral through Email or not.	Y – Yes, notify through Email N – No, do not notify
Comments	Root	No	Comments added while referring workitems.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFReferWorkItem_Output>
<Option>WFReferWorkItem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFReferWorkItem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.

Exception	Main Code	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
14	WM_INVALID_TARGET_USER	Invalid target user
6	WM_INVALID_WORKITEM	The work item ID was not valid.
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

WFWithdrawWorkitem

This API is used to withdraw a workitem referred by a user. NewgenONE supports chained referrals, i.e. User A can refer to B, B can refer to C, and C can refer to D and so on. Thus once D completes the workitem, it comes back to C, and after C comes back to B and after B to A, and so on. Now any user in the chained referral can withdraw the workitem, in which case it comes back directly to the user withdrawing it. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFWithdrawWorkitem_Input>
<Option>WFWithdrawWorkitem</Option>
<EngineName>ibps5sp2feb2022ssn</EngineName>
<SessionId>720757361</SessionId>
<ProcessInstanceId>ChandraTraining-0000000031-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<Comments>Hello</Comments>
</WFWithdrawWorkitem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFWithdrawWorkitem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the referred workitem being withdrawn.	NA
WorkItemId	Root	Yes	ID of the referred workitem to be withdrawn.	NA
Comments	Root	No	These are comments provided by user while revoking the workitem.	String

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFWithdrawWorkitem_Output>
<Option>WFWithdrawWorkitem</Option>
<Exception>
<MainCode>0</MainCode>
```

```
</Exception>
</WFWithdrawWorkitem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
Exception	Main Code	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Specified filter is invalid
400	WF_OPERATION_FAILED	Operation failed

WMReassignWorkItem

This API allows a workitem to be re-assigned to any other User of the Queue in which it currently lies. However, if the scope of the currently logged-in user is ADMIN, i.e. the supervisory user has logged-in as an administrator into the system, like in case of Process Manager, then the workitem can be re-assigned to any other User of the

System. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMReassignWorkItem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem to be re-assigned.	NA
WorkItemId	Root	Yes	ID of the workitem to be re-assigned.	NA
SourceUser	Root	Yes	The Name of User who is re-assigning.	NA
TargetUser	Root	Yes	The Name of User to whom it is to be re-assigned.	NA
Comments	Root	No	Comments added while reassigning workitems.	NA
Open mode	Root	No	then user should be able to Reassign the worktiem form other user's My Queue	PM/WD
DebugFlag	Root	No	This flag indicates whether the query logging is to be done or not	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	Invalid Filter
11	WM_INVALID_SESSION_HANDLE	Invalid session
6	WM_INVALID_WORKITEM	The work item ID was not valid.

14	WM_INVALID_TARGET_USER	Invalid target user

Input XML:

```
<?xml version="1.0"?>
<WMReassignWorkItem_Input>
<Option>WMReassignWorkItem</Option>
<EngineName>ibpsjune29sql</EngineName>
<SessionId>402105464</SessionId>
<ProcessInstanceId>test-0000000018-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<SourceUser></SourceUser>
<TargetUser>kimil</TargetUser>
<Comments>123</Comments>
<OpenMode>PM</OpenMode>
</WMReassignWorkItem_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMReassignWorkItem_Output>
<Option>WMReassignWorkItem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMReassignWorkItem_Output>
```

WMSearchWorkItems

This API is used to search for workitems based on the specified criteria. This API allows you to search for workitems across various versions of different processes. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMSearchWorkItems
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Filter	Yes	ID of the Process for which Activity Delay details are to be fetched.	NA
SearchPreviousVersion	Root	No	Flag indicating whether to search on previous versions of the specified process or not.	Y – Yes N – No
SortOnVersion	Root	No	Flag indicating whether to sort the workitems based on the versions.	Y – Workitems will be sorted based on Versions in an Ascending order. N or in case no value specified – Workitems will be sorted based on Versions in an Descending order.
ProcessName	Filter	No	Name of the Process whose workitems are to be fetched. This is used in case you wish to search across all versions of the specified process. If however you wish to search only on the current version of a Process, then specify the Process Definition Id in the ProcessDefinitionId Tag.	NA
AdvanceSearch	Filter	No	Flag to indicate the advance search option	NA

QueueName	Filter	No	Name of the Queue whose workitems are to be fetched. You may either specify the Queue Id in QueueId Tag or the Name in this tag.	NA
QueueId	Filter	No	ID of the Queue whose workitems are to be fetched.	NA
ActivityId	Filter	No	ID of the Activity of the specified process, whose workitems are to be fetched.	NA
ActivityName	Filter	No	Name of the Activity of the specified process, whose workitems are to be fetched.	NA
ProcessInstanceState	Filter	No	ProcessInstanceState	1 - Not Started 2 - Running 3 - Suspended 4 - Terminated 5 - Aborted 6 - Completed
StateDateRange	Filter	No	Date Range corresponding to the state specified in the State Tag.	NA
Priority	Filter		Priority level of the workitems to be fetched.	NA
DelayFlag	Filter	No	Flag indicating to fetch the workitems that are in delay.	Y – Fetch workitems currently in Delay. N – Fetch workitems not in Delay. B – Fetch all workitems irrespective of the delay attribute.

ProcessInstanceName	Filter	No	Name of the Process Instance, in case you wish to search for a particular Workitem. Wild Card Char (*) is allowed in this tag	NA
FixedAssignedToUser	Filter	No	Name of the user indicating to fetch workitems that are currently fixed assigned to that user.	NA
SystemAssignedToUser	Filter	No	Name of the user indicating to fetch workitems that are currently temporarily assigned to that user.	NA
LockedByUser	Filter	No	Name of the User who has currently locked the workitems to be fetched.	NA
LockStatus	Filter	No	Lock Status of the Workitem. Exception/Instrument Status based on which the workitems are to be fetched.	Y – To fetch Workitems currently locked by some user. N – To fetch workitems that are not currently locked by any user.
ExceptionStatus	Filter	No	Exception/Instrument Status based on which the workitems are to be fetched.	E – To fetch workitems in Exception. N – To fetch workitems that do not have any exception raised on them. B – To fetch workitems irrespective of their exception status.

AssignedToUser	Root	No	Name of the user to who the workitem is currently assigned to whether through system, or fixed, or audit or referral, etc	NA
CreatedDateRange	Filter	No	Date range during which the workitems were created.	NA
ExpiryDateRange	Filter	No	Date Range during which the workitems will expire on the activities they currently lie on.	NA
IntroducedByUser	Filter	No	Name of the User by whom the workitems were initiated in the process.	NA
IntroducedDateRange	Filter	No	Date range during which the workitems were initiated in the process	NA
ProcessedDateRange	Filter	No	Date Range during which the workitems were processed. Specify this tag in order to fetch a list of workitems that were processed during a specified date range.	NA
ValidTillDateRange	Filter	No	Date Range during which the workitems are Valid on the activities they currently lie on.	NA
DataFlag	Filter	No	Flag indicating whether to search for workitems based on workitem data or not.	Y – Yes, Search based on Data. N – No

Referby	Root	No	Name of the User to whom the workitems are referred to.	NA
WorkItemID	Workitem	No	Workitem ID of the last workitem fetched in the previous batch.	NA
ProcessInstanceId	Workitem	No	Process Instance ID of the last workitem fetched in the previous batch.	NA
LastValue	Workitem	No	Value of the Order By field of the last record retrieved in the previous batch.	NA
ExcludeExitWorkitems	Workitem	No	Those workitems which are exited from the flow are excluded from the search list.	Y- Excluded exit workitems. N -Exit workitems are not excluded.
FilterString	Root	No	Additional SQL string Filter that is to be appended while searching the workitems.	
NoOfRecordsToFetch	Root	No	No. of records to fetch per batch.	NA
SortOrder	BatchInfo	No	Order in which the workitems re to be sorted.	A – Ascending D – Descending

OrderBy	BatchInfo	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, etc.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 – IntroductionDateTime 14 – QueueName 15 – ProcessName 16 – AssignedUser 17 - Status 18 - CreatedDateTime
SharedQueueFlag	Root	No	Indicates whether to search the workitems into sharedqueue or not.	Y- Search in shared queue also N – Do not search in sharedqueue..
ShowAllWorkItemsFlag	Root	No	Shows all parent copies of distributed and referred workitems also	Y- Show all the parent copies of distributed and referred workitems N – Do not show the parent copies of distributed and referred workitems
usestdparser	Root	No	Indicates if the output xml will be parsed by standard parser or not.	Y – using standard parser to parse the outputXML N – using newgen parser to parse the outputXML
ProcessVariantId	Root	No	ProcessVariantID of the process	NA

HoldType	Root	No		N – No hold condition. A – Search only those workitmes which are available on Hold Activity T - Search only those workitmes which are Temporarily Holded B – search all workitems which are available on Hold Activity or which are Temporarily Holded
UserDefVarFlag	Root	No		Y N
PagingFlag	Root	No		Y N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
RegistrationNo	WorkItemInfo	Name/Process Instance ID of the Workitem.

QueueName	WorkItemInfo	Name of the Queue in which the workitem lies.
ProcessName	WorkItemInfo	Name of the Process that contains the workitem.
ProcessVersionNo	WorkItemInfo	Version No. of the Process in which the workitem is contained.
ActivityName	WorkItemInfo	Name of the Activity on which the Workitem currently lies.
WorkItemState	WorkItemInfo	Name of State of the Workitem. Not Started Running Suspended Terminated Aborted Completed
CheckListStatus	WorkItemInfo	Flag indicating whether all the To DO List defined for the Process has been worked upon for the workitem. Y – Checklist Complete N – Pending
AssignedTo	WorkItemInfo	Name of the User to whom the workitem is currently assigned.
AssignedToPersonalName	WorkItemInfo	Name of the User to whom the workitem is currently assigned.
PendingSince	WorkItemInfo	Date Time since the workitem is pending on the activity it currently lies on.
ValidTill	WorkItemInfo	Date Time till which the workitem will be valid on the activity it currently lies on.
WorkItemId	WorkItemInfo	ID of the workitem
PriorityLevel	WorkItemInfo	It is the priority level set for the workitem. 1 – Low 2 – Medium 3 – High 4 – Very High
ParentWorkItemId	WorkItemInfo	Workitem ID of the Parent Workitem, in case of distributed workitems.
ProcessDefinitionId	WorkItemInfo	ID of the Process to which the workitem belongs.

ActivityId	WorkItemInfo	ID of the activity on which the workitem lies.
InstrumentStatus	WorkItemInfo	Exception Status of the Workitem. E – In Exception N – Normal
LockStatus	WorkItemInfo	Lock Status of the workitem. Y – Locked N – Not Locked
LockedByUserName	WorkItemInfo	UserID of the user who has currently locked the workitem.
LockedByPersonalName	WorkItemInfo	Name of the user who has currently locked the workitem.
CreatedByUserName	WorkItemInfo	Name of the User who created the workitem.
CreationDateTime	WorkItemInfo	Date Time on which the workitem was created.
LockedTime	WorkItemInfo	Date Time on which the workitem was locked.
IntroductionDateTime	WorkItemInfo	Date Time on which the workitem was initiated/ introduced in the process.
IntroducedBy	WorkItemInfo	UserID of the User who introduced the workitem in the process.
IntroducedByPersonalName	WorkItemInfo	Name of the User who introduced the workitem in the process.
AssignmentType	WorkItemInfo	Current Assignment Type for the Workitem. S – Shared F – Fixed
ProcessInstanceState	WorkItemInfo	State of the Process Instance. 1 - Not Started 2 - Running 3 - Suspended 4 - Terminated 5 - Aborted 6 - Completed
QueueType	WorkItemInfo	The Type of the Queue in which the workitem lies.
Status	WorkItemInfo	The Value of the System-Modifiable Status Variable.
QueueId	WorkItemInfo	ID of the Queue to which the workitem belongs.

Turnaroundtime	WorkItemInfo	Turn-Around time for the workitem on the activity it lies on.
Referredby	WorkItemInfo	Name of the user who referred the workitem, in case the workitem is currently referred.
Referredto	WorkItemInfo	Name of the user to whom workitem is referred, in case the workitem is currently referred.
WorkItemStateId	WorkItemInfo	The ID of the State of the workitem. 1 - Not Started 2 - Running 3 - Suspended 4 - Terminated 5 - Aborted 6 - Completed
TurnAroundDateTime	WorkItemInfo	Expected workitem delay for the given workitem
ProcessedBy	WorkItemInfo	User ID of the user who processed the workitem
ProcessedByPersonalName	WorkItemInfo	Name of the user who processed the workitem

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	The requested operation failed.
15	WM_INVALID_FILTER	The requested filter is invalid.
11	WM_INVALID_SESSION_HANDLE	Invalid session.
18	WM_NO_MORE_DATA	No more records are available.

Input XML:

```
<?xml version="1.0"?>
<WMSearchWorkItems_Input>
<Option>WMSearchWorkItems</Option>
<EngineName>ibpsjune29sql</EngineName>
<SessionId>1128161078</SessionId>
<Filter>
<AssignedToUser>system</AssignedToUser>
```

```
</Filter>
<BatchInfo>
<SortOrder>A</SortOrder>
<OrderBy>2</OrderBy>
<NoOfRecordsToFetch>10</NoOfRecordsToFetch>
</BatchInfo>
<DataFlag>Y</DataFlag>
</WMSearchWorkItems_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WFSearchWorkItemList_Output>
<Option>WFSearchWorkItemList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<WorkItemList>
<WorkItemInfo>
<RegistrationNo>AM-0000000001-proc</RegistrationNo>
<QueueName>aman_proc_Start Event_1</QueueName>
<ProcessName>aman_proc</ProcessName>
<ProcessVersionNo>1</ProcessVersionNo>
<ActivityName>Start Event_1</ActivityName>
<WorkItemState>RUNNING</WorkItemState>
<CheckListStatus>N</CheckListStatus>
<PendingSince>2017-09-05 14:21:54.983</PendingSince>
<WorkItemId>1</WorkItemId>
<PriorityLevel>1</PriorityLevel>
<ProcessDefinitionId>40</ProcessDefinitionId>
<ActivityId>1</ActivityId>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>N</LockStatus>
<CreatedByUserName>mohitk</CreatedByUserName>
<CreationDateTime>2017-09-05 14:21:54.983</CreationDateTime>
<AssignmentType>S</AssignmentType>
<ProcessInstanceState>1</ProcessInstanceState>
<QueueType>I</QueueType>
<QueueId>101</QueueId>
<ProcessedBy>mohitk</ProcessedBy>
<ProcessedByPersonalName>New User</ProcessedByPersonalName>
<WorkItemStateId>2</WorkItemStateId>
<VAR_REC1>1595</VAR_REC1>
<VAR_REC2>F</VAR_REC2>
<Data></Data>
</WorkItemInfo>
</WorkItemList>
<TotalCount>1</TotalCount>
<RetrievedCount>1</RetrievedCount>
</WFSearchWorkItemList_Output>
```

WFSearchWorkItemList

This API is used to search for workitems based on the specified criteria. This API allows you to search for workitems across various versions of different processes. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSearchWorkItemList_Input>
<Option>WFSearchWorkItemList</Option>
<EngineName>iBPS5SP2PostgresSrvrCab</EngineName>
<SessionId>715633931</SessionId>
<RightFlag>010100</RightFlag>
<ZipBuffer>N</ZipBuffer>
<EnableMultiLingual>Y</EnableMultiLingual>
<OpenMode>PM</OpenMode>
<ArchiveSearch>N</ArchiveSearch>
<OptimizedSearchFlag>Y</OptimizedSearchFlag>
<Filter>
<ProcessName>MyProcess</ProcessName>
<LocalProcessName>MyProcess</LocalProcessName>
<ProcessDefinitionID>1</ProcessDefinitionID>
<SearchPreviousVersion>N</SearchPreviousVersion>
<SortOnVersion>N</SortOnVersion>
<URNFlag>Y</URNFlag>
<URNName />
<ExcludeExitWorkitems>N</ExcludeExitWorkitems>
<HoldType>N</HoldType>
<SearchSuspendedWorkitem>Y</SearchSuspendedWorkitem>
<UtilityType></UtilityType>
<ArchiveSearch>N</ArchiveSearch>
<LockedByUser />
<LockedByUserId>0</LockedByUserId>
<AssignedToUser />
<AssignedToUserId>0</AssignedToUserId>
<IntroducedByUser />
<IntroducedByUserId>0</IntroducedByUserId>
<SearchAttributes>
<Condition Operator="7" JoinCondition="AND">
<Attribute UserDefinedName = "Q_string2" Type="10" Length="255">raj</Attribute>
</Condition>
<AdvanceSearch>N</AdvanceSearch>
</SearchAttributes>
<PinToSearch>false</PinToSearch>
<SearchFlag>1</SearchFlag>
</Filter>
<DataFlag>Y</DataFlag>
<BatchInfo>
<OrderBy>2</OrderBy>
<SortOrder>D</SortOrder>
```

```
<LastValue />
<ProcessInstanceId />
<WorkitemID />
<NoOfRecordsToFetch>4</NoOfRecordsToFetch>
</BatchInfo>
<UserDefVarFlag>Y</UserDefVarFlag>
<ShowAllWorkItemsFlag>Y</ShowAllWorkItemsFlag>
<usestdparser>Y</usestdparser>
<CombinedResult>N</CombinedResult>
</WFSearchWorkItemList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSearchWorkItemList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Filter	Yes	ID of the Process for which Activity Delay details are to be fetched.	NA
SearchPreviousVersion	Root	No	Flag indicating whether to search on previous versions of the specified process or not.	Y – Yes N – No
SortOnVersion	Root	No	Flag indicating whether to sort the workitems based on the versions.	Y – Workitems will be sorted based on Versions in an Ascending order. N or in case no value specified – Workitems will be sorted based on Versions in an Descending order.

ProcessName	Filter	No	Name of the Process whose workitems are to be fetched. This is used incase you wish to search across all versions of the specified process. If however you wish to search only on the current version of a Process, then specify the Process Definition Id in the ProcessDefinitionId Tag	NA
AdvanceSearch	Filter	No	Flag to indicate the advance search option	NA
QueueName	Filter	No	Name of the Queue whose workitems are to be fetched. You may either specify the Queue Id in QueueId Tag or the Name in this tag	NA
QueueId	Filter	No	ID of the Queue whose workitems are to be fetched	NA
ActivityId	Filter	No	ID of the Activity of the specified process, whose workitems are to be fetched	NA
ActivityName	Filter	No	Name of the Activity of the specified process, whose workitems are to be fetched	NA

ProcessInstanceState	Filter	No	ProcessInstanceState	1 - Not Started 2 - Running 3 - Suspended 4 - Terminated 5 - Aborted 6 - Completed
StateDateRange	Filter	No	Date Range corresponding to the state specified in the State Tag	NA
Priority	Filter	No	Priority level of the workitems to be fetched	NA
DelayFlag	Filter	No	Flag indicating to fetch the workitems that are in delay	Y – Fetch workitems currently in Delay. N – Fetch workitems not in Delay. B – Fetch all workitems irrespective of the delay attribute.
ProcessInstanceName	Filter	No	Name of the Process Instance, in case you wish to search for a particular Workitem. Wild Card Char (*) is allowed in this tag	NA
FixedAssignedToUser	Filter	No	Name of the user indicating to fetch workitems that are currently fixed assigned to that user.	NA
SystemAssignedToUser	Filter	No	Name of the user indicating to fetch workitems that are currently temporarily assigned to that user.	NA

LockedByUser	Filter	No	Name of the User who has currently locked the workitems to be fetched.	NA
LockStatus	Filter	No	Lock Status of the Workitem. Exception/ Instrument Status based on which the workitems are to be fetched.	Y – To fetch Workitems currently locked by some user. N – To fetch workitems that are not currently locked by any user.
ExceptionStatus	Filter	No	Exception/ Instrument Status based on which the workitems are to be fetched.	E – To fetch workitems in Exception. N – To fetch workitems that do not have any exception raised on them. B – To fetch workitems irrespective of their exception status.
AssignedToUser	Root	No	Name of the user to who the workitem is currently assigned to whether through system, or fixed, or audit or referral, etc	NA
CreatedDateRange	Filter	No	Date range during which the workitems were created.	NA
ExpiryDateRange	Filter	No	Date Range during which the workitems will expire on the activities they currently lie on.	NA
IntroducedByUser	Filter	No	Name of the User by whom the workitems were initiated in the process.	NA

IntroducedDateRange	Filter	No	Date range during which the workitems were initiated in the process	NA
ProcessedDateRange	Filter	No	Date Range during which the workitems were processed. Specify this tag in order to fetch a list of workitems that were processed during a specified date range.	NA
ValidTillDateRange	Filter	No	Date Range during which the workitems are Valid on the activities they currently lie on.	NA
DataFlag	Filter	No	Flag indicating whether to search for workitems based on workitem data or not	Y – Yes, Search based on Data. N – No
Referby	Root	No	Name of the User to whom the workitems are referred to.	NA
WorkItemID	Workitem	No	Workitem ID of the last workitem fetched in the previous batch.	NA
ProcessInstanceId	Workitem	No	Process Instance ID of the last workitem fetched in the previous batch.	NA
LastValue	Workitem	No	Value of the Order By field of the last record retrieved in the previous batch.	NA

ExcludeExitWorkitems	Workitem	No	Those workitems which are exited from the flow are excluded from the search list.	Y- Excluded exit workitems. N -Exit workitems are not excluded.
FilterString	Root	No	Additional SQL string Filter that is to be appended while searching the workitems	
NoOfRecordsToFetch	Root	No	No. of records to fetch per batch.	NA
SortOrder	BatchInfo	No	Order in which the workitems re to be sorted.	A – Ascending D – Descending
OrderBy	BatchInfo	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, etc	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 – IntroductionDateTime 14 – QueueName 15 – ProcessName 16 – AssignedUser 17 - Status 18 - CreatedDateTime
SharedQueueFlag	Root	No	Indicates whether to search the workitems into sharedqueue or not.	Y- Search in shared queue also N – Do not search in sharedqueue..

ShowAllWorkItemsFlag	Root	No	Shows all parent copies of distributed and referred workitems also	Y- Show all the parent copies of distributed and referred workitems N – Do not show the parent copies of distributed and referred workitems
usestdparser	Root	No	Indicates if the output xml will be parsed by standard parser or not.	Y – using standard parser to parse the outputXML N – using newgen parser to parse the outputXML
ProcessVariantId	Root	No	ProcessVariantID of the process	NA
HoldType	Root	No		N – No hold condition. A – Search only those workitmes which are available on Hold Activity T - Search only those workitmes which are Temporarily Holded B – search all workitems which are available on Hold Activity or which are Temporarily Holded
UserDefVarFlag	Root	No		Y – N –
PagingFlag	Root	No		Y – N –
EnableMultiLingual	Root	No	This flag enables the multilingual results in the queue list output	Y:Enabled N:Disabled DefaultValue:N

OpenMode	Root	No	This flag decide whether user is business admin or userdesktop: This flag value is PM then EnableMultiLingual flag value is ignored.	WD: Webdesktop user (no impact on multilingual flag) PM: Multilingual must be disabled. DefaultValue :WD
SearchSuspendedWorkitem	Filter	No	This signifies whether the search operation is to be performed for suspended wokitems only.	Y or N
UtilityType	Filter	No	This signifies suspended workitems are to be searched for which utility type.	P – Process Server A – Archival B – Print Fax Mail
Attribute	Condition	No	It signifies the Attribute based on which Search condition is to be executed. This tag is introduced to allow space in UserDefinedName.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFSearchWorkItemList_Output>
<Option>WFSearchWorkItemList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<WorkItemList>
<WorkItemInfo>
<RegistrationNo>AM-0000000001-proc</RegistrationNo>
<QueueName>aman_proc_Start Event_1</QueueName>
<ProcessName>aman_proc</ProcessName>
<ProcessVersionNo>1</ProcessVersionNo>
<ActivityName>Start Event_1</ActivityName>
<WorkItemState>RUNNING</WorkItemState>
<CheckListStatus>N</CheckListStatus>
<PendingSince>2017-09-05 14:21:54.983</PendingSince>
<WorkItemId>1</WorkItemId>
<PriorityLevel>1</PriorityLevel>
<ProcessDefinitionId>40</ProcessDefinitionId>
<ActivityId>1</ActivityId>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>N</LockStatus>
<CreatedByUserName>mohitk</CreatedByUserName>
<CreationDateTime>2017-09-05 14:21:54.983</CreationDateTime>
<AssignmentType>S</AssignmentType>
<ProcessInstanceState>1</ProcessInstanceState>
<QueueType>I</QueueType>
<QueueId>101</QueueId>
<ProcessedBy>mohitk</ProcessedBy>
<ProcessedByPersonalName>New User</ProcessedByPersonalName>
<WorkItemStateId>2</WorkItemStateId>
<VAR_REC1>1595</VAR_REC1>
<VAR_REC2>F</VAR_REC2>
<Data></Data>
</WorkItemInfo>
</WorkItemList>
<TotalCount>1</TotalCount>
<RetrievedCount>1</RetrievedCount>
</WFSearchWorkItemList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.

MainCode	Exception	Error code specified by WAPI.
RegistrationNo	WorkItemInfo	Name/Process Instance ID of the Workitem.
QueueName	WorkItemInfo	Name of the Queue in which the workitem lies.
ProcessName	WorkItemInfo	Name of the Process that contains the workitem.
ProcessVersionNo	WorkItemInfo	Version No. of the Process in which the workitem is contained.
ActivityName	WorkItemInfo	Name of the Activity on which the Workitem currently lies.
WorkItemState	WorkItemInfo	Name of State of the Workitem. Not Started Running Suspended Terminated Aborted Completed
CheckListStatus	WorkItemInfo	Flag indicating whether all the To DO List defined for the Process has been worked upon for the workitem. Y – Checklist Complete N – Pending
AssignedTo	WorkItemInfo	Name of the User to whom the workitem is currently assigned.
AssignedToPersonalName	WorkItemInfo	Name of the User to whom the workitem is currently assigned.
PendingSince	WorkItemInfo	Date Time since the workitem is pending on the activity it currently lies on.
ValidTill	WorkItemInfo	Date Time till which the workitem will be valid on the activity it currently lies on.
WorkItemId	WorkItemInfo	ID of the workitem
PriorityLevel	WorkItemInfo	It is the priority level set for the workitem. 1 – Low 2 – Medium 3 – High 4 – Very High

ParentWorkItemId	WorkItemInfo	Workitem ID of the Parent Workitem, in case of distributed workitems.
ProcessDefinitionId	WorkItemInfo	ID of the Process to which the workitem belongs.
ActivityId	WorkItemInfo	ID of the activity on which the workitem lies.
InstrumentStatus	WorkItemInfo	Exception Status of the Workitem. E – In Exception N – Normal
LockStatus	WorkItemInfo	Lock Status of the workitem. Y – Locked N – Not Locked
LockedByUserName	WorkItemInfo	UserID of the user who has currently locked the workitem.
LockedByPersonalName	WorkItemInfo	Name of the user who has currently locked the workitem.
CreatedByUserName	WorkItemInfo	Name of the User who created the workitem.
CreationDateTime	WorkItemInfo	Date Time on which the workitem was created.
LockedTime	WorkItemInfo	Date Time on which the workitem was locked.
IntroductionDateTime	WorkItemInfo	Date Time on which the workitem was initiated/ introduced in the process.
IntroducedBy	WorkItemInfo	UserID of the User who introduced the workitem in the process.
IntroducedByPersonalName	WorkItemInfo	Name of the User who introduced the workitem in the process.
AssignmentType	WorkItemInfo	Current Assignment Type for the Workitem. S – Shared F – Fixed
ProcessInstanceState	WorkItemInfo	State of the Process Instance. 1 - Not Started 2 - Running 3 - Suspended 4 - Terminated 5 - Aborted 6 - Completed
QueueType	WorkItemInfo	The Type of the Queue in which the workitem lies.

Status	WorkItemInfo	The Value of the System-Modifiable Status Variable.
QueueId	WorkItemInfo	ID of the Queue to which the workitem belongs.
Turnaroundtime	WorkItemInfo	Turn-Around time for the workitem on the activity it lies on.
Referredby	WorkItemInfo	Name of the user who referred the workitem, in case the workitem is currently referred.
Referredto	WorkItemInfo	Name of the user to whom workitem is referred, in case the workitem is currently referred.
WorkItemStateId	WorkItemInfo	The ID of the State of the workitem. 1 - Not Started 2 - Running 3 - Suspended 4 - Terminated 5 - Aborted 6 - Completed
TurnAroundDateTime	WorkItemInfo	Expected workitem delay for the given workitem
ProcessedBy	WorkItemInfo	User ID of the user who processed the workitem
ProcessedByPersonalName	WorkItemInfo	Name of the user who processed the workitem

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	The requested operation failed.
15	WM_INVALID_FILTER	The requested filter is invalid.
11	WM_INVALID_SESSION_HANDLE	Invalid session.
18	WM_NO_MORE_DATA	No more records are available.

WFGetWorkItemHistory

This API returns the History of Actions performed on the specified workitem. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetWorkItemHistory_Input>
<Option>WFGetWorkItemHistory</Option>
<EngineName>ibps5sp2feb2022ssn</EngineName>
<SessionID>-1862908709</SessionID>
<ProcessInstanceId>WF-0000000002-process</ProcessInstanceId>
<ArchiveSearch>N</ArchiveSearch>
<SortOrder>D</SortOrder>
<NoOfRecordsToFetch>10</NoOfRecordsToFetch>
<ActionDescription>Y</ActionDescription>
<EnableMultiLingual>Y</EnableMultiLingual>
<URNFlag>Y</URNFlag>
<EscapeSpecialChar>Y</EscapeSpecialChar>
</WFGetWorkItemHistory_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetWorkItemHistory
EngineName *	Root	Yes	This is the Name of the cabinet.	NA
SessionID *	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceID *	Root	Yes	Process Instance ID of the workitem whose history is to be generated.	NA
NoOfRecordsToFetch	BatchInfo	No	No. of History items to be fetched per batch.	NA
SortOrder	BatchInfo	No	Order in which the History Records are to be sorted on the Action-Date-Time.	A – Ascending D - Descending

LastValue	BatchInfo	No	Action-Date-Time of the last history record fetched in the previous batch.	NA
LogId	Root	No	ID of the last history record fetched in the previous batch.	NA
DetailAuditTrail	Root	No	This field is to get the detailed audit trails related to workitem history	NA
HistoryType	Root	No	History Type to be fetched	C – Comments Data H – Workitem history
EnableMultiLingual	Root	No	This field is to return the results in the multilingual locals.	Y – Yes N – No
EscapeSpecialChar		No	This field indicates that in the results to be returned, the special characters must be escaped. i.e. & must be &amp etc and more.	Y – Yes N – No
ActivityId	Root	No	This field indicates the activityID only for which the history to be returned	NA
ActivityName	Root	No	This field indicates the activityName for which the history to be returned	NA
RoutingActionsOnly	Root	No	This field indicates if the history of routing actions only to be fetched.	Y – Yes N - No
ActionId	Root	No	This field indicates the comma separated list of action Ids for which the string is to be fetched	Y – Yes N - No
ActionDescription	Root	No	The field indicates whether to return the action description or not.	Y – Yes N – No

ArchiveSearch	Root	No	This field enables the archival search	Y – Yes N - No
DateFormat	Root	No	This field indicates the date format of the input given	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetWorkItemHistory_Output>
<Option>WFGetWorkItemHistory</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<CreatedBy>Chandra</CreatedBy>
<CreatedByPersonalName>New User</CreatedByPersonalName>
<CreatedDateTime>2022-03-16 16:28:33.857</CreatedDateTime>
<ProcessName>process12</ProcessName>
<CommentData>
<CommentInfo>
< TaskName>NewTask_1</TaskName>
<Comment>Ok</Comment>
<CommentBy>7</CommentBy>
<CommentByName>Chandra</CommentByName>
<CommentByPersonalName>New User </CommentByPersonalName>
<CommentTo>8</CommentTo>
<CommentToName>Chandra123</CommentToName>
<CommentToPersonalName></CommentToPersonalName>
<CommentType>11</CommentType>
<CommentDateTime>2022-03-16 20:55:46.687</CommentDateTime>
<ActivityName>Id_proof_verification</ActivityName>
```

```
</CommentInfo>
<CommentInfo>
<Comment>ok</Comment>
<CommentBy>7</CommentBy>
<CommentByName>Chandra</CommentByName>
<CommentByPersonalName>New User </CommentByPersonalName>
<CommentTo>8</CommentTo>
<CommentToName>Chandra123</CommentToName>
<CommentToPersonalName></CommentToPersonalName>
<CommentType>1</CommentType>
<CommentDateTime>2022-03-16 20:50:19.007</CommentDateTime>
<ActivityName>Id_proof_verification</ActivityName>
</CommentInfo>
</CommentData>undefinedundefined</WFGetWorkItemHistory_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
CreatedDateTime	Root	Date-Time on which the workitem was created.
CreatedBy	Root	User ID of the User who created the workitem.
CreatedByPersonalName	Root	Name of the User who created the workitem.
ProcessName	Root	Name of the process for which the history is being fetched.
ActionId	HistoryInfo	ID of the Action performed on the workitem. Following are the set of Actions returnedWFL_CreateProcessInstance = 1 WFL_StartProcessInstance = 2 WFL_ProcessInstanceDiscarded = 3 WFL_ProcessInstanceRouted = 4 WFL_ProcessInstanceAborted = 5 WFL_ProcessInstanceDistributed = 6 WFL_WorkItemLock = 7WFL_WorkItemUnlock = 8 WFL_Exception_Raised = 9 WFL_Exception_Cleared = 10 WFL_Priority_Incremented = 13 WFL_Priority_Decremented = 14 WFL_ToDoItemStatus_Modified = 15 WFL_Attribute_Set = 16WFL_WorkItemReassigned = 17 WFL_DocumentTypeAdded = 18

		WFL_DocumentTypeAnnotated = 19 WFL_ProcessInstanceCompleted = 20 WFL_ProcessStateChanged = 21 WFL_ActionPerformed = 22WFL_UserLogIn = 23 WFL_UserLogOut = 24 WFL_ProcessInstanceTerminated = 25 WFL_ProcessInstanceStateChanged = 26 WFL_WorkItemCompleted = 27 WFL_WorkItemExpired = 28WFL_Submit = 29 WFL_Release = 30WFL_Trigger = 31WFL_Reject = 32 WFL_Accept = 33WFL_AuditSet = 34WFL_Collect = 35 WFL_link = 36WFL_dlink = 37WFL_Reinitate = 38 WFL_ProcessInstanceDeleted = 39WFL_getlink = 40 WFL_WorkItemReferred = 41 WFL_WorkItemWithDrawn = 42 WFL_WorkItemSubmit = 43 WFL_SpawnProcess = 44 WFL_ProcessSpawn = 46 WFL_AdHocRouted = 45 WFL_RemSet = 47 WFL_RemDel = 48 WFL_LogDel = 49 WFL_AddQueue = 50 WFL_ChnQueue = 51 WFL_DelQueue = 52 WFL_DivertSet = 53 WFL_DivertDel = 54 WFL_Exception_Undo = 55 WFL_Exception_Modify = 56 WFL_Print = 57 WFL_Fax = 58 WFL_Mail = 59 WFL_AddUserToQueue = 60 WFL_DeleteUserFromQueue = 61 WFL_AddWorkStepToQueue = 62 WFL_DeleteWorkStepFromQueue = 63 WFL_AddPreferedQueue = 64 WFL_DeletePreferedQueue = 65 WFL_AddAliasToQueue = 66 WFL_DeleteAliasFromQueue = 67

		WFL_ProcessTATime = 68WFL_ActivityTATime = 69 WFL_ScheduleEscalationAction = 72 WFL_EscalationAction = 73 WFL_SubscribeAction = 74 WFL_AttributeHasBeenSet = 75 WFL_AuditLogPreferencesChanged=76 WFL_QueryFilter_Set = 77 WFL_Constant_Updated = 78 WFL_WorkItemSuspended = 79 WFL_Calendar_Modified = 80 WFL_WorkStarted = 200 WFL_Process_Register = 501 WFL_Process_UnRegister = 502 WFL_Process_CheckOut = 503 WFL_Process_CheckIn = 504 WFL_Process_UndoCheckOut = 505 WFL_Process_Register = 501; WFL_Process_UnRegister = 502; WFL_Process_CheckOut = 503; WFL_Process_CheckIn = 504; WFL_Process_UndoCheckOut = 505; WFL_Project_UnRegister = 506; WFL_Process_CheckIn_NewVer = 507; WFL_AddVariant = 601; WFL_ModifyVariant = 602; WFL_DelVariant = 603; WFL_Change_VariantState = 604; WFL_TaskInitiated = 701; WFL_TaskCompleted = 702; WFL_TaskRevoked = 703; WFL_TaskAdded = 704; WFL_TaskDataSet = 705; WFL_TaskDataHasBeenSet = 706; WFL_TaskDiverted = 707; WFL_TaskDeclined = 708; WFL_TaskReassigned = 709; WFL_TaskExpired = 710; WFL_TaskEscalated = 711; WFL_TaskUnlocked = 712; WFL_TaskApproved = 713; WFL_TaskRejected = 714;

		WFL_WorkitemHolded = 800; WFL_WorkitemUnholded = 801; WFL_Resume = 803;
ActionDateTime	HistoryInfo	Date Time on which the Action was performed on the workitem.
ProcessInstanceId	HistoryInfo	Process Instance ID of the Workitem for which the action has been performed
ActionDescription	HistoryInfo	Description about the action that has been performed.
WorkItemId	HistoryInfo	ID of the Workitem on which the Action was performed.
ActivityId	HistoryInfo	ID of the Activity on which the Action was performed.
ActivityName	HistoryInfo	Name of the Activity on which the Action was performed.
Username	HistoryInfo	Name of the User who performed the Action on the workitem.
UserId	HistoryInfo	ID of the User who performed the Action.
PersonalName	HistoryInfo	Full Name of the user who performed the Action on the workitem.
FieldId	HistoryInfo	ID of the Field, which may store the ID of the User or the ID of the Variable (incase the action is to set a variable), ID of the Exception, incase it is to raise/ clear an exception, and more.
FieldName	HistoryInfo	Name of the field, whose ID is specified in the FieldID Tag.
LogId	HistoryInfo	ID of the history record.
Processname	Root	Name of the Process to which the workitem belongs.
TotalCount	Root	Total count of history records existing for the specified workitem.
RetrievedCount	Root	Number of history items retrieved in the current batch.

CommentData	Root	This tag will contain all the comments provided by different users in workitem history.
CommentInfo	CommentData	This will contain the information of single comment.
Comment	CommentInfo	This tag signifies the comment provided by the user.
CommentBy	CommentInfo	This will contain the id of the user who has provided the comment.
CommentByName	CommentInfo	This output tag will contain the name of the user who has provided the comment.
CommentByPersonalName	CommentInfo	This will contain the PersonalName of the user who has provided the comment.
CommentTo	CommentInfo	This will contain the id of the user to whom the comment has been provided.
CommentToName	CommentInfo	This will contain the name of the user to whom the comment is provided.
CommentToPersonalName	CommentInfo	This will contain the PersonalName of the user to whom the comment is provided.
CommentType	CommentInfo	This will contain the type of the comment
CommentDateTime	CommentInfo	This will contain the date & time of the cooment
ActivityName	CommentInfo	Name of the Activity on which the Action was performed.
TaskInfo	CommentInfo	This will contain the information of task for which action was performed

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
4	WM_INVALID_PROCESS_INSTANCE	The process instance ID was not valid.
11	WM_INVALID_SESSION_HANDLE	Invalid Session

15	WM_INVALID_FILTER	Invalid Filter
856	WF_ARCHIVAL_CABINET_NOT_SET	Archival cabinet is not set

WFDeleteWorkItem

This API is used to delete the specified workitem. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFDeleteWorkItem_Input>
<Option>WFDeleteWorkItem</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1538883720</SessionId>
<ProcessInstanceID>BANK-0000000011-ACC</ProcessInstanceID>
<ActivityId>2</ActivityId>
<ReturnDMSInfo>Y</ReturnDMSInfo>
<DeleteHistoryFlag>Y</DeleteHistoryFlag>
</WFDeleteWorkItem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFDeleteWorkItem
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
DeleteHistoryFlag	Root	No	This Flag indicates whether history associated with the workitem is also to be deleted from cabinet.	Y – Yes, Delete History. N – Do Not delete History.
ReturnDMSInfo	Root	No	This Flag indicates whether the DMS related information	Y – Return DMS info. N – Do not return DMS info.

			corresponding to the workitem is to be returned.	
ProcessInstanceID	Root	Yes	ID of the Process Instance to be deleted.	NA
DeleteExternalTableDataFlag	Root	No	This Flag indicates whether Data from external table associated with the workitem is also to be deleted from cabinet.	Y – Yes, Delete Data from External Table N – Do Not delete Data from External Table
ActivityId	Root	No	Current ActivityId of the workitem	

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFDeleteWorkItem_Output>
<Option>WFDeleteWorkItem</Option>
<DMSInfo>
<Name>VAR_REC_1</Name>
<Value>124</Value>
</DMSInfo>
<DMSInfo>
<Name>VAR_REC_2</Name>
<Value>F</Value>
</DMSInfo>
```

```
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFDeleteWorkItem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	DMSInfo	Name of the Record Mapped field, which contains the Folder Id corresponding to the Workitem.
Value	DMSInfo	Value of the Record Mapped field, which contains the Folder Id corresponding to the Workitem.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	Invalid Filter
14	WM_INVALID_PROCESS_INSTANCE	Indicates that the process instance ID is not valid.
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	The requested operation failed.

WMCreateChildWorkItem

This API is used to create the child of workitem. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WMCreateChildWorkItem_Input>
<Option>WMCreateChildWorkItem</Option>
<SessionId>-704644659</SessionId>
<EngineName>serverteamsqlcab</EngineName>
<ParentWorkItemId>1</ParentWorkItemId>
<ActivityName>Workdesk_2</ActivityName>
<Attributes>
<Attribute>
<Name>varint1</Name>
<Value>1</Value>
</Attribute>
<Attribute>
<Name>varint2</Name>
<Value>1</Value>
</Attribute>
</Attributes>
<ProcessInstanceID>Sample-0000000012-process</ProcessInstanceID>
</WMCreateChildWorkItem_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMCreateChildWorkItem

EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ParentWorkItemId	Root	Yes	Id of the parent WorkItem.	Y/N
ActivityName	Root	Yes	Name of the activity or the workstep in the process.	NA
ProcessInstanceID	Root	Yes	Comma separated list of variables whose value setting action is to be logged.	NA
Attributes	Root	No	Data variables.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WMCreateChildWorkItem_Output>
<Option>WMCreateChildWorkItem</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessInstanceID>Sample-0000000012-process</ProcessInstanceID>
<WorkItemId>5</WorkItemId>
<ActivityName>Workdesk_2</ActivityName>
</WMCreateChildWorkItem_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ActivityName	Root	Name of the activity or the workstep in the process.
ProcessInstanceID	Root	Comma separated list of variables whose value setting action is to be logged.
WorkItemId	Root	Id of the workItem.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	--	WF_OPERATION_FAILED	Operation Failed.

WMFetchWorkItemCount

This API is used to fetch the total count of workitems in a specified Queue, or in the current User's My Queue, or the total count of workitems in all the Queues of which the currently logged-in user is a member. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMFetchWorkItemCount

EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueId	Root	No	ID of the Queue, of which the no. of workitems is to be fetched.	0 – To fetch the count of workitems in the currently logged-in User's My Queue. -1 – To fetch the total count of workitems in all the Queues of which the currently logged-in user is a member. Else to fetch the count of workitems in a specific queue, provide the Valid Queue ID in this Tag.
SystemAssignedWI	Root	No	Workitem assigned by process server.	Y -- Yes N -- No
ClientOrderFlag	Root	No	Ordered flag for client.	Y -- Yes N -- No
StartingRecordNo	Root	No	Initial value of records.	0
PagingFlag	Root	No	Flag that enables no. Of ppages tag in XML.	Y -- Yes N -- No
FetchLockedFlag	Root	No	Enable to fetch locked workitem.	Y -- Yes N -- No

FilterString	Filter	No	This Tag may contain following 2 types of information. If the Type has been specified as other than 256, then this will contain the Value for the Attribute, specified in the AttributeName tag for which you wish to filter the workitem list. If the Type has been specified as 256, then this contains the actual SQL WHERE Clause string, which will be appended to the SQL string to fetch the workitems meeting the criteria.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
WorkItemCount	Root	Count of workitem.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	SubCode	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	--	WF_OPERATION_FAILED	Operation Failed.
18	0	WM_NO_MORE_DATA	No more records.
12	801	WM_INVALID_QUERY_HANDLE	Invalid Query handle.

Input XML:

```
<?xml version="1.0"?>
<WFFetchWorkItemCount_Input>
<Option>WFFetchWorkItemCount</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1929979315</SessionId>
<QueueId>0</QueueId>
</WFFetchWorkItemCount_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WFFetchWorkItemCount_Output>
<Option>WFFetchWorkItemCount</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<WorkitemCount>10</WorkitemCount>
</WFFetchWorkItemCount_Output>
```

WFChangeWorkItemPriority

This API is used to change the priority of the workitem. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFChangeWorkItemPriority_Input>
<Option>WFChangeWorkItemPriority</Option>
<EngineName>ibps10oct</EngineName>
<SessionId>-788581524</SessionId>
<ProcessInstanceId>CaseSubProcess-0000000007-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<Priority>4</Priority>
</WFChangeWorkItemPriority_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFAddTask
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem associated with the case and task.	NA
WorkItemID	Root	Yes	ID of the workitem associated with the case and task.	NA
Priority	Root	Yes	Process id for the process associated with the case and task	NA
DebugFlag	Root	No	If Flag is Y, printouts will be written in Console.log	Y/N

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFChangeWorkItemPriority_Output>
<Option>WFChangeWorkItemPriority</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFChangeWorkItemPriority_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	Sql Exception
400	WF_OPERATION_FAILED	Operation failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

Report management

This section includes the description of the following calls:

API	Description
WFGetActivityDelayLog	This API is used to fetch details about the no. of workitems in delay, and the average delay on activities in a specified process, during a specified date range.
WFGetExpiredWorkItemLog	This API is used to fetch details about the no. of workitems that expired in a process during specified date range.
WFGetHistory	This API gets the History of Actions performed on all Queues/Processes/Users.
WFGetProcessDelayLog	This API is used to fetch the details about the no. of workitems that were in delay in a specified process during a specified date range.
WFGetProcessInfo	This API fetches complete definition details of Process.
WFGetProcessLoadHistory	This API returns the Load History, in terms of No. of Workitems Created, Completed, etc for a specified Process during a specific Date Range.
WFGetProcessLog	This API is used to fetch the history details for a specified Process, in terms of no. of workitems initiated, created, processed in a process, during a specified date range.
WFGetQueueLoadHistory	This API fetches the history of Queue Load for a specified Queue, during a specified date range.
WFGetTempQueueAssignmentReport	This API is used to get the Report of all Users that have been temporarily assigned to Queue(s) for a specified Date Range. If however the From part of the Date Range is not specified then it gets the report of all the Temporary assignments that have been set in the system until the specified To Date. If However the To Date is also not specified, then it fetches the report for all the Temporary Assignments that have been set till Current date.
WFGetUserDiversionReport	This API is used to get the Report of all diversions set for a specified Date Range. If however the From part of the Date Range is not specified then it gets the report of all

	the Diversions that have been set in the system until the specified To Date. If However the To Date is also not specified, then it fetches the report for all the Diversions that have been set till Current date.
WFGetUserPerformanceLog	This API is used to fetch the details about the performance of a specified user/group in terms of the no. if workitems processed by him, on an Activity in a Process, during a specified date range.
WFGetWorkAuditHistory	This API fetches the Audit History for a specified User, for whom a work audit may have been set.
WFGetWorkItemExceptionLog	This API is used to get the Exception History for a specified Exception, during a specified date range. You may use this API to fetch the Exception History for all the Exceptions also.
WFParticipantReport	This API is used to fetch Participant Details for all the Users who have participated in processing the workitems belonging to a specified Process, giving details about the Avg. Processing Time Taken By each User on Each Workstep, along with the Avg. Duration for which the workitems were on the worksteps. You can filter the Participant Details by specifying a specific Activity or a User.
WFProcessingtimeReport	This API fetches details of the Average Processing Time Taken to Process workitems in each of the Processes in the Cabinet. It also gives details of the Average Processing Time Taken on each of the worksteps included in the Processes. You can also filter on a specific Process to get details corresponding to the specified process.
WFGetProcessTurnAroundLog	This API is used to fetch the average Turn-Around-Times (TAT) for a specified Process, and its activities.

WFGetActivityDelayLog

This API is used to fetch details about the no. of workitems in delay, and the average delay on activities in a specified process, during a specified date range. You can view

the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetActivityDelayLog_Input>
<Option>WFGetActivityDelayLog</Option>
<EngineName>ibpsjune29sql</EngineName>
<SessionId>1241627539</SessionId>
<ProcessDefinitionId>4</ProcessDefinitionId>
<DateRange>
<From>2016-09-01</From>
<To>2017-09-30</To>
</DateRange>
<ReportType>D</ReportType>
</WFGetActivityDelayLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetActivityDelayLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Root	Yes	ID of the Process for which Activity Delay details are to be fetched.	NA
ActivityID	Root	No	ID of the Activity for which Delay details are to be fetched. In case you wish to fetch the details for all the activities in the process, then omit this tag.	NA

Duration	Root	No	This flag indicates the duration for which the report can be downloaded. The values determine the time period of the report	T – Todays D – Last Days W – Last Weeks M – Last Months Q – Last Quarters Y – Last Years
ReportType	Root	No	It is the type of report. It can be daily, weekly, monthly or yearly.	H - Hourly D - Daily W – Weekly M – Monthly Y - Yearly
From	DateRange	No	It is the date from which the details are to be fetched.	NA
To	DateRange	No	It is the date till which the details are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetActivityDelayLog_Output>
<Option>WFGetActivityDelayLog</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
```

```
<From>2016-09-01</From>
<To>2017-09-30 23:59:59.999</To>
<ResultList>
<Result>
<Unit>188</Unit>
<MinDate>2017-07-07 00:00:00.0</MinDate>
<MaxDate>2017-07-07 00:00:00.0</MaxDate>
<Activity>
<ActivityID>1</ActivityID>
<ActivityName>Start Event_1</ActivityName>
<TotalNumberofWorkitems>2</TotalNumberofWorkitems>
<NumberofWorkitemsinDelay>0</NumberofWorkitemsinDelay>
<AverageDelay></AverageDelay>
</Activity>
</Result>
<Result>
<Unit>215</Unit>
<MinDate>2017-08-03 00:00:00.0</MinDate>
<MaxDate>2017-08-03 00:00:00.0</MaxDate>
<Activity>
<ActivityID>2</ActivityID>
<ActivityName>Workdesk_2</ActivityName>
<TotalNumberofWorkitems>1</TotalNumberofWorkitems>
<NumberofWorkitemsinDelay>0</NumberofWorkitemsinDelay>
<AverageDelay></AverageDelay>
</Activity>
</Result>
<Result>
<Unit>216</Unit>
<MinDate>2017-08-04 00:00:00.0</MinDate>
<MaxDate>2017-08-04 00:00:00.0</MaxDate>
<Activity>
<ActivityID>1</ActivityID>
<ActivityName>Start Event_1</ActivityName>
<TotalNumberofWorkitems>2</TotalNumberofWorkitems>
<NumberofWorkitemsinDelay>0</NumberofWorkitemsinDelay>
<AverageDelay></AverageDelay>
</Activity>
</Result>
</ResultList>
</WFGetActivityDelayLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Root	It refers to the return code of the API
From	Root	It is the date from which the details are to be fetched.
To	Root	It is the date till which the details are to be fetched.

MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.
Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, in case the Report Type is specified as D. However incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input
ActivityID	Activity	ID of the Activity.
ActivityName	Activity	Name of the Activity.
AverageDelay	Activity	Average delay on the Activity.
TotalNumberofWorkitems	Activity	Total no. of workitems that were processed on that activity during the specified date range.
NumberofWorkitemsinDelay	Activity	Total no. of workitems in delay on that activity during the specified date range.

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid Session
15	WM_INVALID_FILTER	Invalid Filter

WFGetExpiredWorkItemLog

This API is used to fetch details about the no. of workitems that expired in a process during specified date range.

You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetExpiredWorkItemLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID whose Activity Instances are to be fetched.	NA
From	DateRange	No	ID of the specific Activity for which the Turn Around Time data is to be fetched.	NA
To	DateRange	No	Flag indicating whether the total count of Activity Instances matching the specified criteria is to be returned.	Y – Yes N – No
ReportType	Root	No	Interval of the report	D – Daily W – Weekly M – Monthly Y – Yearly
Duration	Root	No	Turn around time of process.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.
Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, incase the Report Type is specified as D. However, incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input.
ProcessName	WorkItemInfo	Name of the Process for which the workitems expired.

ProcessDefinitionId	WorkItemInfo	ID of the Process for which the workitems expired.
NoofExpiredWorkItems	WorkItemInfo	No. of workitems that expired during the specified Date Range.
From	DateRange	From Date part for the Date Range from which the report data is to be fetched.
To	DateRange	To Date part for the Date Range until which the report data is to be fetched.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	No more records.

Input XML:

```
<?xml version="1.0"?>
<WFGetExpiredWorkItemLog_Input>
<Option>WFGetExpiredWorkItemLog</Option>
<EngineName>ofcab</EngineName>
<SessionId>2081172709</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<DateRange>
<From>2007-02-01</From>
<To>2007-03-22 12:29</To>
</DateRange>
<ReportType>D</ReportType>
</WFGetExpiredWorkItemLog_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WFGetExpiredWorkItemLog_Output>
<Option>WFGetExpiredWorkItemLog</Option>
<Status>18</Status>
<Error>
```

```
<Exception>
<MainCode>18</MainCode>
<SubErrorCode>0</SubErrorCode>
<TypeOfError>TEMPORARY</TypeOfError>
<Subject>No more records.</Subject>
<Description>null</Description>
</Exception>
</Error>
</WFGetExpiredWorkItemLog_Output>
```

WFGetHistory

This API gets the History of Actions performed on all Queues/Processes/Users. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetHistory_Input>
<Option>WFGetHistory</Option>
<EngineName>ibps5sp2rj</EngineName>
<SessionID>419272203</SessionID>
<ZipBuffer>N</ZipBuffer>
<RightFlag>010100</RightFlag>
<NoOfRecordsToFetch>6</NoOfRecordsToFetch>
<ActionID>60</ActionID>
<HistoryOption>Q</HistoryOption>
<OptionsFilter>
<OptionIndex>9</OptionIndex>
<OptionIndex>20</OptionIndex>
</OptionsFilter>
<GroupID>0</GroupID>
<SortOrder>A</SortOrder>
<From>2021-4-1 00:00:00</From>
<To>2022-4-1 23:59:59</To>
<ActionDescription>Y</ActionDescription>
<EnableMultiLingual>Y</EnableMultiLingual>
<EscapeSpecialChar>N</EscapeSpecialChar>
</WFGetHistory_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetHistory
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id.	NA
NoOfRecordsToFetch	Root	No	No. of records to fetch per batch.	NA
ActionId	Root	No	Action ID corresponding to which the History is to be fetched.	NA
HistoryOption *	Root	Yes	Indicates whether history is to be fetched for Process, Queue or User actions.	P – Process Q – Queue (Default) U – Users
HistoryType	Root	No	Indicates the history type (Admin operations or Workitem operations)	A- Admin Operations WI- WI Operations
OptionIndex *	Root	Yes	ID of the Process/Queue/User depending on what is specified in the HistoryOption Tag.	NA
LastIndex	BatchInfo	No	Log ID of the last record fetched in the previous batch.	NA
SortOrder	BatchInfo	No	It is the order on which the sorting has to be done.	A – Ascending D – Descending
To	BatchInfo	No	Date till which the records are to be fetched.	NA
From	BatchInfo	No	Date from which the records have to be fetched.	NA
GroupID	Root	No	Group ID of the users depending on the HistoryOption is U, OptionIndex must be 0 if groupID is to be considered.	NA
Duration	Root	No	This field is used to get the report of specific time periods. Note – If this field is specified, then FROM and TO fields are not considered.	T – Todays D – Last Days W – Last Weeks M – Last Months Q – Last Quarters Y – Last Years

EscapeSpecialChar	Root	No	This field is used to specify whether the special XML characters are to be escaped or not. Ex - '&' will be replaced by '&'	Y-Special characters are to be escaped N – Special characters are not escaped
ActionDescription	Root	No	This field is to specify whether the action description is to be fetched along with API output or not.	Y –Action description is printed N–Action Description is not printed
OptionsFilter	Root	Yes or No	This tag is used to filter the history on the basis of specific processes/queues/users. For instance, to filter the history on the basis of queueid's 10 and 15, user can specify history option as Q and under OptionsFilter provide two tags of OptionIndex with values 10 and 15.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetHistory_Output>
<Option>WFGetHistory</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<HistoryList>
<HistoryInfo>
<LogId>6</LogId>
<ActionId>60</ActionId>
<ActionDateTime>2021-09-24 12:26:37.247</ActionDateTime>
<UserId>3</UserId>
<Username>badmin</Username>
<PersonalName>mohnish</PersonalName>
<FamilyName>chopra</FamilyName>
<FieldId>6</FieldId>
<FieldName>
<QueueName>accountopen_Scanning</QueueName>
<AuthorizationFlag>N</AuthorizationFlag>
<UserList>
<UserInfo>
<UserName>rishabh</UserName>
<PersonalName>rishabh</PersonalName>
<FamilyName>jain</FamilyName>
<AssignmentType>P</AssignmentType>
</UserInfo>
</UserList>
</FieldName>
<ActionDescription>User: 'badmin'  added the user(s) : 'rishabh'</
ActionDescription>
</HistoryInfo>
<HistoryInfo>
<LogId>7</LogId>
<ActionId>60</ActionId>
<ActionDateTime>2021-09-24 12:26:37.257</ActionDateTime>
<UserId>3</UserId>
<Username>badmin</Username>
<PersonalName>mohnish</PersonalName>
<FamilyName>chopra</FamilyName>
<FieldId>3</FieldId>
<FieldName>
<QueueName>accountopen_Scanning</QueueName>
<AuthorizationFlag>N</AuthorizationFlag>
<UserList>
<UserInfo>
<UserName>badmin</UserName>
<PersonalName>mohnish</PersonalName>
<FamilyName>chopra</FamilyName>
<AssignmentType>P</AssignmentType>
</UserInfo>
</UserList>
</FieldName>
<ActionDescription>User: 'badmin'  added the user(s) : 'badmin'</
ActionDescription>
</HistoryInfo>
<HistoryInfo>
<LogId>1226</LogId>
```

```
<ActionId>60</ActionId>
<ActionDateTime>2021-10-25 12:00:31.453</ActionDateTime>
<UserId>3</UserId>
<Username>badmin</Username>
<PersonalName>mohnish</PersonalName>
<FamilyName>chopra</FamilyName>
<FieldId>9</FieldId>
<FieldName>
<QueueName>accountopen_Scanning</QueueName>
<AuthorizationFlag>N</AuthorizationFlag>
<UserList>
<UserInfo>
<UserName>vardaan</UserName>
<PersonalName>Vardaan</PersonalName>
<FamilyName></FamilyName>
<AssignmentType>P</AssignmentType>
</UserInfo>
</UserList>
</FieldName>
<ActionDescription>User: 'badmin'  added the user(s) : 'vardaan'</
ActionDescription>
</HistoryInfo>
</HistoryList>
<TotalCount>3</TotalCount>
<RetrievedCount>3</RetrievedCount>
<From>2021-4-1 00:00:00</From>
<To>2022-4-1 23:59:59</To>
</WFGetHistory_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ActivityId	HistoryInfo	ID of the activity for which audit info has been generated.
ActivityName	HistoryInfo	Name of the activity for which audit info has been generated.
UserId	HistoryInfo	Id of the user who has performed the action for which audit info is being generated.
Username	HistoryInfo	Name of the user who has performed the action for which audit info is being generated.
ActionId	HistoryInfo	Unique Id to corresponding to the action performed.
ActionDateTime	HistoryInfo	Date time at which the action was performed.
FieldId	HistoryInfo	Field ID set corresponding to the Action performed.
FieldName	HistoryInfo	It is the field name of the action.
WorkItemId	HistoryInfo	ID of the workitem for which audit info has been generated.
ProcessInstanceId	HistoryInfo	Process Instance ID of the workitem for which audit info has been generated.
LogId	HistoryInfo	Id corresponding to the record fetched.
TotalCount	Root	Total number of records that match the specified criteria.
RetrievedCount	Root	The number of records fetched in the current batch.
Version	FieldName	Version, if history option is P.
Comments	FieldName	Comments provided while performing the action, if history option is P.
Machine IP	FieldName	Machine IP Address, if history option is P.
ProcessName	FieldName	Name of the process, if history option is P.
QueueName	FieldName	Queue Name, if the history opetion is Q.
AuthorizationFlag	FieldName	Authorization details if the history opetion is Q.
GroupList	FieldName	Group list if the history opetion is Q.
GroupName	GroupList	Group Name of the group.

PersonalName	HistoryInfo	Personal name of user.
FamilyName	HistoryInfo	Family name of user.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records.
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

WFGetProcessDelayLog

This API is used to fetch the details about the no. of workitems that were in delay in a specified process during a specified date range. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetProcessDelayLog_Input>
<Option>WFGetProcessDelayLog</Option>
<EngineName>ofcab</EngineName>
<SessionId>2097286869</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<DateRange>
<From>2007-02-01</From>
<To>2007-03-23  9:49</To>
</DateRange>
<ReportType>D</ReportType>
</WFGetProcessDelayLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessDelayLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID whose Activity Instances are to be fetched.	NA
From	DateRange	No	ID of the specific Activity for which the Turn Around Time data is to be fetched.	NA
To	DateRange	No	Flag indicating whether the total count of Activity Instances matching the specified criteria is to be returned.	Y -- Yes N -- No
ReportType	Root	No	Interval of the report	D - Daily W - Weekly M - Monthly Y - Yearly
Duration	Root	No	Turn around time of process.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessDelayLog_Output>
<Option>WFGetProcessDelayLog</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ResultList>
<Result>
<Unit>53</Unit>
<MinDate>2007-02-22 00:00:00.0</MinDate>
<MaxDate>2007-02-22 00:00:00.0</MaxDate>
<TotalCompletedWorkitems>1</TotalCompletedWorkitems>
<NumberofWorkitemsinDelay>0</NumberofWorkitemsinDelay>
<AverageDelay></AverageDelay>
</Result>
</ResultList>
</WFGetProcessDelayLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.

Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, incase the Report Type is specified as D. However, incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input.
TotalCompletedWorkitems	Result	It is the total number of workitems that are completed during the specified date range.
NumberofWorkitemsinDelay	Result	No. of workitems that got delayed during the specified date range.
AverageDelay	Result	Average Delay in hours during the date range.
From	DateRange	From Date part for the Date Range from which the report data is to be fetched.
To	DateRange	To Date part for the Date Range until which the report data is to be fetched.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	No more records.

WFGetProcessInfo

This API fetches complete definition details of Process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessInfo
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionId	Root	Yes	ID of the Process whose details are to be fetched.	NA
DataFlag	Root	No	'Y' If all data is required, else 'N'	NA
IsDocReq	Root	No	'Y' If document list is required, else 'N'	NA
ExtTableDataFlag	Root	No	'Y' If external table data is required, else 'N'	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

ProcessDefId	Process	ID of the Process.
VersionNo	Process	Version No. of the Process.
ProcessName	Process	Name of the Process.
ProcessState	Process	State of the Process – Enabled or Disabled.
RegPrefix	Process	The Prefix string defined for the Process's Registration Sequence.
RegSuffix	Process	The Suffix string defined for the Process's Registration Sequence.
RegStartingNo	Process	The Starting Sequence No. defined for the Process's Registration Sequence.
ProcessTurnAroundTime	Process	Turn Around Time (TAT) set for the Process in hours.
RegSeqLength	Process	Permissible Length of the Registration No. for Workitems.
CabinetName	ProcessFolders	Name of the Cabinet in which the Process Folders are created. This is the name of the cabinet in which the process is registered.
RouteFolderId	ProcessFolders	Whenever a process is registered in the cabinet, a folder is created with the name and Version no. of the Process, in the DMS. This RouteFolderId is the ID of the Process Folder created in the DMS, corresponding to the Process.
ScratchFolderId	ProcessFolders	Within the Route Folder, there are 4 sub-folders created with the name Scratch, WorkFlow, Discarded, and Completed. This is the ID of the Scratch folder, which contains all Process Instances for the corresponding Process, and their related documents, before they are initiated in the Process.

WorkFlowFolderId	ProcessFolders	This is the ID of the WorkFlow folder, which contains all Processes Instances and their Documents once they are initiated in the process.
CompletedFolderId	ProcessFolders	This is the ID of the Completed folder, which contains all Processes Instances and their Documents once they are completed in the process.
DiscardFolderId	ProcessFolders	This is the ID of the Discard folder, which contains all Processes Instances and their Documents once they are discarded in the process.
DatabaseName	ExternalTable	Name of the Database whose Table is imported in the process as External Table.
UserId	ExternalTable	Database User ID required to connect to the Database.
Password	ExternalTable	Database User Password required to connect to the Database.
TableName	ExternalTable	Name of the External Table.
ExtObjId	ExternalTable	External Table Object ID. This is always 1.
HostName	ExternalTable	Name of the Host machine incase the Database Type is ORACLE.
Service	ExternalTable	Name of the ORACLE Service incase the Database Type is ORACLE.
Port	ExternalTable	Port on which the Service is running.
Rec1	ExternalTable	Record Mapping Field - 1
Rec2	ExternalTable	Record Mapping Field - 2
Rec3	ExternalTable	Record Mapping Field - 3
Rec4	ExternalTable	Record Mapping Field - 4
Rec5	ExternalTable	Record Mapping Field - 5
SystemDefinedName	VariableMapping	System Defined Name for the Variable.
UserDefinedName	VariableMapping	User Defined Name for the Variable.

VariableType	VariableMapping	Data Type for Variable. 3 – Integer 4 – Long 6 – Float 8 – Date 10 – Text
VariableScope	VariableMapping	Type of Variable. S – System M – System-Modifiable Q/U – Queue/User defined I – External Table
ExtObjId	VariableMapping	External Object ID for the Variables. This is 1 for External Table Variables and 0 otherwise.
ExceptionId	Exception	ID of the Exception.
ExceptionName	Exception	Name of the Exception.
Description	Exception	Description Text for the Exception.
TriggerId	Trigger	ID of the Trigger.
TriggerName	Trigger	Name of the Trigger.
TriggerType	Trigger	Type of the Trigger. M – Mail D – DataEntry S – Set data E – Execute X – Exception L – Launch Application G – Generate Response
TriggerTypeName	Trigger	Name of the Trigger Type.
Description	Trigger	Description of the Trigger.
Subject	Definition	Subject String for Mail Trigger Type.
FromUser	Definition	From User for Mail Trigger Type.
FromUserType	Definition	From User Type for Mail Trigger Type. i.e. C – Constant Email Address. V – For Variable

ExtObjIdFromUser	Definition	Incase the FromUserType is V, then ExtObjId for the Variable.
ToUser	Definition	To User for Mail Trigger Type.
ToType	Definition	To User Type for Mail Trigger Type. i.e. C – Constant Email Address V – Variable
ExtObjIdTo	Definition	Incase the ToUserType is V, then ExtObjId for the Variable.
CCUser	Definition	CC User for Mail Trigger Type.
CCType	Definition	CC User Type for Mail Trigger Type. i.e. C – Constant Email Address V – Variable
ExtObjIdCC	Definition	Incase the CCUserType is V, then ExtObjId for the Variable.
Message	Definition	Mail Message Text.
VariableName	DataEntry	Variable Name for which Data Entry Form is to be painted for Data Entry Trigger Type.
Type		Type of the Variable.
ExtObjId		Ext Obj ID for the Variable.
Param1	SetData Attribute	Name of the Variable in Parameter -1 for the Set Data Trigger Type.
Type1		Type of the Variable in Parameter -1 for the Set Data Trigger Type.
ExtObjId1		Ext Obj ID of the Variable in Parameter -1 for the Set Data Trigger Type.
Param2		Name of the Variable in Parameter -2 for the Set Data Trigger Type.
Type2		Type of the Variable in Parameter -2 for the Set Data Trigger Type.
ExtObjId2		Ext Obj ID of the Variable in Parameter -2 for the Set Data Trigger Type.
ExceptionName	Exception	Name of the Exception for Exception Type Trigger.

Attribute		Attribute, whether to Raise/Clear Exception in the Trigger.
RaiseViewComment		Exception Raising/Clearing Comments to be Associated with the Trigger.
ExceptionId		ID of the Exception.
FunctionName	Execute App	Name of the Function to be invoked in case of Execute Application Trigger Type.
ArgList		Arg List consisting of Variables which have to be passed as parameters while invoking the specified function.
FileName	Generate Response	Name of the Response File associated with the Generate Response Trigger Type.
ApplicationName		Name of the Application to be invoked. This is generally windowrd, as OF supports Generate Response for MS Word only.
ArgList		Arg List consisting of Variables which have to be replaced by their values in the Response File.
GenDocType		The Document Type with which the Response File is to be added to the workitem.
ApplicationName	Launch App	Name of the Application to be launched incase of Launch Application Trigger.
ArgList		Arg List consisting of Variables, which have to be passed as command line arguments while launching the external application.
ClassName	Custom	Name of the Custom Trigger Definition Class Name incase the Trigger is of Custom Defined Type.
ExecutableClass		Name of the Custom Trigger Executable Class Name incase the Trigger is of Custom Defined Type.

HttpPath		JSP to be invoked for executing the Custom Defined Trigger Type.
ActivityId	Activity	ID of the Activity.
ActivityType	Activity	Type of the Activity. 1 - Work Introduction 2 - Work Exit 3 - Discard 4 - Hold 5 - Distribute 6 - Collect 7 - Decision 18 - SubProcess 10 - Custom 19 – Integration 11 - Query
ActivityName	Activity	Name of the Activity.
Description	Activity	Description Text specified for the Activity.
NeverExpireFlag	Activity	Flag indicating whether Expiry is set on the Activity or not.
Expiry	Activity	Time period till which the workitem remains active on the activity.
ExpiryActivity	Activity	The activity on which the workitem will be routed on its expiry.
TargetActivity	Activity	Target Activity to which the Workitem will be routed once it is completed.
CollectNoOfInstances	Activity	No. of Instances to be collected (if Activity is of Type COLLECT).
PrimaryActivity	Activity	Primary Activity in case the Activity is of Type COLLECT.
DefaultWorkIntroduction	Activity	Flag indicating whether the Activity is Default Work-Introduction workstep or not.
ExpireOnPrimaryFlag	Activity	Flag indicating whether other workitem instances are to expire on entry of the Primary Instance on COLLECT workstep.

TriggerId	Activity	Id of the Trigger Associated with expiry set on an activity.
HoldTillVariable	Activity	Time Period for which the workitem will remain Active on a Hold workstep.
ExtObjId	Activity	Ext Obj ID for the HoldTillVariable.
MainClientInterface	Activity	
ServerInterface	Activity	
WebclientInterface	Activity	
ActivityTurnAroundTime	Activity	
AppExecutionFlag	Activity	
AppExecutionValue	Activity	
ExpiryOperator	Activity	
DefaultStream	Activity	
ImportedProcessName	SubProcessData/ ImportedProcessDefinition	
ImportedFieldName		
FieldDataType		
FieldType		
ImportedProcessName		
ImportedFieldName		
MappedFieldName		
FieldType		
MapType		
RuleType	Rules/Rule/Operations/ Operation	
RuleId	Rules/Rule/Operations/ Operation	
OperationType	Rules/Rule/Operations/ Operation	

Param1	Rules/Rule/Operations/ Operation	
Type1	Rules/Rule/Operations/ Operation	
ExtObjId1	Rules/Rule/Operations/ Operation	
Param2	Rules/Rule/Operations/ Operation	
Type2	Rules/Rule/Operations/ Operation	
ExtObjId2	Rules/Rule/Operations/ Operation	
Param3	Rules/Rule/Operations/ Operation	
Type3	Rules/Rule/Operations/ Operation	
ExtObjId3	Rules/Rule/Operations/ Operation	
Operator	Rules/Rule/Operations/ Operation	
OperationOrderId	Rules/Rule/Operations/ Operation	
CommentFlag	Rules/Rule/Operations/ Operation	
RuleType	Conditions/Condition	
RuleOrderId	Conditions/Condition	
RuleId	Conditions/Condition	
ConditionOrderId	Conditions/Condition	
Param1	Conditions/Condition	
Type1	Conditions/Condition	
ExtObjId1	Conditions/Condition	
Param2	Conditions/Condition	

Type2	Conditions/Condition	
ExtObjId2	Conditions/Condition	
Operator	Conditions/Condition	
LogicalOp	Conditions/Condition	
ActivityId	ExtMethodParamMapping	
RuleId		
RuleOperationOrderId		
MapType		
ExtMethodIndex		
ExtMethodParamIndex		
MappedField		
MappedFieldType		
ConstantName	DynamicConstant	
ConstantValue		
LastModifiedOn		
DatabaseName	ExtTableDetail	
DatabaseType	ExtTableDetail	
UserId	ExtTableDetail	
PWD	ExtTableDetail	
TABLEName	ExtTableDetail	
ExtObjID	ExtTableDetail	
HostName	ExtTableDetail	
HostName	ExtTableDetail	
Port	ExtTableDetail	
SecurityFlag	ExtTableDetail	
SortingColumn	ExtTableDetail	
ProcessVariantId	ExtTableDetail	
FieldName	FieldDetails	

FieldType	FieldDetails	
FieldLength	FieldDetails	
DefaultValue	FieldDetails	
Attribute	FieldDetails	
VarPrecision	FieldDetails	
ExtObjId	FieldDetails	
ProcessTatCalFlag	Root	This flag signifies whether the calendar has been configured for TAT Calculation. Possible values: Y or N

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
602	WFS_OPERATION_SET_DYNAMIC_CONST_FAILED	Set Dynamic Constant Failed
400	WF_OPERATION_FAILED	Operation failed
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid Session
15	WM_INVALID_FILTER	Invalid Filter

Input XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetProcessInfo_Input>
<Option>WFGetProcessInfo</Option>
<EngineName>oracab_1</EngineName>
<SessionId>-413947843</SessionId>
<ProcessDefinitionId>7</ProcessDefinitionId>
<DataFlag>Y</DataFlag> -- 'Y' If all data is required, else 'N'


    <IsDocReq>Y</IsDocReq> -- 'Y' If document list is required, else 'N'
```

```
    <OmniService>Y</OmniService>
</WFGetProcessInfo_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WFGetProcessInfo_Output>
<Option>WFGetProcessInfo</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<CacheTime>2007-05-22 19:18:40</CacheTime>
<Process>
<ProcessDefId>1</ProcessDefId>
<ProcessType>S</ProcessType>
<VersionNo>1</VersionNo>
<ProcessName>AccOpening</ProcessName>
<ProcessState>Enabled</ProcessState>
<RegPrefix>BANK</RegPrefix>
<RegSuffix>ACC</RegSuffix>
<RegStartingNo>1</RegStartingNo>
<ProcessTurnAroundTime>0</ProcessTurnAroundTime>
<RegSeqLength>19</RegSeqLength>
<ProcessFolders>
<CabinetName>ofcab</CabinetName>
<RouteFolderId>10</RouteFolderId>
<ScratchFolderId>11</ScratchFolderId>
<WorkFlowFolderId>12</WorkFlowFolderId>
<CompletedFolderId>13</CompletedFolderId>
<DiscardFolderId>14</DiscardFolderId>
</ProcessFolders>
<ExternalTable>
<DatabaseName>ofcab</DatabaseName>
<DatabaseType>SQL</DatabaseType>
<UserId>sa</UserId>
<Password></Password>
<TableName>AccOpening</TableName>
<ExtObjId>1</ExtObjId>
<HostName></HostName>
<Service></Service>
<Port>0</Port>
<Rec1>ItemIndex</Rec1>
<Rec2>ItemType</Rec2>
<Rec3></Rec3>
<Rec4></Rec4>
<Rec5></Rec5>
</ExternalTable>
<VariableMappings>
<VariableMapping>
<SystemDefinedName>ActivityId</SystemDefinedName>
<UserDefinedName>ActivityId</UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
```

```
</VariableMapping>
<VariableMapping>
<SystemDefinedName>ActivityName</SystemDefinedName>
<UserDefinedName>ActivityName</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>Address</SystemDefinedName>
<UserDefinedName>Address</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>I</VariableScope>
<ExtObjId>1</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>Age</SystemDefinedName>
<UserDefinedName>Age</UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>I</VariableScope>
<ExtObjId>1</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>ApplicationDate</SystemDefinedName>
<UserDefinedName>ApplicationDate</UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>I</VariableScope>
<ExtObjId>1</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>AssignmentType</SystemDefinedName>
<UserDefinedName>AssignmentType</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>CheckListCompleteFlag</SystemDefinedName>
<UserDefinedName>CheckListCompleteFlag</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>CreatedByName</SystemDefinedName>
<UserDefinedName>CreatedByName</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>CreatedDateTime</SystemDefinedName>
<UserDefinedName>CreatedDateTime</UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
```

```
<VariableMapping>
<SystemDefinedName>EmploymentDetails</SystemDefinedName>
<UserDefinedName>EmploymentDetails</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>I</VariableScope>
<ExtObjId>1</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>EntryDateTime</SystemDefinedName>
<UserDefinedName>EntryDateTime</UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>getdate()</SystemDefinedName>
<UserDefinedName>CurrentDateTime</UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>HoldStatus</SystemDefinedName>
<UserDefinedName>HoldStatus</UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>InstrumentStatus</SystemDefinedName>
<UserDefinedName>InstrumentStatus</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>IntroducedBy</SystemDefinedName>
<UserDefinedName>IntroducedBy</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>IntroductionDateTime</SystemDefinedName>
<UserDefinedName>IntroductionDateTime</UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>LockedByName</SystemDefinedName>
<UserDefinedName>LockedByName</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
```

```
<VariableMapping>
<SystemDefinedName>LockedTime</SystemDefinedName>
<UserDefinedName>LockedTime</UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>LockStatus</SystemDefinedName>
<UserDefinedName>LockStatus</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>PreviousStage</SystemDefinedName>
<UserDefinedName>PreviousStage</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>PriorityLevel</SystemDefinedName>
<UserDefinedName>PriorityLevel</UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue>1</DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>ProcessedBy</SystemDefinedName>
<UserDefinedName>ProcessedBy</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>ProcessInstanceName</SystemDefinedName>
<UserDefinedName>WorkItemName</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>ProcessInstanceState</SystemDefinedName>
<UserDefinedName>ProcessInstanceState</UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>QueueName</SystemDefinedName>
<UserDefinedName>QueueName</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
```

```
<VariableMapping>
<SystemDefinedName>QueueType</SystemDefinedName>
<UserDefinedName>QueueType</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>SaveStage</SystemDefinedName>
<UserDefinedName>SaveStage</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>Status</SystemDefinedName>
<UserDefinedName>Status</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>ValidTill</SystemDefinedName>
<UserDefinedName>ValidTillDateTime</UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>S</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_DATE1</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_DATE2</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_DATE3</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>8</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_DATE4</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>8</VariableType>
```

```
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_FLOAT1</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>6</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_FLOAT2</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>6</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT1</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT2</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT3</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT4</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT5</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
```

```
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT6</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT7</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_INT8</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_LONG1</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>4</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_LONG2</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>4</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_LONG3</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>4</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_LONG4</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>4</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
```

```
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_REC_1</SystemDefinedName>
<UserDefinedName>ItemIndex</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_REC_2</SystemDefinedName>
<UserDefinedName>ItemType</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_REC_3</SystemDefinedName>
<UserDefinedName>VAR_REC_3</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_REC_4</SystemDefinedName>
<UserDefinedName>VAR_REC_4</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_REC_5</SystemDefinedName>
<UserDefinedName>VAR_REC_5</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR1</SystemDefinedName>
<UserDefinedName>ApplicantName</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR2</SystemDefinedName>
<UserDefinedName>Location</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR3</SystemDefinedName>
<UserDefinedName>AccountType</UserDefinedName>
<VariableType>10</VariableType>
```

```
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR4</SystemDefinedName>
<UserDefinedName>ApprovalStatus</UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR5</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR6</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR7</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>VAR_STR8</SystemDefinedName>
<UserDefinedName></UserDefinedName>
<VariableType>10</VariableType>
<VariableScope>U</VariableScope>
<ExtObjId>0</ExtObjId>
<DefaultValue></DefaultValue>
</VariableMapping>
<VariableMapping>
<SystemDefinedName>WorkItemState</SystemDefinedName>
<UserDefinedName>WorkItemState</UserDefinedName>
<VariableType>3</VariableType>
<VariableScope>M</VariableScope>
<ExtObjId>0</ExtObjId>
</VariableMapping>
</VariableMappings>
<Exceptions>
<Exception>
<ExceptionId>1</ExceptionId>
<ExceptionName>ImproperScanQuality</ExceptionName>
<Description>The scan quality of the documents is not proper.</Description>
```

```
</Exception>
<Exception>
<ExceptionId>2</ExceptionId>
<ExceptionName>MissingDocuments</ExceptionName>
<Description>Some of the required documents have not been scanned for the
Application.</Description>
</Exception>
</Exceptions>
<Triggers>
<Trigger>
<TriggerId>1</TriggerId>
<TriggerName>Mail</TriggerName>
<TriggerType>M</TriggerType>
<TriggerTypeName></TriggerTypeName>
<Description></Description>
<Definition>
<Subject></Subject>
<FromUser>ApplicantName</FromUser>
<FromUserType>S</FromUserType>
<ExtObjIdFromUser>0</ExtObjIdFromUser>
<ToUser>ApplicantName</ToUser>
<ToType>S</ToType>
<ExtObjIdTo>0</ExtObjIdTo>
<CCUser></CCUser>
<CCType>C</CCType>
<ExtObjIdCC>0</ExtObjIdCC>
<Message>df</Message>
</Definition>
</Trigger>
</Triggers>
<Activities>
<Activity>
<ActivityId>1</ActivityId>
<ActivityType>1</ActivityType>
<ActivityName>Scanning</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>2</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
<PrimaryActivity>Y</PrimaryActivity>
<DefaultWorkIntroduction>Y</DefaultWorkIntroduction>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>0</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
<DefaultStream>1</DefaultStream>
```

```
</Activity>
<Activity>
<ActivityId>2</ActivityId>
<ActivityType>10</ActivityType>
<ActivityName>Data Entry</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>3</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
<PrimaryActivity></PrimaryActivity>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>10</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
<DefaultStream>1</DefaultStream>
</Activity>
<Activity>
<ActivityId>3</ActivityId>
<ActivityType>7</ActivityType>
<ActivityName>ExceptionStatus</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>4</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
<PrimaryActivity></PrimaryActivity>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>0</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
<Rules>
<Rule>
<Operations>
<Operation>
<RuleType>X</RuleType>
<RuleId>1</RuleId>
```

```
<OperationType>4</OperationType>
<Param1>PreviousStage</Param1>
<Type1>V</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2></Param2>
<Type2>V</Type2>
<ExtObjId2>0</ExtObjId2>
<Param3></Param3>
<Type3></Type3>
<ExtObjId3>0</ExtObjId3>
<Operator>0</Operator>
<OperationOrderId>1</OperationOrderId>
<CommentFlag>N</CommentFlag>
</Operation>
</Operations>
<Conditions>
<Condition>
<RuleType>X</RuleType>
<RuleOrderId>3</RuleOrderId>
<RuleId>1</RuleId>
<ConditionOrderId>1</ConditionOrderId>
<Param1>OTHERWISE</Param1>
<Type1>S</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2>OTHERWISE</Param2>
<Type2>S</Type2>
<ExtObjId2>0</ExtObjId2>
<Operator>5</Operator>
<LogicalOp>5</LogicalOp>
</Condition>
</Conditions>
</Rule>
<Rule>
<Operations>
<Operation>
<RuleType>X</RuleType>
<RuleId>2</RuleId>
<OperationType>4</OperationType>
<Param1>Manager</Param1>
<Type1>V</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2></Param2>
<Type2>V</Type2>
<ExtObjId2>0</ExtObjId2>
<Param3></Param3>
<Type3></Type3>
<ExtObjId3>0</ExtObjId3>
<Operator>0</Operator>
<OperationOrderId>1</OperationOrderId>
<CommentFlag>N</CommentFlag>
</Operation>
</Operations>
<Conditions>
<Condition>
<RuleType>X</RuleType>
<RuleOrderId>2</RuleOrderId>
<RuleId>2</RuleId>
```

```
<ConditionOrderId>1</ConditionOrderId>
<Param1>InstrumentStatus</Param1>
<Type1>S</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2>N</Param2>
<Type2>C</Type2>
<ExtObjId2>0</ExtObjId2>
<Operator>3</Operator>
<LogicalOp>3</LogicalOp>
</Condition>
</Conditions>
</Rule>
<Rule>
<Operations>
<Operation>
<RuleType>X</RuleType>
<RuleId>3</RuleId>
<OperationType>4</OperationType>
<Param1>ExceptionResolution</Param1>
<Type1>V</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2></Param2>
<Type2>V</Type2>
<ExtObjId2>0</ExtObjId2>
<Param3></Param3>
<Type3></Type3>
<ExtObjId3>0</ExtObjId3>
<Operator>0</Operator>
<OperationOrderId>1</OperationOrderId>
<CommentFlag>N</CommentFlag>
</Operation>
</Operations>
<Conditions>
<Condition>
<RuleType>X</RuleType>
<RuleOrderId>1</RuleOrderId>
<RuleId>3</RuleId>
<ConditionOrderId>1</ConditionOrderId>
<Param1>InstrumentStatus</Param1>
<Type1>S</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2>E</Param2>
<Type2>C</Type2>
<ExtObjId2>0</ExtObjId2>
<Operator>3</Operator>
<LogicalOp>3</LogicalOp>
</Condition>
</Conditions>
</Rule>
</Rules>
</Activity>
<Activity>
<ActivityId>4</ActivityId>
<ActivityType>10</ActivityType>
<ActivityName>ExceptionResolution</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
```

```
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>2</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
<PrimaryActivity></PrimaryActivity>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>5</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
<DefaultStream>1</DefaultStream>
</Activity>
<Activity>
<ActivityId>5</ActivityId>
<ActivityType>10</ActivityType>
<ActivityName>Manager</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>6</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
<PrimaryActivity></PrimaryActivity>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>0</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
<DefaultStream>1</DefaultStream>
</Activity>
<Activity>
<ActivityId>6</ActivityId>
<ActivityType>7</ActivityType>
<ActivityName>Decision2</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>8</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
```

```
<PrimaryActivity></PrimaryActivity>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>0</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
<Rules>
<Rule>
<Operations>
<Operation>
<RuleType>X</RuleType>
<RuleId>1</RuleId>
<OperationType>4</OperationType>
<Param1>PreviousStage</Param1>
<Type1>V</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2></Param2>
<Type2>V</Type2>
<ExtObjId2>0</ExtObjId2>
<Param3></Param3>
<Type3></Type3>
<ExtObjId3>0</ExtObjId3>
<Operator>0</Operator>
<OperationOrderId>1</OperationOrderId>
<CommentFlag>N</CommentFlag>
</Operation>
</Operations>
<Conditions>
<Condition>
<RuleType>X</RuleType>
<RuleOrderId>3</RuleOrderId>
<RuleId>1</RuleId>
<ConditionOrderId>1</ConditionOrderId>
<Param1>OTHERWISE</Param1>
<Type1>S</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2>OTHERWISE</Param2>
<Type2>S</Type2>
<ExtObjId2>0</ExtObjId2>
<Operator>5</Operator>
<LogicalOp>5</LogicalOp>
</Condition>
</Conditions>
</Rule>
<Rule>
<Operations>
<Operation>
<RuleType>X</RuleType>
<RuleId>2</RuleId>
<OperationType>4</OperationType>
```

```
<Param1>Work Exit1</Param1>
<Type1>V</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2></Param2>
<Type2>V</Type2>
<ExtObjId2>0</ExtObjId2>
<Param3></Param3>
<Type3></Type3>
<ExtObjId3>0</ExtObjId3>
<Operator>0</Operator>
<OperationOrderId>1</OperationOrderId>
<CommentFlag>N</CommentFlag>
</Operation>
</Operations>
<Conditions>
<Condition>
<RuleType>X</RuleType>
<RuleOrderId>1</RuleOrderId>
<RuleId>2</RuleId>
<ConditionOrderId>1</ConditionOrderId>
<Param1>ApprovalStatus</Param1>
<Type1>U</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2>Yes</Param2>
<Type2>C</Type2>
<ExtObjId2>0</ExtObjId2>
<Operator>3</Operator>
<LogicalOp>3</LogicalOp>
</Condition>
</Conditions>
</Rule>
<Rule>
<Operations>
<Operation>
<RuleType>X</RuleType>
<RuleId>3</RuleId>
<OperationType>4</OperationType>
<Param1>Discard1</Param1>
<Type1>V</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2></Param2>
<Type2>V</Type2>
<ExtObjId2>0</ExtObjId2>
<Param3></Param3>
<Type3></Type3>
<ExtObjId3>0</ExtObjId3>
<Operator>0</Operator>
<OperationOrderId>1</OperationOrderId>
<CommentFlag>N</CommentFlag>
</Operation>
</Operations>
<Conditions>
<Condition>
<RuleType>X</RuleType>
<RuleOrderId>2</RuleOrderId>
<RuleId>3</RuleId>
<ConditionOrderId>1</ConditionOrderId>
```

```
<Param1>ApprovalStatus</Param1>
<Type1>U</Type1>
<ExtObjId1>0</ExtObjId1>
<Param2>No</Param2>
<Type2>C</Type2>
<ExtObjId2>0</ExtObjId2>
<Operator>3</Operator>
<LogicalOp>3</LogicalOp>
</Condition>
</Conditions>
</Rule>
</Rules>
</Activity>
<Activity>
<ActivityId>7</ActivityId>
<ActivityType>2</ActivityType>
<ActivityName>Work Exit1</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>0</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
<PrimaryActivity></PrimaryActivity>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>0</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
<SubProcessData>
<ImportedProcessDefData></ImportedProcessDefData>
<InitiateWorkitemData></InitiateWorkitemData>
</SubProcessData>
</Activity>
<Activity>
<ActivityId>8</ActivityId>
<ActivityType>3</ActivityType>
<ActivityName>Discard1</ActivityName>
<Description></Description>
<NeverExpireFlag>N</NeverExpireFlag>
<Expiry>NULL</Expiry>
<ExpiryActivity></ExpiryActivity>
<TargetActivity>0</TargetActivity>
<AllowReassignment>N</AllowReassignment>
<CollectNoOfInstances>0</CollectNoOfInstances>
<PrimaryActivity></PrimaryActivity>
<ExpireOnPrimaryFlag></ExpireOnPrimaryFlag>
<TriggerId>0</TriggerId>
<HoldExecutable></HoldExecutable>
```

```
<HoldTillVariable></HoldTillVariable>
<ExtObjId>0</ExtObjId>
<MainClientInterface></MainClientInterface>
<ServerInterface>N</ServerInterface>
<WebclientInterface></WebclientInterface>
<ActivityTurnAroundTime>0</ActivityTurnAroundTime>
<AppExecutionFlag>M</AppExecutionFlag>
<AppExecutionValue>0</AppExecutionValue>
<ExpiryOperator>12</ExpiryOperator>
</Activity>
</Activities>
</Process>
</WFGetProcessInfo_Output>
```

WFGetProcessLoadHistory

This API returns the Load History, in terms of No. of Workitems Created, Completed, etc for a specified Process during a specific Date Range.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFGetProcessLoadHistory_Input>
<Option>WFGetProcessLoadHistory</Option>
<EngineName>ofcab</EngineName>
<SessionId>1338058054</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<DateRange>
<From>2006-12-12</From>
<To>2007-12-12</To>
</DateRange>
<ReportType></ReportType>
</WFGetProcessLoadHistory_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessLoadHistory
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID whose Activity Instances are to be fetched.	NA
From	DateRange	No	ID of the specific Activity for which the Turn Around Time data is to be fetched.	NA
To	DateRange	No	Flag indicating whether the total count of Activity Instances matching the specified criteria is to be returned.	Y -- Yes N -- No
ReportType	Root	No	Interval of the report	D - Daily W - Weekly M - Monthly Y - Yearly
Duration	Root	No	Turn around time of process.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessLoadHistory_Output>
<Option>WFGetProcessLoadHistory</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Total>0</Total>
<ResultList>
<Result>
<Unit>43</Unit>
<MinDate>2007-02-12 00:00:00.0</MinDate>
<MaxDate>2007-02-13 00:00:00.0</MaxDate>
<New>1</New>
<Completed>0</Completed>
<Terminated>0</Terminated>
<Aborted>0</Aborted>
</Result>
<Result>
<Unit>50</Unit>
<MinDate>2007-02-19 00:00:00.0</MinDate>
<MaxDate>2007-02-20 00:00:00.0</MaxDate>
<New>1</New>
<Completed>0</Completed>
<Terminated>0</Terminated>
<Aborted>0</Aborted>
</Result>
<Result>
<Unit>51</Unit>
<MinDate>2007-02-20 00:00:00.0</MinDate>
<MaxDate>2007-02-21 00:00:00.0</MaxDate>
<New>1</New>
<Completed>0</Completed>
<Terminated>0</Terminated>
<Aborted>0</Aborted>
</Result>
<Result>
<Unit>52</Unit>
<MinDate>2007-02-21 00:00:00.0</MinDate>
<MaxDate>2007-02-22 00:00:00.0</MaxDate>
<New>3</New>
<Completed>0</Completed>
<Terminated>0</Terminated>
<Aborted>0</Aborted>
</Result>
<Result>
<Unit>53</Unit>
<MinDate>2007-02-22 00:00:00.0</MinDate>
<MaxDate>2007-02-23 00:00:00.0</MaxDate>
<New>0</New>
<Completed>1</Completed>
<Terminated>0</Terminated>
<Aborted>0</Aborted>
</Result>
<Result>
```

```
<Unit>57</Unit>
<MinDate>2007-02-26 00:00:00.0</MinDate>
<MaxDate>2007-02-27 00:00:00.0</MaxDate>
<New>2</New>
<Completed>0</Completed>
<Terminated>0</Terminated>
<Aborted>0</Aborted>
</Result>
</ResultList>
</WFGetProcessLoadHistory_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.
Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, incase the Report Type is specified as D. However, incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input.
Terminated	Result	Number of workitems Terminated during the specified Date Range.
Aborted	Result	Number of workitems Aborted during the specified Date Range.
Completed	Result	Number of workitems Completed during the specified Date Range.
New	Result	Number of workitems Created during the specified Date Range.
Total	Root	Total result items returned corresponding to the Date Range and the Report Type.
From	DateRange	From Date part for the Date Range from which the report data is to be fetched.

To	DateRange	To Date part for the Date Range until which the report data is to be fetched.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	No more records.

WFGetProcessLog

This API is used to fetch the history details for a specified Process, in terms of no. of workitems initiated, created, processed in a process, during a specified date range. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFGetProcessLog_Input>
<Option>WFGetProcessLog</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1926804761</SessionId>
<ProcessDefinitionId>5</ProcessDefinitionId>
<ActivityId>1</ActivityId>
<IntroducedFlag>Y</IntroducedFlag>
<CompletedFlag>Y</CompletedFlag>
<AbortedFlag>Y</AbortedFlag>
<TerminatedFlag>Y</TerminatedFlag>
<ProcessedFlag>Y</ProcessedFlag>
<ExpiredFlag>Y</ExpiredFlag>
<EnteredinActivityFlag>Y</EnteredinActivityFlag>
<DateRange>
<From>2007-02-02</From>
<To>2007-07-20</To>
</DateRange>
```

```
<ReportType>D</ReportType>
</WFGetProcessLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMSetTurnAroundTime
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	ID of the process for which history details are to be fetched.	NA
ActivityId	Root	No	Flag indicating whether to fetch the no. of workitems introduced in the process.	Y -Yes N – No
IntroducedFlag	Root	No	Id of the activity in the specified process for which the TAT is to be set.	Y -Yes N – No
CompletedFlag	Root	No	Flag indicating whether to fetch the no. of workitems completed in the process.	Y -Yes N – No
AbortedFlag	Root	No	Flag indicating whether to fetch the no. of workitems aborted in the process.	Y -Yes N – No
TerminatedFlag	Root	No	Value of the Order by field of the last stream returned in the previous batch.	Y -Yes N – No
ProcessedFlag	Root	No	Flag indicating whether to fetch the no. of workitems being	Y -Yes N – No

			processed in the process.	
ExpiredFlag	Root	No	Flag indicating whether to fetch the no. of workitems expired in the process.	Y -Yes N – No
EnteredinActivityFlag	Root	No	Flag indicating whether to fetch the no. of workitems that entered the specified activity in the process.	Y -Yes N – No
ReportType	Root	No	It is the report type.	D - Daily W - Weekly M - Monthly Q - Quaterly
From	DateRange	No	It is the date from when the report has to be generated.	NA
To	DateRange	No	It is the date till which the report has to be generated.	NA
Duration	Root	No	Calculates From and To Date based on Duration Type	D - Daily W - Weekly M - Monthly Q - Quaterly

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessLog_Output>
<Option>WFGetProcessLog</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ResultList>
<Result>
<NumberExpired>0</NumberExpired>
<NumberProcessed>0</NumberProcessed>
<NumberEnteredinActivity>2</NumberEnteredinActivity>
<MinDate>2007-07-13 00:00:00.0</MinDate>
<MaxDate>2007-07-13 00:00:00.0</MaxDate>
<Unit>194</Unit>
</Result>
<Result>
<NumberExpired>0</NumberExpired>
<NumberProcessed>1</NumberProcessed>
<NumberEnteredinActivity>0</NumberEnteredinActivity>
<MinDate>2007-07-16 00:00:00.0</MinDate>
<MaxDate>2007-07-16 00:00:00.0</MaxDate>
<Unit>197</Unit>
</Result>
</ResultList>
</WFGetProcessLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.

Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, incase the Report Type is specified as D.However, incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input
NumberIntroduced	Result	No. of workitem that were introduced in the process during the specified date range.
NumberCompleted	Result	No. of workitem that were completed in the process during the specified date range.
NumberTerminated	Result	No. of workitem that were terminated in the process during the specified date range.
NumberAborted	Result	No. of workitem that were aborted in the process during the specified date range.
NumberProcessed	Result	No. of workitem that were processed in the process during the specified date range.
NumberExpired	Result	No. of workitem that expired in the process during the specified date range.
NumberEnteredinActivity	Result	No. of workitem that entered the specified activity in the process during the specified date range.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	The requested filter is invalid
400	WF_OPERATION_FAILED	Operation failed

WFGetQueueLoadHistory

This API fetches the history of Queue Load for a specified Queue, during a specified date range. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFGetQueueLoadHistory_Input>
<Option>WFGetQueueLoadHistory</Option>
<EngineName>ofcab</EngineName>
<SessionId>-1387118679</SessionId>
<QueueId>4</QueueId>
<ReportType>M</ReportType>
<DateRange>
<From>2006-10-02</From>
<To>2007-01-01</To>
</DateRange>
</WFGetQueueLoadHistory_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetQueueLoadHistory
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged in user's session id	NA
QueueId	Root	Yes	ID of the process for which history details are to be fetched.	NA
From	DateRange	No	From Date part of the Date range for which the Load History is to be fetched.	NA
To	DateRange	No	To Date part of the Date range for which the Load History is to be fetched.	NA

ReportType	Root	No	Interval specified for the report.	H - Hourly D - Daily W - Weekly M - Monthly Y – Yearly
Duration	Root	No	From and To Date is calculated based on Duration Type	H - Hourly D - Daily W - Weekly M - Monthly Y – Yearly

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version=1.0?>
<WFGetQueueLoadHistory_Output>
<Option>WFGetQueueLoadHistory</Option>
<Total></Total>
<ResultList>
<Result>
<MinDate></MinDate>
<MaxDate></MaxDate>
<Unit></Unit>
<Processed></Processed>
<ActiveUsers></ActiveUsers>
<Terminated></Terminated>
<Aborted></Aborted>
<Expired></Expired>
<New></New>
</Result>
```

```
</ResultList>
</WFGetQueueLoadHistory_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.
Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, incase the Report Type is specified as D.However, incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input
Processed	Result	Number of workitems processed during the specified Date Range.
ActiveUsers	Result	Number of Users Active during each interval of the specified Date Range.
Terminated	Result	Number of Workitem Terminated during each interval of the specified Date Range.
Aborted	Result	Number of Workitem Aborted during each interval of the specified Date Range.
Expired	Result	Number of Workitem Expired during each interval of the specified Date Range.
New	Result	Number of Workitem Created during each interval of the specified Date Range.
Total	Result	Total result items returned corresponding to the Date Range and the Report Type.

If OAuth is enabled

Parameter	Parent tag	Description

AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	The requested filter is invalid
400	WF_OPERATION_FAILED	Operation failed

WFGetTempQueueAssignmentReport

This API is used to get the Report of all Users that have been temporarily assigned to Queue(s) for a specified Date Range. If however, the From part of the Date Range is not specified then it gets the report of all the Temporary assignments that have been set in the system until the specified To Date. If however, the To Date is also not specified, then it fetches the report for all the Temporary Assignments that have been set till Current date.

Also if the Queue Id is not specified, then it fetches the list of all User Temporary Assignments in all Queues in the system. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetTempQueueAssignmentReport_Input>
<Option>WFGetTempQueueAssignmentReport</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
<DateRange>
<From>2007-03-22</From>
<To></To>
</DateRange>
</WFGetTempQueueAssignmentReport_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value

Option	Root	Yes	It refers to the case-sensitive call name.	WFGetTempQueueAssignmentReport
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
QueueId	Root	No	ID of he Queue for which the list of Temporary Assignments are to be fetched.	NA
From	DateRange	No	It is the date from which the report has to be generated.	NA
To	DateRange	No	It is the date till which the report is generated.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetTempQueueAssignmentReport_Output>
<Option>WFGetTempQueueAssignmentReport</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ResultList>
<Result>
<QueueId></QueueId>
<UserId></UserId>
<QueueName></QueueName>
<UserName></UserName>
<AssignedTillDateTime></AssignedTillDateTime>
</Result>
</ResultList>
</WFGetTempQueueAssignmentReport_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
QueueId	Result	It is the queue id for which the users are temporarily assigned.
UserId	Result	ID of the User who is temporarily assigned.
QueueName	Result	Name of the Queue for which the User is Temporarily Assigned.
UserName	Result	Name of the User who is temporarily assigned.
AssignedTillDateTime	Result	Date Time till which the User is Temporarily assigned to the Queue.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Invalid filter
400	WF_OPERATION_FAILED	Operation failed

WFGetUserDiversionReport

This API is used to get the Report of all diversions set for a specified Date Range. If however, the From part of the Date Range is not specified then it gets the report of all the Diversions that have been set in the system until the specified To Date. If however, the To Date is also not specified, then it fetches the report for all the Diversions that have been set till Current date. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetUserDiversionReport_Input>
<Option>WFGetUserDiversionReport</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
<DateRange>
<From>2007-03-22</From>
<To></To>
</DateRange>
</WFGetUserDiversionReport_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetUserDiversionReport
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
From	DateRange	No	It is the date from which the report has to be generated.	NA
To	DateRange	No	It is the date till which the report is generated.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetUserDiversionReport_Output>
<Option>WFGetUserDiversionReport</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ResultList>
<Result>
<FromDate>2007-03-23 00:00:00.0</FromDate>
<ToDate>2007-03-29 23:23:59.0</ToDate>
<DivertedUserIndex>3</DivertedUserIndex>
<AssignedUserIndex>2</AssignedUserIndex>
<DivertedUserName>DataEntryOperator</DivertedUserName>
<AssignedUserName>Japneet</AssignedUserName>
</Result>
</ResultList>
</WFGetUserDiversionReport_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
FromDate	Result	From Date for the set Diversion.
ToDate	Result	Date till which the diversion is set.
DivertedUserIndex	Result	ID of the User for whom the Diversion is set.

AssignedUserIndex	Result	ID of the User to whom the workitems will be diverted during the date range.
DivertedUserName	Result	Name of the User for whom the Diversion is set.
AssignedUserName	Result	Name of the User to whom the workitems will be diverted during the date range.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more records
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Invalid filter
400	WF_OPERATION_FAILED	Operation failed

WFGetUserPerformanceLog

This API is used to fetch the details about the performance of a specified user/group in terms of the no. if workitems processed by him, on an Activity in a Process, during a specified date range. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetUserPerformanceLog_Input>
<Option>WFGetUserPerformanceLog</Option>
<EngineName>ibps6sept</EngineName>
<SessionId>-1659787712</SessionId>
<ProcessDefinitionId>21</ProcessDefinitionId>
<ActivityId>2</ActivityId>
<DateRange>
<From>2017-01-28</From>
<To>2017-11-6  12:23</To>
</DateRange>
<ReportType>W</ReportType>
```

```
<UserList>
<UserInfo>
<UserGroupId>6</UserGroupId>
</UserInfo>
</UserList>
<UserGroupFlag>U</UserGroupFlag>
</WFGetUserPerformanceLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetUserPerformanceLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Root	Yes	ID of the Process for which the delay details are to be fetched.	NA
ActivityId	Root	Yes	ID of the Activity on which the User's Performance details are to be fetched.	NA
From	DateRange	No	It is the date from which the details are to be fetched.	NA
To	DateRange	No	It is the date till which the details are to be fetched.	NA
ReportType	Root	No	It is the report type. It can be daily, weekly, monthly or quaterly.	D - Daily W – Weekly M – Monthly Q – Quarterly
Duration	Root	No	This flag indicates the period for which the report to be fetched. This is indicated by	D – Report of the last day T – Report of today W – Report of last day M – Report of last month Q – Report of last quarter

			the single Upper case character.	Y – Report of last year
UserGroupFlag	Root	Yes	Flag indicating whether the specified user in the UserGroupId Tag is a User or a Group.	U – User G – Group
UserGroupId	UserInfo	No	ID of the User/Group whose performance details are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetUserPerformanceLog_Output>
<Option>WFGetUserPerformanceLog</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<From>2017-01-28</From>
<To>2017-11-6  12:23</To>
<ResultList>
<Result>
<Unit>37</Unit>
<MinDate>2017-09-10 00:00:00.0</MinDate>
<MaxDate>2017-09-16 00:00:00.0</MaxDate>
<UserInfo>
```

```
<Username>pgaur</Username>
<UserId>6</UserId>
<WorkitemsProcessed>1</WorkitemsProcessed>
<AverageTimeTaken>2.0</AverageTimeTaken>
</UserInfo>
</Result>
</ResultList>
</WFGetUserPerformanceLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.
Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, in case the Report Type is specified as D. However, in case it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input.
UserId	UserInfo	ID of the User whose performance details are being fetched.
UserName	UserInfo	Name of the User whose Performance details are being fetched.
WorkitemsProcessed	UserInfo	No. of workitems processed by the user during the specified date range.
AverageTimeTaken	UserInfo	Average Time taken by the user to process those many workitems during the specified date range.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation Failed
18	WM_NO_MORE_DATA	No More Data
15	WM_INVALID_FILTER	Invalid Filter

WFGetWorkAuditHistory

This API fetches the Audit History for a specified User, for whom a work audit may have been set. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetWorkAuditHistory_Input>
<Option>WFGetWorkAuditHistory</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
<UserId>3</UserId>
</WFGetWorkAuditHistory_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value

Option	Root	Yes	It refers to the case-sensitive call name.	WFGetWorkAuditHistory
EngineName	Root	No	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
UserId	Root	Yes	ID of the User whose Work-Audit History is to be fetched.	NA
LastValue	Root	No	Information required for Batching.It contains Date time after which work Audit history is to be fetched.	NA
SortOrder	Root	No	Information required for Batching.This is the sorting order	A- Ascending D- Descending
NoOfRecordsToFetch	Root	No	Information required for Batching and it refers to batch size	NA
LogId	Root	No	Information required for Batching and it refers to LogId after which work audit history is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version=1.0?>
<WFGetWorkAuditHistory_Output>
<Option>WFGetWorkAuditHistory</Option>
<ResultList>
<Result>
<RegistrationNumber></RegistrationNumber>
<WorkItemId></WorkItemId>
<ProcessName></ProcessName>
<ActivityName></ActivityName>
<AuditorName></AuditorName>
<AuditStatus></AuditStatus>
<ActionDatetime>
</ActionDateTime>
</Result>
</ResultList>
</WFGetWorkAuditHistory_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessName	Result	Name of the Process whose workitems have been audited.
ActivityName	Result	Name of the Activity on which the workitems have been audited.
AuditorName	Result	Name of the User who has audited the workitems.
AuditStatus	Result	Audit Status of the Work-Audit done on the workitem: Accept, Reject, Set
ActionDatetime	Result	Date-Time at which the Audit was done.
RegistrationNumber	Result	Process Instance ID of the Workitem which was Audited.
WorkItemID	Result	Workitem ID of the Workitem which was Audited.
TotalCount	Root	Information returned for Batching. Refers to total count of audit work history.

RetrievedCount	Root	Information returned for Batching. Refers to retrieved count of audit work history

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No More Data
400	WF_OPERATION_FAILED	Operation Failed
15	INVALID_FILTER	Invalid filter
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFGetWorkItemExceptionLog

This API is used to get the Exception History for a specified Exception, during a specified date range. You may use this API to fetch the Exception History for all the Exceptions also. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetWorkItemExceptionLog_Input>
<Option>WFGetWorkItemExceptionLog</Option>
<EngineName>ofcab</EngineName>
<SessionId>1750281704</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<ExceptionId>1</ExceptionId>
<DateRange>
<From>2007-02-01</From>
<To>2007-03-22  12:29</To>
</DateRange>
<ReportType>D</ReportType>
</WFGetWorkItemExceptionLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetWorkItemExceptionLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID whose Activity Instances are to be fetched.	NA
ExceptionId	Root	No	ID of the Exception for which the History is to be fetched.	NA
From	DateRange	No	ID of the specific Activity for which the Turn Around Time data is to be fetched.	NA
To	DateRange	No	Flag indicating whether the total count of Activity Instances matching the specified criteria is to be returned.	Y -- Yes N -- No
ReportType	Root	No	Interval of the report	D - Daily W - Weekly M - Monthly Y - Yearly
Duration	Root	No	Turn around time of process.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetWorkItemExceptionLog_Output>
<Option>WFGetWorkItemExceptionLog</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ResultList>
<Result>
<Unit>52</Unit>
<MinDate>2007-02-21 00:00:00.0</MinDate>
<MaxDate>2007-02-21 00:00:00.0</MaxDate>
<Id>1</Id>
<NoofExceptionRaised>1</NoofExceptionRaised>
</Result>
<Result>
<Unit>80</Unit>
<MinDate>2007-03-21 00:00:00.0</MinDate>
<MaxDate>2007-03-21 00:00:00.0</MaxDate>
<Id>1</Id>
<NoofExceptionRaised>1</NoofExceptionRaised>
</Result>
</ResultList>
</WFGetWorkItemExceptionLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.
Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, incase the Report Type is specified as D. However, incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input.
Id	Result	ID of the exception for which the history is fetched.
NoofExceptionRaised	Result	No. of exceptions raised for the specified exception.
AverageDelay	Result	Average Delay in hours during the date range.
From	DateRange	From Date part for the Date Range from which the report data is to be fetched.
To	DateRange	To Date part for the Date Range until which the report data is to be fetched.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed.
15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	No more records.

WFParticipantReport

This API is used to fetch Participant Details for all the Users who have participated in processing the workitems belonging to a specified Process, giving details about the Avg. Processing Time Taken By each User on Each Workstep, along with the Avg. Duration for which the workitems were on the worksteps. You can filter the Participant Details by specifying a specific Activity or a User. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFParticipantReport
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Root	Yes	ID of the Process whose Participant Details are to be fetched.	NA
ActivityId	Root	No	ID of the Activity in the Process for which the Participant Details are to be fetched. If this is not specified, then the system will fetch the Participant details for the entire Process.	NA
UserId	Root	No	ID of the User whose specific Participation Details are to be fetched.	NA
From	Root	No	From Date part of the Date Range during which the	NA

			Participant Details are to be fetched.	
To	Root	No	To Date part of the Date Range during which the Participant Details are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
WorkstepName	ProcessingTime	Name of the Activity in the specified Process.
WorkstepId	ProcessingTime	ID of the Activity in the specified Process.
UserID	ActivityProcessingTimes	ID of the User who processed the workitems on the Activity.

Username	ActivityProcessingTimes	Name of the User who processed the workitems on the Activity.
NoOfWorkitems	ActivityProcessingTimes	No. of workitems processed by the User.
AverageTime	ActivityProcessingTimes	Average Time (mins) in taken to process those workitems by the User.
AverageDuration	ActivityProcessingTimes	Average Duration (mins) for which the workitems were there on the Activity.
CountActivity	Root	Count of Activity(s) returned.
CountUser	Root	Count of User(s) returned.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	Invalid filter
400	WF_OPERATION_FAILED	Operation failed

Input XML:

```
<?xml version="1.0"?>
<WFParticipantReport_Input>
<Option>WFParticipantReport</Option>
<Option>WFParticipantReport</Option>
<EngineName>ofcab</EngineName>
<SessionId>1601559629</SessionId>
<ProcessDefinitionID>1</ProcessDefinitionID>
<ActivityId>1</ActivityId>
```

```
<DateRange>
<From>2007-02-22</From>
<To>2007-03-22 12:26</To>
</DateRange>
</WFParticipantReport_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WFParticipantReport_Output>
<Option>WFParticipantReport</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ProcessingTimes>
<ProcessingTime>
<WorkStepId>1</WorkStepId>
<WorkStepName>Scanning</WorkStepName>
<ActivityProcessingTimes>
<ActivityProcessingTime>
<UserId>1</UserId>
<UserName>Supervisor</UserName>
<NoOfWorkItems>2</NoOfWorkItems>
<AverageTime>678</AverageTime>
<AverageDuration>2416179</AverageDuration>
</ActivityProcessingTime>
<ActivityProcessingTime>
<UserId>2</UserId>
<UserName>Japneet</UserName>
<NoOfWorkItems>1</NoOfWorkItems>
<AverageTime>1981</AverageTime>
<AverageDuration>422678</AverageDuration>
</ActivityProcessingTime>
</ActivityProcessingTimes>
</ProcessingTime>
<CountActivity>1</CountActivity>
<CountUser>2</CountUser>
</ProcessingTimes>
</WFParticipantReport_Output>
```

WFProcessingtimeReport

This API fetches details of the Average Processing Time Taken to Process workitems in each of the Processes in the Cabinet. It also gives details of the Average Processing Time Taken on each of the worksteps included in the Processes. You can also filter on a specific Process to get details corresponding to the specified process.

You can view the XML input and output parameters, which have to be passed to the API.

There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFProcessingtimeReport_Input>
<Option>WFProcessingtimeReport</Option>
<Option>WFProcessingtimeReport</Option>
<EngineName>ofcab</EngineName>
<SessionId>1601559629</SessionId>
<ProcessDefinitionID>1</ProcessDefinitionID>
<DateRange>
<From>2007-02-22</From>
<To>2007-03-22  12:25</To>
</DateRange>
</WFProcessingtimeReport_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFProcessingtimeReport
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Root	No	ID of the specific Process for which the details are to be fetched. If however, this Tag is not specified then the system fetches the details for all the processes in the cabinet.	NA
From	Root	No	From Date part of the Date Range for which the details are to be fetched.	NA
To	Root	No	To Date part of the Date Range for which the details are to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0">
<WFProcessingtimeReport_Output>
<Option>WFProcessingtimeReport</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<CountProcess ></CountProcess>
<CountUser></CountUser>
<ProcessingTimes>
<ProcessingTime>
<Processdefid></Processdefid>
<AverageTime></AverageTime>
<AverageDuration></AverageDuration>
<ProcessName></ProcessName>
<ActivityProcessingTimes>
<ActivityName></ActivityName>
<AverageTime></AverageTime>
<AverageDuration></AverageDuration>
</ActivityProcessingTimes>
</ProcessingTime>
</ProcessingTimes>
</WFProcessingtimeReport_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

Processdefid	ProcessingTime	ID of the Process for which the details are being fetched.
ProcessName	ProcessingTime	Name of the Process for which the details are being fetched.
NoOfWorkItems	ProcessingTime	No. of workitems Processed in the Process during the specified Date Range.
AverageTime	ProcessingTime	Average Time Taken to process the workitems in the Process during the Date Range.
AverageDuration	Processing Time	Average Duration for which the workitems were flowing in the Process.
ActivityName	ActivityProcessingTimes	Name of the Activity in the Process.
NoOfWorkItems	ActivityProcessingTimes	No. of workitems Processed on the Activity during the specified Date Range.
AverageTime	ActivityProcessingTimes	Average Time taken to process these workitems on the Activity during the Date Range.
AverageDuration	ActivityProcessingTimes	It is the average duration taken for the entire process.
CountProcess	Root	Count of Process(es) returned.
CountUser	Root	Count of User(s) returned.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA	No more records
15	WM_INVALID_FILTER	Invalid Filter
400	WF_OPERATION_FAILED	Operation failed

WFGetProcessTurnAroundLog

This API is used to fetch the average Turn-Around-Times (TAT) for a specified Process, and its activities. You can view the XML input and output parameters, for this API.

There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFGetProcessTurnAroundLog_Input>
<Option>WFGetProcessTurnAroundLog</Option>
<EngineName>ofcab</EngineName>
<SessionId>-853281401</SessionId>
<ProcessDefinitionId>1</ProcessDefinitionId>
<DateRange>
<From>2006-06-06</From>
<To>2007-07-07</To>
</DateRange>
<ReportType>D</ReportType>
</WFGetProcessTurnAroundLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetProcessTurnAroundLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessDefinitionID	Root	Yes	Process Instance ID whose Activity Instances are to be fetched.	NA
ActivityId	Root	No	ID of the specific Activity for which the Turn Around Time data is to be fetched.	NA

From	DateRange	No	ID of the specific Activity for which the Turn Around Time data is to be fetched.	NA
To	DateRange	No	Flag indicating whether the total count of Activity Instances matching the specified criteria is to be returned.	Y -- Yes N -- No
ReportType	Root	No	Interval of the report	D - Daily W - Weekly M - Monthly Y - Yearly
Duration	Root	No	Turn around time of process.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetProcessTurnAroundLog_Output>
<Option>WFGetProcessTurnAroundLog</Option>
<Exception>
```

```
<MainCode>0</MainCode>
</Exception>
<ResultList>
<Result>
<Unit>142</Unit>
<MinDate>2007-05-22 00:00:00.0</MinDate>
<MaxDate>2007-05-22 00:00:00.0</MaxDate>
<Activity>
<ID>1</ID>
<Name>Scanning</Name>
<TurnaroundTime>14.0</TurnaroundTime>
</Activity>
</Result>
</ResultList>
<ProcessResultList></ProcessResultList>
</WFGetProcessTurnAroundLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
MinDate	Result	The lower date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week starts.
MaxDate	Result	The higher date in the Date Range for which the data is being returned, based on the Report Type specified. For example, if the report type is selected as W, then this tag specifies the date when the week end.
Unit	Result	This is the no. of days in the year, starting from the beginning of the year to the date indicated in MinDate, incase the Report Type is specified as D. However, incase it is W, then this tag indicates the no. of weeks starting from the beginning of the year to the date indicated in MinDate, and so on. Hence, the value in this Tag is dependent on the Report Type specified in the input.
TurnaroundTime	Result	Average completion time for any workitem in the Process
TurnaroundTime	Activity	Average completion time for any workitem on the specified activity in the Process.
ID	Activity	It is the index of the activity.
Name	Activity	It is the name of the activity.
From	DateRange	From Date part for the Date Range from which the report data is to be fetched.
To	DateRange	To Date part for the Date Range until which the report data is to be fetched.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation Failed
15	WM_INVALID_FILTER	The requested filter is invalid.
18	WM_NO_MORE_DATA	No more records.

Miscellaneous Calls

This section includes the description of the following calls:

WFAddToMailQueue	This API is used to add details of the mail to be sent out of the NewgenONE system
WFGenerateLog	This API is used to log a specified Action/Operation in the Audit Trail Tables of NewgenONE.
WFGetIdforName	This API returns the ID of an Object, of a specified Type, whose name is specified in the input.
WFGetResponseFile	This API is used to fetch the Generate Response word file from the database.
WFPickList	This API is used to fetch the Pick-List for any Data Field.
WFPurgeLog	This API is used to purge/delete the log for all actions on a specified Activity in a specified process until a specified Date.
WFGetActionList	This API fetches a List of all the Actions that have been Enabled/ Disabled for Audit Log Configuration.
WFSetActionList	This API is used to set the Audit-Log configurations for the Cabinet.
WFGetSystemProperties	This API is used to fetch system properties.
WFSetSystemProperties	This API is used to set system properties.
WMPostConnect	If there is a successful call to NGOConnectCabinet (Value of Status Tag returned from NGOConnectCabinet is 0) from OAConnect, a new API WMPostConnect shall be called.

WMPostDisConnect	WMPostDisconnect shall be followed by OA_DisConnect. It accepts sessionId which has to be disconnected.
WFGetBRTConfiguration	This API is used to fetch BRT Configuration details.
WFUpdateBRTConfiguration	This API is used to update BRT Configuration details.

WFAddToMailQueue

The WFAddToMailQueue API allows you add details of the mail to be sent out of the NewgenONE system. It simply adds the details specified in the Mail Queue, from which the Mailing Agent sends the mails out of the system. You can view the XML input and output parameters, for the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFAddToMailQueue_Input>
<Option>WFAddToMailQueue</Option>
<EngineName>ofcab</EngineName>
<SessionId>438222027</SessionId>
<ProcessDefId>9</ProcessDefId>
<ActivityId>1</ActivityId>
<ProcessInstanceId>AM-0000000003-Process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<MailFrom>a@a.com</MailFrom>
<MailTo>a@a.com</MailTo>
<MailCC>a@a.com</MailCC>
<MailSubject>URGENT</MailSubject>
<MailMessage>Please check</MailMessage>
</WFAddToMailQueue_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFAddToMailQueue
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id.	NA
MailFrom	Root	No	Valid Email Address of the User from whom the mail is to be sent.	NA
MailTo	Root	No	Valid Email Address of the User from whom the mail is to be sent.	NA
MailCC	Root	No	Valid Email Address of the User from whom the mail CC is to be sent.	NA
MailSubject	Root	No	Subject of the Mail	NA
MailMessage	Root	No	Message Text/ Body of the Mail Message.	NA
AttachmentISIndex	Root	No	In case any document attachment is to be sent along with the mail, then you are supposed to first add the document to the Image Server, and then specify the ISIndex of the document in this Tag.	NA

AttachmentNames	Root	No	Name of the Document Attachment to be sent.	NA
AttachmentExts	Root	No	Extension/Doc Type of the Document to be attached with the mail, like doc, xls, and more.	NA
ContentType	Root	No	Content type supported by JavaMail API	For an example "text/html"
Priority	Root	No	Priority of mails.	High – 1 Low – 5 Medium – 3
ZipFlag	Root	No	Flag to show if mail have file zipped for the files from temp location.	Y – Yes N - No
ZipName	Root	No	User defined name for zip file to be attached for the files from temp location.	NA
MaxZipSize	Root	No	Maximum zip file size in MB to be attached, if zip file size exceeds then no attachment will be added. 0 will be use as no limit on the attachment.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFAddToMailQueue_Output>
<Option>WFAddToMailQueue</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFAddToMailQueue_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant Value	Message
300	WF_NO AUTHORIZATION	No Authorization
400	Wf_OPERATION_FAILED	Operation Failed

11	WM_INVALID_SESSION_HANDLE	Invalid session

WFGenerateLog

This API is used to log a specified Action/Operation in the Audit Trail Tables of NewgenONE. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version=1.0?>
<WFGenerateLog_Input>
<Option>WFGenerateLog</Option>
<EngineName>ofcab</EngineName>
<SessionId>-2084691299</SessionId>
<FieldID></FieldID>
<ActionID></ActionID>
<ProcessInstanceID></ProcessInstanceID>
<WorkItemID></WorkItemID>
<ProcessDefID></ProcessDefID>
<ActivityID></ActivityID>
<FieldName></FieldName>
</WFGenerateLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGenerateLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ActionID	Root	Yes	ID of the Action Event to be logged-in the Audit Trail.	NA
FieldID	Root	No	This is used to store ID of the object for which you are logging the activity. This can be UserID, QueueID, To DO Item ID, and more.	NA

FieldName	Root	No	This is a general Remarks field, which can hold any data specified related to the action/operation. Generally it contains the name of the object whose ID may have been specified in the FieldID Tag.	NA
ProcessInstanceID	Root	No	Process Instance ID of the workitem for which the action is being logged.	NA
WorkItemID	Root	No	ID of the workitem for which the action is being logged.	NA
ProcessDefId	Root	No	ID of the Process for which the action is being logged.	NA
ActivityID	Root	No	ID of the activity on which the action being logged is being performed.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGenerateLog_Output>
<Option>WFGenerateLog</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFGenerateLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid filter
15	WM_INVALID_FILTER	The requested filter is invalid.

WFGetIdforName

This API returns the ID of an Object, of a specified Type, whose name is specified in the input. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetIdforName_Input>
<Option>WFGetIdforName</Option>
<EngineName>ofcab</EngineName>
<SessionId>1338058054</SessionId>
<ObjectType>Q</ObjectType>
<ObjectName>AccOpening_Scanning</ObjectName>
<ProcessDefID>1</ProcessDefID>
</WFGetIdforName_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetIdforName

EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ObjectType	Root	Yes	Type of the Object, whose Name is specified.	Q - For Queue A - For Activity
ObjectName	Root	Yes	Name of the object whose ID is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetIdforName_Output>
<Option>WFGetIdforName</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<QueueId>1</QueueId>
</WFGetIdforName_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
QueueId	Root	ID of the Queue (in case Object Type was specified as Q).
ObjectID	Root	ID of the Activity (in case Object Type was specified as A.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
15	WM_INVALID_FILTER	The requested filter is invalid.
400	WF_OPERATION_FAILED	Operation failed

WFGetResponseFile

This API is used to fetch the Generate Response word file from the database. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetResponseFile_Input>
<Option>WFGetResponseFile</Option>
<EngineName>ofcab</EngineName>
<SessionId>1858448899</SessionId>
<TemplateFileName>dsg.doc</TemplateFileName>
<ProcessDefId>9</ProcessDefId>
</WFGetResponseFile_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetResponseFile
EngineName	Root	Yes	This is the Name of the cabinet	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
TemplateFileName	Root	No	Name of the word Template file to be fetched.	NA
ProcessDefId	Root	No	ID of the Process for which the template file is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetResponseFile_Output>
<Option>WFGetResponseFile</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<FileLength>94209</FileLength>
<FileBuffer></FileBuffer>
</WFGetResponseFile_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
FileLength	Root	The length of the Template File buffer being returned.
FileBuffer	Root	The file buffer of the Template in zipped mode.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation failed

WFPickList

This API is used to fetch the Pick-List for any Data Field. The Pick List are often populated in the 'Advance Search' interfaces, displaying a list of values that have been set for the specific Data field in past transactions. You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFPickList_Input>
<Option>WFPickList</Option>
<EngineName>DEC12</EngineName>
<SessionId>-1627146078</SessionId>
<ProcessDefID>10</ProcessDefID>
<QueueID></QueueID>
<Attribute>APPNAME</Attribute>
<NoOfRecordsToFetch></NoOfRecordsToFetch>
<SortOrder></SortOrder>
<LastValue></LastValue>
<Prefix>a*</Prefix>
</WFPickList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFPickList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefID	Root	Yes	ID of the Process that contains the variable, for which the pick-list is to be fetched.	NA
QueueID	Root	No	ID of the Queue, that contains the Alias variable, for which the pick-list is to be fetched.	NA
NoOfRecordsToFetch	Root	No	The no. of records to fetch per batch.	NA
SortOrder	Root	No	Order in which the Data Values in the pick-list are to be sorted.	A – Ascending D – Descending
LastValue	Root	No	Last Value fetched in the pervious batch.	NA
Prefix	Root	No	Prefix string indicating to the system to fetch only those values that start with the specified string.	NA
Attribute *	Root	Yes	Name of the Data Attribute for which the Pick-List of values is to be fetched.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFPickList_Output>
<Option>WFPickList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<TotalCount>2</TotalCount>
<Values>
<Value>abc67</Value>
<Value>axh86</Value>
</Values>
</WFPickList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI
Value	Values	The Value of the Attribute returned in the pick-list.
TotalCount	Root	It is the total count of the values returned in the pick-list.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
7	WM_INVALID_ATTRIBUTE	The attribute was not valid.
18	WM_NO_MORE_DATA	No more records.
400	WF_OPERATION_FAILED	The requested operation failed.
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFPurgeLog

This API is used to purge/delete the log for all actions on a specified Activity in a specified process until a specified Date

You can view the XML input and output parameters, for this API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0">
<WFPurgeLog_Input>
<Option>WFPurgeLog</Option>
<EngineName>ofcab</EngineName>
<SessionId>-2084691299</SessionId>
<ProcessDefId>5</ProcessDefId>
<ActivityId>1</ActivityId>
<DeleteDate>2007-07-06</DeleteDate>
</WFPurgeLog_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFPurgeLog
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ProcessDefinitionID	Root	Yes	ID of the Process for which the Log is to be purged/deleted.	NA
ActivityId	Root	No	ID of the activity for which the log is to be purged/deleted.	NA
DeleteDate	Root	Yes	Date-Time till when the log is to be purged. The system will delete all entries for all actions performed for the specified activity/process until the specified date.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFPurgeLog_Output>
<Option>WFPurgeLog</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFPurgeLog_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
811	WFS_INV_PRM	Invalid Parameters.
15	WM_INVALID_FILTER	The requested filter is invalid.
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	Operation failed

WFGetActionList

This API fetches a List of all the Actions that have been Enabled/Disabled for Audit Log Configuration. It also fetches the list of all the Attributes for a specified Process, whose value setting actions have been Enabled/Disabled. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetActionList_Input>
<Option>WFGetActionList</Option>
<SessionId>-1416172501</SessionId>
<EngineName>ibpsjune29sql</EngineName>
<OptionFlag>C</OptionFlag>
<AdminActionFlag>Y</AdminActionFlag>
<ProcessDefId>1</ProcessDefId>
<VariantId>1</VariantId>
</WFGetActionList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetActionList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
OptionFlag	Root	Yes	Flag indicating as to whether to fetch the list of Actions for the cabinet, or to fetch the list of Variables, whose setting actions have been enabled/disabled for logging, for the specified Process.	C – Fetch the List of Actions defined for the Cabinet. P – Fetch a list of Variables whose setting actions have been Enabled/ Disabled. B – Fetch both the above information.
AdminActionFlag	Root	No	Flag indicating action ids related to admin must be shown or not.	Y or N
ProcessDefId	Root	No	ID of the specific process for which the Variables list is to be fetched. This tag has significance only if the OptionFlag is specified as P or B.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetActionList_Output>
<Option>WFGetActionList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Actions>
<Enabled>
<Action>
<Id>22</Id>
<Name>Action Executed</Name>
</Action>
<Action>
<Id>66</Id>
<Name>Add Alias To Queue</Name>
</Action>
<Action>
<Id>64</Id>
<Name>Add Prefered Queue</Name>
</Action>
<Action>
<Id>713</Id>
<Name>task was approved by</Name>
</Action>
<Action>
<Id>711</Id>
<Name>task was escalated on</Name>
</Action>
<Action>
<Id>710</Id>
<Name>task was expired on</Name>
</Action>
<Action>
<Id>709</Id>
```

```
<Name>task was reassigned by</Name>
</Action>
<Action>
<Id>714</Id>
<Name>task was rejected by</Name>
</Action>
<Action>
<Id>712</Id>
<Name>task was unlocked by</Name>
</Action>
<Action>
<Id>33</Id>
<Name>workitem Accepted</Name>
</Action>
</Enabled>
<Disabled></Disabled>
</Actions>
</WFGetActionList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Name	Action	It specifies the Name of the action which is disabled or enabled.
Id	Action	It specifies the ID of the action which is disabled or enabled.
Name	Attribute	Name of the Variable.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Ccode	Constant value	Message
18	WM_NO_MORE_DATA	No more records
15	WM_INVALID_FILTER	The requested filter is invalid.
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation failed.

WFSetActionList

This API is used to set the Audit-Log configurations for the Cabinet. You can specify what all Actions are to be Enabled or Disabled, along with value setting Actions of what all variables is to be disabled for what process. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetActionList_Input>
<Option>WFSetActionList</Option>
<SessionId>2002069121</SessionId>
<EngineName>arabic3</EngineName>
<ActionComments>C</ActionComments>
<EnabledList>Y</EnabledList>
<DisabledList>1</DisabledList>
<ProcessDefId>1</ProcessDefId>
<EnabledVarList>1</EnabledVarList>
<VariantId>1</VariantId>
</WFSetActionList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMSetActionList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ActionComments	Root	No	It refers to the user comments before action performs.	NA
EnabledList	Root	No	Comma separated list of Action IDs that need to be enabled.	NA
DisabledList	Root	No	Comma separated list of Action IDs that need to be disabled.	NA
ProcessDefId	Root	No	ID of the Process for which the Variable value setting action is to be enabled.	NA

VariantId	Root	No	It refers to variant id for which the variable list is to be fetched.	NA
EnabledVarList	Root	No	Comma separated list of variables whose value setting action is to be logged.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetActionList_Output>
<Option>WFSetActionList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFSetActionList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Item	ActionList	Item from the list of action.
Value	Item	Value of action that is enabled or disabled.
ActionId	Item	ID of the action.

Item	ProcessVarList	Item from the list of process variables.
Value	Item	Value of process variable that is enabled or disabled.
ActionId	Item	ID of the process variable.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.
15	801	WM_INVALID_FILTER	Filter specified is invalid.
400	--	WF_OPERATION_FAILED	Operation Failed.

WFGetSystemProperties

This API is used to fetch system properties.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

When FetchAllProperties = 'N

```
<?xml version="1.0"?>
<WFGetSystemProperties_Input>
<Option>WFGetSystemProperties</Option>
<EngineName>sourcetestcab</EngineName>
<FetchAllProperties>N</FetchAllProperties>
<SessionId>666926481</SessionId>
<PropertyName>systememailid</PropertyName>
</WFGetSystemProperties_Input>
```

When FetchAllProperties = 'Y'

```
<?xml version="1.0"?>
<WFGetSystemProperties_Input>
<Option>WFGetSystemProperties</Option>
<EngineName>sourcetestcab</EngineName>
<FetchAllProperties>Y</FetchAllProperties>
<SessionId>666926481</SessionId>
</WFGetSystemProperties_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetSystemProperties
EngineName	Root	Yes	This is the Name of the cabinet.	NA
FetchAllProperties	Root	Yes	It refers to flag to indicate whether all properties need to be fetched at once or not.	Y or N
SessionID	Root	Yes	It is the logged-in user's session id.	NA
PropertyName	Root	No	It refers to name of the property.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

When FetchAllProperties = 'N'

```
<?xml version="1.0"?>
<WFGetSystemProperties_Output>
<Option>WFGetSystemProperties</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<SystemProperty>
<PropertyName>SYSTEMEMAILID</PropertyName>
<PropertyValue>sysemailid@gmail.com</PropertyValue>
</SystemProperty>
</WFGetSystemProperties_Output>
```

When FetchAllProperties = 'Y'

```
<?xml version="1.0"?>
<WFGetSystemProperties_Output>
<Option>WFGetSystemProperties</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<SystemProperty>
<PropertyName>SYSTEMEMAILID</PropertyName>
<PropertyValue>mohnish_chopra@gmail.com</PropertyValue>
</SystemProperty>
<SystemProperty>
<PropertyName>CABINETTYPE</PropertyName>
<PropertyValue>ACTIVE</PropertyValue>
</SystemProperty>
<SystemProperty>
<PropertyName>ARCHIVALCABINETNAME</PropertyName>
<PropertyValue>targettestcab</PropertyValue>
</SystemProperty>
<SystemProperty>
<PropertyName>SYSTEMADMINID</PropertyName>
<PropertyValue>admin22@gmail.com</PropertyValue>
</SystemProperty>
</WFGetSystemProperties_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
SystemProperty	Root	It refers to properties of system.
PropertyName	SystemProperty	It refers to the name of the property.
PropertyValue	SystemProperty	It refers to the value of the property.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
18	0	WM_NO_MORE_DATA	No more records.

WFSetSystemProperties

This API is used to set system properties.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFSetSystemProperties_Input>
<Option>WFSetSystemProperties</Option>
<EngineName>sourcetestcab</EngineName>
<SessionId>666926481</SessionId>
<SystemProperty>
<PropertyName>SystemEmailId</PropertyName>
<PropertyValue>sysemailid@gmail.com</PropertyValue>
</SystemProperty>
<SystemProperty>
```

```
<PropertyName>archivalcabinetname</PropertyName>
<PropertyValue>targettestcab</PropertyValue>
</SystemProperty>
</WFSetSystemProperties_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFSetSystemProperties
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
SystemProperty	Root	Yes	It refers to system property to be set.	NA
PropertyName	SystemProperty	Yes	It refers to name of property.	NA
PropertyValue	SystemProperty	Yes	It refers to value of property.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFSetSystemProperties_Output>
<Option>WFSetSystemProperties</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFSetSystemProperties_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	858	WF_INVALID_SYSTEM_PROPERTY_DEFINITION	Operation Failed (System properties for Archival once set cannot be reset).

WMPostConnect

If there is a successful call to NGOConnectCabinet (Value of Status Tag returned from NGOConnectCabinet is 0) from OAConnect, a new API WMPostConnect shall be called.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option*	Root	Yes	It refers to the case-sensitive call name.	WMPostConnect
EngineName*	Root	Yes	This is the Name of the cabinet.	NA
UserDBId *	Root	Yes	It refers to session Id for the user.	Integer (positive or negative).
LoginUserIndex *	Root	Yes	It refers to user Index.	Integer from 1 to n (wher n is positive integer).
Scope*	Root	Yes	It is the scope of the user who is logging in. A user can Log In for either Administration purpose or client related activities.	ADMIN – To login as Administrator. USER – To log in as a general User.
EnableLoadBalance	Root	No	Use to assign workitems to user from queue whenever login.	Y – Assign N – No Assignment

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
CabinetType	Root	It refers to type of Cabinet (Active or Archive).
ArchivalCabinet	Root	It refers to the name of Archival Cabinet of the Active Cabinet where user has logged-in.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	SubCode	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
30	--	WM_POST_CONNECT_FAILED	Post Connect Failed

Input XML:

```
<?xml version="1.0"?>
<WMPostConnect_Input>
<Option>WMPostConnect</Option>
<EngineName>sourcetestcab</EngineName>
<UserDBId>796958494</UserDBId>
<LoginUserIndex>3</LoginUserIndex>
<Scope>ADMIN</Scope>
</WMPostConnect_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMPostConnect_Output>
<Option>WMPostConnect</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<CabinetType>ACTIVE</CabinetType>
```

```
<ArchivalCabinet>targettestcab</ArchivalCabinet>
</WMPostConnect_Output>

WMPostConnect Input XML_Archive (For Cabinet Type as Archive)


<?xml version="1.0"?>
<WMPostConnect_Input>
<Option>WMPostConnect</Option>
<EngineName>targettestcab</EngineName>
<UserDBId>1829569933</UserDBId>
<LoginUserIndex>3</LoginUserIndex>
<Scope>ADMIN</Scope>
</WMPostConnect_Input>

WMPostConnect Output XML_Archive (For Cabinet Type as Archive)


<?xml version="1.0"?>
<WMPostConnect_Output>
<Option>WMPostConnect</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<CabinetType>ARCHIVE</CabinetType>
</WMPostConnect_Output>
```

WMPostDisConnect

WMPostDisconnect shall be followed by OA_DisConnect. It accepts sessionId which has to be disconnected.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Input parameter description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMPostDisConnect
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id	NA
DebugFlag	Root	No	This flag is used to print logs in console.log file.	Y – Write N – Not write

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Output parameter description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	SubCode	Constant value	Message

11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	--	WF_OPERATION_FAILED	Operation Failed.

Input XML:

```
<?xml version="1.0"?>
<WMPostDisConnect_Input>
<Option>WMPostDisConnect</Option>
<EngineName>oftest06dec</EngineName>
<SessionId>-1421928213</SessionId>
</WMPostDisConnect_Input>
```

Output XML:

```
<?xml version="1.0"?>
<WMPostDisConnect_Output>
<Option>WMPostDisConnect</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WMPostDisConnect_Output>
```

WFGetBRTConfiguration

This API is used to get Business Rule configuration registered on NewgenONE server.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFGetBRTConfiguration_Input>
<Option>WFGetBRTConfiguration</Option>
<EngineName>ibpstest19july</EngineName>
<UserDBId>983848091</UserDBId>
<UserId>12</UserId>
</WFGetBRTConfiguration_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMPostDisConnect
EngineName	Root	Yes	This is the Name of the cabinet.	NA
UserDBId	Root	Yes	It refers to session Id for the DMS user.	Integer (positive or negative).
UserId	Root	No	It refers to DMS user Id.	

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetBRTConfiguration_Output>
<Option>WFGetBRTConfiguration</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<NoOFFetchedRecords>1</NoOFFetchedRecords>
<Configurations>
<ConfigInfo>
<ConfigId>1</ConfigId>
<ConfigName>LocalServer</ConfigName>
<HostName>127.0.0.1</HostName>
<HostPort>8080</HostPort>
<HostProtocol>HTTP</HostProtocol>
<UserName>Jack</UserName>
<Password>jack123#</Password>
<ProxyEnabled>Y</ProxyEnabled>
</ConfigInfo>
```

```
</Configurations>
</WFGetBRTConfiguration_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
NoOFFetchedRecords	Root	Total No. of Registered BRMS configuration on NewgenONE server.
Configurations	Root	Refers to Configuration Details.
ConfigInfo	Configurations	Refers to each Configuration information.
ConfigId	ConfigInfo	Configuration Id of a registered BRMS configuration.
ConfigName	ConfigInfo	Name of Configuration.
HostName	ConfigInfo	IP address or Host address of a BRMS Server where Business rule is deployed.
HostPort	ConfigInfo	Port of a BRMS Server where Business rule is deployed.
HostProtocol	ConfigInfo	Protocol of a BRMS Server where Business rule is deployed.
UserName	ConfigInfo	User name to Invoke Business Rule (Optional).
Password	ConfigInfo	Password to Invoke Business Rule.
ProxyEnabled	ConfigInfo	Invoke via proxy.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.

WFUpdateBRTConfiguration

This API is used to update Business Rule configuration registered on NewgenONE server.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFUpdateBRTConfiguration_Input>
<Option>WFUpdateBRTConfiguration</Option>
<EngineName>ibpstest19july</EngineName>
<UserDBId>983848091</UserDBId>
<UserId>12</UserId>
<Configurations>
<ConfigInfo>
<ConfigId>1</ConfigId>
<ConfigName>LocalServer</ConfigName>
<HostName>127.0.0.1</HostName>
<HostPort>8080</HostPort>
<HostProtocol>HTTP</HostProtocol>
<URLSuffix>/axis2/services</URLSuffix>
<ProxyEnabled>Y</ProxyEnabled>
<UserName>Jack</UserName>
<Password>jack123#</Password>
</ConfigInfo>
</Configurations>
</WFUpdateBRTConfiguration_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WMPostDisConnect
EngineName	Root	Yes	This is the Name of the cabinet.	NA
UserDBId	Root	Yes	It refers to session Id for the user.	Integer (positive or negative).
UserId	Root	No	It refers to DMS user Id.	NA
Configurations	Root	No	Refers to Configurations Details.	NA

ConfigInfo	Configurations	No	Refers to each Configuration information.	NA
ConfigId	ConfigInfo	No	Configuration Id of a registered BRMS configuration.	NA
ConfigName	ConfigInfo	No	Name of Configuration.	NA
HostName	ConfigInfo	No	IP address or Host address of a BRMS Server where Business rule is deployed.	NA
HostPort	ConfigInfo	No	Port of a BRMS Server where Business rule is deployed.	NA
HostProtocol	ConfigInfo	No	Protocol of a BRMS Server where Business rule is deployed.	NA
URLSuffix	ConfigInfo	No	URLSuffix of a BRMS Server where Business rule is deployed. This is used to create WSDL path for a Business Rule.	NA
ProxyEnabled	ConfigInfo	No	Invoke via proxy.	NA
UserName	ConfigInfo	No	User name to Invoke Business Rule (Optional).	NA
Password	ConfigInfo	No	Password to Invoke Business Rule.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFUpdateBRTConfiguration_Output>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFUpdateBRTConfiguration_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
400	812	WF_OPERATION_FAILED	The requested operation failed.
15	801	WM_INVALID_FILTER	The requested filter is invalid.

WFExecuteDataExchange

This is the main API to evaluate the data exchange condition rules and execute the DB executable queries in the target database cabinet which could be any Customer cabinet without any Newgen products installed on it, or could be a cabinet with installed Newgen products.

This API operates in two different modes and the mode is differentiated by the input parameter RPACall.

- **RPA Mode** – This mode is used when the API is invoked from the RPA process flow. To use the API in this mode – set isRPACall as 'Y'
- **Utility Mode (or Non RPA Mode)** – This mode is used when the API is invoked from the NewgenONE Data Exchange Service to process the workitems present on the Data Exchange Activity.To use the API in this mode – set isRPACall as 'N'.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFExecuteDataExchange_Input>
<Option>WFExecuteDataExchange</Option>
<EngineName>cab30april</EngineName>
<SessionId>719744267</SessionId>
<ProcessDefId>79</ProcessDefId>
<ActivityId>2</ActivityId>
<IsRPACall>Y</IsRPACall>
<Attributes>
<Age Length="20" Type="3" VarFieldId="0" VariableId="0" isView="N">50</Age>
<AgeNew Length="20" Type="3" VarFieldId="0" VariableId="0" isView="N">200</AgeNew>
<Name Length="4" Type="10" VarFieldId="0" VariableId="0" isView="N">Ambuj</Name>
<DoB Length="50" Type="8" VarFieldId="0" VariableId="0" isView="N">2019-08-18
19:26:18</DoB>
<EXT_ID Length="20" Type="3" VarFieldId="0" VariableId="0" isView="N">1</EXT_ID>
<EXT_NAME Length="4" Type="10" VarFieldId="0" VariableId="0" isView="N">OPEN</
EXT_NAME>
<EXT_LONG Length="20" Type="4" VarFieldId="0" VariableId="0" isView="N">50000</
EXT_LONG>
<VAR_REC_3 Length="20" Type="10" VarFieldId="0" VariableId="0" isView="N"></
VAR_REC_3>
<EventName Length="20" Type="10" VarFieldId="0" VariableId="0" isView="N">></
EventName>
</Attributes>
</WFExecuteDataExchange_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case sensi-tive call name.	WFExecuteDataExchange
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionId	Root	Yes	It is the logged-in user's ses-sion id.	NA
ProcessDefId	Root	Yes	ProcessDefId of the RPA Process.	Integer value greater than zero.
ActivityId	Root	Yes	ActivityId of the Data Ex-change Activity.	Integer value greater than zero.
IsRPACall	Root	No	Flag indicating the execu-tion mode of the API.	Valid value – Y if invoked from RPA.
Attributes	Root	No	List of all the mapped RPA Attributes in the RPA Work-step. The Attribute proper-ties must be given in the specified format given in the sample input XML only.	RPA process's transient at-tributes in the valid format as in the input XML below.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFExecuteDataExchange_Output>
<Option>WFExecuteDataExchange</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Attributes>
<EXT_LONG VarFieldId="0" VariableId="0" >200</EXT_LONG>
<EXT_NAME VarFieldId="0" VariableId="0" >Ambuj</EXT_NAME>
<VAR_REC_3 VarFieldId="0" VariableId="0" >200</VAR_REC_3>
<AgeNew VarFieldId="0" VariableId="0" >1</AgeNew>
<DoB VarFieldId="0" VariableId="0" >2019-08-18</DoB>
<EventName VarFieldId="0" VariableId="0" >ACTIVE</EventName>
<EXT_ID VarFieldId="0" VariableId="0" >1</EXT_ID>
<Name VarFieldId="0" VariableId="0" >OPEN</Name>
</Attributes>
</WFExecuteDataExchange_Output>
```

Failure case:

```
<?xml version="1.0"?>
<WFExecuteDataExchange_Output>
<Option>WFExecuteDataExchange</Option>
<Status>1010</Status>
<Error>
<Exception>
<MainCode>1010</MainCode>
<SubErrorCode>1017</SubErrorCode>
<TypeOfError>TEMPORARY</TypeOfError>
<Subject>Invalid Data Exchange input.</Subject>
<Description>Select DB Query returned more than one rows.</Description>
</Exception>
</Error>
</WFExecuteDataExchange_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
SubErrorCode	Exception	Specific error code for if error occurs during execution.
TypeOfError	Exception	Error category.
Subject	Exception	Detailed error Name against the main code.
Description	Exception	Detailed error Description against the sub-error code
Attributes	Root	List of the attributes which are modi-fied/updated during the complete evaluation and execution of the data exchange rules. This tag will only be present when the Main-Code will be 0.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	Invalid session	Invalid User session.

1010	1013	Invalid Data Exchange input.	Error occurred while evaluating the Data Exchange condition rule
1010	1012	Invalid Data Exchange input.	Invalid Data Exchange Rule Type
1010	1021	Invalid Data Exchange input.	Could not retrieve the executable DB operation details
1010	1016	Invalid Data Exchange input.	Error occurred while executing the Database query in target database.
1010	1017	Invalid Data Exchange input.	Select DB Query returned more than one rows
1010	1030	Invalid Data Exchange input.	Error occurred while evaluating the set expression
1010	1019	Invalid Data Exchange input.	Could not retrieve the complete activity details
1010	1023	Invalid Data Exchange input.	Could not retrieve the complete workitem details
1010	1018	Invalid Data Exchange input.	Invalid Data Exchange Activity.
1010	801	Invalid Data Exchange input.	Connection Failed.
1010	802	Invalid Data Exchange input.	Invalid Parameter
1010	803	Invalid Data Exchange input.	Connection Failed.
15	801	The requested filter is invalid.	Some Database error occurred.
400	802	The requested operation failed	Invalid Parameter.

WFSSelectWithColumnNames

This API will select data from a table. The input contains the criteria details and output returns MainCode 0 as success and any other non-zero value for the failure case.

Sample request:

```
<?xml version="1.0"?>
<WFReusableComponent_Input>
    <Option>WFSSelectWithColumnNames</Option>
    <EngineName>ibps4_deepakrawat</EngineName>
    <SessionID>-1398895402</SessionID>
    <Query></Query>
    <TableName>customtable</TableName>
    <Columns>
        <Column>
            <ColumnName>NAME</ColumnName>
        </Column>
        <Column>
            <ColumnName>CLASS</ColumnName>
        </Column>
        <Column>
            <ColumnName>ID</ColumnName>
        </Column>
    </Columns>
    <RecordCriteria>
        <Columns>
            <Column>
                <ColumnName>ID</ColumnName>
                <ColumnValue>1</ColumnValue>
                <ColumnType>3</ColumnType>
                <LogicalOperator>=</LogicalOperator>
            </Column>
            <Column>
                <Operator>OR</Operator>
                <ColumnName>Name</ColumnName>
                <ColumnValue>Deepak</ColumnValue>
                <ColumnType>10</ColumnType>
                <LogicalOperator>!=</LogicalOperator>
            </Column>
        </Columns>
    </RecordCriteria>
    <BatchInfo>
        <BatchSize>100</BatchSize>
    </BatchInfo>
    <SortInfo>
        <Columns>
            <Column>
                <ColumnName>id</ColumnName>
                <SortOrder>D</SortOrder>
            </Column>
        </Columns>
    </SortInfo>
    <LastValue>4</LastValue>
    <LastValueType>3</LastValueType>
</WFReusableComponent_Input>
```

Sample response:

```
<?xml version="1.0"?>
<WFSSelectWithColumnNames_Output>
    <Option>WFSSelectWithColumnNames</Option>
    <ExecutionTime>17</ExecutionTime>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Output>
        <Records>
            <Record>
                <PROCESSINSTANCEID>Test-0000000001-process</PROCESSINSTANCEID>
                <PROCESSDEFID>1.0</PROCESSDEFID>
                <CREATEDBY>1.0</CREATEDBY>
                <CREATEDBYNAME>Supervisor</CREATEDBYNAME>
                <CREATEDDATETIME>2018-12-31 14:33:44.0</CREATEDDATETIME>
                <INTRODUCEDBYID>1.0</INTRODUCEDBYID>
                <INTRODUCEDBY>Supervisor</INTRODUCEDBY>
                <INTRODUCTIONDATETIME>2018-12-31 14:34:55.0</INTRODUCTIONDATETIME>
                <PROCESSINSTANCESTATE>6.0</PROCESSINSTANCESTATE>
                <EXPECTEDPROCESSDELAY>2018-12-31 14:34:55.0</EXPECTEDPROCESSDELAY>
                <INTRODUCEDAT>Start Event_1</INTRODUCEDAT>
                <WORKITEMID>1.0</WORKITEMID>
                <VAR_INT1>1.0</VAR_INT1>
                <VAR_INT2>0.0</VAR_INT2>
                <VAR_INT3>0.0</VAR_INT3>
                <VAR_INT4>0.0</VAR_INT4>
                <VAR_INT5>0.0</VAR_INT5>
                <VAR_INT6>0.0</VAR_INT6>
                <VAR_INT7>0.0</VAR_INT7>
                <VAR_INT8>0.0</VAR_INT8>
                <VAR_FLOAT1>0.0</VAR_FLOAT1>
                <VAR_FLOAT2>0.0</VAR_FLOAT2>
                <VAR_DATE1></VAR_DATE1>
                <VAR_DATE2></VAR_DATE2>
                <VAR_DATE3></VAR_DATE3>
                <VAR_DATE4></VAR_DATE4>
                <VAR_LONG1>0.0</VAR_LONG1>
                <VAR_LONG2>0.0</VAR_LONG2>
                <VAR_LONG3>0.0</VAR_LONG3>
                <VAR_LONG4>0.0</VAR_LONG4>
                <VAR_STR1>eesrwer</VAR_STR1>
                <VAR_STR2></VAR_STR2>
                <VAR_STR3></VAR_STR3>
                <VAR_STR4></VAR_STR4>
                <VAR_STR5></VAR_STR5>
                <VAR_STR6></VAR_STR6>
                <VAR_STR7></VAR_STR7>
                <VAR_STR8></VAR_STR8>
                <VAR_REC_1>165</VAR_REC_1>
                <VAR_REC_2>F</VAR_REC_2>
                <VAR_REC_3></VAR_REC_3>
                <VAR_REC_4></VAR_REC_4>
                <VAR_REC_5>2</VAR_REC_5>
                <INSTRUMENTSTATUS>N</INSTRUMENTSTATUS>
                <CHECKLISTCOMPLETEFLAG>N</CHECKLISTCOMPLETEFLAG>
                <SAVESTAGE>Start Event_1</SAVESTAGE>
                <HOLDSTATUS>0.0</HOLDSTATUS>
```

```
<STATUS></STATUS>
<REFERREDTO>0.0</REFERREDTO>
<REFERREDTONAME></REFERREDTONAME>
<REFERREDBY>0.0</REFERREDBY>
<REFERREDBYNAME></REFERREDBYNAME>
<CHILDPROCESSINSTANCEID></CHILDPROCESSINSTANCEID>
<CHILDWORKITEMID>0.0</CHILDWORKITEMID>
<PARENTWORKITEMID>0.0</PARENTWORKITEMID>
<CALENDARNAME></CALENDARNAME>
<PROCESSNAME>test_proc</PROCESSNAME>
<PROCESSVERSION>1.0</PROCESSVERSION>
<LASTPROCESSEDBY>1.0</LASTPROCESSEDBY>
<PROCESSEDBY>Supervisor</PROCESSEDBY>
<ACTIVITYNAME>End Event_3</ACTIVITYNAME>
<ACTIVITYID>3.0</ACTIVITYID>
<ENTRYDATETIME>2018-12-31 14:35:39.0</ENTRYDATETIME>
<ASSIGNMENTTYPE>R</ASSIGNMENTTYPE>
<COLLECTFLAG>N</COLLECTFLAG>
<PRIORITYLEVEL>1.0</PRIORITYLEVEL>
<VALIDTILL></VALIDTILL>
<Q_STREAMID>1.0</Q_STREAMID>
<Q_QUEUEID>0.0</Q_QUEUEID>
<Q_USERID>0.0</Q_USERID>
<ASSIGNEDUSER></ASSIGNEDUSER>
<FILTERVALUE>0.0</FILTERVALUE>
<WORKITEMSTATE>6.0</WORKITEMSTATE>
<STATENAME>COMPLETED</STATENAME>
<EXPECTEDWORKITEMDELAY></EXPECTEDWORKITEMDELAY>
<PREVIOUSSTAGE>Workdesk_2</PREVIOUSSTAGE>
<LOCKEDBYNAME></LOCKEDBYNAME>
<LOCKSTATUS>N</LOCKSTATUS>
<ROUTINGSTATUS>R</ROUTINGSTATUS>
<LOCKEDTIME></LOCKEDTIME>
<QUEUENAME></QUEUENAME>
<QUEUETYPE>N</QUEUETYPE>
<NOTIFYSTATUS>N</NOTIFYSTATUS>
<GUID>0.0</GUID>
<NOOFCOLLECTEDINSTANCES>0.0</NOOFCOLLECTEDINSTANCES>
<ISPRIMARYCOLLECTED></ISPRIMARYCOLLECTED>
<EXPORTSTATUS>N</EXPORTSTATUS>
<PROCESSVARIANTID>0.0</PROCESSVARIANTID>
<Q_DIVERTEDBYUSERID>0.0</Q_DIVERTEDBYUSERID>
<ACTIVITYTYPE>2.0</ACTIVITYTYPE>
<LASTMODIFIEDTIME></LASTMODIFIEDTIME>
<VAR_DATE5></VAR_DATE5>
<VAR_DATE6></VAR_DATE6>
<VAR_LONG5>0.0</VAR_LONG5>
<VAR_LONG6>0.0</VAR_LONG6>
<VAR_STR9></VAR_STR9>
<VAR_STR10></VAR_STR10>
<VAR_STR11></VAR_STR11>
<VAR_STR12></VAR_STR12>
<VAR_STR13></VAR_STR13>
<VAR_STR14></VAR_STR14>
<VAR_STR15></VAR_STR15>
<VAR_STR16></VAR_STR16>
<VAR_STR17></VAR_STR17>
```

```
                <VAR_STR18></VAR_STR18>
                <VAR_STR19></VAR_STR19>
                <VAR_STR20></VAR_STR20>
                <URN>TestProcess-1</URN>
            </Record>
        </Records>
        <TotalRetrieved>2</TotalRetrieved>
    </Output>
</WFSSelectWithColumnNames_Output>
```

WFSInsert

This API will insert data into the table. The input contains the criteria details and output returns MainCode 0 as success and any other non-zero value for the failure case.

Sample request:

```
<?xml version="1.0"?>
<WFReusableComponent_Input>
    <Option>WFSInsert</Option>
    <EngineName>ibps4_deepakrawat</EngineName>
    <SessionID>48835879</SessionID>
    <TableName>deepak</TableName>
    <Columns>
        <Column>
            <ColumnName>Name</ColumnName>
            <ColumnValue>Ankit</ColumnValue>
            <ColumnType>10</ColumnType>
        </Column>
        <Column>
            <ColumnName>ID</ColumnName>
            <ColumnValue>5</ColumnValue>
            <ColumnType>3</ColumnType>
        </Column>
    </Columns>
</WFReusableComponent_Input>
```

Sample response:

```
<?xml version="1.0"?>
<WFSInsert_Output>
    <Option>WFSInsert</Option>
    <ExecutionTime>76</ExecutionTime>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Output>1</Output>
</WFSInsert_Output>
```

WFSUpdate

This API will update data of the table. The input contains the criteria details and output returns MainCode 0 as success and any other non-zero value for the failure case.

Sample request:

```
<?xml version="1.0"?>
<WFReusableComponent_Input>
    <Option>WFSUpdate</Option>
    <EngineName>ibps4_deepakrawat</EngineName>
    <SessionID>440511920</SessionID>
    <TableName>deepak</TableName>
    <RecordData>
        <Columns>
            <Column>
                <ColumnName>ID</ColumnName>
                <ColumnValue>6</ColumnValue>
                <ColumnType>3</ColumnType>
            </Column>
            <Column>
                <ColumnName>Name</ColumnName>
                <ColumnValue>Ankit</ColumnValue>
                <ColumnType>10</ColumnType>
            </Column>
        </Columns>
    </RecordData>
    <RecordCriteria>
        <Columns>
            <Column>
                <ColumnName>Name</ColumnName>
                <ColumnValue>Ankit</ColumnValue>
                <ColumnType>10</ColumnType>
            </Column>
            <Column>
                <Operator>and</Operator>
                <ColumnName>Class</ColumnName>
                <ColumnValue>genesis</ColumnValue>
                <ColumnType>10</ColumnType>
            </Column>
        </Columns>
    </RecordCriteria>
</WFReusableComponent_Input>
```

Sample response:

```
<?xml version="1.0"?>
<WFSUpdate_Output>
    <Option>WFSUpdate</Option>
    <ExecutionTime>4</ExecutionTime>
    <Exception>
        <MainCode>0</MainCode>
```

```
    </Exception>
    <Output>1</Output>
</WFSUpdate_Output>
```

WFSDelete

This API will delete data from the table. The input contains the criteria details and output returns MainCode 0 as success and any other non-zero value for the failure case.

Sample request:

```
<?xml version="1.0"?>
<WFReusableComponent_Input>
    <Option>WFSDelete</Option>
    <EngineName>ibps4_deepakrawat</EngineName>
    <SessionID>440511920</SessionID>
    <TableName>deepak</TableName>
    <RecordCriteria>
        <Columns>
            <Column>
                <ColumnName>Name</ColumnName>
                <ColumnValue>Deepak</ColumnValue>
                <ColumnType>10</ColumnType>
            </Column>
            <Column>
                <Operator>and</Operator>
                <ColumnName>ID</ColumnName>
                <ColumnValue>5</ColumnValue>
                <ColumnType>3</ColumnType>
            </Column>
        </Columns>
    </RecordCriteria>
</WFReusableComponent_Input>
```

Sample response:

```
<?xml version="1.0"?>
<WFSDelete_Output>
    <Option>WFSDelete</Option>
    <ExecutionTime>4</ExecutionTime>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Output>1</Output>
</WFSDelete_Output>
```

WFSProcedure

This API will call the procedure. The input contains the criteria details and output returns MainCode 0 as success and any other non-zero value for the failure case.

Sample request:

```
<?xml version="1.0"?>
<WFReusableComponent_Input>
    <Option>WFSProcedure</Option>
    <EngineName>ibps4_deepakrawat</EngineName>
    <SessionID>48835879</SessionID>
    <ProcedureName>deepak</ProcedureName>
    <Parameters>
        <Parameter>
            <ParameterValue>Deepak</ParameterValue>
            <ParameterType>10</ParameterType>
            <ParameterIndex>2</ParameterIndex>
        </Parameter>
        <Parameter>
            <ParameterValue>1000</ParameterValue>
            <ParameterType>3</ParameterType>
            <ParameterIndex>1</ParameterIndex>
        </Parameter>
    </Parameters>
</WFReusableComponent_Input>
```

Sample response:

```
<?xml version="1.0"?>
<WFSProcedure_Output>
    <Option>WFSProcedure</Option>
    <ExecutionTime>4ms</ExecutionTime>
    <MainCode>0</MainCode>
</WFSProcedure_Output>
```

WFGetNextDate

This API is used to get Next and Previous – Day, Hour and Minute from the given Date in Input.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetNextDate_Input>
```

```
<Option>WFGetNextDate</Option>
<EngineName>ibps4oct2020satyam</EngineName>
<SessionID>2074470997</SessionID>
<CalName>MyTest</CalName>
<ProcessDefId>1</ProcessDefId>
<ProcessInstanceId></ProcessInstanceId>
<ActivityId></ActivityId>
<WorkItemId></WorkItemId>
<DaysToAdd>3</DaysToAdd>
<HoursToAdd>2</HoursToAdd>
<MinutesToAdd>30</MinutesToAdd>
<FutureDateFlag>Y</FutureDateFlag>
<SourceDate>2020-12-12 00:00:00</SourceDate>
</WFGetNextDate_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetNextDate
EngineName	Root	Yes	This is the Name of the cabinet.	N/A
SessionID	Root	Yes	It is the logged-in user's session id.	Integer (positive or negative).
CalName	Root	No	It is the name of calendar which we have to use.	N/A
WorkItemId	Root	No	It is the Id of workitem Type -Parent or child	Integer (positive)
ProcessInstanceId*	Root	Yes	It is the id of the process instance for the workitem. And from this we can get the Activity Id. Is Compulsary when processdefinitionid is 0	N\A
ProcessDefinitionId*	Root	Yes	ID of the Process for which we have to see the calendar Next and Previous - Day, Hour, Minutes Is Compulsary when processInstanceId is null or empty.	Integer (positive)

ActivityId	Root	No	Id of the Activity which is associated with this process and for which we have the associated calender with it .and we have to consider this calender.	Integer (positive) By Default 0
DaysToAdd	Root	No	Days must be Added in source date.	Integer (positive) By Default 0
HoursToAdd	Root	No	Hours must be Added in source date.	Integer (positive) By Default 0
MinutesToAdd	Root	No	Minutes must be Added in source date.	Integer (positive) By Default 0
FutureDateFlag	Root	No	Flag Used to get Next or Previous date.	Y ->next N->previous By default ->Y Other than Y and N than ->previous
SourceDate	Root	Yes	This is the input date in which we have to add the Day, Hour, Minutes	Input in this format 2020-12-08 00:00:00

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetNextDate_Output>
<Option>WFGetNextDate</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<TargetDate>2020-12-17 11:30:00</TargetDate>
</WFGetNextDate_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TargetDate	Root	Next and previous target date.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFISWorkingDay

This API is used to know that given Date is working Date or not.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFISWorkingDay_Input>
<Option>WFISWorkingDay</Option>
<EngineName>ibps4oct2020satyam</EngineName>
<SessionID>2074470997</SessionID>
<CalName>MyTest</CalName>
```

```
<ProcessInstanceId></ProcessInstanceId>
<ProcessDefId>1</ProcessDefId>
<ActivityId></ActivityId>
<WorkItemId></WorkItemId>
<SourceDate>2020-12-12</SourceDate>
</WFISWorkingDay_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFISWorkingDay
EngineName	Root	Yes	This is the Name of the cabinet.	N/A
SessionID	Root	Yes	It is the logged in user's session id.	Integer (positive or negative).
CalName	Root	No	It is the name of calendar which we have to use.	N/A
WorkItemId	Root	No	It is the Id of workitem Type -Parent or child.	Integer (positive)
ProcessInstanceId	Root	Yes	It is the id of the process instance for the workitem. And from this we can get the Activity Id. Is Compulsary when processdefinitionid is 0.	N\A
ProcessDefinitionId*	Root	Yes	ID of the Process for which we have to see the calendar Next and Previous - Day, Hour, Minutes Is Compulsary when processInstanceId is null or empty.	Integer (positive)
ActivityId	Root	No	Id of the Activity which is associated with this process and for which we have the associated calender with it .and we have to consider this calender.	Integer (positive).By Default 0
SourceDate	Root	Yes	This is the input date which is to be checked that it is working date or not.	Input in this format yyyy-MM-dd

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFISWorkingDay_Output>
<Option>WFISWorkingDay</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ISWorkingDay>false</ISWorkingDay>
</WFISWorkingDay_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ISWorkingDay	Root	It gives true or false for isworking or not.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFGetNNextWorkingDays

This API is used to get Next or Previous N working days from given Date.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetNNextWorkingDays_Input>
<Option>WFGetNNextWorkingDays</Option>
<EngineName>ibps4oct2020satyam</EngineName>
<SessionID>2074470997</SessionID>
<CalName>MyTest</CalName>
<WorkItemId></WorkItemId>
<ProcessDefId></ProcessDefId>
<ProcessInstanceId>Demo-0000003090-process</ProcessInstanceId>
<ActivityId></ActivityId>
<FromDate>2020-12-08</FromDate>
<FutureDateFlag>Y</FutureDateFlag>
<NoOfDays>10</NoOfDays>
</WFGetNNextWorkingDays_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetNNextWorkingDays
EngineName	Root	Yes	This is the Name of the cabinet.	N/A
SessionID	Root	Yes	It is the logged-in user's session id.	Integer (positive or negative).

CalName	Root	No	It is the name of calendar which we have to use.	N/A
WorkItemId	Root	No	It is the Id of workitem Type -Parent or child.	Integer (positive)
ProcessInstanceId	Root	Yes	It is the id of the process instance for the workitem. And from this we can get the Activity Id. Is Compulsary when processdefinitionid is 0	N\A
ProcessDefinitionId	Root	Yes	ID of the Process for which we have to see the calendar Next and Previous - Day, Hour, Minutes Is Compulsary when processInstanceId is null or empty.	Integer (positive)
ActivityId	Root	No	Id of the Activity which is associated with this process and for which we have the associated calender with it .and we have to consider this calender.	Integer (positive).By Default 0
FromDate	Root	Yes	This is the input date from which we have to get next or previous dates	Input in this format yyyy-MM-dd
FutureDateFlag	Root	No	Falg is used to get next or previous n working days	Y ->next N->previous Bydefault ->Y Other than Y and N than ->previous
NoOfDays	Root	No	Number of next N working days	Integer (positive). By default 1

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetNNextWorkingDays_Output>
<Option>WFGetNNextWorkingDays</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<ListOfWorkingDays>
<WorkingDate>2020-12-09</WorkingDate>
<WorkingDate>2020-12-10</WorkingDate>
<WorkingDate>2020-12-11</WorkingDate>
<WorkingDate>2020-12-14</WorkingDate>
<WorkingDate>2020-12-15</WorkingDate>
<WorkingDate>2020-12-16</WorkingDate>
<WorkingDate>2020-12-17</WorkingDate>
<WorkingDate>2020-12-18</WorkingDate>
<WorkingDate>2020-12-21</WorkingDate>
<WorkingDate>2020-12-22</WorkingDate>
</ListOfWorkingDays>
</WFGetNNextWorkingDays_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
WorkingDate	ListOfWorkingDays	The list of Working days from given date.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFGetDateDifference

This API is used to know the difference between the given two dates FromDate and ToDate.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetDateDifference_Input>
<Option>WFGetDateDifference</Option>
<EngineName>ibps4oct2020satyam</EngineName>
<SessionID>2074470997</SessionID>
<CalName></CalName>
<WorkItemId></WorkItemId>
<ProcessDefId></ProcessDefId>
<ProcessInstanceId>Demo-0000003090-process</ProcessInstanceId>
<ActivityId></ActivityId>
<FromDate>2020-12-03 00:00:00</FromDate>
<TODate>2020-12-07 00:00:00</TODate>
<OutputUnit>A</OutputUnit>
</WFGetDateDifference_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetDateDifference
EngineName	Root	Yes	This is the Name of the cabinet.	N/A
SessionID	Root	Yes	It is the logged-in user's session id.	Integer (positive or negative).

CalName	Root	No	It is the name of calendar which we have to use.	N/A
WorkItemId	Root	No	It is the Id of workitem Type -Parent or child.	Integer (positive)
ProcessInstanceId	Root	Yes	It is the id of the process instance for the workitem. And from this we can get the Activity Id. Is Compulsary when processdefinitionid is 0.	N\A
ProcessDefinitionId	Root	Yes	ID of the Process for which we have to see the calendar Next and Previous - Day, Hour, Minutes Is Compulsary when processInstanceId is null or empty.	Integer (positive)
ActivityId	Root	No	Id of the Activity which is associated with this process and for which we have the associated calender with it .and we have to consider this calender.	Integer (positive).By Default 0
FromDate	Root	Yes	This is the input date from which we have to check the difference.	Input in this format 2020-12-08 00:00:00
ToDate	Root	Yes	This is the input date to which we have to check the difference.	Input in this format 2020-12-08 00:00:00
OutputUnit	Root	No	Flag to get the Output in Given form.	D->Days difference H->Hours M->Minute S->Second A->All By default in H->Hours

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFGetDateDifference_Output>
<Option>WFGetDateDifference</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<DateDifference>
<DifferenceInDays>2</DifferenceInDays>
<DifferenceInHours>18</DifferenceInHours>
<DifferenceInSeconds>64800</DifferenceInSeconds>
<DifferenceInMinutes>1080</DifferenceInMinutes>
</DateDifference>
</WFGetDateDifference_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
DifferenceInDays	DateDifference	Show dates difference in Days.
DifferenceInHours	DateDifference	Show dates difference in Hours.
DifferenceInSeconds	DateDifference	Show dates difference in Seconds.
DifferenceInMinutes	DateDifference	Show dates difference in Minutes.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Code	Constant value	Message
400	WF_OPERATION_FAILED	Operation failed
11	WM_INVALID_SESSION_HANDLE	Invalid session

WFAdhocWorkItem

The WFAdhocWorkItem API executes while performing adhoc operations.

Sample request:

```
<WFAdhocWorkItem_Input>
    <Option>WFAdhocWorkItem</Option>
    <EngineName>ibps4_new_shah</EngineName>
    <SessionId>-1471870005</SessionId>
    <ZipBuffer>N</ZipBuffer>
    <RightFlag>010100</RightFlag>
    <ProcessDefID>1</ProcessDefID>
    <ProcessInstanceID>WF-0000000004-process</ProcessInstanceID>
    <WorkItemID>1</WorkItemID>
    <ActivityID>5</ActivityID>
    <ActivityName>Standard Workdesk</ActivityName>
    <ActivityType>10</ActivityType>
    <PrevActivityType>10</PrevActivityType>
    <Comments>ok</Comments>
    <SynchronousRouting>Y</SynchronousRouting>
</WFAdhocWorkItem_Input>
```

Sample response:

```
<WFAdhocWorkItem_Output>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessInstanceID>WF-0000000004-process</ProcessInstanceID>
    <TotalWorkitemCount>1</TotalWorkitemCount>
    <ProcessInstanceState>2</ProcessInstanceState>
</WFAdhocWorkItem_Output>
```

WFAddTask

The WFAddTask API allows you to add the adhoc tasks (Run time tasks) to any case at the case management workstep. Only those users who have permission to view and initiate tasks on the case can add the run time tasks. You can select the list of available templates that are designed using the Process Designer while creating the process.

Sample request:

```
<?xml version="1.0"?>
<WFAddTask_Input>
    <Option>WFAddTask</Option>
    <EngineName>licpostgres28june</EngineName>
    <SessionID>2048289374</SessionID>
    <ActivityId>3</ActivityId>
    <WorkItemID>1</WorkItemID>
    <ProcessDefId>5</ProcessDefId>
    <ProcessInstanceId>case18-0000000007-process</ProcessInstanceId>
    <ActivityName>Case Workdesk_3</ActivityName>
    <TaskName>NewAdhocTask</TaskName>
    <TemplateId>2</TemplateId>
    <Goal> cretaed by pankaj</Goal>
    <NotifyEmail>Y</NotifyEmail>
    <Instruction> cretaed by pankaj</Instruction>
    <Description>cretaed by pankaj</Description>
    <IsRepeatable>Y</IsRepeatable>
    <IsMandatory>Y</IsMandatory>
    <Turnaroundtime>
        <Days>1</Days>
        <Hours>0</Hours>
        <Minutes>0</Minutes>
    </Turnaroundtime>
    <TATCalFlag>Y</TATCalFlag>
    <TemplateId>2</TemplateId>
    <TaskTemplate>
        <TemplateFields>
            <TemplateField>
                <TaskVariableName>employee</TaskVariableName>
                <DisplayName>employee</DisplayName>
                <VariableType>10</VariableType>
                <OrderId>1</OrderId>
                <ControlType>1</ControlType>
            </TemplateField>
            <TemplateField>
                <TaskVariableName>Age</TaskVariableName>
                <DisplayName>Age</DisplayName>
                <VariableType>3</VariableType>
                <OrderId>2</OrderId>
                <ControlType>1</ControlType>
            </TemplateField>
        </TemplateFields>
    </TaskTemplate>
```

```
    <Expiry>
        <ExpiryFlag>N</ExpiryFlag>
    </Expiry>
    <TaskRules>
        <TaskRule>
            <RuleId>1</RuleId>
            <RuleOperation>
                <OperationType>26</OperationType>
                <Param2>TaskEntryDateTime</Param2>
                <Type2>S</Type2>
                <ExtObjID2>0</ExtObjID2>
                <VariableId_2>0</VariableId_2>
                <VarFieldId_2>0</VarFieldId_2>
                <RuleCalFlag>Y</RuleCalFlag>
            </RuleOperation>
            <Duration>
                <WFDays>3</WFDays>
                <VariableId_Days>0</VariableId_Days>
                <VarFieldId_Days>0</VarFieldId_Days>
                <WFHours>3</WFHours>
                <VariableId_Hours>0</VariableId_Hours>
                <VarFieldId_Hours>0</VarFieldId_Hours>
                <WFMinutes>3</WFMinutes>
                <VariableId_Minutes>0</VariableId_Minutes>
                <VarFieldId_Minutes>0</VarFieldId_Minutes>
            </Duration>
            <EscToMail>
                <Subject>&amp;&lt;CalendarName&gt;&amp;</Subject>
                <Message>&amp;&lt;CalendarName&gt;&amp;</Message>
                <FromUser>CaseManager</FromUser>
                <FromUserType>N</FromUserType>
                <ExtObjIDFromUser>0</ExtObjIDFromUser>
                <VariableIdFrom>0</VariableIdFrom>
                <VarFieldIdFrom>0</VarFieldIdFrom>
                <ToUser>CaseManager</ToUser>
                <ToType>N</ToType>
                <ExtObjIDTo>0</ExtObjIDTo>
                <VariableIdTo>0</VariableIdTo>
                <VarFieldIdTo>0</VarFieldIdTo>
                <CCUser>ambuj.tripathi@gmail.com</CCUser>
                <CCType>C</CCType>
                <ExtObjIDCC>0</ExtObjIDCC>
                <VariableIdCc>0</VariableIdCc>
                <VarFieldIdCc>0</VarFieldIdCc>
                <BCCUser>TaskInitiator</BCCUser>
                <BCCType>T</BCCType>
                <ExtObjIDBCC>0</ExtObjIDBCC>
                <VariableIdBCc>0</VariableIdBCc>
                <VarFieldIdBCc>0</VarFieldIdBCc>
                <MailPriority>2</MailPriority>
                <MailPriorityType>C</MailPriorityType>
                <ExtObjIdMailPriority>0</ExtObjIdMailPriority>
                <VariableIdMailPriority>0</VariableIdMailPriority>
                <VarFieldIdMailPriority>0</VarFieldIdMailPriority>
            </EscToMail>
        </TaskRule>
```

```
    </TaskRules>
</WFAddTask_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	Name of the API call. It is a case-sensitive name.	WFAddTask
EngineName	Root	Yes	Name of the cabinet.	NA
SessionID	Root	Yes	Session ID of the signed-in user.	NA
ProcessInstanceId	Root	Yes	ID of the process instance corresponding to the workitem associated with the case and task.	NA
WorkItemID	Root	Yes	ID of the workitem associated with the case and task.	NA
ProcessDefId	Root	Yes	ID of the process associated with the case and task.	NA
ActivityId	Root	Yes	ID assigned to a specific activity in the process.	NA
ActivityName	Root	Yes	Name of the activity corresponding to the activity ID.	NA
TaskName	Root	Yes	Name of the task.	NA
Goal	Root	No	Description of the task.	NA

NotifyEmail	Root	No	Enables or disables email notifications.	Y — To enable the email notifications. Or N — To disable the email notifications.
Instruction	Root	No	Description of the task instruction.	NA
Description	Root	No	Detailed description of the task .	NA
Cost	Root	No	Cost of the task.	NA
IsRepeatable	Root	No	Indicates if the added task is repeatable or not.	Y — Task is repeatable. Or N — Task is not repeatable.
Days	Turnaroundtime	No	Number of days to complete the task.	NA
Hours	Turnaroundtime	No	Number of hours to complete the task.	NA
Minutes	Turnaroundtime	No	Number of minutes to complete the task.	NA
TATCalFlag	Root	No	Flag for turnaround time.	Y — Turnaroud time is enabled. Or N — Turnaroud time is disabled.
Consultants	Root	No	Name of task consultants.	NA
TemplateFields	TaskTemplate	No	Parent tag for template fields.	NA
TemplateField	TemplateFields	No	Parent tag for various template fields.	NA

TaskVariableName	TemplateField	No	Task variable name.	NA
DisplayName	TemplateField	No	Display name of the task variable.	NA
VariableType	TemplateField	No	Integer value that indicates type of task variable.	Following are the valid values of task variable: 3 — INT 4 — LONG 6 — FLOAT 8 — DATE 10 — TEXT
OrderId	TemplateField	No	Order of the task template fields.	NA
ControlType	TemplateField	No	Control type of the task variable.	Following are the valid values of control type: 1 — Textbox 2 — Text area 3 — Combo box
Expiry	Root	No	Task expiry details defined for the task.	NA
ExpiryFlag	Expiry	No	Enables or disables the expiry of tasks.	Y — To enable the expiry. N — To disable the expiry.
TaskRules	Root	No	Details of the precondition defined on the tasks. It can contain multiple TaskRule tags.	NA
TaskRule	TaskRules	No	Contains a specific task rule.	NA
RuleId	TaskRule	No	Identifier for each rule on the task.	Integer

RuleOperation	TaskRule	No	Contains the operation information.	NA
OperationType	RuleOperation	No	Contains the operation type.	Following are the valid values of operation type: 24 — Revoke task. 26 — Reassign task
Param2	RuleOperation	No	Contains the base time from where the expiry time is counted.	Possible values: TaskEntryDateTime TaskInitiationdatetime SLADateTime CurrentDateTime Workitem Creation Date Time Case Initiation Date Time Workitem ExpiryDate Time Workitem IntroductionDate Time
Type2	RuleOperation	No		S — List selected
ExtObjID2	RuleOperation	No	Identifier for Param2 variable.	0 — Constant or Queue variable 1 — External variable
VariableId_2	RuleOperation	No	Variable ID for the Param2 variable.	Integer
VarFieldId_2	RuleOperation	No	VarField ID for the Param2 variable.	Integer
RuleCalFlag	RuleOperation	No	Indicates the calendar type to be considered while expiry calculation.	Y — Custom calendar N — Default calendar

Duration	TaskRule	No	Indicates the time interval plus the base time (from param2) for defining the expiry of a task.	NA
WFDays	Duration	No	Defines the number of days.	Integer or variable name
VariableId_Days	Duration	No	Variable ID if days are variable.	Integer
VarFieldId_Days	Duration	No	VarField ID if days are variable.	Integer
WFHours	Duration	No	Defines the number of days.	Integer or Variable name
VariableId_Hours	Duration	No	Variable ID if WFHours is variable.	Integer
VarFieldId_Hours	Duration	No	VarField ID if WFHours is variable.	Integer
WFMinutes	Duration	No	Defines the minutes.	Integer or variable name
VariableId_Minutes	Duration	No	Variable ID if WFMinutes is variable.	Integer
VarFieldId_Minutes	Duration	No	VarFieldId if WFMinutes is variable.	Integer
EscToMail	TaskRule	No	Contains the information if escalation is defined on the tasks.	NA
Subject	EscToMail	No	Mail subject of the escalation mail.	Text

Message	EscToMail	No	Main body of the escalation mail.	Text
FromUser	EscToMail	No	Sender's email of the escalation mail.	Valid email or variable name
FromUserType	EscToMail	No	Variable type if FromUser is variable.	C — Constant Q/U — Queue variable
ExtObjIDFromUser	EscToMail	No	External ObjID if FromUser is variable.	Integer: 0 — Default
VariableIdFrom	EscToMail	No	Variable ID if FromUser is variable.	Integer 0 — Default
VarFieldIdFrom	EscToMail	No	VarField ID of FromUser is variable.	Integer: 0 — Default
ToUser	EscToMail	No	Receiver's email ID, constant, or variable name.	Valid email or variable name
ToType	EscToMail	No	Receiver's email variable's type.	C — Constant Q/U — Queue variable
ExtObjIDTo	EscToMail	No	External object ID of receiver's email variable.	Integer: 0 — Default
VariableIdTo	EscToMail	No	Variable ID of receiver's email variable	Integer: 0 — Default
VarFieldIdTo	EscToMail	No	VarField ID of receiver's email variable.	Integer: 0 — Default
CCUser	EscToMail	No	CC User's email ID, constant, or variable name.	Valid email or variable name
CCType	EscToMail	No	CC User's email variable type.	C — Constant Q/U — Queue variable

ExtObjIDCC	EscToMail	No	External object ID of CC User'Mail variable.	Integer: 0 — Default
VariableIdCc	EscToMail	No	Variable ID of CC User'Mail variable.	Integer: 0 — Default
VarFieldIdCc	EscToMail	No	VarField ID of CC User'Mail variable.	Integer: 0 — Default
BCCUser	EscToMail	No	BCC user's email ID, constant, or variable name.	Valid email or variable name
BCCType	EscToMail	No	BCC user's email variable type.	C — Constant Q/U — Queue variable
ExtObjIDBCC	EscToMail	No	External object ID of BCC User'Mail variable.	Integer: 0 — Default
VariableIdBCc	EscToMail	No	Variable ID of BCC User'Mail variable.	Integer: 0 — Default
VarFieldIdBCc	EscToMail	No	VarField ID of BCC User'Mail variable	Integer: 0 — Default
MailPriority	EscToMail	No	Mail Priority : 1 – low 2 – Medium 3 - High	Integer or variable name
MailPriorityType	EscToMail	No	PriorityType variable's type	C — Constant Q/U — Queue variable
ExtObjIdMailPriority	EscToMail	No	External object id of PriorityType variable	Integer: 0 — Default
VariableIdMailPriority	EscToMail	No	Variable ID of PriorityType variable	Integer: 0 — Default
VarFieldIdMailPriority	EscToMail	No	VarFieldId of PriorityType variable	Integer: 0 — Default

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFAddTask_Output>
    <Option>WFAddTask</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <TaskId>24</TaskId>
</WFAddTask_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TaskId	Root	New task ID added by the API call.

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session.
400	WF_OPERATION_FAILED	Operation failed.
974	WF_TASKNAME_ALR_EXISTS	Task name already exists.
977	WM_INVALID_CASE	Invalid case.
982	WF_NO_AUTHORIZATION_ON_CASE	No autorization on case.

WFGetTaskList

This API is used to fetch the list of tasks associated with an activity with status. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFGetTaskList_Input>
<Option>WFGetTaskList</Option>
<EngineName>abccabinet</EngineName>
<SessionId>123414214</SessionId>
<UserName>Maxwell</UserName>
<ProcessDefId>1</ProcessDefId>
<ProcessInstanceId>abc-0001-case</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ActivityId>3</ActivityId>
<BatchInfo>
<NoOfRecordsToFetch>10</NoOfRecordsToFetch>
<SortOrder>A</SortOrder>
<OrderBy></OrderBy>
<LastValue></LastValue>
</BatchInfo>
</WFGetTaskList_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetTaskList
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA
SortOrder	BatchInfo	No	This is the order in which the tasks are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D.
OrderBy	BatchInfo	No	Order By field on which the Activities list is to be sorted.	1 - ActivityID 2 - Activity Name 3 - Number of Workitems 4 - Number Of Delayed Workitems 5 – Process ID
LastValue	BatchInfo	No	Name of the last task fetched in the previous batch.	NA

ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA
WorkItemId	Root	Yes	ID of the workitem belongs to workstep.	NA
ProcessDefId	Root	Yes	ID of the Process for which the Variable value setting action is to be enabled.	NA
ActivityId	Root	Yes	ID of the activity or workstep.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFGetTaskList_Output>
<Option>WFGetTaskList</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<TaskList>
<TaskInfo>
<TaskName>Task_name02</TaskName>
<TaskId>02</TaskId>
<Status>2</Status>
<ProcessInstanceId>abc-0001-case</ProcessInstanceId>
<AssignedTo>John</AssignedTo>
<DueDate>2015-04-10 12:30:00</DueDate>
```

```
<AssignedOn>2015-04-10 09:30:00</AssignedOn>
<TaskType>4</TaskType>
<IsMandatory>
<IsMandatory>
<IsRepeatable>Y</IsRepeatable>
<SubTaskId>1</SubTaskId>
</TaskInfo>
<TaskInfo>
<TaskName>Task_name03</TaskName>
<TaskId>03</TaskId>
<Status>0</Status>;0-Waiting,1-Ready,2-Initiated,3-Complete
<ProcessInstanceId>abc-0001-case</ProcessInstanceId>
<AssignedTo></AssignedTo>
<DueDate></DueDate>
<AssignedOn></AssignedOn>
<TaskType>2</TaskType>
<IsMandatory>
<IsMandatory>--Y or N
<IsRepeatable>Y</IsRepeatable>
<SubTaskId>0</SubTaskId>
</TaskInfo>
</TaskList>
</WFGetTaskList_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TaskName	TaskInfo	Name of task
TaskId	TaskInfo	Id of task.
Status	TaskInfo	0-Waiting,1-Ready,2-Initiated,3-Complete
ProcessInstanceId	TaskInfo	Process Instance ID of the created Process Instance.
AssignedTo	TaskInfo	Task assigned to which user.
DueDate	TaskInfo	Due date of task.
AssignedOn	TaskInfo	Date on which task is assigned.
TaskType	TaskInfo	Type of task.
IsMandatory	TaskInfo	Y -- Yes N -- No
IsRepeatable	TaskInfo	Y -- Yes N -- No

SubTaskId	TaskInfo	Id of sub task.

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
300	0	WM_NO_AUTHORIZATION	No Authorization.
18	0	WM_NO_MORE_DATA	No more records.
400	--	WF_OPERATION_FAILED	Operation Failed.
982	0	WF_NO_AUTHORIZATION_ON_CASE	No autorization on case.
995	0	WF_AUTOINITIATE_FAILED	Auto initiate failed.
994	0	WF_INVALID_USER_AUTOINITIATE	Auto intiate by invalid user.
993	0	WF_TASK_SET_DATA_FAILED	Set data on task is failed.
15	0	WM_INVALID_FILTER	Filter is invalid.

WFGetTasksForUser

This API is used to fetch the list of tasks which are assigned to an user. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFGetTasksForUser_Input>
<Option>WFGetTasksForUser</Option>
<EngineName>ibpsjune29sql</EngineName>
<SessionId>309534279</SessionId>
<SearchPrefix></SearchPrefix>
<SearchCriteria>1</SearchCriteria>
<BatchInfo>
<SortOrder>A</SortOrder>
<OrderBy>1</OrderBy>
<NoOfRecordsToFetch>20</NoOfRecordsToFetch>
</BatchInfo>
</WFGetTasksForUser_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value

Option	Root	Yes	It refers to the case-sensitive call name.	WFGetTasksForUser
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
UserId	Root	No	Customer User ID	NA
NoOfRecordsToFetch	BatchInfo	No	The no. of processes to be fetched per batch.	NA
ReadFlag	BatchInfo	No	Flag to read the tasks.	Y – Yes N -- No
SortOrder	BatchInfo	No	This is the order in which the task are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D.
OrderBy	BatchInfo	No	Order By field on which the Activities list is to be sorted.	1 - ActivityID 2 - Activity Name 3 - Number of Workitems 4 - Number Of Delayed Workitems 5 – Process ID
LastValue	BatchInfo	No	Name of the last task fetched in the previous batch.	NA
ProcessInstanceId	Root	No	Process Instance ID to which the Activity Instance belongs.	NA
WorkItemId	Root	No	ID of the workitem belongs to workstep.	NA
TaskId	Root	No	ID of the task.	NA
TaskName	Root	No	Name of the task.	NA
DueDate	Root	No	Due date of task.	NA
Priority	Root	No	Priority of the task.	NA

SearchPrefix	Root	No	Prefix to search task.	Default value is '*'.
SearchCriteria	Root	No	Criteria to search.	NA
ReadStatus	Root	No	Flag that enable to read status.	NA
OverDue	Root	No	Flag that tells over due task.	Y – Yes N -- No
ApprovalPending	Root	No	Task for approval is pending or not.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFGetTasksForUser_Output>
<Option>WFGetTasksForUser</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<TaskList>
<TaskInfo>
<TaskName>Internal Audit Review</TaskName>
<TaskId>4</TaskId>
<ProcessDefId>29</ProcessDefId>
<ActivityId>5</ActivityId>
<ProcessInstanceId>CaseWork-0000000019-Resolution</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<TaskType>1</TaskType>
<AssignedBy>disha</AssignedBy>
<AssignedOn>2017-09-11 14:53:01.0</AssignedOn>
<DueDate>2017-09-15 02:22:28.0</DueDate>
```

```
<Priority>0</Priority>
<Q_QueueId>0</Q_QueueId>
<QueueName>disha's MyQueue</QueueName>
<SubTaskId>0</SubTaskId>
<ReadFlag>Y</ReadFlag>
<AllowDecline>N</AllowDecline>
<AllowReassignment>N</AllowReassignment>
<ApprovalRequired>N</ApprovalRequired>
<ApprovalRequired>N</ApprovalRequired>
<PendingForApproval>N</PendingForApproval>
<SubProcess></SubProcess>
</TaskInfo>
</TaskList>
<RetrievedCount>1</RetrievedCount>
<Count>1</Count>
</WFGetTasksForUser_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TaskName	TaskInfo	Name of task
TaskId	TaskInfo	Id of task.
ProcessDefId	TaskInfo	ID of the Process for which the Variable value setting action is to be enabled.
WorkItemId	TaskInfo	ID of the workitem associated with activity.
AssignedBy	TaskInfo	Task assigned by which user.
Q_QueueId	TaskInfo	Queue Id.
QueueName	TaskInfo	Name of queue.
AllowDecline	TaskInfo	Allow to decline task.
AllowReassignment	TaskInfo	Allow to reassign task.
ApprovalRequired	TaskInfo	Approval required for task.
PendingForApproval	TaskInfo	Task pending for approval.
ApprovalSentBy	TaskInfo	Approval sent by which user.
ReworkFlag	TaskInfo	Flag to rewoek.
Priority	Root	Priority of the task.
ReadFlag	Root	Flag to read the tasks.

ProcessInstanceId	TaskInfo	Process Instance ID of the created Process Instance.
AssignedTo	TaskInfo	Task assigned to which user.
DueDate	TaskInfo	Due date of task.
TaskType	TaskInfo	Type of task.
SubTaskId	TaskInfo	Id of sub task.
Count	Root	It is the total no. of tasks that match the specified criteria.
RetrievedCount	Root	No. of tasks retrieved in the current batch.

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
805	0	WFS_INV_USR	Invalid User.
18	0	WM_NO_MORE_DATA	No more records.
400	--	WF_OPERATION_FAILED	Operation Failed.

WFInitiateTask

This API is used to initiate a Task by Case Manager with Property Association and Set Task Data. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFInitiateTask_Input>
<Option> WFInitiateTask</Option>
<EngineName>casemgmt</EngineName>
<SessionID>123414214
</SessionId>
<ProcessDefId>1</ProcessDefId>
<ActivityId>3</ActivityId>
<TaskId>1</TaskId>
<ProcessInstanceId>abc-0001-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<DueDate>2015-05-12  12:22:34</DueDate>
<AssignedTo>John</AssignedTo>
<Priority>2</Priority>
<TemplateId>1</TemplateId>
<TaskType>1</TaskType>
```

```
<Instruction>Task Instructions</Instruction>
<TaskInterfaces>
<Interface>
<Id>1</Id>
<Type>T</Type>
<Name>todo1</Name>
<Attribute>M</Attribute>
</Interface>
<Interface>
<Id>1</Id>
<Type>F</Type>
<Name>form1</Name>
<Attribute>V</Attribute>
</Interface>
<Interface>
<Id>1</Id>
<Type>E</Type>
<Name>excep1</Name>
<Attribute>VR</Attribute>
</Interface>
<Interface>
<Id>1</Id>
<Type>E</Type>
<Name>excep1</Name>
<Attribute>VC</Attribute>
</Interface>
</TaskInterfaces>
<TaskData>
<Data>
<TemplateVariableId>3</TemplateVariableId>
<TaskVariableName>Approverâ€™s Name</TaskVariableName>
<Value>Sajid Khan</Value>
<VariableType>10</VariableType>
</Data>
<Data>
<TemplateVariableId>2</TemplateVariableId>
<TaskVariableName>Decision By</TaskVariableName>
<Value>Sajid Khan</Value>
<VariableType>10</VariableType>
</Data>
</TaskData>
</WFInitiateTask_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFInitiateTask
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	YesIt is the logged-in user's session id.	NA
TaskId	Root	Yes	ID of the task	NA
DueDate	Root	No	Date due at task.	NA
AssignedTo	Root	Yes	Task assigned to which user.	NA
Instruction	Root	No	Instructions regarding task.	NA
Priority	Root	No	Priority on task.	NA
TaskType	Root	No	Type of task.	NA
TemplateId	Root	No	Id of the template.	NA
WebServerAddress	Root	No	Address of web server	NA
WebServerPort	Root	No	NoPort of web server	NA
ShowCaseVisual	Root	No	Flag that enables case visual.	Y -- Yes N -- No
CanInitiate	Root	No	Flag that enable task initiate.	Y -- Yes N -- No
ApprovalRequired	Root	No	Flag that tells task required approval.	Y -- Yes N -- No
AllowDecline	Root	No	Flag that allow decline task.	Y -- Yes N -- No
AllowReassignment	Root	No	Flag that allow reassignment task.	Y -- Yes N -- No
OAPWebServerAddress	Root	No	Web server address of OAP	Y -- Yes N -- No
OmniService	Root	No	Flag that enables omniservice	Y -- Yes N -- No
ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA
WorkItemId	Root	Yes	ID of the workitem belongs to workstep.	NA
ProcessDefId	Root	Yes	ID of the Process for which the Variable value setting action is to be enabled.	NA

ActivityId	Root	Yes	ID of the activity or workstep.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFInitiateTask _Output>
<Option>WFInitiateTask</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<InitiatedOn>2015-04-24 12:30:56</InitiatedOn>
</WFInitiateTask _ Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TaskName	TaskInfo	Name of task

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session.
971	0	WF_Task_Already_Initiated	Task Already Initiated.
997	0	WF_TASK_ESCALATION_FAILED_ON_INITIATE	Task escalation failed on initiation.
400	--	WF_OPERATION_FAILED	Operation Failed.
970	0	WF_TASK_EXPIRY_FAILED_ON_INITIATE	Task Expiry Failed on Initiation.
995	0	WF_TASK_DATA_NOTSAVED	Auto initiate failed.
14	0	WM_INVALID_TARGET_USER	Invalid Target User.
980	0	WF_TASK_PRECONDITION_FAILED	Task Precondition failed.
15	0	WM_INVALID_FILTER	Filter is invalid.
982	0	WF_NO_AUTHORIZATION_ON_CASE	No authorization Case.
977	0	WM_INVALID_CASE	Invalid Case.

WFRevokeTask

This API is used to revoke a particular task from the assigned user.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFRevokeTask_Input>
<Option>WFRevokeTask</Option>
<EngineName>shubh</EngineName>
<SessionID>279066105</SessionID>
<ActivityId>3</ActivityId>
<WorkItemID>1</WorkItemID>
<ProcessDefId>7</ProcessDefId>
<ProcessInstanceId>WF-0000000012-process</ProcessInstanceId>
<TaskId>1</TaskId>
</WFRevokeTask_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFRevokeTask
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
ActivityId	Root	Yes	ActivityID of CaseWorkItem of the Task that is being revoked.	NA
WorkItemID	Root	Yes	WorkItemID of the CaseWorkItem of the Task that is being revoked.	NA
ProcessDefId	Root	Yes	ProcessDefId of that particular route.	NA
TaskId	Root	Yes	TaskId of the task that is being revoked.	NA
ProcessInstanceId	Root	Yes	Process Instance ID of the Process Instance whose attributes are to be set.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFRevokeTask_Output>
<Option>WFRevokeTask</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<TaskStatus>4</TaskStatus>
<DueDate>2017-09-30 10:12:28.0</DueDate>
<ActionDateTime>2017-10-25 17:01:43</ActionDateTime>
<Turnaroundtime>0</Turnaroundtime>
</WFRevokeTask_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
TaskStatus	Root	TaskStatus – 4 for Revoked Tasks.
DueDate	Root	DueDate of the revoked task.
ActionDateTime	Root	DateTime on which task is revoked.
Turnaroundtime	Root	The expected Turn-Around Time for the caseworkitem on the workstep it lies on.

Errors and warnings:

Code	Constant value	Message
972	WF_TASK_NOT_REVOKED	Task cannot be Revoked.
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA	No more records.
400	WF_OPERATION_FAILED	Operation failed

WFReassignTask

This API is used to reassign the task to some other user . Task can be reassigned either by Case Manager or TaskInitiator.You can view the XML input and output parameters,

which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

For Case Manager or Task Initiator:

```
<WFReassignTask_Input>
<Option>WFReassignTask</Option>
<EngineName>ambujsqlcab1</EngineName>
<SessionId>-1928609775</SessionId>
<ProcessInstanceId>Case-0000000003-Demo</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ProcessDefId>15</ProcessDefId>
<ActivityId>3</ActivityId>
<TaskId>3</TaskId>
<SubTaskId>0</SubTaskId>
<TaskType>1</TaskType>
<SourceUser>shubh</SourceUser>
<TargetUser>kimil</TargetUser>
<Comments>Sample comments for Case-0000000009-Demo Case</Comments>
<DueDate>2017-07-28 15:02:03</DueDate>
<Priority>1</Priority>
<InterfaceRestriction>Y</InterfaceRestriction>
<CanInitiate>Y</CanInitiate>
<ShowCaseVisual>Y</ShowCaseVisual>
<TaskInterfaces>
<Interface>
<Id>0</Id>
<Type>F</Type>
<Name>HTMLForm</Name>
<Attribute>W</Attribute>
</Interface>
</TaskInterfaces>
<TaskData></TaskData>
<Instruction>Testing Instructions Given By Ambuj</Instruction>
<TemplateId>0</TemplateId>
<OAPWebServerAddress>OAPWebServerAddress</OAPWebServerAddress>
<WebServerAddress>WebServerAddress</WebServerAddress>
</WFReassignTask_Input>
```

For other users:

```
<?xml version="1.0"?>
<WFReassignTask_Input>
<Option>WFReassignTask</Option>
<EngineName>ambujsqlcab1</EngineName>
<SessionId>-1928609775</SessionId>
<ProcessInstanceId>Case-0000000003-Demo</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ProcessDefId>15</ProcessDefId>
<ActivityId>3</ActivityId>
<TaskId>3</TaskId>
<SubTaskId>0</SubTaskId>
<TaskType>1</TaskType>
<SourceUser>shubh</SourceUser>
<TargetUser>kimil</TargetUser>
<Comments>Sample comments for Case-0000000009-Demo Case</Comments>
<OAPWebServerAddress>OAPWebServerAddress</OAPWebServerAddress>
<WebServerAddress>WebServerAddress</WebServerAddress>
</WFReassignTask_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name	WFReassignTask
EngineName	Root	Yes	This is the Name of the cabinet	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceId	Root	No	ID of the Process Instance corresponding to the workitem associated with the case and task	NA
WorkitemId	Root	No	ID of the workitem associated with the case and task	NA
ProcessDefId*	Root	Yes	Id of the process in which the task has been defined	NA
ActivityId*	Root	Yes	Id of the activity at which the action has been asssociated	NA

TaskId	Root	No	New task id added by the API call	NA
SubTaskId	Root	No	New subtask id added by the API call	NA
TaskType	Root	No	Task Type	1 – Generic
SourceUser	Root	No	User name of the user which has been currently assigned the task	NA
TargetUser	Root	No	User name of the user which is the new assignee	NA
Comments	Root	No	Comment to validate the reason for this reassignment of the task	NA
WebServerAddress	Root	No	Web server address	NA
WebServerPort	Root	No	Web server port	NA
DueDate	Root	No	Due date of the task	NA
Priority	Root		Priority of the task	NA
InterfaceRestriction	Root	No	Interface restriction flag	Y or N
CanInitiate	Root	No	Flag to indicate whether the user to whom task is being assigned can initiate task or not	Y or N
ShowCaseVisual	Root	No	Flag to indicate whether to show case visualisation or not to user to whom task is being assigned	Y or N
Interface	TaskInterfaces	No	Parent tag for interfaces	NA
Id	Interface	No	Id of the interface	NA
Type	Interface	No	Type of the interface	F – Form T – Todo D – Document
Name	Interface	No	Interface name	NA

Attribute	Interface	No	Interface attribute	For Exception Interface VR – Exception raised VC – Exception cleared VN – Exception view For Document Interface V – Document view B – Document view and perform scan action T – Document view, modify and perform scan action A – Document not viewable/ modifiable, only scan action can be performed For Todo interface M – To Do modifiable V – To Do view only For Form Interface W – Form editable
Data	TaskData	No	Parent tag for all the TaskData	NA
TaskVariableName	Data	No	Variable name for the task	NA
Value	Data	No	Value of the variable	NA
TemplateVariableId	Data	No	ID of the variable in the template	NA

VariableType	Data	Yes	Type of the variable	3 – INT 4- LONG 6 – FLOAT 8 – DATE 10 – TEXT
Instruction	Root	No	Instructions for the task	NA
TemplateId	Root	No	ID of the template	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFReassignTask_Output>
<OptionWFReassignTask
</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFReassignTask_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

Errors and warnings:

Main code	Constant value	Message
15	WM_INVALID_FILTER	Invalid filter
801	WFS_SQL	SQL error
400	WF_OPERATION_FAILED	Operation failed
802	WFS_INVALID_SESSION_HANDLE	Session expired
803	WFS_SYS	System error
18	WF_NO_AUTHORIZATION_ON_TASK	User is not authorized to reassign the task to other users.
991	WF_TASK_LOCKED	Task is being worked upon by some other user and it cannot be reassigned.
14	WM_INVALID_TARGET_USER	Target user who is being assigned the task is same as the present user who is assigned the task.
970	WF_TASK_DATA_NOTSAVED	Task level data is not saved to DB.
50058	WF_ERR_TARGET_USER_NOT_EXIST	Target user who is being assigned the task does not exists.

WFDeclineTask

API 'WFDeclineTask'is introduced to provide feature for the user to whom the task is assigned to decline a task along with the comments that he will not be able to work on the task.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFDeclineTask_Input>
<Option>WFDeclineTask</Option>
<EngineName>ambujsqlcab1</EngineName>
<SessionID>282266167</SessionID>
<WebServerAddress>http://localhost:8080</WebServerAddress>
<RejectionComments>Not able to work due to some other tasks-New.</
RejectionComments>
<OAPWebServerAddress>http://localhost:8080</OAPWebServerAddress>
<TaskList>
<TaskInfo>
```

```
<ActivityId>3</ActivityId>
<WorkItemID>1</WorkItemID>
<ProcessDefId>8</ProcessDefId>
<ProcessInstanceId>CaseAgain-0000000007-process</ProcessInstanceId>
<TaskId>9</TaskId>
</TaskInfo>
<TaskInfo>
<ActivityId>3</ActivityId>
<WorkItemID>1</WorkItemID>
<ProcessDefId>8</ProcessDefId>
<ProcessInstanceId>CaseAgain-0000000007-process</ProcessInstanceId>
<TaskId>10</TaskId>
</TaskInfo>
</TaskList>
</WFDeclineTask_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFDeclineTask
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
WebServerAddress	Root	No	Server location to create the URL provided in the generated email.	NA
OAPWebServerAddress	Root	No	Server location to create the URL provided in the generated email.	NA
RejectionComments	Root	No	Rejection comments entered by the user while declining the tasks.	NA
TaskList	Root	No	Contains information of the all tasks that are going to be declined.	NA
TaskInfo	TaskList	No	Contains information related to a particular task.	NA
ActivityId	TaskInfo	Yes	ActivityID of CaseWorkItem of the Task that is being revoked.	NA
WorkItemID	TaskInfo	Yes	WorkItemID of the CaseWorkItem of the Task that is being revoked.	NA

ProcessDefId	TaskInfo	Yes	ProcessDefId of that particular route.	NA
TaskId	TaskInfo	Yes	TaskId of the task that is being revoked.	NA
ProcessInstanceId	TaskInfo	Yes	Process Instance ID of the Process Instance whose attributes are to be set.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFDeclineTask_Output>
<Option>WFDeclineTask</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<DeclinedTask>
<TaskId>9</TaskId>
<TaskStatus>5</TaskStatus>
<DueDate>2017-07-20 14:08:28.0</DueDate>
<ActionDateTime>2017-07-11 15:07:46</ActionDateTime>
<Turnaroundtime>0</Turnaroundtime>
</DeclinedTask>
<DeclinedTask>
<TaskId>10</TaskId>
<TaskStatus>5</TaskStatus>
<DueDate>2017-07-20 14:08:40.0</DueDate>
<ActionDateTime>2017-07-11 15:07:46</ActionDateTime>
<Turnaroundtime>0</Turnaroundtime>
</DeclinedTask>
</WFDeclineTask_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
Declined Task	Root	Contains information of all the declined tasks.
TaskStatus	Declined Task	TaskStatus – 5 for declined Tasks.
DueDate	Declined Task	DueDate of the declined task.
ActionDateTime	Declined Task	DateTime on which task is declined.
Turnaroundtime	Declined Task	The expected Turn-Around Time for the caseworkitem on the workstep it lies on.

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Errors and warnings:

Code	Constant value	Message
990	WF_TASK_NOT_DECLINED	Task cannot be Declined.
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA	No more records.
400	WF_OPERATION_FAILED	Operation failed

300	WF_NO_AUTHORIZATION	No Authorization.

WFChangeTaskReadStatus

This API is used to read the status of task. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0"?>
<WFChangeTaskReadStatus_Input>
<Option>WFChangeTaskReadStatus</Option>
<SessionId>2002069121</SessionId>
<EngineName>arabic3</EngineName>
<TaskList>N</TaskList>
<ActivityId>1</ActivityId>
<WorkItemId>1</WorkItemId>
<ProcessInstanceId>Junit-000000000-process</ProcessInstanceId>
<ProcessDefId>1</ProcessDefId>
<taskId>1</taskId>
<SubTaskId>1</SubTaskId>
</WFChangeTaskReadStatus_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFChangeTaskReadStatus
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
TaskList	Root	Yes	It refers to the flag that enabled the task list.	Y/N
ActivityId	Root	No	Id of the activity or the workstep in the process.	NA
ProcessDefId	Root	No	Id of the Process for which the Variable value setting action is to be enabled.	NA

WorkItemId	Root	No	Id of the workitem in the process.	NA
ProcessInstanceId	Root	No	Comma separated list of variables whose value setting action is to be logged.	NA
taskId	Root	No	Id of the task.	NA
SubTaskId	Root	No	Id of the sub task.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0"?>
<WFChangeTaskReadStatus_Output>
<Option>WFChangeTaskReadStatus</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFChangeTaskReadStatus_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name
MainCode	Exception	Error code specified by WAPI.

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	WM_INVALID_SESSION_HANDLE	Invalid session
300	0	WM_NO_AUTHORIZATION	No Authorization
15	801	WM_INVALID_FILTER	Filter specified is invalid
400	--	WF_OPERATION_FAILED	Operation failed

WFCompleteTask

This API is used to complete the task (or tasks). To update the task priority, required input parameters are as follows:

Sample request:

```
<WFCompleteTask_Input>
<Option>WFCompleteTask</Option>
<EngineName>ora19sept17</EngineName>
<SessionId>1150158042</SessionId>
<WebServerAddress>http://192.168.38.51:8080</WebServerAddress>
<OAPWebServerAddress>http://192.168.38.51:8080</OAPWebServerAddress>
<TaskList>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000002-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>7</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000002-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>106</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000002-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>112</TaskId>
<SubTaskId>1</SubTaskId>
</TaskInfo>
```

```
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000002-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>111</TaskId>
<SubTaskId>1</SubTaskId>
</TaskInfo>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000005-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>7</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000005-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>8</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
</TaskList>
</WFCompleteTask_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFAddTask
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
WebServerAddress	Root	No	This is the url of the page which will be opened to ask for the user credentials.	NA
OAPWebServerAddress	Root	No	This is the url on which the user will be redirected after clicking the link in Notification email.	NA
ProcessInstanceId	TaskInfo	Yes	ID of the Process Instance corresponding to the workitem associated with the case and task.	NA
ProcessDefId	TaskInfo	Yes	Process id for the process associated with the case and task	NA

ActivityId	TaskInfo	Yes	The id of activity on which workitem containing the task is present	NA
WorkItemID	TaskInfo	Yes	ID of the workitem associated with the case and task.	NA
TaskId	TaskInfo	No	TaskId of the task for which the priority has to be updated.	NA
SubTaskId	TaskInfo	No	SubTaskId of the task for which the priority has to be updated.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFCompleteTask_Output>
<Option>WFCompleteTask</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFCompleteTask_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

Errors and warnings:

Code	Constant value	Message
18	WM_NO_MORE_DATA	No more data
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	Invalid filter
400	WF_OPERATION_FAILED	Operation failed

WFHandleEvent

This API is used to add, update or delete an event. EventDetails tag contains the details of event. GuestsList contains the list of guests invited for Event. Email will be sent to them in case User details contain email information. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFHandleEvent_Input>
<Option>WFHandleEvent</Option>
<EngineName>hemant15sept</EngineName>
<SessionId>-1265025400</SessionId>
<CreatedByUserId>divyanshu</CreatedByUserId>
<UserId>23</UserId>
<EventDeatils>
<EventName>Meeting</EventName>
<EventDescription>Meeting for requirements discussion</EventDescription>
<StartDate>2016-10-26</StartDate>
<EndDate>2016-10-26</EndDate>
<StartTime>09:00 am</StartTime>
<EndTime>06:30 pm</EndTime>
<FullDayEvent>N</FullDayEvent>
<ReminderType>0</ReminderType>
<ReminderTimeType>2</ReminderTimeType>
<ReminderTime>20</ReminderTime>
<RepeatEvent>N</RepeatEvent>
<GuestsList>
<GuestName>hemant</GuestName>
</GuestsList>
<EventSummary>
Meeting(Meeting for requirements discussion) starts on 26/Oct/2016 at 09:00 am and
end on 26/Oct/2016 at 06:30 pm.</EventSummary>
</EventDeatils>
</WFHandleEvent_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFHandleEvent
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
CreatedByUserId	Root	No	Valid User Name of the creator of the event.	NA
UserId	Root	No	User index of the creator user.	NA
EventDeatils	Root	No	Tag containing all the details of the events.	NA
EventName	EventDeatils	No	Name of the event.	NA
EventDescription	EventDeatils	No	Description of the event.	NA
StartDate	EventDeatils	No	Event start date in format yyyy-mm-dd.	NA
EndDate	EventDeatils	No	Event end date in format yyyy-mm-dd.	NA
StartTime	EventDeatils	No	Event start time in format hh:mm am/pm	NA
EndTime	EventDeatils	No	Event end time in format hh:mm am/pm	For an example "text/html"
FullDayEvent	EventDeatils	No	If event is a full day event or not.	Y – Yes N - No
ReminderType	EventDeatils	No	ReminderType	NA
ReminderTimeType	EventDeatils	No	ReminderTimeType	NA
ReminderTime	EventDeatils	No	ReminderTime	NA
RepeatEvent	EventDeatils	No	Flag on whether to repeat the event or not	Y or N
GuestsList	EventDeatils	No	Name of the guest invited for the event	NA
GuestName	GuestsList	No	Name of the guest invited for the event	NA

EventSummary	EventDeatils	No	Summary of the event	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFHandleEvent_Output>
<Option>WFHandleEvent</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<EventId>1</EventId>
</WFHandleEvent_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
EventId	Root	ID of the event
MainCode	Exception	Error code specified by WAPI.

Errors and warnings:

Code	Constant value	Message
300	WF_NO AUTHORIZATION	No Authorization
400	Wf_OPERATION_FAILED	Operation Failed

11	WM_INVALID_SESSION_HANDLE	Invalid session

WFGetMonthEvents

This API is used to get the event details for a user in particular month of the year. You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetMonthEvents_Input>
<Option>WFGetMonthEvents</Option>
<EngineName>shubh</EngineName>
<SessionId>-382812514</SessionId>
<UserId>6</UserId>
<CreatedBy>shubh</CreatedBy>
<Month>11</Month>
<Year>2017</Year>
</WFGetMonthEvents_Input>
<EndTime>06:30 pm</EndTime>
<FullDayEvent>N</FullDayEvent>
<ReminderType>0</ReminderType>
<ReminderTimeType>2</ReminderTimeType>
<ReminderTime>20</ReminderTime>
<RepeatEvent>N</RepeatEvent>
<GuestsList>
<GuestName>hemant</GuestName>
</GuestsList>
<EventSummary>Meeting(Meeting for requirements discussion) starts on 26/Oct/2016
at 09:00 am and end on 26/Oct/2016 at 06:30 pm. </
EventSummary>undefinedundefined</EventDeatils>undefinedundefined</
WFHandleEvent_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetMonthEvents
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
UserId	Root	No	Valid User index of the creator user.	NA
CreatedBy	Root	No	User id of the creator user.	NA

Month	Root	No	Month value (ex. 11 for month November)	NA
Year	Root	No	Year's value (ex. 2017)	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetMonthEvents_Output>
<Option>WFGetMonthEvents</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<EventData>
<Events>
<EventId>1</EventId>
<EventName>Ambuj Birthday</EventName>
<Description>Ambuj Birthday</Description>
<StartTime>8:30 am</StartTime>
<EndTime>6:30 pm</EndTime>
<StartDate>2017-11-21</StartDate>
<EndDate>2017-11-23</EndDate>
<EventRecursive>N</EventRecursive>
<FullDayEvent>Y</FullDayEvent>
<EventSummary>Ambuj Birthday(Ambuj Birthday) starts on 21/Nov/2017 at 08:30 am and
end on 23/Nov/2017 at 06:30 pm.</EventSummary>
<UserId>6</UserId>
<ParticipantName>,kimil,shubh,</ParticipantName>
<ReminderDismissed>N</ReminderDismissed>
<ReminderType>0</ReminderType>
<ReminderTimeType>2</ReminderTimeType>
<CreatedBy>shubh</CreatedBy>
```

```
<ReminderTime>20</ReminderTime>
</Events>
</EventData>
<MonthData>
<Month>11</Month>
<Year>2017</Year>
<Date>
<EventDate>21</EventDate>
<Events>
<EventId>1</EventId>
</Events>
<EventCount>1</EventCount>
</Date>
<Date>
<EventDate>22</EventDate>
<Events>
<EventId>1</EventId>
</Events>
<EventCount>1</EventCount>
</Date>
<Date>
<EventDate>23</EventDate>
<Events>
<EventId>1</EventId>
</Events>
<EventCount>1</EventCount>
</Date>
</MonthData>
</WFGetMonthEvents_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	Valid User Name of the creator of the event.
Exception	Root	Contains main code details and description of the output.
MainCode	Exception	Value of output return code.
EventData	Root	Tag containing all the details of the events.
Events	EventData	containing all the details of a particular event.
EventId	Events	EventId
EventName	Events	Name of the event.
Description	Events	Description of the event.
StartDate	Events	Event start date in format yyyy-mm-dd.
EndDate	Events	Event end date in format yyyy-mm-dd.
StartTime	Events	Event start time in format hh:mm am/pm

EndTime	Events	Event end time in format hh:mm am/pm
FullDayEvent	Events	If event is a full day event or not.
ReminderType	Events	ReminderType
ReminderTimeType	Events	ReminderTimeType
ReminderTime	Events	ReminderTime
EventRecursive	Events	Flag on whether to repeat the event or not
ParticipantName	Events	UserName of the guest invited for the event
ReminderDismissed	Events	If the Reminder is Dismissed or not
EventSummary	Events	Summary of the event
Created By	Events	Event creator
MonthData	Root	Contains date wise event details.
Month	MonthData	Month
Year	MonthData	Year
Date	MonthData	Details of Event coming for the particular date
EventDate	Date	date
Events	Date	Contains event id coming for the date.
EventId	Events	Event Id.
EventCount	Date	Total event count for the particular date.

Errors and warnings:

Code	Constant value	Message
300	WF_NO AUTHORIZATION	No Authorization
400	Wf_OPERATION_FAILED	Operation Failed
11	WM_INVALID_SESSION_HANDLE	Invalid session.
15	WM_INVALID_FILTER	Requested filter invalid.

WFFetchCaseWorkItems

This call returns the list of Case WorkItems for MyCases. It returns the list in batches the size of which can be specified in the input XML. Hence, the programmer using this API must call it in a loop until the call returns the error exception WM_NO_MORE_DATA. This indicates that the entire list of workitems that meet the specified criteria has been returned.

You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFFetchCaseWorkItems_Input>
<Option>WFFetchCaseWorkItems</Option>
<EngineName>shubh</EngineName>
<SessionId>1650931646</SessionId>
<SearchPrefix />
<SearchCriteria>1</SearchCriteria>
<Filter>
<Owned>A</Owned>
<OverDue>N</OverDue>
</Filter>
<BatchInfo>
<NoOfRecordsToFetch>20</NoOfRecordsToFetch>
<OrderBy>18</OrderBy>
<SortOrder>A</SortOrder>
<LastValue />
<LastProcessInstance />
<LastWorkItem />
</BatchInfo>
<usestdparser>N</usestdparser>
</WFFetchCaseWorkItems_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFFetchCaseWorkItems
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA

BatchInfo	Root	No	Contains batch details	NA
OrderBy	BatchInfo	No	It is an integer value indicating the order by field based on which the returned workitem list is to be sorted. The returned list of workitems can be sorted on fields like Priority, Activity Name, Locked By, and more. The list can also be sorted on the Mapped Process Variables/ Aliases, for which the values to be specified starts from 101.	1 - PriorityLevel 2 - ProcessInstanceId 3 - ActivityName 4 - LockedByName 5 - IntroducedBy 6 - InstrumentStatus 7 -CheckListCompleteFlag 8 - LockStatus 9 - WorkitemState 10 - EntryDateTime 11 - ValidTill 12 - LockedTime 13 - IntroductionDateTime 17 - Status 18 - CreatedDateTime Above 100 – Alias Basically, you need to keep adding 100 to the order in which the Aliases are returned for the Queue. For example, if the 1st Alias returned is LoanAmount, 2nd is LoanType, then to sort on Loan Amount, specify 101. Similarly to sort on LoanType specify 102, and so on.
SortOrder	BatchInfo	No	This is the order in which the workitems are to be sorted, on the Order By Field.	A – Ascending D – Descending If no value is specified for this Tag, the system defaults it to D.
NoOfRecordsToFetch	BatchInfo	No	This is the batch size information in terms of the no. of workitems to be fetched per batch.	NA

LastWorkItem	BatchInfo	No	This is the Workitem ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastValue	BatchInfo	No	It is the value of the Sort Order By field for the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
LastProcessInstance	BatchInfo	No	This is the Process Instance ID of the last workitem fetched in the previous batch. This tag need not be specified while fetching the 1st batch.	NA
DataFlag	Root	No	This flag indicates whether the workitem data is to be returned or not.	Y – Yes, return Workitem Data also. N – No, do not return Workitem Data.

Owned	Filter	No	Need to show all workItem in which user is case manager or case worker, or need to show only where user is case manger or only case worker workitems	A – All workItems Y – Only Case Manger N – Case Worker
OverDue	Filter	No	If need to show overdue cases or not	Y or N
SearchCriteria	Root	No	Searched by case Id or Case Name	1 – Case ID, 2 – Case Name
SearchPrefix	Root	No	Value for searching	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFFetchCaseWorkItems_Output>
<Option>WFFetchCaseWorkItems</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<Instruments>
```

```
<Instrument>
<ProcessInstanceId>demo2-0000000002-process</ProcessInstanceId>
<WorkItemName>demo2-0000000002-process</WorkItemName>
<RouteId>8</RouteId>
<RouteName>demo_1</RouteName>
<WorkStageId>4</WorkStageId>
<ActivityName>Case Workdesk_4</ActivityName>
<PriorityLevel>1</PriorityLevel>
<InstrumentStatus>N</InstrumentStatus>
<LockStatus>N</LockStatus>
<CreatedByUserName>shubh</CreatedByUserName>
<CreatedByPersonalName>Shubhankur</CreatedByPersonalName>
<CreationDateTime>2017-09-26 15:35:27.83</CreationDateTime>
<WorkitemState>RUNNING</WorkitemState>
<CheckListCompleteFlag>N</CheckListCompleteFlag>
<EntryDateTime>2017-09-26 15:36:26.77</EntryDateTime>
<IntroductionDateTime>2017-09-26 15:35:31.907</IntroductionDateTime>
<IntroducedBy>shubh</IntroducedBy>
<IntroducedByPersonalName>Shubhankur</IntroducedByPersonalName>
<AssignedTo>test</AssignedTo>
<AssignedToPersonalName>test</AssignedToPersonalName>
<WorkItemId>1</WorkItemId>
<QueueName>shubh's MyQueue</QueueName>
<AssignmentType>F</AssignmentType>
<ProcessInstanceState>2</ProcessInstanceState>
<QueueType>U</QueueType>
<QueueId>0</QueueId>
<Q_DivertedByUserId>6</Q_DivertedByUserId>
<ActivityType>32</ActivityType>
<CanInitiate>Y</CanInitiate>
<CaseManager>N</CaseManager>
<ShowCaseVisual>Y</ShowCaseVisual>
<ProcessedBy>shubh</ProcessedBy>
<ProcessedByPersonalName>Shubhankur</ProcessedByPersonalName>
<CaseVariables />
</Instrument>
</Instruments>
<RetrievedCount>3</RetrievedCount>
<Count>3</Count>
</WFFetchCaseWorkItems_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ProcessInstanceId	Instrument	The Process Instance ID of the workitem fetched.
WorkitemName	Instrument	The Name of the workitem fetched.
RouteId	Instrument	The ID of the Process to which the fetched workitem belongs.

RouteName	Instrument	The Name of the Process to which the fetched workitem belongs.
WorkStageId	Instrument	The ID of the Activity on which the workitem currently lies.
ActivityName	Instrument	The Name of the Activity on which the workitem currently lies.
PriorityLevel	Instrument	The Priority Level of the workitem fetched. 1 – Low 2 – Medium 3 – High 4 – Very High
InstrumentStatus	Instrument	Exception Status of the workitem fetched. E – In Exception N – No Exception raised
LockStatus	Instrument	Lock Status of the workitem fetched. Yes – Locked No – Unlocked
LockedByUserName	Instrument	Name of the User who has locked the workitem.
ExpiryDateTime	Instrument	Expiry Date and Time of the workitem fetched.
CreatedByUserName	Instrument	userName who created the workitem.
CreatedByPersonalName	Instrument	Name of the user who created the workitem.
CreationDateTime	Instrument	Date and Time of creation of the workitem.
WorkitemState	Instrument	State of the workitem fetched 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
CheckListCompleteFlag	Instrument	This indicates if all the To-Do Items defined in the process have been worked upon/completed for the workitem. Y – Complete N – Incomplete

EntryDateTime	Instrument	This is the Date and Time at which the workitem entered the activity on which it currently lies.
LockedTime	Instrument	This is the Date and Time at which the workitem was locked by the user.
IntroductionDateTime	Instrument	This is the Date and Time at which the workitem was introduced/started in the process.
IntroducedBy	Instrument	UserName who introduced the workitem.
IntroducedByPersonalName	Instrument	Name of the user who introduced the workitem.
AssignedTo	Instrument	UserName to whom the workitem is currently assigned.
AssignedToPersonalName	Instrument	Name of the user to whom the workitem is currently assigned.
WorkitemID	Instrument	The ID of the workitem fetched.
QueueName	Instrument	Name of the Queue to which the workitem belongs.
AssignmentType	Instrument	Current Assignment Type for the workitem S – Shared F – Fixed E – Referred
ProcessInstanceState	Instrument	The state of the Process Instance corresponding to the workitem. 1 – Not Started 2 – Running 3 – Suspended 4 – Terminated 5 – Aborted 6 – Completed
QueueType	Instrument	The Type of the Queue in which the workitem currently lies. I – Introduction F – FIFO D – (WIP) Dynamic N – (WIP) No Assignment S – (WIP) Permanent
Status	Instrument	The value of the System Modifiable Status variable.
QueueId	Instrument	ID of the Queue to which the workitem belongs.

Turnaroundtime	Instrument	The expected Turn-Around Time for the workitem on the workstep it lies on.
Referredby	Instrument	Name of the user who referred the workitem.
Referredto	Instrument	Name of the user to whom the workitem has been referred to.
Q_DivertedByUserId	Instrument	UserId of the person who diverted the case.
ActivityType	Instrument	ActivityType
CanInitiate	Instrument	If user can initiate the case or not
CaseManager	Instrument	If the user is case manager or not.
ShowCaseVisual	Instrument	If need to show case visual.
ProcessedBy	Instrument	UserName of the person who processed the case.
ProcessedByPersonalName	Instrument	Name of the person who processed the case.
CaseVariables	Instrument	Contains list of case variables.
RetrievedCount	Root	No. of workitems retrieved in the current Call. This is dependent on the batch size indicated in the input XML
Count	Root	The total No. of workitems that actually meet the specified criteria.

Errors and warnings:

Code	Constant value	Message
15	WM_INVALID_FILTER	Invalid Filter
11	WM_INVALID_SESSION_HANDLE	Invalid session
18	WM_NO_MORE_DATA.	No more records
400	WF_OPERATION_FAILED	Operation failed

WFChangeTaskPriorityStatus

This API is used to update the priority of a task (or list of tasks). To update the task priority, required input parameters are as follows:

Sample request:

```
<?xml version="1.0"?>
<WFChangeTaskPriorityStatus_Input>
<Option>WFChangeTaskPriorityStatus</Option>
<EngineName>ora19sept17</EngineName>
<SessionId>1150158042</SessionId>
<TaskList>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000019-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>7</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000028-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>7</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000027-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>7</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
<TaskInfo>
<ProcessInstanceId>WFmayankcasprocess-0000000026-process</ProcessInstanceId>
<ProcessDefId>3</ProcessDefId>
<ActivityId>4</ActivityId>
<WorkItemId>1</WorkItemId>
<TaskId>7</TaskId>
<SubTaskId>0</SubTaskId>
</TaskInfo>
</TaskList>
<Priority>2</Priority>
</WFChangeTaskPriorityStatus_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFAddTask
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID*	Root	Yes	It is the logged-in user's session id	NA
WebServerAddress	Root	No	This is the url of the page which will be opened to ask for the user credentials.	NA
OAPWebServerAddress	Root	No	This is the url on which the user will be redirected after clicking the link in Notification email.	NA
ProcessInstanceId*	TaskInfo	No	ID of the Process Instance corresponding to the workitem associated with the case and task.	NA
ProcessDefId	TaskInfo	Yes	Process id for the process associated with the case and task	NA
ActivityId	TaskInfo	Yes	The id of activity on which workitem containing the task is present	NA
WorkItemID	TaskInfo	Yes	ID of the workitem associated with the case and task.	NA
TaskId	TaskInfo	No	TaskId of the task for which the priority has to be updated.	NA
SubTaskId	TaskInfo	No	SubTaskId of the task for which the priority has to be updated.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFChangeTaskPriorityStatus_Output>
<Option>WFChangeTaskPriorityStatus</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
</WFChangeTaskPriorityStatus_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.

Errors and warnings:

Main code	Constant value	Message
18	WM_NO_MORE_DATA	No more data
11	WM_INVALID_SESSION_HANDLE	Invalid session handle
15	WM_INVALID_FILTER	Invalid filter
400	WF_OPERATION_FAILED	Operation failed

WFGetTaskHistory

This API is used to fetch Task History for TaskStaus Window and Gant Chart Window You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFGetTaskHistory_Input>
<Option>WFGetTaskHistory</Option>
<EngineName>ibps2feb2022nik</EngineName>
<SessionID>1543025088</SessionID>
<ProcessDefId>8</ProcessDefId>
<ProcessInstanceId>MileStone-0000000001-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<FetchFutureActivities>Y</FetchFutureActivities>
</WFGetTaskHistory_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGetTaskHistory
EngineName	Root	Yes	This is the Name of the cabinet.	NA

SessionID	Root	Yes	It is the logged-in user's session id.	NA
TaskId	Root	No	ID of the task.	NA
SubTaskId	Root	No	ID of the subtask associated with task.	NA
FetchFutureActivities	Root	No	Flag that enables to fetch future activities on task.	Y -- Yes N -- No
ProcessInstanceId	Root	Yes	Process Instance ID to which the Activity Instance belongs.	NA
WorkItemId	Root	Yes	ID of the workitem belongs to workstep.	NA
ProcessDefId	Root	Yes	ID of the Process for which the Variable value setting action is to be enabled.	NA
ActivityId	Root	Yes	ID of the activity or workstep.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFGetTaskHistory_Output>
<Option>WFGetTaskHistory</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
```

```
<History>
<HistoryInfo>
<ActionId>1</ActionId>
<ActivityId>1</ActivityId>
<ActivityName>Start Event_1</ActivityName>
<ActionDateTime>2022-04-13 15:21:55</ActionDateTime>
<UserName>padmin</UserName>
<FieldId>26</FieldId>
<MileStoneId>1</MileStoneId>
<MileStoneName>MileStone_1</MileStoneName>
</HistoryInfo>
<HistoryInfo>
<ActionId>2</ActionId>
<ActivityId>1</ActivityId>
<ActivityName>Start Event_1</ActivityName>
<ActionDateTime>2022-04-13 15:46:35</ActionDateTime>
<UserName>padmin</UserName>
<FieldId>0</FieldId>
<MileStoneId>1</MileStoneId>
<MileStoneName>MileStone_1</MileStoneName>
</HistoryInfo>
<HistoryInfo>
<ActionId>4</ActionId>
<ActivityId>1</ActivityId>
<ActivityName>Start Event_1</ActivityName>
<ActionDateTime>2022-04-13 15:47:13</ActionDateTime>
<UserName>System</UserName>
<FieldId>2</FieldId>
<FieldName>Workdesk_2</FieldName>
<MileStoneId>1</MileStoneId>
<MileStoneName>MileStone_1</MileStoneName>
</HistoryInfo>
<HistoryInfo>
<ActionId>27</ActionId>
<ActivityId>2</ActivityId>
<ActivityName>Workdesk_2</ActivityName>
<ActionDateTime>2022-04-13 15:48:34</ActionDateTime>
<UserName>padmin</UserName>
<FieldId>0</FieldId>
<MileStoneId>1</MileStoneId>
<MileStoneName>MileStone_1</MileStoneName>
</HistoryInfo>
<HistoryInfo>
<ActionId>4</ActionId>
<ActivityId>2</ActivityId>
<ActivityName>Workdesk_2</ActivityName>
<ActionDateTime>2022-04-13 15:48:36</ActionDateTime>
<UserName>System</UserName>
<FieldId>3</FieldId>
<FieldName>Workdesk_3</FieldName>
<MileStoneId>1</MileStoneId>
<MileStoneName>MileStone_1</MileStoneName>
</HistoryInfo>
<HistoryInfo>
<ActionId>27</ActionId>
<ActivityId>3</ActivityId>
<ActivityName>Workdesk_3</ActivityName>
```

```
<ActionDateTime>2022-04-13 15:49:32</ActionDateTime>
<UserName>padmin</UserName>
<FieldId>0</FieldId>
<MileStoneId>2</MileStoneId>
<MileStoneName>MileStone_2</MileStoneName>
</HistoryInfo>
<HistoryInfo>
<ActionId>4</ActionId>
<ActivityId>3</ActivityId>
<ActivityName>Workdesk_3</ActivityName>
<ActionDateTime>2022-04-13 15:49:36</ActionDateTime>
<UserName>System</UserName>
<FieldId>4</FieldId>
<FieldName>Case Workdesk_4</FieldName>
<MileStoneId>2</MileStoneId>
<MileStoneName>MileStone_2</MileStoneName>
</HistoryInfo>
<SubProcess></SubProcess>
</History>
<FutureActivities></FutureActivities>
</WFGetTaskHistory_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
ActivityId	FutureActivity	Id of the furture activity.
ActivityName	FutureActivity	Name of the furture activity.
ActivityType	FutureActivity	Type of the furture activity. 1 - Work Introduction 2 - Work Exit 3 - Discard 4 - Hold 5 - Distribute 6 - Collect 7 - Decision 18 - SubProcess 10 - Custom 19 – Integration 11 - Query
TaskId	UniniatedTask	ID of uninitiated Task.
TaskName	UniniatedTask	Name of uninitiated Task.

TaskId	CompletedTask	ID of the completed task.
SubTaskId	CompletedTask	ID of the completed sub task.
DueDate	CompletedTask	Due date of the completed task.
CompletedDateTime	CompletedTask	Date time of the completed task.
TaskId	InitiatedTask	ID of the initiated task.
SubTaskId	InitiatedTask	ID of the initiated sub task.
DueDate	InitiatedTask	Due date of the initiated task.
InitiatedOn	InitiatedTask	Task Initated date time.
ActionId	HistoryInfo	Id of the action performed 701 -- Task initiated 702 -- Task Complete 703 -- Task Revoked 704 -- Task added 705 -- Task data set 706 -- Task data has been set
SubTaskId	HistoryInfo	ID of the completed sub task.
ActionDateTime	HistoryInfo	Date time of action.
AssignedByUser	HistoryInfo	Task assigned by which user.
Comments	HistoryInfo	Comments before action.
AssignedToUser	HistoryInfo	Task assigned by which user.
ActivityId	HistoryInfo	ID of the activity.
ActivityName	HistoryInfo	Name of the activity.
UserName	HistoryInfo	Name of the user.
FieldId	HistoryInfo	Id of the field.
FieldName	HistoryInfo	Name of the field.
MileStoneId	HistoryInfo	Id of the milestone
MileStoneName	HistoryInfo	Name of the milestone

Errors and warnings:

Code	Constant value	Message

11	0	WM_INVALID_SESSION_HANDLE
18	0	WM_NO_MORE_DATA
400	--	WF_OPERATION_FAILED
15	0	WM_INVALID_FILTER

WFGenerateCaseSummaryReport

This API is used to generate Case Summary Document .You can view the XML input and output parameters, which have to be passed to the API. There is a list of errors and warnings that can occur in the execution.

Sample request:

```
<WFGenerateCaseSummaryReport_Input>
<Option>WFGenerateCaseSummaryReport</Option>
<EngineName>ibps5oct</EngineName>
<SessionId>631847051</SessionId>
<ProcessInstanceId>new_2-0000000016-process</ProcessInstanceId>
<ProcessDefID>24</ProcessDefID>
<WorkItemId>1</WorkItemId>
<ActivityId>3</ActivityId>
<DocumentPath>wdtemp\1510148667938</DocumentPath>
</WFGenerateCaseSummaryReport_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive call name.	WFGenerateCaseSummaryReport
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id	NA
ProcessInstanceId	Root	Yes	ID of the Process Instance corresponding to the workitem associated with the case and task.	NA

WorkItemID	Root	Yes	ID of the workitem associated with the case and task.	NA
ProcessDefId	Root	Yes	Process id for the process associated with the case and task	NA
ActivityId	Root	Yes	The id assigned to a specific activity in the process	NA
DocumentPath	Root	Yes	Absolute or relative location where Case summary document will be saved	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFGenerateCaseSummaryReport_Output>
<Option>WFGenerateCaseSummaryReport</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<FileName>CaseSummaryDoc_24_3_16.pdf</FileName>
</WFGenerateCaseSummaryReport_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
MainCode	Exception	Error code specified by WAPI.
FileName	Root	Name of the file generated at the specified location in input

Errors and warnings:

Code	Constant value	Message
11	WM_INVALID_SESSION_HANDLE	Invalid session
400	WF_OPERATION_FAILED	The requested operation failed.

MigrateProcess

Overview:

The objective of this document is to explain the features and functionalities of the API, exposed from Process Designer for automating process migration from UAT to Production server. The idea of introducing this API is to reduce the manual intervention during setting up the production environment post UAT.

Business Use Case:

In present scenario, when user wants to setup process from UAT to Production server, he exports process from Process designer UI and import the same at production using the Process designer UI. There are two problems faced by user in above existing functionality:

- Few process related artifacts are not exported like queue variable mapping and more.
- User has to perform export and import on UI and hence user cannot automate through scripts

In order to resolve above mentioned two problems, a new API will be exposed which will be migrated the all artifacts of process and since it is API it can be called in background.

Feature Description and Impacted Components:

The major component is Process Designer. The Process Designer will expose MigrateProcess API. This API will migrate the following artifacts of the process;

1. Route map of process
2. Activities properties
3. External table definition (not data)
4. Process Constants definition and values
5. System functions defined in Catalog
6. External function defined in EJB
7. Web Service functions signatures associated with process
8. Data Source definition regards to Data Exchange activity
9. Table definition of Cabinet defined in Data Exchange
10. Calendar Settings associated with process
11. Form Layouts
12. Forms associated with activities

API Design:

The exposed MigrateProcess API will be rest API and its signature is as follows:

The user will be able to migrate the process from source to target cabinet. Below is the URL.

```
<SourceServerProtocol>://<SourceServerIP>:<SourceServerWebPort>/pmwebrest/
services/Migrate
```

Sample URL: *http://192.168.50.17:8180/pmwebrest/services/Migrate*

Below is the list of request parameters:

JSON Parameters	JSON Field Name	Descriptions	Mandatory/ Optional	Values
SrcServerData	AppServerType	JBoss/WebLogic/WebSphere	M	
	Cabinet	Name of the cabinet	M	
	UserName	Valid user of the cabinet System defined Devops profile will be used in case of no value	O	
	AuthCode	Encrypted password of user	O	

SrcProcessData	ProcessName	Name of the process	M	
	Version	Specify the version that needs to be migrated. Latest version will be migrated if no version is mentioned	O	
TargetServerData	AppServer	Application Server hostname or IP of destination (where process needs to be setup)	M	
	AppServerType	JBoss/WebLogic/WebSphere. If there is no value specified, system will pick value from Source Server mentioned above	O	
	Cabinet	Name of the cabinet If there is no value specified, system will pick value from Source Server mentioned above	O	
	User Name	Valid user of the cabinet having role of Devops profile.	M	
	AuthCode	Encrypted password of user	M	
	WebPort	Web port of target server	O	
	Protocol	Protocol of target server (https be default)	O	
TargetProcessData	Overwrite	In case there is no value specified its value will be Y. if user specify N then system will create a new version of process	O	Y/N
	ProcessName	If there is no value specified, system will pick value from Source Process mentioned above	O	
Archive	AppServer	If IP address of archive activity is to be changed while migrating	O	

Sample request:

```
{
  "SrcServerData": {
    "Cabinet": "ibps29july",
    "AppServerType": "JBossEAP",
```

```
    "UserName": "atul",
    "AuthCode": "e-C;B-C;B-C;C:f6-C;ht-D;y-C;0-C;Vz-D;6J-C;sV"
  },
  "SrcProcessData": {
    "ProcessName": "dc33",
    "Version": ""
  },
  "TargetServerData": {
    "AppServer": "192.168.50.17",
    "WebPort": "8180",
    "Protocol": "http",
    "Cabinet": "cab4oct",
    "AppServerType": "JBossEAP",
    "UserName": "padmin",
    "AuthCode": "e-C;B-C;B-C;C:f6-C;ht-D;y-C;0-C;Vz-D;6J-C;sV"
  },
  "TargetProcessData": {
    "ProcessName": "dc33",
    "Overwrite": "Y"
  },
  "Archive": {
    "AppServer": "127.0.0.1"
  }
}
```

User must pass encrypted password in 'AuthCode' parameter.
For that, user needs to use below 'encrypt' method. Sample file 'EncryptAuthCode.java' is attached with this document. Below are 2 dependencies for this file:)

- Omnishared.jar
- SecurityAPI.jar

How to call from Jenkins:

1. Install "HTTP Request Plugin".
2. From Jenkins left menu select Manage Jenkins > Manage Plugins > select Available tab and choose the plugin from the list below.
3. Create New Item(job) of "Freestyle project"
4. Use "HTTP Request" feature from Add build step
5. Response body in console: Yes
    - HTTP Request configuration: Sample request
    - URL:<SourceServerProtocol>://<SourceServerIP>:<SourceServerWebPort>/pmwebrest/services/Migrate
    - HTTP mode: POST
    - Headers > Accept: APPLICATION_JSON (application/json)
    - Headers > Content-Type: APPLICATION_JSON_UTF8 (application/json; charset=UTF-8)
    - Body > Request body:

```
{
  "SrcServerData": {
    "Cabinet": "ibps29july",
    "AppServerType": "JBossEAP",
    "UserName": "atul",
    "AuthCode": "e-C;B-C;B-C;C:f6-C;ht-D;y-C;0-C;Vz-D;6J-C;sV"
  },
  "SrcProcessData": {
    "ProcessName": "dc33",
    "Version": ""
  },
  "TargetServerData": {
    "AppServer": "192.168.50.17",
    "WebPort": "8180",
    "Protocol": "http",
    "Cabinet": "cab4oct",
    "AppServerType": "JBossEAP",
    "UserName": "padmin",
    "AuthCode": "e-C;B-C;B-C;C:f6-C;ht-D;y-C;0-C;Vz-D;6J-C;sV"
  },
  "TargetProcessData": {
    "ProcessName": "dc33",
    "Overwrite": "Y"
  },
  "Archive": {
    "AppServer": "127.0.0.1"
  }
}
```

WFGetProcessGroupQueueProfileData

This API copies the Queue List, Groups and Queue Group Association data in XLS sheet and its also returns XLS sheet data in output as encoded form. This API is exposed as REST .

- It creates the XLS sheet with name ProcessName-QueueUserGroup-data-ddmmyyyy-hhmmss.xls. It replaces the “ddmmyyyy-hhmmss” with Creation date Time. Suppose sheet is created at 05-07-2021 10:18:20 then XLS sheet name must be “ProcessName-QueueUserGroup-data-05072021-101820.xls” . This File is present in the folder \omniflowconfiguration\wfsconfig\rightmigration.
- In Input, Process Name must be valid. Process must be present on Source Cabinet.
- If Process is not present on source cabinet then we moving to next process.
- It fetch the all the queue which is associated with process and then it fetched how many groups are associated on that queues and their group name also and it write these data in “UserQueueMapping” sheet and also it write this groupName and their properties in Group Sheet.

For Example:

- If a user gives the procesname=Process.
- Suppose, Process1 contain two queues, their names are Process1_StartEvent and Process1_Swimlane.
- Suppose, on Process1_StartEvent one group is associated say group1 and on Process1_Swimlane queue two groups are associated: group1 and group2.
- Then XLS sheet of UserQueueMapping contain data like this:

Queue Name	User Name	Group Name	Action Comments	Filter
Process1_StartEvent		group1	comments	Var_INT1=10
Process1_Swimlane		group1	comments1	
Process1_Swimlane		group2	comments3	VAR_STR1='iBPS'

- group1 and group2 are also added to the group sheet.
- Also, fetch group properties and object rights.
- Write the group properties data in the XLS group sheet.
- Group Object Rights for this group, we write in XML buffer.
- For Example say group1 has parentGroup UserDesktop and owner badmin then in Group sheet data like this:

GroupName	Comment	Parent Group Name	Username (Owner Name)
Group1	This is group1	UserDesktop	badmin

- And their object rights data in XML buffer.
- After that, fetch the profile name which is associated with the process and queue.
    - We fetch the profile property
    - Profile property data and object rights are written in XML buffer.
- In **UserGroupMapping** sheet, we are populating all the group which is present in group sheet.
- The group sheet contains 4 types of group:
    - User manually add the group in this sheet.
    - Any group associated with the queue.
    - Any group associated with the profile.
    - Any group associated with the process.
- **We also write XLS buffer data and their checksum in XLS buffer sheet. The user does not need to modify these data.**
    - This API must be run on source cabinet.

Resource URL: http://ip:port/iBPSRestFulWebServices/ibps/Restful/WFGetProcessGroupQueueProfileData/

HTTP Verb: POST

Request Media Type: application/xml or application/json

Response Media Type: application/xml or application/json

Sample request:

XML:

```
<WFGetProcessGroupQueueProfileData_Input>
<Option> WFGetProcessGroupQueueProfileData</Option>
<SessionId>21334</SessionId>
<EngineName>ibps16jan</EngineName>
<ProcessNameList>
<ProcessName>process1</ProcessName>
<ProcessName>process2</ProcessName>
</ProcessNameList>
</WFGetProcessGroupQueueProfileData_Input>
```

```
 <WFGetProcessGroupQueueProfileData_Input>
<Option> WFGetProcessGroupQueueProfileData</Option>
<SessionId>21334</SessionId>
<EngineName>ibps16jan</EngineName>
<ProcessDefIDList>
<ProcessdefID>1</ProcessdefID>
<ProcessdefID>2</ProcessdefID>
</ProcessDefIDList>undefined</ WFGetProcessGroupQueueProfileData_Input>
```

JSON:

```
{
"WFGetProcessGroupQueueProfileData_Input": {
"Option": "WFGetProcessGroupQueueProfileData",
"SessionId": "21334",
"EngineName": "ibps16jan",
"ProcessNameList": {
"ProcessName": [
"process1",
"process2"
]
}
}
}
```

```
{
"WFGetProcessGroupQueueProfileData_Input": {
"Option": "WFGetProcessGroupQueueProfileData",
```

```
"SessionId": "21334",
"EngineName": "ibps16jan",
"ProcessDefIDList": {
"ProcessdefID": [
1,
2
]
}
}
}
```

Request parameters description:

Name	Parent Tag	Manadatory	Description	Valid Value
Option	Root	Yes	UserDesktop	WFGetProcessGroupQueueProfileData
SessionId	Root	Yes	It refers to the case-sensitive API name.	NA
EngineName	Root	Yes	It is the logged-in user's session id.	NA
ProcessName	ProcesNameList	No	This is the Name of the cabinet.	NA
ProcessdefID	ProcessDefIDList	No	Process Name which data need to be transfer from source cabinet to destination cabinet.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

ProcessName or **ProcessdefID** one is mandatory in input. If input contain both ProcessName and ProcessDefId then ProcessDefId is preferred.

Sample response:

XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetProcessGroupQueueProfileData_Output>
<MainCode>0</MainCode>
<FailedList>
<ProcessFailedList>
<ProcessName>process1</ProcessName>
</ProcessFailedList>
<GroupFailedList>
<GroupName>Group1</GroupName>
</GroupFailedList>
<ProfileFailedList>
<ProfileName>profile1</ProfileName>
</ProfileFailedList>
</FailedList>
<XLSBufferData>-Q-PR-g;h;xa-hAAAAAAAAAAAAAAAA7ADA-+-/
JAGAAAAAAAAAAABAAAAAAAAAAAAQAACAAABAAA-+-gAUAAA;kA-1-/gAAAAAAAAAAA-Ag--
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</XLSBufferData>
</WFGeProcesstGroupQueueProfileData_Output>
```

JSON:

```
{
"WFGetProcessGroupQueueProfileData_Output": {
"MainCode": "0",
"FailedList": {
"ProcessFailedList": {
"ProcessName": "process1"
},
"GroupFailedList": {
"GroupName": "Group1"
},
```

```
"ProfileFailedList": {
"ProfileName": "profile1"
}
},
"XLSBufferData": "-Q-PR-g;h;xa-hAAAAAAAAAAAAAAAA7ADA-+AAAAAAAAAAAAAAAAAAAAA"
}
}
```

Response parameters description:

Name	Parent Tag	Description
MainCode	Exception	Main Error code indicating the category of the error.
SubErrorCode	Exception	Sub Error code indicating the sub-category of the error.
TypeOfError	Exception	Indicates the type of error.
Subject	Exception	Detailed error Name against the main code.
Description	Exception	Detailed error Description against the sub-error code.
ProcessName	ProcessFailedList	It contain the processname which is not copied in XLS sheet
GroupName	GroupFailedList	It contain the groupname which is not copied in XLS sheet
ProfileName	ProfileFailedList	It contain the profilename which is not copied in XLS sheet
XLSBufferData	Root	It contain the XLS data in encoded form

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Note: XLSBufferData tag (in Output) contains the full XLS sheet in an encoded form. If you want to write these data into an XLS sheet again use this code.

FileOutputStream fos = **new** FileOutputStream(file);

byte[] content = EncodeImage.decodeImageData(fileBuffer);

fos.write(content, 0, content.length);

fos.close();

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	Invalid session	Invalid User session.
15	801	The requested filter is invalid.	Some Database error occurred.
400	802	The requested operation failed	Invalid Parameter.
1036	0	File (ProcessName-QueueUserGroup-data-ddmmyyyy-hhmmss.xls) is not found at specified location(\omniflowconfiguration\wfsconfig\rightmigration).	

WFMigrateAndSetRightsData

This API creates the user, group ,profile and associate user or group on queue on destination cabinet from XLS sheet. This API exposes as REST.

WFGetGRoupQueueProfileData API creating a XLS sheet. In this sheet, user can modify the sheet as per requirement like adding user in sheet that needs to create on destination cabinet, and more.

For Converting XLS sheet in encoded form:

```
File inputFile = new File(completeFileName);
byte[] fileContent = new byte[(int)inputFile.length()];
FileInputStream fis = new FileInputStream(inputFile);
fis.read(fileContent);
```

```
fis.close();

System.out.println("Actual File Content : " + new String(fileContent)

String encodedStr = EncodeImage.encodeImageData(fileContent).toString();
```

Assumption:

- During group creation if the parent group is not present in the production environment (destination) then we take everyone as a parent group.
- During group creation if UserName(OwnerName) is not present on Destination Environment then we take supervisor2 or supervisor as userName (OwnerName).

Resource URL: *http://ip:port/iBPSRestFulWebServices/ibps/Restful/WFMigrateAndSetRightsData*

Method type: POST

Request content-type: *application/xml or application/json*

Response content-type: *application/xml or application/json*

Sample request:

XML:

```
<WFMigrateAndSetRightsData_Input>
<Option>WFMigrateAndSetRightsData</Option>
<EngineName>ibps16jan</EngineName>
<SessionID>-1947147123</SessionID>
<XLSBufferData>-Q-PR-g;h;xaAAAAAAAAAAAAAAAAAAAAAAAAAA
</XLSBufferData>
</WFMigrateAndSetRightsData_Input>
```

JSON:

```
{
"WFMigrateAndSetRightsData_Input": {
"Option": "WFMigrateAndSetRightsData",
"EngineName": "ibps16jan",
"SessionID": "-1947147123",
"XLSBufferData": "-Q-PR-g;h;xa-hAAAAAAAAAAAAAAAA7ADA-+-/JAGAAAAAAAAAAA"
}
}
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value
Option	Root	Yes	It refers to the case-sensitive API name.	WFMigrateAndSetRightsData
SessionId	Root	Yes	It is the logged-in user's session id.	NA
EngineName	Root	Yes	This is the Name of the cabinet.	NA
XLSBufferData	Root	Yes	It contain XLS data in encoded form.	NA

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA

Parameter	ParentTag	Mandatory	Description	Valid Value
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFMigrateAndSetRightsData_Output>
<Option>WFMigrateAndSetRightsData</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<SuccessInfo>
<UserList>
<UserInfo>
<UserName>test1</UserName>
<UserID>1</UserID>
</UserInfo>
<UserInfo>
<UserName>test2</UserName>
<UserID>2</UserID>
</UserInfo>
<UserInfo>
<UserName>test3</UserName>
<UserID>4</UserID>
</UserInfo>
</UserList>
<GroupList>
<GroupInfo>
<GroupName>Group1</GroupName>
<GroupId>1</GroupId>
</GroupInfo>
<GroupInfo>
<GroupName>Group2</GroupName>
<GroupId>2</GroupId>
</GroupInfo>
</GroupList>
<ProfileList>
<ProfileInfo>
<ProfileName>profile1</ProfileName>
<ProfileID>1</ProfileID>
</ProfileInfo>
```

```
<ProfileInfo>
<ProfileName>profile2</ProfileName>
<ProfileID>12</ProfileID>
</ProfileInfo>
</ProfileList>
<UserGroupQueueAssociationList>
<UserGroupQueueAssociation>
<Name>user1</Name>
<QueueName>process11_Startevent</QueueName>
</UserGroupQueueAssociation>
<UserGroupQueueAssociation>
<Name>group1</Name>
<QueueName>process11_Startevent</QueueName>
</UserGroupQueueAssociation>
</UserGroupQueueAssociationList>
<UserGroupAssociationList>
<UserGroupAssociation>
<UserName>test1</UserName>
<GroupName>group1</GroupName>
</UserGroupAssociation>
<UserGroupAssociation>
<UserName>test2</UserName>
<GroupName>group1</GroupName>
</UserGroupAssociation>
</UserGroupAssociationList>
</SuccessInfo>
<FailedList>
<UserList>
<UserName>test4 is already present</UserName>
<UserName>test5 is not created</UserName>
<UserName>test6 is already present</UserName>
</UserList>
<GroupList>
<GroupName>Group12 is already present</GroupName>
<GroupName>Group22 is not created</GroupName>
</GroupList>
<ProfileList>
<ProfileName>profile1 is already present</ProfileName>
<ProfileName>profile2 is already present</ProfileName>
</ProfileList>
<UserGroupQueueAssociationList>
<UserGroupQueueAssociation>
<Name>user12</Name>
<QueueName>process11_Startevent</QueueName>
<Info>uesr 12 Already associated with process11_Startevent</Info>
</UserGroupQueueAssociation>
<UserGroupQueueAssociation>
<Name>group3</Name>
<QueueName>process11_Startevent</QueueName>
<Info>group3 does not exist</Info>
</UserGroupQueueAssociation>
</UserGroupQueueAssociationList>
<UserGroupAssociationList>
<UserGroupAssociation>
<UserName>test1</UserName>
<GroupName>group3</GroupName>
<Info>group3 does not exist</Info>
```

```
</UserGroupAssociation>
<UserGroupAssociation>
<UserName>test12</UserName>
<GroupName>group1</GroupName>
<Info>test12 does not exist</Info>
</UserGroupAssociation>
</UserGroupAssociationList>
</FailedList>
</WFMigrateAndSetRightsData_Output>
```

JSON:

```
{
"WFMigrateAndSetRightsData_Output":{
"FailedList": {
"ProfileObjectTypesList": "",
"GroupList": {
"GroupInfo": [
{
"GroupName": "d",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RightMigration2",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "Business Admin",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RightMigration3",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RughtMigration6",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RightGroup31",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RightGroup32",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RightGroup112",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RightGroup113",
"Reason": "Group Already present on Destination cabinet"
},
{
"GroupName": "RightGroup114",
```

```
"Reason": "Group Already present on Destination cabinet"
}
]
},
"UserGroupAssociationList": "",
"GroupRightObjectList": {
"GroupRights": [
{
"GroupName": "RIGHTGROUP112",
"ObjectTypeName": "",
"Object": "",
"Reason": "RIGHTGROUP112 Group does not created or updated. Its already present on
destination Cabinet."
},
{
"GroupName": "D",
"ObjectTypeName": "",
"Object": "",
"Reason": "D Group does not created or updated. Its already present on destination
Cabinet."
},
{
"GroupName": "RIGHTGROUP32",
"ObjectTypeName": "",
"Object": "",
"Reason": "RIGHTGROUP32 Group does not created or updated. Its already present on
destination Cabinet."
},
{
"GroupName": "RUGHTMIGRATION6",
"ObjectTypeName": "",
"Object": "",
"Reason": "RUGHTMIGRATION6 Group does not created or updated. Its already present
on destination Cabinet."
},
{
"GroupName": "RIGHTGROUP31",
"ObjectTypeName": "",
"Object": "",
"Reason": "RIGHTGROUP31 Group does not created or updated. Its already present on
destination Cabinet."
},
{
"GroupName": "RIGHTMIGRATION2",
"ObjectTypeName": "",
"Object": "",
"Reason": "RIGHTMIGRATION2 Group does not created or updated. Its already present
on destination Cabinet."
},
{
"GroupName": "BUSINESS ADMIN",
"ObjectTypeName": "",
"Object": "",
"Reason": "BUSINESS ADMIN Group does not created or updated. Its already present
on destination Cabinet."
},
{
```

```
"GroupName": "RIGHTMIGRATION3",
"ObjectTypeName": "",
"Object": "",
"Reason": "RIGHTMIGRATION3 Group does not created or updated. Its already present
on destination Cabinet."
},
{
"GroupName": "RIGHTGROUP113",
"ObjectTypeName": "",
"Object": "",
"Reason": "RIGHTGROUP113 Group does not created or updated. Its already present on
destination Cabinet."
},
{
"GroupName": "RIGHTGROUP114",
"ObjectTypeName": "",
"Object": "",
"Reason": "RIGHTGROUP114 Group does not created or updated. Its already present on
destination Cabinet."
}
]
},
"ProfileRightsList": "",
"ProfileGroupObjectRightList": "",
"ProfileUserGroupProfileAssociationList": "",
"ProfileList": {
"Profile": [
{
"ProfileId": "",
"ProfileName": "RightProfile1",
"Reason": "Profile already exists on destination cabinet"
},
{
"ProfileId": "",
"ProfileName": "RightProfile2",
"Reason": "Profile already exists on destination cabinet"
},
{
"ProfileId": "",
"ProfileName": "RightProfile31",
"Reason": "Profile already exists on destination cabinet"
}
]
},
"UserGroupQueueAssociationList": {
"UserGroupQueueAssociation": [
{
"GroupName": "RughtMigration6",
"UserName": "",
"QueueName": "RIGHTMIGRATION3_START EVENT_1",
"Reason": "Queue does not exists in the system"
},
{
"GroupName": "",
"UserName": "UserTest114",
"QueueName": "RIGHTMIGRATION3_SWIMLANE_1",
"Reason": "Queue does not exists in the system"
```

```
},
{
"GroupName": "",
"UserName": "",
"QueueName": "RIGHTMIGRATION12_START EVENT_1",
"Reason": "User Name or Group Name must be empty."
}
]
},
"UserList": {
"UserInfo": [
{
"UserName": "UserTest112",
"Reason": "User already present on destination cabinet : ofora6jun"
},
{
"UserName": "UserTest113",
"Reason": "User already present on destination cabinet : ofora6jun"
},
{
"UserName": "UserTest114",
"Reason": "User already present on destination cabinet : ofora6jun"
},
{
"UserName": "UserTest115",
"Reason": "User already present on destination cabinet : ofora6jun"
},
{
"UserName": "UserTest116",
"Reason": "User already present on destination cabinet : ofora6jun"
}
]
}
},
"Option": "WFMigrateAndSetRightsData",
"SuccessInfo": {
"ProfileObjectTypesList": "",
"GroupList": "",
"UserGroupAssociationList": {
"UserGroupAssociation": [
{
"GroupName": "d",
"UserName": "UserTest112",
"Info": "User UserTest112 is successfully associated with group d"
},
{
"GroupName": "RightMigration2",
"UserName": "UserTest112",
"Info": "User UserTest112 is successfully associated with group RightMigration2"
},
{
"GroupName": "Business Admin",
"UserName": "UserTest112",
"Info": "User UserTest112 is successfully associated with group Business Admin"
},
{
"GroupName": "RightMigration3",
```

```
"UserName": "UserTest114",
"Info": "User UserTest114 is successfully associated with group RightMigration3"
},
{
"GroupName": "RughtMigration6",
"UserName": "UserTest112",
"Info": "User UserTest112 is successfully associated with group RughtMigration6"
},
{
"GroupName": "RightGroup31",
"UserName": "UserTest115",
"Info": "User UserTest115 is successfully associated with group RightGroup31"
},
{
"GroupName": "RightGroup32",
"UserName": "UserTest112",
"Info": "User UserTest112 is successfully associated with group RightGroup32"
},
{
"GroupName": "RightGroup112",
"UserName": "UserTest113",
"Info": "User UserTest113 is successfully associated with group RightGroup112"
},
{
"GroupName": "RightGroup113",
"UserName": "UserTest114",
"Info": "User UserTest114 is successfully associated with group RightGroup113"
},
{
"GroupName": "RightGroup114",
"UserName": "UserTest116",
"Info": "User UserTest116 is successfully associated with group RightGroup114"
},
{
"GroupName": "RightGroup114",
"UserName": "UserTest113",
"Info": "User UserTest113 is successfully associated with group RightGroup114"
},
{
"GroupName": "RightGroup114",
"UserName": "UserTest116",
"Info": "User UserTest116 is successfully associated with group RightGroup114"
},
{
"GroupName": "RightGroup114",
"UserName": "UserTest114",
"Info": "User UserTest114 is successfully associated with group RightGroup114"
}
]
},
"GroupRightObjectList": "",
"ProfileRightsList": "",
"ProfileGroupObjectRightList": "",
"ProfileUserGroupProfileAssociationList": "",
"ProfileList": "",
"UserGroupQueueAssociationList": {
"UserGroupQueueAssociation": [
```

```
{
"GroupName": "RightGroup113",
"UserName": "",
"Info": "Group is sucessfully associted with Queue",
"QueueName": "RIGHTMIGRATION11_START EVENT_1"
},
{
"GroupName": "RightGroup112",
"UserName": "",
"Info": "Group is sucessfully associted with Queue",
"QueueName": "RIGHTMIGRATION11_WORKDESK2"
},
{
"GroupName": "RightGroup114",
"UserName": "",
"Info": "Group is sucessfully associted with Queue",
"QueueName": "RIGHTMIGRATION11_QUERY_8"
},
{
"GroupName": "RightGroup112",
"UserName": "",
"Info": "Group is sucessfully associted with Queue",
"QueueName": "RIGHTMIGRATION11_CASE WORKDESK_7"
},
{
"GroupName": "RightGroup113",
"UserName": "",
"Info": "Group is sucessfully associted with Queue",
"QueueName": "RIGHTMIGRATION11_CASE WORKDESK_7"
},
{
"GroupName": "RightGroup113",
"UserName": "",
"Info": "Group is sucessfully associted with Queue",
"QueueName": "RIGHTMIGRATION12_SWIMLANE_1"
}
]
},
"UserList": ""
},
"Exception": {
"MainCode": 0
}
}
```


Response parameters description:

Parameter	Parent tag	Description
MainCode	Exception	Main Error code indicating the category of the error.
SubErrorCode	Exception	Sub Error code indicating the sub-category of the error.

TypeOfError	Exception	Indicates the type of error.
Subject	Exception	Detailed error Name against the main code.
Description	Exception	Detailed error Description against the sub-error code
UserName	SuccessInfo.UserList.UserInfo	It contain the username which is created successfully
UserID	SuccessInfo.UserList.UserInfo	It contain the userid which is created successfully.
GroupName	SuccessInfo.GroupList.GroupInfo	It contain the groupname which is created successfully.
GroupId	SuccessInfo.GroupList.GroupInfo	It contain the groupid which is created successfully.
ProfileName	SuccessInfo.ProfileList.ProfileInfo	It contain the profilename which is created successfully.
ProfileID	SuccessInfo.ProfileList.ProfileInfo	It contain the profileid which is created successfully.
Name	SuccessInfo.UserGroupQueue AssociationList.UserGroupQueueAssociation	It contain the groupname/username which is successfully associated with queue.
QueueName	SuccessInfo.UserGroupQueue AssociationList.UserGroupQueueAssociation	It contain the queuename which is username/groupname successfully associated with queue.
UserName	SuccessInfo.UserGroup AssociationList.UserGroupAssociation	It contain the username which is successfully associated with group.
GroupName	SuccessInfo.UserGroup AssociationList.UserGroupAssociation	It contain the groupname in which user is associated successfully.
UserName	FailedList.UserList.UserInfo	It contain the username which is not created successfully.
UserID	FailedList.UserList.UserInfo	It contain the userid which is not created successfully.
GroupName	FailedList.GroupList.GroupInfo	It contain the groupname which is not created successfully.

GroupId	FailedList.GroupList.GroupInfo	It contain the groupid which is not created successfully.
ProfileName	FailedList.ProfileList.ProfileInfo	It contain the profilename which is not created successfully
ProfileID	FailedList.ProfileList.ProfileInfo	It contain the profileid which is not created successfully.
Name	FailedList.UserGroupQueue AssociationList.UserGroupQueueAssociation	It contain the groupname/username which is not successfully associated with queue .
QueueName	FailedList.UserGroupQueue AssociationList.UserGroupQueueAssociation	It contain the queuename which is username/groupname not successfully associated with queue.
UserName	FailedList.UserGroup AssociationList.UserGroupAssociation	It contain the username which is not successfully associated with group.
GroupName	FailedList.UserGroup AssociationList.UserGroupAssociation	It contain the groupname in which user is not associated successfully.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
11	0	Invalid session	Invalid User session.
15	801	The requested filter is invalid.	Some Database error occurred.
400	802	The requested operation failed	Invalid Parameter.
1039	0	XML Buffer data (present inside the system sheet) might be changed by someone	
1037	1038	Sheet is empty	

WFInvokeDBFuncExecute

This API executes the custom stored procedures. It can be invoked through the system function with the names (invokeDBFuncexecuteString and invokeDBFuncExecuteInt) from the entry setting of any activity and it uses the same connection which is used by the workitem. This API can also be invoked independently through custom code.

Sample request:

```
<WFInvokeDBFuncExecute_Input>
<EngineName>ibps2augsql1</EngineName>
<Option>WFInvokeDBFuncExecute</ Option>
<SessionId>21343</SessionId>
<StoreProcedureName>ABC</StoreProcedureName>
<ProcessInstanceId>ABC-234324-process</ProcessInstanceId>
<WorkItemId>1</WorkItemId>
<ProcessDefID>1</ProcessDefID>
<ActivityID>3</ActivityID>
<PARAM1>ABC</PARAM1>
<PARAM2>0</PARAM2>
<PARAM3>yyyy-MM-dd hh:mm:ss.S</PARAM3>
<ReturnType>3</ReturnType>
</WFInvokeDBFuncExecute_Input>
```

Request parameters description:

Parameter	Parent tag	Mandatory	Description	Valid value

Option	Root	Yes	It refers to the case-sensitive call name.	WFInvokeDBFuncExecute
EngineName	Root	Yes	This is the Name of the cabinet.	NA
SessionID	Root	Yes	It is the logged-in user's session id.	NA
StoreProcedureName	Root	Yes	Name of procedure which need to be executed	NA
ProcessInstanceId	Root	Yes	The Process Instance ID of the workitem.	1st Input parameter of the procedure. Type -> String
WorkitemId	Root	No	The name of the workitem	2nd Input parameter of procedure Type -> Integer
ProcessDefID	Root	No	The process Definition ID of the process.	3rd Input parameter of procedure Type -> Integer
ActivityID	Root	No	The Activity ID of the process.	4th Input parameter of procedure Type ->Integer
PARAM1	Root	No	Extra string value input for procedure	5th Input parameter of procedure Type -> String
PARAM2	Root	No	Extra string value input for procedure	6th Input parameter of procedure Type -> String
PARAM3	Root	No	Extra Date value input in format of yyyy-MM-dd hh:mm:ss.S for procedure	7th Input parameter of procedure Type -> Date
ReturnType	Root	No	Return Type of procedure	8th parameter of procedure 3 – Integer ReturnType, 10-String ReturnType defaultValue=10

If OAuth is enabled

Parameter	ParentTag	Mandatory	Description	Valid Value
AccessDetails	Root	No	Session Information for Oauth	NA
AppID	AccessDetails	No	Registered AppID for the application or product.	NA
AccessToken	AccessDetails	No	Accestoken for the logged-in user.	NA
SessionValid	AccessDetails	No	Encrypted session expiry time for the logged-in user.	NA

Sample response:

```
<WFInvokeDBFuncExecute_Output>
<Option>WFInvokeDBFuncExecute</Option>
<MainCode>0</MainCode>
<Attribute>34</Attribute>
<SessionId>21343</SessionId>
<UserName>ravi</UserName>
</WFInvokeDBFuncExecute_Output>
```

Response parameters description:

Parameter	Parent tag	Description
Option	Root	It refers to the case-sensitive call name.
SessionId	Root	SessionID of the user.
Attribute	Root	It contain the output value which is received from procedure
MainCode	Root	Its value indicates if the API executed successfully or not. If value = 0 or 18, then API is executed successfully.

If OAuth is enabled

Parameter	Parent tag	Description
AccessDetails	Root	Session information for OAuth

Errors and warnings:

Main code	Sub code	Constant value	Message
400	801	WF_OPERATION_FAILED	Then some SQLException need to check your procedure first
15	802	WF_OPERATION_FAILED	Number format exception (value passed in Integer tag is not type of integer)
11		WM_INVALID_SESSION_HANDLE	Invalid Session

External interfaces

NewgenONE provides six standard tools or properties that can be defined for a Custom workstep, namely, To-Do List, Exceptions, Actions, Form View, Document Types, and Scan Tool. If you wish to extend the properties of a workstep beyond these six standard tools, you can define External Interfaces. Once defined and included in a process, these Interfaces/Tool windows are available on each Custom Workstep, under the Custom Tab in the workstep property sheet of that workstep. These windows are reflected in the WorkDesk of the workitem lying on the workstep on which it has been associated.

What is an external interface?

External interfaces are user-defined programs that extend the properties of a workstep beyond the six standard tool interfaces provided. The external interfaces are also referred to as custom tool windows.

For defining a custom tool window or external interface, the implementer needs to define three interfaces:

- Design-Time interface, to configure the properties of the tool window.
- Server-Side interface (Java Class), to fetch and save the properties of the tool window.
- Run-Time interface to display the custom tool.

Server-side interfaces to be implemented for custom tool Windows

Server-side interface (Java Class), to fetch and save the properties of the tool window.

This section discusses how to program the Server-side interface.

A server-side interface for a custom tool window is built in the form of a Java class that implements the 'WFExternalInterface' standard interface. This WFExternalInterface exposes the following set of methods that need to be implemented by the system integrator building the custom tool.

- **GetExternalData**: This method fetches the definition and the status of the External Interface. WMGetExternalData internally invokes this method to return the definition of the external interface for the given activity in a process, whenever the client requests the external data. View the Prototype of getExternalData
- **SetExternalData**: This method modifies the data and the status of the External Interface. WMSetExternalData internally invokes this method to update the definition or data for the external interface for the given workitem on an activity in a process, whenever the client requests the external data. View the Prototype of setExternalData

Thus, the implementation of an external interface on the server-side needs to extend the WFExternalInterface abstract class.

Basic REST Configuration for Product APIs

Kindly do the following before executing any REST API:

- Deploy *WFRestFulWebServices.war* to the application server.
- Provide values for NewgenONE app server details in

```
omniflowconfiguration/wfsconfig/restconfig/RestConfig.ini
ServerIp=127.0.0.1 [NewgenONE Server IP] ServerPort=8080[[NewgenONE Server
Port] ServerType=JBoss EAP LogsPath=D:/NGOneRestLogs
```

All the names of variables discussed below are case-sensitive.

API-Key token-based security configuration:

- All APIs are secured with a token.
- Executing the following URL generates a token:
  http://<<ServerIp: ServerPort>/ WFRestFulWebServices/ngone/Restful/{engineName}/WMConnect/
  Authorization Parameters Definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
userName	QueryParam	String type having username value
password	HeaderParam	String type having password value
locale	QueryParam	String type having Locale value for given user name
UserExist	QueryParam	String Type: N=ForecFully login

- sessionId tag returns in the response that you can pass in other APIs in the sessionId header parameter through the header parameter.
- If any of the URLs respond with response code = 401[UnAuthorized] then execute the above URL else continue using the same sessionId as API Key.
- If the response code received from the Authorization URL is other than 0, then the Response code may vary according to the error description.

Each Code bears a plain text message regarding the error.

List of APIs Supported as REST Service:

API Name	Description
WMConnect	Connect to NewgenONE system with a valid username and password
WMDisconnect	Disconnect from NewgenONE system with a valid session
WFSearchWorkitems	Search workitems on different criteria.
WFGetWorkitemData	Fetch property of workitem
WFGetWorkitemDataExt	Acquire lock and fetch data attributes of a workitem
WFSetAttributes	Save process variables value for a workitem
WFGetProcessVariables	Fetch the list of process variables for a process and activity
WFGetDMSFolderDefinition	Fetch DMS folders info corresponding to a process
WFStartProcess	Initiate a workitem once created in the system
WFDeleteWorkItem	Delete a workitem from the introduction queue.
WFGetWorkItem	Lock a workitem
WFFetchWorkitemAttributes	Fetch the list of process variables with value for a process instance id
WFCompleteWorkItem	Complete a workitem
WFUnlockWorkitem	Unlock a workitem
WFUploadWorkItem	Create a new workitem into the system
WMGetQueueList	Get the list of queues on the cabinet
WMFetchWorkList	Fetch the list of workitems lying on a queue
WMFetchActivityList	Fetch the list of activities for a process
WFReassignWorkitem	Assign a workitem to a target user
WFAddToMailQueue	Add data in the mail queue table to be processed by a mailing agent to send mail
WFGenericServerAPI	This API calls any NewgenONE Server API.
WFUploadWorkitemWithDocument	Creates a workitem and also uploads documents in the workitem folder.

- To encode a string value for a password, execute `com.newgen.omni.wf.util.misc.Utility.encode(String valueStr)` which will return an encoded string[ngutility.jar].
- In some cases where data is sensitive or data is long enough to be sent as query parameters, there is a provision to send the same in the request body of the URL.
- If data is sent in Request Body then execution happens on the same else the execution happens based on parameters.
- All APIs return a response with a String value in either XML or JSON format as needed.

Connect

Connects with NewgenONE. This API returns a sessionId that other APIs require for successful execution.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMConnect/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
userName	QueryParam	String type having username value
password	HeaderParam	String type having password value for given
locale	QueryParam	String type having Locale value for given user name
UserExist	QueryParam	String Type N=ForecFully login

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	String and Registered AppId for the application or product.
SessionExpiryTime	HeaderParam	String and Duration (in minutes) for which the session remains valid .

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0" encoding="UTF-8" ?>
<WMConnect_Output>
    <Option>WMConnect</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Participant>
        <SessionId>1547055289</SessionId>
        <ID>3</ID>
        <LastLoginTime>2023-09-18 11:30:42.96</LastLoginTime>
        <IsAdmin>Y</IsAdmin>
        <Privileges>111111111111111111111111</Privileges>
    </Participant>
    <LastLoginTime>2023-09-18 11:30:42.96</LastLoginTime>
    <LastLoginFailureTime/>
    <FailureAttemptCount>0</FailureAttemptCount>
    <TimeZoneInfo>
        <DBServer>
            <OffSet>330</OffSet>
        </DBServer>
    </TimeZoneInfo>
</WMConnect_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMConnect_Output": {
        "Option": "WMConnect",
        "Exception": {
            "MainCode": "0"
        },
        "Participant": {
            "SessionId": "1547055289",
            "ID": "3",
            "LastLoginTime": "2023-09-18 11:30:42.96",
            "IsAdmin": "Y",
            "Privileges": "111111111111111111111111"
        },
```

```
        "LastLoginTime": "2023-09-18 11:30:42.96",
        "LastLoginFailureTime": "",
        "FailureAttemptCount": "0",
        "TimeZoneInfo": {
            "DBServer": {
                "OffSet": "330"
            }
        }
    }
}
```


Disconnect

Disconnects the user from NewgenONE.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMDisconnect/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
name	QueryParam	String type having a username or utility name

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<WMDisConnect_Output>
    <Option>WMDisConnect</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
</WMDisConnect_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMDisConnect_Output": {
        "Option": "WMDisConnect",
        "Exception": {
            "MainCode": "0"
        }
    }
}
```

Search workitems

It searches workitems on the basis of given parameters or completes input XML. If the URL is called with the Request body then parameter values must be blank or null.

Service URL: *https://<ServerIP>:<ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WFSearchWorkitems/*

Method type: POST

Request Media Type: application/xml or application/json

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processDefId	QueryParam	String type having value for processdefid
activityId	QueryParam	String type having value for activityId
filterString	QueryParam	String type having value to be sent in FIlterString tag in API

noOfRecords	QueryParam	String type having value for No of records to fetch
processInstanceStr	QueryParam	String type having value to filter based on ProcessInstanceName

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body:[Optional]

```
<WFSearchWorkItemList_Input>
    <Option>WFSearchWorkItemList</Option>
    <EngineName>ng1sql21aug</EngineName>
    <SessionId>-1734716438</SessionId>
    <DefaultSorting>N</DefaultSorting>
    <RightFlag>010100</RightFlag>
    <ZipBuffer>N</ZipBuffer>
    <EnableMultiLingual>Y</EnableMultiLingual>
    <OpenMode>PM</OpenMode>
    <ArchiveSearch>N</ArchiveSearch>
    <OptimizedSearchFlag>Y</OptimizedSearchFlag>
    <Filter>
        <ProcessName>queuenametest</ProcessName>
        <LocalProcessName>queuenametest</LocalProcessName>
        <ProcessDefinitionID>161</ProcessDefinitionID>
        <SearchPreviousVersion>N</SearchPreviousVersion>
        <SortOnVersion>N</SortOnVersion>
        <URNFlag>Y</URNFlag>
        <URNName/>
        <ExcludeExitWorkitems>N</ExcludeExitWorkitems>
        <State>2</State>
        <HoldType>1</HoldType>
        <SearchSuspendedWorkitem>N</SearchSuspendedWorkitem>
        <ArchiveSearch>N</ArchiveSearch>
        <LockedByUser/>
        <LockedByUserId>0</LockedByUserId>
        <AssignedToUser/>
        <AssignedToUserId>0</AssignedToUserId>
        <IntroducedByUser/>
        <IntroducedByUserId>0</IntroducedByUserId>
        <PinToSearch>false</PinToSearch>
        <SearchFlag>1</SearchFlag>
        <LockStatus>B</LockStatus>
    </Filter>
    <DataFlag>Y</DataFlag>
    <BatchInfo>
        <OrderBy>2</OrderBy>
        <SortOrder>A</SortOrder>
        <LastValue/>
        <ProcessInstanceId/>
        <WorkitemID/>
        <NoOfRecordsToFetch>20</NoOfRecordsToFetch>
    </BatchInfo>
    <UserDefVarFlag>Y</UserDefVarFlag>
    <ShowAllWorkItemsFlag>Y</ShowAllWorkItemsFlag>
    <usestdparser>Y</usestdparser>
</WFSearchWorkItemList_Input>
```

XML Response Body:

```
<?xml version="1.0"?>
<WFSearchWorkItemList_Output>
```

```
    <Option>WFSearchWorkItemList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <WorkItemList>
        <WorkItemInfo>
            <URN>queuenametest-1</URN>
            <RegistrationNo>WF-0000000001-queuenametest</RegistrationNo>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <ProcessName>queuenametest</ProcessName>
            <ProcessVersionNo>1</ProcessVersionNo>
            <ActivityName>Workdesk_2</ActivityName>
            <WorkItemState>NOTSTARTED</WorkItemState>
            <CheckListStatus>N</CheckListStatus>
            <AssignedTo/>
            <AssignedToPersonalName/>
            <AssignedToFamilyName/>
            <PendingSince>2023-09-14 13:03:14.653</PendingSince>
            <ValidTill/>
            <WorkItemId>1</WorkItemId>
            <PriorityLevel>1</PriorityLevel>
            <ParentWorkItemId>0</ParentWorkItemId>
            <ProcessDefinitionId>161</ProcessDefinitionId>
            <ActivityId>2</ActivityId>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <LockedByUserName/>
            <LockedByPersonalName/>
            <LockedByFamilyName/>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreationDateTime>2023-09-14 13:03:02.023</CreationDateTime>
            <LockedTime/>
            <IntroductionDateTime>2023-09-14 13:03:12.09</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName></IntroducedByFamilyName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <Status/>
            <QueueId>333</QueueId>
            <Turnaroundtime/>
            <Referredby/>
            <Referredto/>
            <TurnAroundDateTime/>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName></ProcessedByFamilyName>
            <ActivityType>10</ActivityType>
            <WorkItemStateId>1</WorkItemStateId>
            <VAR_REC1>4072</VAR_REC1>
            <VAR_REC2>queuenametest-1</VAR_REC2>
            <Data>
                <QueueData>
                    <Name>VAR_REC_2</Name>
                    <Value>F</Value>
                </QueueData>
```

```
                <QueueData>
                    <Name>Q_DivertedByUserId</Name>
                    <Value/>
                </QueueData>
            </Data>
            <Q_DivertedByUserId>0</Q_DivertedByUserId>
        </WorkItemInfo>
    </WorkItemList>
    <TotalCount>1</TotalCount>
    <RetrievedCount>1</RetrievedCount>
    <QueryQueueId>0</QueryQueueId>
</WFSearchWorkItemList_Output>
```

JSON Request Body:[Optional]

```
{
    "WFSearchWorkItemList_Input": {
        "Option": "WFSearchWorkItemList",
        "EngineName": "ng1sql21aug",
        "SessionId": "-1734716438",
        "DefaultSorting": "N",
        "RightFlag": "010100",
        "ZipBuffer": "N",
        "EnableMultiLingual": "Y",
        "OpenMode": "PM",
        "ArchiveSearch": "N",
        "OptimizedSearchFlag": "Y",
        "Filter": {
            "ProcessName": "queuenametest",
            "LocalProcessName": "queuenametest",
            "ProcessDefinitionID": "161",
            "SearchPreviousVersion": "N",
            "SortOnVersion": "N",
            "URNFlag": "Y",
            "URNName": "",
            "ExcludeExitWorkitems": "N",
            "State": "2",
            "HoldType": "1",
            "SearchSuspendedWorkitem": "N",
            "ArchiveSearch": "N",
            "LockedByUser": "",
            "LockedByUserId": "0",
            "AssignedToUser": "",
            "AssignedToUserId": "0",
            "IntroducedByUser": "",
            "IntroducedByUserId": "0",
            "PinToSearch": "false",
            "SearchFlag": "1",
            "LockStatus": "B"
        },
        "DataFlag": "Y",
        "BatchInfo": {
            "OrderBy": "2",
            "SortOrder": "A",
            "LastValue": "",
            "ProcessInstanceId": "",
```

```
            "WorkitemID": "",
            "NoOfRecordsToFetch": "20"
        },
        "UserDefVarFlag": "Y",
        "ShowAllWorkItemsFlag": "Y",
        "usestdparser": "Y"
    }
}
```

JSON Response Body:

```
{
    "WFSearchWorkItemList_Output": {
        "TotalCount": 1,
        "QueryQueueId": 0,
        "Option": "WFSearchWorkItemList",
        "RetrievedCount": 1,
        "Exception": {
            "MainCode": 0
        },
        "WorkItemList": {
            "WorkItemInfo": [
                {
                    "ProcessName": "queuenametest",
                    "ParentWorkItemId": 0,
                    "LockedByFamilyName": "",
                    "ActivityName": "Workdesk_2",
                    "IntroducedByFamilyName": "",
                    "ActivityId": 2,
                    "RegistrationNo": "WF-0000000001-queuenametest",
                    "WorkItemState": "NOTSTARTED",
                    "ProcessDefinitionId": 161,
                    "IntroducedByPersonalName": "shaam",
                    "QueueType": "N",
                    "URN": "queuenametest-1",
                    "ProcessedByFamilyName": "",
                    "VAR_REC1": 4072,
                    "VAR_REC2": "queuenametest-1",
                    "PriorityLevel": 1,
                    "PendingSince": "2023-09-14 13:03:14.653",
                    "InstrumentStatus": "N",
                    "LockedByUserName": "",
                    "WorkItemId": 1,
                    "CreatedByUserName": "shaam",
                    "Referredby": "",
                    "LockedTime": "",
                    "QueueName": "queuenametest_SwimLane_1",
                    "ProcessInstanceState": 2,
                    "WorkItemStateId": 1,
                    "Status": "",
                    "AssignedToFamilyName": "",
                    "LockStatus": "N",
                    "ProcessedBy": "shaam",
                    "ActivityType": 10,
                    "QueueId": 333,
                    "Turnaroundtime": "",
```

```
                    "Data": {
                        "QueueData": [
                            {
                                "Value": "F",
                                "Name": "VAR_REC_2"
                            },
                            {
                                "Value": "",
                                "Name": "Q_DivertedByUserId"
                            }
                        ]
                    },
                    "ProcessVersionNo": 1,
                    "IntroductionDateTime": "2023-09-14 13:03:12.09",
                    "AssignedTo": "",
                    "AssignedToPersonalName": "",
                    "ProcessedByPersonalName": "shaam",
                    "CreationDateTime": "2023-09-14 13:03:02.023",
                    "IntroducedBy": "shaam",
                    "CheckListStatus": "N",
                    "ValidTill": "",
                    "AssignmentType": "S",
                    "TurnAroundDateTime": "",
                    "LockedByPersonalName": "",
                    "Referredto": "",
                    "Q_DivertedByUserId": 0
                }
            ]
        }
    }
}
```


Get workitem property

It gets the property of a workitem on the basis of given parameters.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMGetWorkitemData/*

Method type: POST

Request Media Type: application/xml or application/json

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping

engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	QueryParam	String type having value for processInstanceId
workitemId	QueryParam	String type having value for worktiemId

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: [Optional]

```
<WFGetWorkitemData_Input>
    <Option>WFGetWorkitemData</Option>
    <EngineName>ng1sql21aug</EngineName>
    <SessionID>-1734716438</SessionID>
    <ProcessInstanceID>WF-0000000017-queuenametest</ProcessInstanceID>
    <WorkItemID>1</WorkItemID>
    <ArchiveSearch>N</ArchiveSearch>
    <QueryWorkstep>N</QueryWorkstep>
    <DataFlag>N</DataFlag>
</WFGetWorkitemData_Input>
```

XML Response Body:

```
<?xml version="1.0"?>
<WFGetWorkitemData_Output>
    <Option>WFGetWorkitemData</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Instrument>
        <ProcessInstanceId>WF-0000000017-queuenametest</ProcessInstanceId>
        <ProcessInstanceName>WF-0000000017-queuenametest</ProcessInstanceName>
        <RouteId>161</RouteId>
        <RouteName>queuenametest</RouteName>
        <WorkStageId>1</WorkStageId>
        <ActivityName>Start Event_1</ActivityName>
        <PriorityLevel>1</PriorityLevel>
        <LockStatus>Y</LockStatus>
        <LockedByUserName>shaam</LockedByUserName>
        <LockedByPersonalName>shaam</LockedByPersonalName>
        <Statename>RUNNING</Statename>
        <EntryDateTime>2023-09-18 12:23:03.857</EntryDateTime>
```

```
        <LockedTime>2023-09-18 12:56:12.383</LockedTime>
        <AssignedTo>shaam</AssignedTo>
        <AssignedToPersonalName>shaam</AssignedToPersonalName>
        <WorkItemId>1</WorkItemId>
        <QueueName>queuenametest_Start Event_1</QueueName>
        <AssignmentType>S</AssignmentType>
        <QueueType>I</QueueType>
        <QueueId>332</QueueId>
        <UserID>124</UserID>
        <WorkitemState>2</WorkitemState>
        <URN>queuenametest-17</URN>
        <InstrumentStatus>N</InstrumentStatus>
        <CheckListCompleteFlag>N</CheckListCompleteFlag>
        <CreatedByUserName>shaam</CreatedByUserName>
        <CreatedByPersonalName>shaam</CreatedByPersonalName>
        <CreationDateTime>2023-09-18 12:23:03.857</CreationDateTime>
        <IntroducedByPersonalName>null</IntroducedByPersonalName>
        <ProcessInstanceState>1</ProcessInstanceState>
        <CacheTime>2023-09-14 13:11:44</CacheTime>
    </Instrument>
</WFGetWorkitemData_Output>
```

JSON Request Body: [Optional]

```
{
    "WFGetWorkitemData_Input": {
        "Option": "WFGetWorkitemData",
        "EngineName": "ng1sql21aug",
        "SessionID": "-1734716438",
        "ProcessInstanceID": "WF-0000000017-queuenametest",
        "WorkItemID": "1",
        "ArchiveSearch": "N",
        "QueryWorkstep": "N",
        "DataFlag": "N"
    }
}
```

JSON Response Body:


```
{
    "WFGetWorkitemData_Output": {
        "Instrument": {
            "CheckListCompleteFlag": "N",
            "ActivityName": "Start Event_1",
            "EntryDateTime": "2023-09-18 12:23:03.857",
            "CreatedByPersonalName": "shaam",
            "ProcessInstanceName": "WF-0000000017-queuenametest",
            "IntroducedByPersonalName": null,
            "WorkStageId": 1,
            "QueueType": "I",
            "URN": "queuenametest-17",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "LockedByUserName": "shaam",
            "Statename": "RUNNING",
            "UserID": 124,
            "WorkItemId": 1,
            "CreatedByUserName": "shaam",
            "LockedTime": "2023-09-18 13:17:09.127",
            "QueueName": "queuenametest_Start Event_1",
            "ProcessInstanceState": 1,
            "WorkitemState": 2,
            "LockStatus": "Y",
            "QueueId": 332,
            "RouteId": 161,
            "AssignedTo": "shaam",
            "AssignedToPersonalName": "shaam",
            "CreationDateTime": "2023-09-18 12:23:03.857",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000017-queuenametest",
            "CacheTime": "2023-09-14 13:11:44",
            "LockedByPersonalName": "shaam"
        },
        "Option": "WFGetWorkitemData",
        "Exception": {
            "MainCode": 0
        }
    }
}
```


Get workitem data

Opens and gets the workitem data on the basis of given parameters.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMGetWorkitemDataExt/*

Method type: POST

Request Media Type: application/xml or application/json

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	QueryParam	String type having value for processInstanceId
workitemId	QueryParam	String type having value for worktiemId

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: [Optional]

```
<WFGetWorkitemDataExt_Input>
    <Option>WFGetWorkitemDataExt</Option>
    <EngineName>ng1sql21aug</EngineName>
    <SessionId>-1734716438</SessionId>
    <ArchiveSearch>N</ArchiveSearch>
    <ProcessInstanceId>WF-0000000017-queuenametest</ProcessInstanceId>
    <WorkitemId>1</WorkitemId>
    <QueueId>332</QueueId>
    <QueueType>I</QueueType>
    <ActivityType>1</ActivityType>
    <DocOrderBy>5</DocOrderBy>
    <DocSortOrder>A</DocSortOrder>
    <ObjectPreferenceList>W,D</ObjectPreferenceList>
    <GenerateLog>Y</GenerateLog>
    <ZipBuffer>N</ZipBuffer>
    <UserDefVarFlag>Y</UserDefVarFlag>
</WFGetWorkitemDataExt_Input>
```

XML Response Body:

```
<?xml version="1.0"?>
<WFGetWorkitemDataExt_Output>
    <Option>WFGetWorkitemDataExt</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <UserDefVarFlag>Y</UserDefVarFlag>
    <Workitem>
        <CurrentDateTime>2023-09-18 17:36:18.003</CurrentDateTime>
        <ProcessInstanceId>gp29ms-0000000001-process</ProcessInstanceId>
        <WorkitemId>1</WorkitemId>
        <ProcessName>Genmultiplecomplex29MS</ProcessName>
        <ProcessVersion>1</ProcessVersion>
        <ProcessDefId>72</ProcessDefId>
        <ProcessedBy>mahendra</ProcessedBy>
        <ActivityName>Workdesk_3</ActivityName>
        <ActivityId>3</ActivityId>
        <EntryDateTime>2023-09-01 17:59:52.957</EntryDateTime>
        <AssignmentType>S</AssignmentType>
        <PriorityLevel>1</PriorityLevel>
        <QueueId>166</QueueId>
        <AssignedTo>shaam</AssignedTo>
        <WorkitemStateId>2</WorkitemStateId>
        <WorkitemState>RUNNING</WorkitemState>
        <LockStatus>Y</LockStatus>
        <LockedTime>2023-09-18 17:36:17.993</LockedTime>
        <QueueName>Genmultiplecomplex29MS_SwimLane_1</QueueName>
        <QueueType>N</QueueType>
        <VariantId>0</VariantId>
        <URN>gp29ms-1</URN>
        <IntroducedBy>mahendra</IntroducedBy>
        <IntroductionDateTime>2023-08-29 15:39:27.797</IntroductionDateTime>
        <CheckListCompleteFlag>N</CheckListCompleteFlag>
        <InstrumentStatus>N</InstrumentStatus>
        <ActivityType>10</ActivityType>
        <VAR_REC1>1166</VAR_REC1>
    </Workitem>
    <WorkitemData>
        <Documents>
            <Document>
                <DocumentIndex>425</DocumentIndex>
                <DocumentVersionNo>1.0</DocumentVersionNo>
                <DocumentName>Pan</DocumentName>
                <OwnerIndex>16</OwnerIndex>
                <OwnerInfo>
                    <Index>16</Index>
                    <Name>mahendra</Name>
                    <Type>U</Type>
                    <PersonalName>mahendra</PersonalName>
                    <FamilyName>singh</FamilyName>
                </OwnerInfo>
                <CreationDateTime>2023-09-01 17:52:28.86</CreationDateTime>
                <RevisedDateTime>2023-09-01 17:52:28.86</RevisedDateTime>
```

```
                <AccessDateTime>2023-09-01 17:52:28.86</AccessDateTime>
                <VersionFlag>N</VersionFlag>
                <DocumentType>I</DocumentType>
                <CreatedByApp>0</CreatedByApp>
                <ISIndex>295#1#</ISIndex>
                <NoOfPages>1</NoOfPages>
                <DocumentSize>32975</DocumentSize>
                <FTSDocumentIndex>0</FTSDocumentIndex>
                <EnableLog>N</EnableLog>
                <DocumentLock>N</DocumentLock>
                <Comment>Pan</Comment>
                <Author>mahendra</Author>
                <AuthorInfo>
                    <Index>16</Index>
                    <Name>mahendra</Name>
                    <PersonalName>mahendra</PersonalName>
                    <FamilyName>singh</FamilyName>
                </AuthorInfo>
                <FTSFlag>XX</FTSFlag>
                <DocStatus>A</DocStatus>
                <ExpiryDateTime>2123-09-01 17:52:28.86</ExpiryDateTime>
                <CheckoutStatus>N</CheckoutStatus>
                <ParentFolderIndex>1166</ParentFolderIndex>
                <DocOrderNo>1</DocOrderNo>
                <FiledDateTime>2023-09-01 17:52:28.86</FiledDateTime>
                <ReferenceFlag>O</ReferenceFlag>
                <LoginUserRights>111111111111</LoginUserRights>
                <Owner>mahendra</Owner>
                <FiledByUser>mahendra</FiledByUser>
                <FiledByUserInfo>
                    <Index>16</Index>
                    <Name>mahendra</Name>
                    <PersonalName>mahendra</PersonalName>
                    <FamilyName>singh</FamilyName>
                </FiledByUserInfo>
                <LockByUserInfo>
                    <Index>0</Index>
                </LockByUserInfo>
                <FinalizedByUserInfo>
                    <Index>0</Index>
                </FinalizedByUserInfo>
                <CheckoutByUserInfo>
                    <Index>0</Index>
                </CheckoutByUserInfo>
                <CreatedByAppName>pdf</CreatedByAppName>
                <DataDefinition>
                    <DataDefIndex>0</DataDefIndex>
                </DataDefinition>
                <PullPrintFlag>N</PullPrintFlag>
                <OriginalFolderIndex>-2</OriginalFolderIndex>
                <ThumbNailFlag>N</ThumbNailFlag>
                <LatestVersion>Y</LatestVersion>
                <ISSecureFlag>N</ISSecureFlag>
                <SignFlag>N</SignFlag>
                <OwnerType>U</OwnerType>
                <DocOnRemoteSite>-1</DocOnRemoteSite>
                <VolBlockId>-1</VolBlockId>
```

```
                <DocumentOffset>-1</DocumentOffset>
                <DocumentSize>-1</DocumentSize>
                <RemoteSiteId>-1</RemoteSiteId>
                <RemotePortId>-1</RemotePortId>
                <DocHeader>-1</DocHeader>
                <VolBlockHeader>-1</VolBlockHeader>
                <DiskId>-1</DiskId>
                <OldVolumeId>-1</OldVolumeId>
                <SMSType>-1</SMSType>
                <IsDocumentEncrypted>N</IsDocumentEncrypted>
                <ActualDocumentSize>-1</ActualDocumentSize>
                <RecordFlag>N</RecordFlag>
            </Document>
        </Documents>
        <ExternalData/>
        <CommentData/>
        <Attributes>
            <Attribute Length="2" Type="133" UserDefinedName="Age" VarFieldId="0"
VariableId="1" isView="N">25</Attribute>
            <Attribute Length="255" Type="1310" UserDefinedName="Name"
VarFieldId="0" VariableId="19" isView="N">Mohit</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="ItemIndex"
VarFieldId="0" VariableId="53" isView="N">1166</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="ItemType"
VarFieldId="0" VariableId="54" isView="N">F</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="VAR_REC_3"
VarFieldId="0" VariableId="55" isView="N"/>
            <Attribute Length="255" Type="3210" UserDefinedName="EventName"
VarFieldId="0" VariableId="56" isView="N"/>
            <Attribute Length="255" Type="3210" UserDefinedName="RoutingCount"
VarFieldId="0" VariableId="57" isView="N">2</Attribute>
            <Attribute Length="255" Type="323" UserDefinedName="HoldStatus"
VarFieldId="0" VariableId="39" isView="N"/>
            <Attribute Length="255" Type="3210"
UserDefinedName="CheckListCompleteFlag" VarFieldId="0" VariableId="50"
isView="N">N</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="InstrumentStatus"
VarFieldId="0" VariableId="37" isView="N">N</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="SaveStage"
VarFieldId="0" VariableId="34" isView="N">Start Event_1</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="Status"
VarFieldId="0" VariableId="42" isView="N"/>
            <Attribute Length="255" Type="3110" UserDefinedName="CalendarName"
VarFieldId="0" VariableId="10001" isView="N"/>
            <Attribute Length="255" Type="313110"
UserDefinedName="ChildProcessInstanceId" VarFieldId="0" VariableId="-1"
isView="N"/>
            <Attribute Length="255" Type="31313" UserDefinedName="ChildWorkItemId"
VarFieldId="0" VariableId="-2" isView="N"/>
            <Attribute Length="255" Type="323"
UserDefinedName="ProcessInstanceState" VarFieldId="0" VariableId="40"
isView="N">2</Attribute>
            <Attribute Length="255" Type="318" UserDefinedName="CreatedDateTime"
VarFieldId="0" VariableId="28" isView="N">2023-08-29 15:38:52.95</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="CreatedByName"
VarFieldId="0" VariableId="32" isView="N">mahendra</Attribute>
            <Attribute Length="255" Type="318"
```

```
UserDefinedName="IntroductionDateTime" VarFieldId="0" VariableId="35"
isView="N">2023-08-29 15:39:27.797</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="IntroducedBy"
VarFieldId="0" VariableId="36" isView="N">mahendra</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="IntroducedAt"
VarFieldId="0" VariableId="10003" isView="N">Start Event_1</Attribute>
            <Attribute Length="255" Type="323" UserDefinedName="PriorityLevel"
VarFieldId="0" VariableId="38" isView="N">1</Attribute>
            <Attribute Length="255" Type="323" UserDefinedName="WorkItemState"
VarFieldId="0" VariableId="41" isView="N">2</Attribute>
            <Attribute Length="255" Type="323" UserDefinedName="ActivityId"
VarFieldId="0" VariableId="43" isView="N">3</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="LockedByName"
VarFieldId="0" VariableId="46" isView="N">shaam</Attribute>
            <Attribute Length="255" Type="328" UserDefinedName="LockedTime"
VarFieldId="0" VariableId="47" isView="N">2023-09-18 17:36:17.993</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="LockStatus"
VarFieldId="0" VariableId="48" isView="N">Y</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="ActivityName"
VarFieldId="0" VariableId="49" isView="N">Workdesk_3</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="AssignmentType"
VarFieldId="0" VariableId="51" isView="N">S</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="ProcessedBy"
VarFieldId="0" VariableId="52" isView="N">mahendra</Attribute>
            <Attribute Length="255" Type="318" UserDefinedName="EntryDateTime"
VarFieldId="0" VariableId="29" isView="N">2023-09-01 17:59:52.957</Attribute>
            <Attribute Length="255" Type="318" UserDefinedName="ValidTillDateTime"
VarFieldId="0" VariableId="30" isView="N"/>
            <Attribute Length="255" Type="3110" UserDefinedName="WorkItemName"
VarFieldId="0" VariableId="31" isView="N">gp29ms-0000000001-process</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="PreviousStage"
VarFieldId="0" VariableId="33" isView="N">Workdesk_2</Attribute>
            <Attribute Length="255" Type="318"
UserDefinedName="TurnAroundDateTime" VarFieldId="0" VariableId="10002" isView="N"/
>
            <Attribute Length="255" Type="323" UserDefinedName="WorkItemId"
VarFieldId="0" VariableId="10004" isView="N">1</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="SecondaryDBFlag"
VarFieldId="0" VariableId="10022" isView="N">N</Attribute>
            <Attribute Length="255" Type="3110" UserDefinedName="URN"
VarFieldId="0" VariableId="10023" isView="N">gp29ms-1</Attribute>
            <Attribute Length="255" Type="3210"
UserDefinedName="ManualProcessingFlag" VarFieldId="0" VariableId="10024"
isView="N">N</Attribute>
            <Attribute Length="255" Type="323" UserDefinedName="DBExErrCode"
VarFieldId="0" VariableId="10025" isView="N"/>
            <Attribute Length="255" Type="3210" UserDefinedName="DBExErrDesc"
VarFieldId="0" VariableId="10026" isView="N"/>
            <Attribute Length="255" Type="3210" UserDefinedName="Locale"
VarFieldId="0" VariableId="10027" isView="N">en_US</Attribute>
            <Attribute Length="255" Type="318" UserDefinedName="CurrentDateTime"
VarFieldId="0" VariableId="27" isView="N">2023-09-18 17:36:18.15</Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="QueueName"
VarFieldId="0" VariableId="45" isView="N">Genmultiplecomplex29MS_SwimLane_1</
Attribute>
            <Attribute Length="255" Type="3210" UserDefinedName="QueueType"
VarFieldId="0" VariableId="44" isView="N">N</Attribute>
```

```
            <Attribute Length="255" Type="2310" UserDefinedName="Extname"
VarFieldId="0" VariableId="58" isView="N">Monu</Attribute>
            <Attribute Length="255" Type="234" UserDefinedName="Extsalary"
VarFieldId="0" VariableId="59" isView="N">32222</Attribute>
            <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueAdd" VarFieldId="1"
VariableId="60" isView="N">
                <Attribute Length="255" Type="2310" UserDefinedName="comadd1"
VarFieldId="2" VariableId="60" isView="N">david</Attribute>
                <Attribute Length="255" Type="2310" UserDefinedName="comadd2"
VarFieldId="3" VariableId="60" isView="N">hina</Attribute>
            </Attribute>
            <Attribute InsertionOrderId="4" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueAdd" VarFieldId="1"
VariableId="60" isView="N">
                <Attribute Length="255" Type="2310" UserDefinedName="comadd1"
VarFieldId="2" VariableId="60" isView="N">hello</Attribute>
                <Attribute Length="255" Type="2310" UserDefinedName="comadd2"
VarFieldId="3" VariableId="60" isView="N">mohit</Attribute>
            </Attribute>
            <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="1"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueBank" VarFieldId="1"
VariableId="61" isView="N">
                <Attribute Length="255" Type="2310" UserDefinedName="combankname"
VarFieldId="2" VariableId="61" isView="N">HDFC</Attribute>
                <Attribute Length="255" Type="234"
UserDefinedName="combankaccountnumber" VarFieldId="3" VariableId="61"
isView="N">232545665789</Attribute>
            </Attribute>
            <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueBill" VarFieldId="1"
VariableId="62" isView="N">
                <Attribute Length="255" Type="2310" UserDefinedName="month"
VarFieldId="2" VariableId="62" isView="N">123456</Attribute>
                <Attribute Length="255" Type="234" UserDefinedName="outstanding"
VarFieldId="3" VariableId="62" isView="N">3456</Attribute>
                <Attribute Length="255" Type="234" UserDefinedName="dueamount"
VarFieldId="4" VariableId="62" isView="N">4356</Attribute>
                <Attribute Length="255" Type="234" UserDefinedName="gstamount"
VarFieldId="5" VariableId="62" isView="N">4356</Attribute>
            </Attribute>
            <Attribute InsertionOrderId="4" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueBill" VarFieldId="1"
VariableId="62" isView="N">
                <Attribute Length="255" Type="2310" UserDefinedName="month"
VarFieldId="2" VariableId="62" isView="N">12345</Attribute>
                <Attribute Length="255" Type="234" UserDefinedName="outstanding"
VarFieldId="3" VariableId="62" isView="N">122</Attribute>
                <Attribute Length="255" Type="234" UserDefinedName="dueamount"
VarFieldId="4" VariableId="62" isView="N">231</Attribute>
                <Attribute Length="255" Type="234" UserDefinedName="gstamount"
VarFieldId="5" VariableId="62" isView="N">123</Attribute>
            </Attribute>
        </Attributes>
        <TimeElapsedToFetchQueueData>1</TimeElapsedToFetchQueueData>
        <TimeElapsedToFetchExternalData>1</TimeElapsedToFetchExternalData>
        <RetrievedCount>50</RetrievedCount>
```

```
        <Count>50</Count>
    </WorkitemData>
    <LockResult>Y</LockResult>
    <CacheTime>2023-08-29 12:40:07</CacheTime>
    <SessionId>-867294796</SessionId>
    <UserName>shaam</UserName>
</WFGetWorkitemDataExt_Output>
```

JSON Request Body: [Optional]

```
{
    "WFGetWorkitemDataExt_Input": {
        "Option": "WFGetWorkitemDataExt",
        "EngineName": "ng1sql21aug",
        "SessionId": "-1734716438",
        "ArchiveSearch": "N",
        "ProcessInstanceId": "WF-0000000017-queuenametest",
        "WorkitemId": "1",
        "QueueId": "332",
        "QueueType": "I",
        "ActivityType": "1",
        "DocOrderBy": "5",
        "DocSortOrder": "A",
        "ObjectPreferenceList": "W,D",
        "GenerateLog": "Y",
        "ZipBuffer": "N",
        "UserDefVarFlag": "Y"
    }
}
```

JSON Response Body:

```
{
    "WFGetWorkitemDataExt_Output": {
        "WorkitemData": {
            "TimeElapsedToFetchExternalData": 0,
            "Documents": {
                "Document": {
                    "Owner": "mahendra",
                    "FTSDocumentIndex": 0,
                    "SignFlag": "N",
                    "VolBlockHeader": -1,
                    "OwnerType": "U",
                    "FiledByUser": "mahendra",
                    "FiledDateTime": "2023-09-01 17:52:28.86",
                    "LockByUserInfo": {
                        "Index": 0
                    },
                    "OwnerInfo": {
                        "Type": "U",
                        "FamilyName": "singh",
                        "PersonalName": "mahendra",
                        "Index": 16,
                        "Name": "mahendra"
```

```
    },
    "FiledByUserInfo": {
        "FamilyName": "singh",
        "PersonalName": "mahendra",
        "Index": 16,
        "Name": "mahendra"
    },
    "VolBlockId": -1,
    "DocumentName": "Pan",
    "DocStatus": "A",
    "LoginUserRights": 111111111111,
    "NoOfPages": 1,
    "DocumentSize": [
        32975,
        -1
    ],
    "AuthorInfo": {
        "FamilyName": "singh",
        "PersonalName": "mahendra",
        "Index": 16,
        "Name": "mahendra"
    },
    "DocumentVersionNo": 1,
    "DataDefinition": {
        "DataDefIndex": 0
    },
    "OwnerIndex": 16,
    "FTSFlag": "XX",
    "CheckoutByUserInfo": {
        "Index": 0
    },
    "VersionFlag": "N",
    "ReferenceFlag": "O",
    "DocOnRemoteSite": -1,
    "RevisedDateTime": "2023-09-01 17:52:28.86",
    "DocHeader": -1,
    "Author": "mahendra",
    "PullPrintFlag": "N",
    "DocumentIndex": 425,
    "DiskId": -1,
    "OriginalFolderIndex": -2,
    "ThumbNailFlag": "N",
    "RemotePortId": -1,
    "ISIndex": "295#1#",
    "DocumentOffset": -1,
    "OldVolumeId": -1,
    "SMSType": -1,
    "RemoteSiteId": -1,
    "FinalizedByUserInfo": {
        "Index": 0
    },
    "Comment": "Pan",
    "CheckoutStatus": "N",
    "RecordFlag": "N",
    "AccessDateTime": "2023-09-01 17:52:28.86",
    "DocumentType": "I",
    "ISSecureFlag": "N",
```

```
                "EnableLog": "N",
                "CreatedByAppName": "pdf",
                "ActualDocumentSize": -1,
                "CreationDateTime": "2023-09-01 17:52:28.86",
                "ExpiryDateTime": "2123-09-01 17:52:28.86",
                "LatestVersion": "Y",
                "CreatedByApp": 0,
                "ParentFolderIndex": 1166,
                "IsDocumentEncrypted": "N",
                "DocumentLock": "N",
                "DocOrderNo": 1
            }
        },
        "Attributes": {
            "Attribute": [
                {
                    "Type": 133,
                    "Length": 2,
                    "isView": "N",
                    "UserDefinedName": "Age",
                    "VariableId": 1,
                    "VarFieldId": 0,
                    "content": 2343
                },
                {
                    "Type": 1310,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "Name",
                    "VariableId": 19,
                    "VarFieldId": 0,
                    "content": "wer"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "ItemIndex",
                    "VariableId": 53,
                    "VarFieldId": 0,
                    "content": 1166
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "ItemType",
                    "VariableId": 54,
                    "VarFieldId": 0,
                    "content": "F"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "VAR_REC_3",
                    "VariableId": 55,
```

```
            "VarFieldId": 0
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "EventName",
            "VariableId": 56,
            "VarFieldId": 0
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "RoutingCount",
            "VariableId": 57,
            "VarFieldId": 0,
            "content": 2
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "HoldStatus",
            "VariableId": 39,
            "VarFieldId": 0
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "CheckListCompleteFlag",
            "VariableId": 50,
            "VarFieldId": 0,
            "content": "N"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "InstrumentStatus",
            "VariableId": 37,
            "VarFieldId": 0,
            "content": "N"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "SaveStage",
            "VariableId": 34,
            "VarFieldId": 0,
            "content": "Start Event_1"
        },
        {
            "Type": 3110,
            "Length": 255,
```

```
            "isView": "N",
            "UserDefinedName": "Status",
            "VariableId": 42,
            "VarFieldId": 0
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "CalendarName",
            "VariableId": 10001,
            "VarFieldId": 0
        },
        {
            "Type": 313110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ChildProcessInstanceId",
            "VariableId": -1,
            "VarFieldId": 0
        },
        {
            "Type": 31313,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ChildWorkItemId",
            "VariableId": -2,
            "VarFieldId": 0
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ProcessInstanceState",
            "VariableId": 40,
            "VarFieldId": 0,
            "content": 2
        },
        {
            "Type": 318,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "CreatedDateTime",
            "VariableId": 28,
            "VarFieldId": 0,
            "content": "2023-08-29 15:38:52.95"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "CreatedByName",
            "VariableId": 32,
            "VarFieldId": 0,
            "content": "mahendra"
        },
        {
```

```
                    "Type": 318,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "IntroductionDateTime",
                    "VariableId": 35,
                    "VarFieldId": 0,
                    "content": "2023-08-29 15:39:27.797"
                },
                {
                    "Type": 3110,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "IntroducedBy",
                    "VariableId": 36,
                    "VarFieldId": 0,
                    "content": "mahendra"
                },
                {
                    "Type": 3110,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "IntroducedAt",
                    "VariableId": 10003,
                    "VarFieldId": 0,
                    "content": "Start Event_1"
                },
                {
                    "Type": 323,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "PriorityLevel",
                    "VariableId": 38,
                    "VarFieldId": 0,
                    "content": 1
                },
                {
                    "Type": 323,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "WorkItemState",
                    "VariableId": 41,
                    "VarFieldId": 0,
                    "content": 2
                },
                {
                    "Type": 323,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "ActivityId",
                    "VariableId": 43,
                    "VarFieldId": 0,
                    "content": 3
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
```

```
            "UserDefinedName": "LockedByName",
            "VariableId": 46,
            "VarFieldId": 0,
            "content": "shaam"
        },
        {
            "Type": 328,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "LockedTime",
            "VariableId": 47,
            "VarFieldId": 0,
            "content": "2023-09-18 13:26:25.37"
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "LockStatus",
            "VariableId": 48,
            "VarFieldId": 0,
            "content": "Y"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ActivityName",
            "VariableId": 49,
            "VarFieldId": 0,
            "content": "Workdesk_3"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "AssignmentType",
            "VariableId": 51,
            "VarFieldId": 0,
            "content": "S"
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ProcessedBy",
            "VariableId": 52,
            "VarFieldId": 0,
            "content": "mahendra"
        },
        {
            "Type": 318,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "EntryDateTime",
            "VariableId": 29,
            "VarFieldId": 0,
```

```
            "content": "2023-09-01 17:59:52.957"
        },
        {
            "Type": 318,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ValidTillDateTime",
            "VariableId": 30,
            "VarFieldId": 0
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "WorkItemName",
            "VariableId": 31,
            "VarFieldId": 0,
            "content": "gp29ms-0000000001-process"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "PreviousStage",
            "VariableId": 33,
            "VarFieldId": 0,
            "content": "Workdesk_2"
        },
        {
            "Type": 318,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "TurnAroundDateTime",
            "VariableId": 10002,
            "VarFieldId": 0
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "WorkItemId",
            "VariableId": 10004,
            "VarFieldId": 0,
            "content": 1
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "SecondaryDBFlag",
            "VariableId": 10022,
            "VarFieldId": 0,
            "content": "N"
        },
        {
            "Type": 3110,
            "Length": 255,
```

```
                    "isView": "N",
                    "UserDefinedName": "URN",
                    "VariableId": 10023,
                    "VarFieldId": 0,
                    "content": "gp29ms-1"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "ManualProcessingFlag",
                    "VariableId": 10024,
                    "VarFieldId": 0,
                    "content": "N"
                },
                {
                    "Type": 323,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "DBExErrCode",
                    "VariableId": 10025,
                    "VarFieldId": 0
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "DBExErrDesc",
                    "VariableId": 10026,
                    "VarFieldId": 0
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "Locale",
                    "VariableId": 10027,
                    "VarFieldId": 0,
                    "content": "en_US"
                },
                {
                    "Type": 318,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "CurrentDateTime",
                    "VariableId": 27,
                    "VarFieldId": 0,
                    "content": "2023-09-18 13:28:02.777"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "QueueName",
                    "VariableId": 45,
                    "VarFieldId": 0,
                    "content": "Genmultiplecomplex29MS_SwimLane_1"
```

```
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "QueueType",
                    "VariableId": 44,
                    "VarFieldId": 0,
                    "content": "N"
                },
                {
                    "Type": 2310,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "Extname",
                    "VariableId": 58,
                    "VarFieldId": 0,
                    "content": "ererwer"
                },
                {
                    "Type": 234,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "Extsalary",
                    "VariableId": 59,
                    "VarFieldId": 0,
                    "content": 32323
                },
                {
                    "Type": 2311,
                    "Length": 0,
                    "isView": "N",
                    "Attribute": [
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "comadd1",
                            "VariableId": 60,
                            "VarFieldId": 2,
                            "content": "david"
                        },
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "comadd2",
                            "VariableId": 60,
                            "VarFieldId": 3,
                            "content": "hina"
                        }
                    ],
                    "MaxInsertionOrderId": 1,
                    "UserDefinedName": "QueueAdd",
                    "InsertionOrderId": 1,
                    "MinInsertionOrderId": 1,
                    "VariableId": 60,
```

```
                    "VarFieldId": 1
                },
                {
                    "Type": 2311,
                    "Length": 0,
                    "isView": "N",
                    "Attribute": [
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "combankname",
                            "VariableId": 61,
                            "VarFieldId": 2,
                            "content": "HDFC"
                        },
                        {
                            "Type": 234,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "combankaccountnumber",
                            "VariableId": 61,
                            "VarFieldId": 3,
                            "content": 232545665789
                        }
                    ],
                    "MaxInsertionOrderId": 1,
                    "UserDefinedName": "QueueBank",
                    "InsertionOrderId": 1,
                    "MinInsertionOrderId": 1,
                    "VariableId": 61,
                    "VarFieldId": 1
                },
                {
                    "Type": 2311,
                    "Length": 0,
                    "isView": "N",
                    "Attribute": [
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "month",
                            "VariableId": 62,
                            "VarFieldId": 2,
                            "content": 123456
                        },
                        {
                            "Type": 234,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "outstanding",
                            "VariableId": 62,
                            "VarFieldId": 3,
                            "content": 3456
                        },
                        {
```

```
                            "Type": 234,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "dueamount",
                            "VariableId": 62,
                            "VarFieldId": 4,
                            "content": 4356
                        },
                        {
                            "Type": 234,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "gstamount",
                            "VariableId": 62,
                            "VarFieldId": 5,
                            "content": 4356
                        }
                    ],
                    "MaxInsertionOrderId": 1,
                    "UserDefinedName": "QueueBill",
                    "InsertionOrderId": 1,
                    "MinInsertionOrderId": 1,
                    "VariableId": 62,
                    "VarFieldId": 1
                }
            ]
        },
        "TimeElapsedToFetchQueueData": 0,
        "CommentData": "",
        "Count": 50,
        "ExternalData": "",
        "RetrievedCount": 50
    },
    "Workitem": {
        "CheckListCompleteFlag": "N",
        "ProcessName": "Genmultiplecomplex29MS",
        "ActivityName": "Workdesk_3",
        "EntryDateTime": "2023-09-01 17:59:52.957",
        "WorkitemStateId": 2,
        "ActivityId": 3,
        "QueueType": "N",
        "URN": "gp29ms-1",
        "VAR_REC1": 1166,
        "PriorityLevel": 1,
        "InstrumentStatus": "N",
        "LockedTime": "2023-09-18 13:26:25.37",
        "QueueName": "Genmultiplecomplex29MS_SwimLane_1",
        "WorkitemId": 1,
        "WorkitemState": "RUNNING",
        "ProcessVersion": 1,
        "ProcessedBy": "mahendra",
        "LockStatus": "Y",
        "ActivityType": 10,
        "ProcessDefId": 72,
        "QueueId": 166,
        "CurrentDateTime": "2023-09-18 13:28:02.72",
        "VariantId": 0,
```

```
            "IntroductionDateTime": "2023-08-29 15:39:27.797",
            "AssignedTo": "shaam",
            "IntroducedBy": "mahendra",
            "AssignmentType": "S",
            "ProcessInstanceId": "gp29ms-0000000001-process"
        },
        "LockResult": "N",
        "UserName": "shaam",
        "UserDefVarFlag": "Y",
        "Option": "WFGetWorkitemDataExt",
        "CacheTime": "2023-08-29 12:40:07",
        "SessionId": -1734716438,
        "Exception": {
            "MainCode": 0
        }
    }
}
```


Save process variables

Saves process variables of a process instanceid based on given parameters or complete input XML.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WFSetAttributes/*

Method type: POST

Request Media Type: application/xml or application/json

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session ID value
processInstanceId	QueryParam	String type having valid process instanceid Id which is in a locked state by the session id.
workitemId	QueryParam	String type having workitem ID of the processinstanceid.
attributes	QueryParam	XML of attributes in String form :i.e

		<complexData><name>john</name><age>29</age></complexData>

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body:

```
<WMAssignWorkItemAttributes_Input>
    <Option>WMAssignWorkItemAttributes</Option>
    <EngineName>ng1sql21aug</EngineName>
    <SessionId>-1734716438</SessionId>
    <IsValidationRequired>Y</IsValidationRequired>
    <ProcessInstanceId>gp29ms-0000000001-process</ProcessInstanceId>
    <WorkitemId>1</WorkitemId>
    <ActivityId>3</ActivityId>
    <ProcessDefId>72</ProcessDefId>
    <ActivityType>1</ActivityType>
    <UserDefVarFlag>Y</UserDefVarFlag>
    <LastModifiedTime/>
    <Attributes>
        <Attribute UserDefinedName="Age">25</Attribute>
        <Attribute UserDefinedName="Name">Mohit</Attribute>
        <Attribute UserDefinedName="Extname">Monu</Attribute>
        <Attribute UserDefinedName="Extsalary">32222</Attribute>
        <Attribute UserDefinedName="QueueAdd">
            <Attribute UserDefinedName="InsertionOrderId">4</Attribute>
            <Attribute UserDefinedName="comadd1">hello</Attribute>
            <Attribute UserDefinedName="comadd2">mohit</Attribute>
        </Attribute>
        <Attribute UserDefinedName="QueueBill">
            <Attribute UserDefinedName="InsertionOrderId">4</Attribute>
            <Attribute UserDefinedName="month">12345</Attribute>
            <Attribute UserDefinedName="outstanding">122</Attribute>
            <Attribute UserDefinedName="dueamount">231</Attribute>
            <Attribute UserDefinedName="gstamount">123</Attribute>
        </Attribute>
    </Attributes>
</WMAssignWorkItemAttributes_Input>
```

XML Response Body:

```
<WFSetAttributes_Output>
    <Option>WFSetAttributes</Option>
    <Exception>
```

```
        <MainCode>0</MainCode>
    </Exception>
    <WorkitemUnholded>N</WorkitemUnholded>
</WFSetAttributes_Output>
```

JSON Request Body:

```
{
    "WMAssignWorkItemAttributes_Input": {
        "Option": "WMAssignWorkItemAttributes",
        "EngineName": "ng1sql21aug",
        "SessionId": 500998863,
        "AllowSpaceInVariable": "N",
        "IsValidationRequired": "Y",
        "ProcessInstanceId": "gp29ms-0000000001-process",
        "WorkitemId": 1,
        "ActivityId": 3,
        "ProcessDefId": 72,
        "ActivityType": 1,
        "UserDefVarFlag": "Y",
        "LastModifiedTime": "",
        "Attributes": {
            "Age": 25,
            "Name": "Mohit",
            "Extname": "Monu",
            "Extsalary": 32222,
            "QueueAdd": {
                "InsertionOrderId": 4,
                "comadd1": "hello",
                "comadd2": "mohit"
            },
            "QueueBill": {
                "InsertionOrderId": 4,
                "month": 12345,
                "outstanding": 122,
                "dueamount": 231,
                "gstamount": 123
            }
        }
    }
}
```

JSON Response Body:

```
{
    "WFSetAttributes_Output": {
        "WorkitemUnholded": "N",
        "Option": "WFSetAttributes",
        "Exception": {
            "MainCode": 0
        }
    }
}
```

Get process variables

Fetches process variables for a process on the basis of given parameters.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WFGetProcessVariables/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	QueryParam	String type having valid session ID value
processDefId	QueryParam	String type having valid processdef ID value
activityId	QueryParam	String type having valid activity ID value

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WFGetProcessVariables_Output>
    <Option>WFGetProcessVariables</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Attributes>
        <Attribute>
```

```
            <Name>Age</Name>
            <Type>133</Type>
            <Length>2</Length>
            <Unbounded>N</Unbounded>
            <SystemDefinedName>VAR_INT1</SystemDefinedName>
            <EntityName/>
        </Attribute>
        <Attribute>
            <Name>Extname</Name>
            <Type>2310</Type>
            <Length>255</Length>
            <Unbounded>N</Unbounded>
            <SystemDefinedName>extname</SystemDefinedName>
            <EntityName/>
        </Attribute>
        <Attribute>
            <Name>Extsalary</Name>
            <Type>234</Type>
            <Length>255</Length>
            <Unbounded>N</Unbounded>
            <SystemDefinedName>extsalary</SystemDefinedName>
            <EntityName/>
        </Attribute>
        <Attribute>
            <Name>Name</Name>
            <Type>1310</Type>
            <Length>255</Length>
            <Unbounded>N</Unbounded>
            <SystemDefinedName>VAR_STR1</SystemDefinedName>
            <EntityName/>
        </Attribute>
        <Attribute>
            <Name>QueueAdd</Name>
            <Type>2311</Type>
            <Length>0</Length>
            <Unbounded>Y</Unbounded>
            <SystemDefinedName>comstradd_Genmultiplecomplex29MS_418</
SystemDefinedName>
            <EntityName/>
        </Attribute>
        <Attribute>
            <Name>QueueBank</Name>
            <Type>2311</Type>
            <Length>0</Length>
            <Unbounded>Y</Unbounded>
            <SystemDefinedName>comstrbank_Genmultiplecomplex29MS_162</
SystemDefinedName>
            <EntityName/>
        </Attribute>
        <Attribute>
            <Name>QueueBill</Name>
            <Type>2311</Type>
            <Length>0</Length>
            <Unbounded>Y</Unbounded>
            <SystemDefinedName>comstrbill_Genmultiplecomplex29MS_663</
SystemDefinedName>
            <EntityName/>
```

```
        </Attribute>
    </Attributes>
    <Count>7</Count>
    <UserDefTypeDescInfo>
        <UserDefTypeDesc>
            <TypeId>1</TypeId>
            <TypeName>comstradd_Genmultiplecomplex29MS_418</TypeName>
            <ExtensionTypeId>-1</ExtensionTypeId>
        </UserDefTypeDesc>
        <UserDefTypeDesc>
            <TypeId>2</TypeId>
            <TypeName>comstrbank_Genmultiplecomplex29MS_162</TypeName>
            <ExtensionTypeId>-1</ExtensionTypeId>
        </UserDefTypeDesc>
        <UserDefTypeDesc>
            <TypeId>3</TypeId>
            <TypeName>comstrbill_Genmultiplecomplex29MS_663</TypeName>
            <ExtensionTypeId>-1</ExtensionTypeId>
        </UserDefTypeDesc>
    </UserDefTypeDescInfo>
    <UserDefinedTypeInfo>
        <UserDefinedType>
            <ParentTypeId>1</ParentTypeId>
            <TypeFieldId>1</TypeFieldId>
            <FieldName>comadd1</FieldName>
            <WFType>10</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
        <UserDefinedType>
            <ParentTypeId>1</ParentTypeId>
            <TypeFieldId>2</TypeFieldId>
            <FieldName>comadd2</FieldName>
            <WFType>10</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
        <UserDefinedType>
            <ParentTypeId>2</ParentTypeId>
            <TypeFieldId>1</TypeFieldId>
            <FieldName>combankname</FieldName>
            <WFType>10</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
        <UserDefinedType>
            <ParentTypeId>2</ParentTypeId>
            <TypeFieldId>2</TypeFieldId>
            <FieldName>combankaccountnumber</FieldName>
            <WFType>4</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
```

```
        <UserDefinedType>
            <ParentTypeId>3</ParentTypeId>
            <TypeFieldId>1</TypeFieldId>
            <FieldName>month</FieldName>
            <WFType>10</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
        <UserDefinedType>
            <ParentTypeId>3</ParentTypeId>
            <TypeFieldId>2</TypeFieldId>
            <FieldName>outstanding</FieldName>
            <WFType>4</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
        <UserDefinedType>
            <ParentTypeId>3</ParentTypeId>
            <TypeFieldId>3</TypeFieldId>
            <FieldName>dueamount</FieldName>
            <WFType>4</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
        <UserDefinedType>
            <ParentTypeId>3</ParentTypeId>
            <TypeFieldId>4</TypeFieldId>
            <FieldName>gstamount</FieldName>
            <WFType>4</WFType>
            <TypeId>0</TypeId>
            <Unbounded>N</Unbounded>
            <ExtensionTypeId>0</ExtensionTypeId>
        </UserDefinedType>
    </UserDefinedTypeInfo>
</WFGetProcessVariables_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WFGetProcessVariables_Output": {
        "Attributes": {
            "Attribute": [
                {
                    "Type": 133,
                    "EntityName": "",
                    "Length": 2,
                    "SystemDefinedName": "VAR_INT1",
                    "Name": "Age",
                    "Unbounded": "N"
                },
```

```
                {
                    "Type": 2310,
                    "EntityName": "",
                    "Length": 255,
                    "SystemDefinedName": "extname",
                    "Name": "Extname",
                    "Unbounded": "N"
                },
                {
                    "Type": 234,
                    "EntityName": "",
                    "Length": 255,
                    "SystemDefinedName": "extsalary",
                    "Name": "Extsalary",
                    "Unbounded": "N"
                },
                {
                    "Type": 1310,
                    "EntityName": "",
                    "Length": 255,
                    "SystemDefinedName": "VAR_STR1",
                    "Name": "Name",
                    "Unbounded": "N"
                },
                {
                    "Type": 2311,
                    "EntityName": "",
                    "Length": 0,
                    "SystemDefinedName": "comstradd_Genmultiplecomplex29MS_418",
                    "Name": "QueueAdd",
                    "Unbounded": "Y"
                },
                {
                    "Type": 2311,
                    "EntityName": "",
                    "Length": 0,
                    "SystemDefinedName": "comstrbank_Genmultiplecomplex29MS_162",
                    "Name": "QueueBank",
                    "Unbounded": "Y"
                },
                {
                    "Type": 2311,
                    "EntityName": "",
                    "Length": 0,
                    "SystemDefinedName": "comstrbill_Genmultiplecomplex29MS_663",
                    "Name": "QueueBill",
                    "Unbounded": "Y"
                }
            ]
        },
        "UserDefinedTypeInfo": {
            "UserDefinedType": [
                {
                    "TypeFieldId": 1,
                    "WFType": 10,
                    "TypeId": 0,
                    "ParentTypeId": 1,
```

```
            "ExtensionTypeId": 0,
            "FieldName": "comadd1",
            "Unbounded": "N"
        },
        {
            "TypeFieldId": 2,
            "WFType": 10,
            "TypeId": 0,
            "ParentTypeId": 1,
            "ExtensionTypeId": 0,
            "FieldName": "comadd2",
            "Unbounded": "N"
        },
        {
            "TypeFieldId": 1,
            "WFType": 10,
            "TypeId": 0,
            "ParentTypeId": 2,
            "ExtensionTypeId": 0,
            "FieldName": "combankname",
            "Unbounded": "N"
        },
        {
            "TypeFieldId": 2,
            "WFType": 4,
            "TypeId": 0,
            "ParentTypeId": 2,
            "ExtensionTypeId": 0,
            "FieldName": "combankaccountnumber",
            "Unbounded": "N"
        },
        {
            "TypeFieldId": 1,
            "WFType": 10,
            "TypeId": 0,
            "ParentTypeId": 3,
            "ExtensionTypeId": 0,
            "FieldName": "month",
            "Unbounded": "N"
        },
        {
            "TypeFieldId": 2,
            "WFType": 4,
            "TypeId": 0,
            "ParentTypeId": 3,
            "ExtensionTypeId": 0,
            "FieldName": "outstanding",
            "Unbounded": "N"
        },
        {
            "TypeFieldId": 3,
            "WFType": 4,
            "TypeId": 0,
            "ParentTypeId": 3,
            "ExtensionTypeId": 0,
            "FieldName": "dueamount",
            "Unbounded": "N"
```

```
                },
                {
                    "TypeFieldId": 4,
                    "WFType": 4,
                    "TypeId": 0,
                    "ParentTypeId": 3,
                    "ExtensionTypeId": 0,
                    "FieldName": "gstamount",
                    "Unbounded": "N"
                }
            ]
        },
        "Option": "WFGetProcessVariables",
        "Count": 7,
        "UserDefTypeDescInfo": {
            "UserDefTypeDesc": [
                {
                    "TypeId": 1,
                    "TypeName": "comstradd_Genmultiplecomplex29MS_418",
                    "ExtensionTypeId": -1
                },
                {
                    "TypeId": 2,
                    "TypeName": "comstrbank_Genmultiplecomplex29MS_162",
                    "ExtensionTypeId": -1
                },
                {
                    "TypeId": 3,
                    "TypeName": "comstrbill_Genmultiplecomplex29MS_663",
                    "ExtensionTypeId": -1
                }
            ]
        },
        "Exception": {
            "MainCode": 0
        }
    }
}
```


Get DMS folder index

Fetches DMS folder index of the process.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WFGetDMSFolderDefinition/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processDefId	Query Param	String type having the value of process def id

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WFGetDMSFolderDefinition_Output>
    <Option>WFGetDMSFolderDefinition</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <DMSFolderDefinition>
        <ProcessDefinitionId>72</ProcessDefinitionId>
        <CabinetName>ng1sql21aug</CabinetName>
        <RouteFolderId>1130</RouteFolderId>
        <ScratchFolderId>0</ScratchFolderId>
        <WorkFlowFolderId>1131</WorkFlowFolderId>
        <CompletedFolderId>0</CompletedFolderId>
        <DiscardFolderId>0</DiscardFolderId>
        <DataClass>exttable18jan_Genmultiplecomplex29MS_662</DataClass>
    </DMSFolderDefinition>
    <DMSFolderDefinition>
        <ProcessDefinitionId>72</ProcessDefinitionId>
        <CabinetName>ng1sql21aug</CabinetName>
        <RouteFolderId>1130</RouteFolderId>
        <ScratchFolderId>0</ScratchFolderId>
        <WorkFlowFolderId>1131</WorkFlowFolderId>
        <CompletedFolderId>0</CompletedFolderId>
        <DiscardFolderId>0</DiscardFolderId>
        <DataClass>comstradd_Genmultiplecomplex29MS_418</DataClass>
    </DMSFolderDefinition>
```

```
    <DMSFolderDefinition>
        <ProcessDefinitionId>72</ProcessDefinitionId>
        <CabinetName>ng1sql21aug</CabinetName>
        <RouteFolderId>1130</RouteFolderId>
        <ScratchFolderId>0</ScratchFolderId>
        <WorkFlowFolderId>1131</WorkFlowFolderId>
        <CompletedFolderId>0</CompletedFolderId>
        <DiscardFolderId>0</DiscardFolderId>
        <DataClass>comstrbank_Genmultiplecomplex29MS_162</DataClass>
    </DMSFolderDefinition>
    <DMSFolderDefinition>
        <ProcessDefinitionId>72</ProcessDefinitionId>
        <CabinetName>ng1sql21aug</CabinetName>
        <RouteFolderId>1130</RouteFolderId>
        <ScratchFolderId>0</ScratchFolderId>
        <WorkFlowFolderId>1131</WorkFlowFolderId>
        <CompletedFolderId>0</CompletedFolderId>
        <DiscardFolderId>0</DiscardFolderId>
        <DataClass>comstrbill_Genmultiplecomplex29MS_663</DataClass>
    </DMSFolderDefinition>
</WFGetDMSFolderDefinition_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WFGetDMSFolderDefinition_Output": {
        "Option": "WFGetDMSFolderDefinition",
        "Exception": {
            "MainCode": 0
        },
        "DMSFolderDefinition": [
            {
                "ScratchFolderId": 0,
                "DataClass": "exttable18jan_Genmultiplecomplex29MS_662",
                "CabinetName": "ng1sql21aug",
                "CompletedFolderId": 0,
                "ProcessDefinitionId": 72,
                "WorkFlowFolderId": 1131,
                "RouteFolderId": 1130,
                "DiscardFolderId": 0
            },
            {
                "ScratchFolderId": 0,
                "DataClass": "comstradd_Genmultiplecomplex29MS_418",
                "CabinetName": "ng1sql21aug",
                "CompletedFolderId": 0,
                "ProcessDefinitionId": 72,
                "WorkFlowFolderId": 1131,
                "RouteFolderId": 1130,
                "DiscardFolderId": 0
            },
            {
                "ScratchFolderId": 0,
```

```
                "DataClass": "comstrbank_Genmultiplecomplex29MS_162",
                "CabinetName": "ng1sql21aug",
                "CompletedFolderId": 0,
                "ProcessDefinitionId": 72,
                "WorkFlowFolderId": 1131,
                "RouteFolderId": 1130,
                "DiscardFolderId": 0
            },
            {
                "ScratchFolderId": 0,
                "DataClass": "comstrbill_Genmultiplecomplex29MS_663",
                "CabinetName": "ng1sql21aug",
                "CompletedFolderId": 0,
                "ProcessDefinitionId": 72,
                "WorkFlowFolderId": 1131,
                "RouteFolderId": 1130,
                "DiscardFolderId": 0
            }
        ]
    }
}
```


Start a process

Starts an operational instance by introducing it into WorkFlow.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMStartProcess/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	Query Param	String type having the value of process instance id created

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMStartProcess_Output>
    <Option>WMStartProcess</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessInstanceId>raw-0000000023-process</ProcessInstanceId>
    <WorkitemId>1</WorkitemId>
    <URN>raw-23</URN>
    <ActivityName>Start Event_1</ActivityName>
    <ActivityId>1</ActivityId>
    <CompletionTime>2346922</CompletionTime>
</WMStartProcess_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMStartProcess_Output": {
        "URN": "raw-24",
        "ActivityName": "Start Event_1",
        "CompletionTime": 2341818,
        "ActivityId": 1,
        "Option": "WMStartProcess",
        "ProcessInstanceId": "raw-0000000024-process",
        "Exception": {
            "MainCode": 0
        },
        "WorkitemId": 1
    }
}
```

Delete a workitem

Deletes a workitem.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WFDeleteWorkItem/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	Query Param	String type having the value of process instance id created

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WFDeleteWorkItem_Output>
    <Option>WFDeleteWorkItem</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
</WFDeleteWorkItem_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WFDeleteWorkItem_Output": {
        "Option": "WFDeleteWorkItem",
        "Exception": {
            "MainCode": 0
        }
    }
}
```

Lock workitem

Locks a workitem.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMGetWorkItem/*

Method type: POST

Request Media Type: Not applicable

Response Media Type:

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	Query Param	String type having the value of process instance id
workitemId	Query Param	String type having the value of worktiem id

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMGetWorkItem_Output>
    <Option>WMGetWorkItem</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Workitem>
        <WorkitemName>raw-0000000029-process</WorkitemName>
        <WorkitemId>1</WorkitemId>
        <ActivityInstanceId>1</ActivityInstanceId>
        <ProcessInstanceId>raw-0000000029-process</ProcessInstanceId>
        <PriorityLevel>1</PriorityLevel>
        <Participants>
            <Participant>shaam</Participant>
        </Participants>
        <URN>raw-29</URN>
    </Workitem>
    <SessionId>-1090863780</SessionId>
    <UserName>shaam</UserName>
    <ProcessInstanceId>raw-0000000029-process</ProcessInstanceId>
    <WorkItemId>1</WorkItemId>
</WMGetWorkItem_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMGetWorkItem_Output": {
        "Workitem": {
            "URN": "raw-29",
            "PriorityLevel": 1,
            "ActivityInstanceId": 1,
            "WorkitemName": "raw-0000000029-process",
            "Participants": {
                "Participant": "shaam"
            },
            "ProcessInstanceId": "raw-0000000029-process",
            "WorkitemId": 1
        },
        "UserName": "shaam",
        "WorkItemId": 1,
        "Option": "WMGetWorkItem",
        "ProcessInstanceId": "raw-0000000029-process",
        "SessionId": -1090863780,
        "Exception": {
            "MainCode": 0
        }
    }
}
```

Fetch workitem attributes

Fetches attributes of a given workitem.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMFetchWorkItemAttributes/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	Query Param	String type having value of process instance id.
workitemId	Query Param	String type having the value of worktiem id.

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMFetchWorkItemAttributes_Output>
    <Option>WMFetchWorkItemAttributes</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <UserDefVarFlag>Y</UserDefVarFlag>
    <Attributes>
```

```
        <Attribute Length="2" Type="133" UserDefinedName="Age" VarFieldId="0"
VariableId="1" isView="N">25</Attribute>
        <Attribute Length="255" Type="1310" UserDefinedName="Name" VarFieldId="0"
VariableId="19" isView="N">Mohit</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="ItemIndex"
VarFieldId="0" VariableId="53" isView="N">1166</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="ItemType"
VarFieldId="0" VariableId="54" isView="N">F</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="VAR_REC_3"
VarFieldId="0" VariableId="55" isView="N"/>
        <Attribute Length="255" Type="3210" UserDefinedName="EventName"
VarFieldId="0" VariableId="56" isView="N"/>
        <Attribute Length="255" Type="3210" UserDefinedName="RoutingCount"
VarFieldId="0" VariableId="57" isView="N">2</Attribute>
        <Attribute Length="255" Type="323" UserDefinedName="HoldStatus"
VarFieldId="0" VariableId="39" isView="N"/>
        <Attribute Length="255" Type="3210"
UserDefinedName="CheckListCompleteFlag" VarFieldId="0" VariableId="50"
isView="N">N</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="InstrumentStatus"
VarFieldId="0" VariableId="37" isView="N">N</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="SaveStage"
VarFieldId="0" VariableId="34" isView="N">Start Event_1</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="Status"
VarFieldId="0" VariableId="42" isView="N"/>
        <Attribute Length="255" Type="3110" UserDefinedName="CalendarName"
VarFieldId="0" VariableId="10001" isView="N"/>
        <Attribute Length="255" Type="313110"
UserDefinedName="ChildProcessInstanceId" VarFieldId="0" VariableId="-1"
isView="N"/>
        <Attribute Length="255" Type="31313" UserDefinedName="ChildWorkItemId"
VarFieldId="0" VariableId="-2" isView="N"/>
        <Attribute Length="255" Type="323" UserDefinedName="ProcessInstanceState"
VarFieldId="0" VariableId="40" isView="N">2</Attribute>
        <Attribute Length="255" Type="318" UserDefinedName="CreatedDateTime"
VarFieldId="0" VariableId="28" isView="N">2023-08-29 15:38:52.95</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="CreatedByName"
VarFieldId="0" VariableId="32" isView="N">mahendra</Attribute>
        <Attribute Length="255" Type="318" UserDefinedName="IntroductionDateTime"
VarFieldId="0" VariableId="35" isView="N">2023-08-29 15:39:27.797</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="IntroducedBy"
VarFieldId="0" VariableId="36" isView="N">mahendra</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="IntroducedAt"
VarFieldId="0" VariableId="10003" isView="N">Start Event_1</Attribute>
        <Attribute Length="255" Type="323" UserDefinedName="PriorityLevel"
VarFieldId="0" VariableId="38" isView="N">1</Attribute>
        <Attribute Length="255" Type="323" UserDefinedName="WorkItemState"
VarFieldId="0" VariableId="41" isView="N">2</Attribute>
        <Attribute Length="255" Type="323" UserDefinedName="ActivityId"
VarFieldId="0" VariableId="43" isView="N">3</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="LockedByName"
VarFieldId="0" VariableId="46" isView="N"/>
        <Attribute Length="255" Type="328" UserDefinedName="LockedTime"
VarFieldId="0" VariableId="47" isView="N"/>
        <Attribute Length="255" Type="3210" UserDefinedName="LockStatus"
VarFieldId="0" VariableId="48" isView="N">N</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="ActivityName"
```

```
VarFieldId="0" VariableId="49" isView="N">Workdesk_3</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="AssignmentType"
VarFieldId="0" VariableId="51" isView="N">S</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="ProcessedBy"
VarFieldId="0" VariableId="52" isView="N">mahendra</Attribute>
        <Attribute Length="255" Type="318" UserDefinedName="EntryDateTime"
VarFieldId="0" VariableId="29" isView="N">2023-09-01 17:59:52.957</Attribute>
        <Attribute Length="255" Type="318" UserDefinedName="ValidTillDateTime"
VarFieldId="0" VariableId="30" isView="N"/>
        <Attribute Length="255" Type="3110" UserDefinedName="WorkItemName"
VarFieldId="0" VariableId="31" isView="N">gp29ms-0000000001-process</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="PreviousStage"
VarFieldId="0" VariableId="33" isView="N">Workdesk_2</Attribute>
        <Attribute Length="255" Type="318" UserDefinedName="TurnAroundDateTime"
VarFieldId="0" VariableId="10002" isView="N"/>
        <Attribute Length="255" Type="323" UserDefinedName="WorkItemId"
VarFieldId="0" VariableId="10004" isView="N">1</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="SecondaryDBFlag"
VarFieldId="0" VariableId="10022" isView="N">N</Attribute>
        <Attribute Length="255" Type="3110" UserDefinedName="URN" VarFieldId="0"
VariableId="10023" isView="N">gp29ms-1</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="ManualProcessingFlag"
VarFieldId="0" VariableId="10024" isView="N">N</Attribute>
        <Attribute Length="255" Type="323" UserDefinedName="DBExErrCode"
VarFieldId="0" VariableId="10025" isView="N"/>
        <Attribute Length="255" Type="3210" UserDefinedName="DBExErrDesc"
VarFieldId="0" VariableId="10026" isView="N"/>
        <Attribute Length="255" Type="3210" UserDefinedName="Locale"
VarFieldId="0" VariableId="10027" isView="N">en_US</Attribute>
        <Attribute Length="255" Type="318" UserDefinedName="CurrentDateTime"
VarFieldId="0" VariableId="27" isView="N">2023-09-18 16:30:31.137</Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="QueueName"
VarFieldId="0" VariableId="45" isView="N">Genmultiplecomplex29MS_SwimLane_1</
Attribute>
        <Attribute Length="255" Type="3210" UserDefinedName="QueueType"
VarFieldId="0" VariableId="44" isView="N">N</Attribute>
        <Attribute Length="255" Type="2310" UserDefinedName="Extname"
VarFieldId="0" VariableId="58" isView="N">Monu</Attribute>
        <Attribute Length="255" Type="234" UserDefinedName="Extsalary"
VarFieldId="0" VariableId="59" isView="N">32222</Attribute>
        <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueAdd" VarFieldId="1"
VariableId="60" isView="N">
            <Attribute Length="255" Type="2310" UserDefinedName="comadd1"
VarFieldId="2" VariableId="60" isView="N">david</Attribute>
            <Attribute Length="255" Type="2310" UserDefinedName="comadd2"
VarFieldId="3" VariableId="60" isView="N">hina</Attribute>
        </Attribute>
        <Attribute InsertionOrderId="4" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueAdd" VarFieldId="1"
VariableId="60" isView="N">
            <Attribute Length="255" Type="2310" UserDefinedName="comadd1"
VarFieldId="2" VariableId="60" isView="N">hello</Attribute>
            <Attribute Length="255" Type="2310" UserDefinedName="comadd2"
VarFieldId="3" VariableId="60" isView="N">mohit</Attribute>
        </Attribute>
        <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="1"
```

```
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueBank" VarFieldId="1"
VariableId="61" isView="N">
            <Attribute Length="255" Type="2310" UserDefinedName="combankname"
VarFieldId="2" VariableId="61" isView="N">monu</Attribute>
            <Attribute Length="255" Type="234"
UserDefinedName="combankaccountnumber" VarFieldId="3" VariableId="61"
isView="N">232545665789</Attribute>
        </Attribute>
        <Attribute InsertionOrderId="1" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueBill" VarFieldId="1"
VariableId="62" isView="N">
            <Attribute Length="255" Type="2310" UserDefinedName="month"
VarFieldId="2" VariableId="62" isView="N">123456</Attribute>
            <Attribute Length="255" Type="234" UserDefinedName="outstanding"
VarFieldId="3" VariableId="62" isView="N">3456</Attribute>
            <Attribute Length="255" Type="234" UserDefinedName="dueamount"
VarFieldId="4" VariableId="62" isView="N">4356</Attribute>
            <Attribute Length="255" Type="234" UserDefinedName="gstamount"
VarFieldId="5" VariableId="62" isView="N">4356</Attribute>
        </Attribute>
        <Attribute InsertionOrderId="4" Length="0" MaxInsertionOrderId="4"
MinInsertionOrderId="1" Type="2311" UserDefinedName="QueueBill" VarFieldId="1"
VariableId="62" isView="N">
            <Attribute Length="255" Type="2310" UserDefinedName="month"
VarFieldId="2" VariableId="62" isView="N">12345</Attribute>
            <Attribute Length="255" Type="234" UserDefinedName="outstanding"
VarFieldId="3" VariableId="62" isView="N">122</Attribute>
            <Attribute Length="255" Type="234" UserDefinedName="dueamount"
VarFieldId="4" VariableId="62" isView="N">231</Attribute>
            <Attribute Length="255" Type="234" UserDefinedName="gstamount"
VarFieldId="5" VariableId="62" isView="N">123</Attribute>
        </Attribute>
    </Attributes>
    <TimeElapsedToFetchQueueData>3</TimeElapsedToFetchQueueData>
    <TimeElapsedToFetchExternalData>1</TimeElapsedToFetchExternalData>
    <RetrievedCount>50</RetrievedCount>
    <Count>50</Count>
</WMFetchWorkItemAttributes_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMFetchWorkItemAttributes_Output": {
        "TimeElapsedToFetchExternalData": 1,
        "UserDefVarFlag": "Y",
        "Attributes": {
            "Attribute": [
                {
                    "Type": 133,
                    "Length": 2,
                    "isView": "N",
                    "UserDefinedName": "Age",
                    "VariableId": 1,
```

```
                    "VarFieldId": 0,
                    "content": 25
                },
                {
                    "Type": 1310,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "Name",
                    "VariableId": 19,
                    "VarFieldId": 0,
                    "content": "Mohit"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "ItemIndex",
                    "VariableId": 53,
                    "VarFieldId": 0,
                    "content": 1166
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "ItemType",
                    "VariableId": 54,
                    "VarFieldId": 0,
                    "content": "F"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "VAR_REC_3",
                    "VariableId": 55,
                    "VarFieldId": 0
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "EventName",
                    "VariableId": 56,
                    "VarFieldId": 0
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "RoutingCount",
                    "VariableId": 57,
                    "VarFieldId": 0,
                    "content": 2
                },
                {
                    "Type": 323,
```

```
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "HoldStatus",
            "VariableId": 39,
            "VarFieldId": 0
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "CheckListCompleteFlag",
            "VariableId": 50,
            "VarFieldId": 0,
            "content": "N"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "InstrumentStatus",
            "VariableId": 37,
            "VarFieldId": 0,
            "content": "N"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "SaveStage",
            "VariableId": 34,
            "VarFieldId": 0,
            "content": "Start Event_1"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "Status",
            "VariableId": 42,
            "VarFieldId": 0
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "CalendarName",
            "VariableId": 10001,
            "VarFieldId": 0
        },
        {
            "Type": 313110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ChildProcessInstanceId",
            "VariableId": -1,
            "VarFieldId": 0
        },
```

```
            {
                "Type": 31313,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "ChildWorkItemId",
                "VariableId": -2,
                "VarFieldId": 0
            },
            {
                "Type": 323,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "ProcessInstanceState",
                "VariableId": 40,
                "VarFieldId": 0,
                "content": 2
            },
            {
                "Type": 318,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "CreatedDateTime",
                "VariableId": 28,
                "VarFieldId": 0,
                "content": "2023-08-29 15:38:52.95"
            },
            {
                "Type": 3110,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "CreatedByName",
                "VariableId": 32,
                "VarFieldId": 0,
                "content": "mahendra"
            },
            {
                "Type": 318,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "IntroductionDateTime",
                "VariableId": 35,
                "VarFieldId": 0,
                "content": "2023-08-29 15:39:27.797"
            },
            {
                "Type": 3110,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "IntroducedBy",
                "VariableId": 36,
                "VarFieldId": 0,
                "content": "mahendra"
            },
            {
                "Type": 3110,
                "Length": 255,
                "isView": "N",
```

```
            "UserDefinedName": "IntroducedAt",
            "VariableId": 10003,
            "VarFieldId": 0,
            "content": "Start Event_1"
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "PriorityLevel",
            "VariableId": 38,
            "VarFieldId": 0,
            "content": 1
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "WorkItemState",
            "VariableId": 41,
            "VarFieldId": 0,
            "content": 2
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ActivityId",
            "VariableId": 43,
            "VarFieldId": 0,
            "content": 3
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "LockedByName",
            "VariableId": 46,
            "VarFieldId": 0
        },
        {
            "Type": 328,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "LockedTime",
            "VariableId": 47,
            "VarFieldId": 0
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "LockStatus",
            "VariableId": 48,
            "VarFieldId": 0,
            "content": "N"
        },
```

```
            {
                "Type": 3110,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "ActivityName",
                "VariableId": 49,
                "VarFieldId": 0,
                "content": "Workdesk_3"
            },
            {
                "Type": 3110,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "AssignmentType",
                "VariableId": 51,
                "VarFieldId": 0,
                "content": "S"
            },
            {
                "Type": 3210,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "ProcessedBy",
                "VariableId": 52,
                "VarFieldId": 0,
                "content": "mahendra"
            },
            {
                "Type": 318,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "EntryDateTime",
                "VariableId": 29,
                "VarFieldId": 0,
                "content": "2023-09-01 17:59:52.957"
            },
            {
                "Type": 318,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "ValidTillDateTime",
                "VariableId": 30,
                "VarFieldId": 0
            },
            {
                "Type": 3110,
                "Length": 255,
                "isView": "N",
                "UserDefinedName": "WorkItemName",
                "VariableId": 31,
                "VarFieldId": 0,
                "content": "gp29ms-0000000001-process"
            },
            {
                "Type": 3110,
                "Length": 255,
                "isView": "N",
```

```
            "UserDefinedName": "PreviousStage",
            "VariableId": 33,
            "VarFieldId": 0,
            "content": "Workdesk_2"
        },
        {
            "Type": 318,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "TurnAroundDateTime",
            "VariableId": 10002,
            "VarFieldId": 0
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "WorkItemId",
            "VariableId": 10004,
            "VarFieldId": 0,
            "content": 1
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "SecondaryDBFlag",
            "VariableId": 10022,
            "VarFieldId": 0,
            "content": "N"
        },
        {
            "Type": 3110,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "URN",
            "VariableId": 10023,
            "VarFieldId": 0,
            "content": "gp29ms-1"
        },
        {
            "Type": 3210,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "ManualProcessingFlag",
            "VariableId": 10024,
            "VarFieldId": 0,
            "content": "N"
        },
        {
            "Type": 323,
            "Length": 255,
            "isView": "N",
            "UserDefinedName": "DBExErrCode",
            "VariableId": 10025,
            "VarFieldId": 0
        },
```

```
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "DBExErrDesc",
                    "VariableId": 10026,
                    "VarFieldId": 0
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "Locale",
                    "VariableId": 10027,
                    "VarFieldId": 0,
                    "content": "en_US"
                },
                {
                    "Type": 318,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "CurrentDateTime",
                    "VariableId": 27,
                    "VarFieldId": 0,
                    "content": "2023-09-18 16:33:12.73"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "QueueName",
                    "VariableId": 45,
                    "VarFieldId": 0,
                    "content": "Genmultiplecomplex29MS_SwimLane_1"
                },
                {
                    "Type": 3210,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "QueueType",
                    "VariableId": 44,
                    "VarFieldId": 0,
                    "content": "N"
                },
                {
                    "Type": 2310,
                    "Length": 255,
                    "isView": "N",
                    "UserDefinedName": "Extname",
                    "VariableId": 58,
                    "VarFieldId": 0,
                    "content": "Monu"
                },
                {
                    "Type": 234,
                    "Length": 255,
                    "isView": "N",
```

```
                    "UserDefinedName": "Extsalary",
                    "VariableId": 59,
                    "VarFieldId": 0,
                    "content": 32222
                },
                {
                    "Type": 2311,
                    "Length": 0,
                    "isView": "N",
                    "Attribute": [
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "comadd1",
                            "VariableId": 60,
                            "VarFieldId": 2,
                            "content": "david"
                        },
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "comadd2",
                            "VariableId": 60,
                            "VarFieldId": 3,
                            "content": "hina"
                        }
                    ],
                    "MaxInsertionOrderId": 4,
                    "UserDefinedName": "QueueAdd",
                    "InsertionOrderId": 1,
                    "MinInsertionOrderId": 1,
                    "VariableId": 60,
                    "VarFieldId": 1
                },
                {
                    "Type": 2311,
                    "Length": 0,
                    "isView": "N",
                    "Attribute": [
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "comadd1",
                            "VariableId": 60,
                            "VarFieldId": 2,
                            "content": "hello"
                        },
                        {
                            "Type": 2310,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "comadd2",
                            "VariableId": 60,
                            "VarFieldId": 3,
```

```
                        "content": "mohit"
                    }
                ],
                "MaxInsertionOrderId": 4,
                "UserDefinedName": "QueueAdd",
                "InsertionOrderId": 4,
                "MinInsertionOrderId": 1,
                "VariableId": 60,
                "VarFieldId": 1
            },
            {
                "Type": 2311,
                "Length": 0,
                "isView": "N",
                "Attribute": [
                    {
                        "Type": 2310,
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "combankname",
                        "VariableId": 61,
                        "VarFieldId": 2,
                        "content": "HDFC"
                    },
                    {
                        "Type": 234,
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "combankaccountnumber",
                        "VariableId": 61,
                        "VarFieldId": 3,
                        "content": 232545665789
                    }
                ],
                "MaxInsertionOrderId": 1,
                "UserDefinedName": "QueueBank",
                "InsertionOrderId": 1,
                "MinInsertionOrderId": 1,
                "VariableId": 61,
                "VarFieldId": 1
            },
            {
                "Type": 2311,
                "Length": 0,
                "isView": "N",
                "Attribute": [
                    {
                        "Type": 2310,
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "month",
                        "VariableId": 62,
                        "VarFieldId": 2,
                        "content": 123456
                    },
                    {
                        "Type": 234,
```

```
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "outstanding",
                        "VariableId": 62,
                        "VarFieldId": 3,
                        "content": 3456
                    },
                    {
                        "Type": 234,
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "dueamount",
                        "VariableId": 62,
                        "VarFieldId": 4,
                        "content": 4356
                    },
                    {
                        "Type": 234,
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "gstamount",
                        "VariableId": 62,
                        "VarFieldId": 5,
                        "content": 4356
                    }
                ],
                "MaxInsertionOrderId": 4,
                "UserDefinedName": "QueueBill",
                "InsertionOrderId": 1,
                "MinInsertionOrderId": 1,
                "VariableId": 62,
                "VarFieldId": 1
            },
            {
                "Type": 2311,
                "Length": 0,
                "isView": "N",
                "Attribute": [
                    {
                        "Type": 2310,
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "month",
                        "VariableId": 62,
                        "VarFieldId": 2,
                        "content": 12345
                    },
                    {
                        "Type": 234,
                        "Length": 255,
                        "isView": "N",
                        "UserDefinedName": "outstanding",
                        "VariableId": 62,
                        "VarFieldId": 3,
                        "content": 122
                    },
                    {
```

```
                            "Type": 234,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "dueamount",
                            "VariableId": 62,
                            "VarFieldId": 4,
                            "content": 231
                        },
                        {
                            "Type": 234,
                            "Length": 255,
                            "isView": "N",
                            "UserDefinedName": "gstamount",
                            "VariableId": 62,
                            "VarFieldId": 5,
                            "content": 123
                        }
                    ],
                    "MaxInsertionOrderId": 4,
                    "UserDefinedName": "QueueBill",
                    "InsertionOrderId": 4,
                    "MinInsertionOrderId": 1,
                    "VariableId": 62,
                    "VarFieldId": 1
                }
            ]
        },
        "TimeElapsedToFetchQueueData": 2,
        "Option": "WMFetchWorkItemAttributes",
        "Count": 50,
        "RetrievedCount": 50,
        "Exception": {
            "MainCode": 0
        }
    }
}
```


Complete workitem

Completes a workitem.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMCompleteWorkitem/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	Query Param	String type having value of process instance id.
workitemId	Query Param	String type having the value of worktiem id.

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMCompleteWorkItem_Output>
    <Option>WMCompleteWorkItem</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <EntryDateTime>2023-09-18 16:40:54.1</EntryDateTime>
    <CompletionTime>83</CompletionTime>
    <SessionId>-1090863780</SessionId>
    <UserName>shaam</UserName>
    <ProcessInstanceId>raw-0000000029-process</ProcessInstanceId>
    <WorkItemId>1</WorkItemId>
    <ProcessDefId>4</ProcessDefId>
    <ActivityName>Workdesk_3</ActivityName>
    <ActivityId>3</ActivityId>
</WMCompleteWorkItem_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMCompleteWorkItem_Output": {
        "UserName": "shaam",
        "EntryDateTime": "2023-09-18 16:42:20.067",
```

```
        "ActivityName": "Case Workdesk_7",
        "CompletionTime": 110,
        "ActivityId": 7,
        "WorkItemId": 1,
        "ProcessDefId": 4,
        "Option": "WMCompleteWorkItem",
        "ProcessInstanceId": "raw-0000000029-process",
        "SessionId": -1090863780,
        "Exception": {
            "MainCode": 0
        }
    }
}
```


Unlock workitem

Unlocks a workitem.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMUnlockWorkitem/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	Query Param	String type having value of process instance id .
workitemId	Query Param	String type having value of worktiem id .

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.

Parameter name	Parameter scope	Type and mapping
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMUnlockWorkItem_Output>
    <Option>WMUnlockWorkItem</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <SessionId>-1090863780</SessionId>
    <UserName>shaam</UserName>
</WMUnlockWorkItem_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMUnlockWorkItem_Output": {
        "UserName": "shaam",
        "Option": "WMUnlockWorkItem",
        "SessionId": -1090863780,
        "Exception": {
            "MainCode": 0
        }
    }
}
```

Upload workitem

Creates workitem on the basis of given parameters or complete input XML. If the URL is called with Request body then parameters are not executed.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WFUploadWorkItem/*

Method type: POST

Request Media Type: application/xml or application/json

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processDefId	QueryParam	String type having value for processInstanceId
initiateFromActivityId	QueryParam	String type having value for Introduction acitivtyid
attributes	QueryParam	A string having values of process variables separated with CHAR(21) and Char(25) as done in custom executions
documents	QueryParam	A string having values of document definition separated with CHAR(21) and Char(25) custom executions

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Optional

XML Response Body:

```
<?xml version="1.0"?>
<WFUploadWorkItem_Output>
    <Option>WFUploadWorkItem</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <ProcessInstanceId>raw-0000000111-process</ProcessInstanceId>
    <URN>raw-111</URN>
    <WorkStageId>1</WorkStageId>
    <CreationDateTime>2023-09-18 17:28:14.97</CreationDateTime>
    <FolderIndex>4119</FolderIndex>
    <Documents/>
    <SessionId>-867294796</SessionId>
    <UserName>shaam</UserName>
</WFUploadWorkItem_Output>
```

JSON Request Body: Optional

JSON Response Body:

```
{
    "WFUploadWorkItem_Output": {
        "URN": "raw-110",
        "CreationDateTime": "2023-09-18 17:26:21.24",
        "UserName": "shaam",
        "Documents": "",
        "Option": "WFUploadWorkItem",
        "ProcessInstanceId": "raw-0000000110-process",
        "SessionId": -867294796,
        "Exception": {
            "MainCode": 0
        },
        "WorkStageId": 1,
        "FolderIndex": 4118
    }
}
```

Get queue list

Fetches the list of queues.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMGetQueueList/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
QueueType	Query Param	String type having the value of Queue type, by default if it's not send then all types are included - F,D,N,S,I,Q,E,A,M,H,O,T
SortOrder	Query Param	String type having the value, default A[Ascending]

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMGetQueueList_Output>
    <Option>WMGetQueueList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <QueueList>
        <QueueInfo>
            <ID>86</ID>
            <Name>A Global Queue</Name>
            <Type>G</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <Comments>SUCCESS</Comments>
            <LastModifiedOn>2023-09-14 13:28:29.93</LastModifiedOn>
            <ModifiedByUserName>anuj</ModifiedByUserName>
            <ModifiedByPersonalName>anuj</ModifiedByPersonalName>
            <ModifiedByFamilyName> </ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>26</ID>
            <Name>aaaaa</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <Comments>sfgssr</Comments>
            <LastModifiedOn>2023-09-15 16:27:35.637</LastModifiedOn>
            <ModifiedByUserName>pawan</ModifiedByUserName>
            <ModifiedByPersonalName>New User</ModifiedByPersonalName>
            <ModifiedByFamilyName> </ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>163</ID>
            <Name>aaaaams28aug_Start Event_1</Name>
```

```
            <Type>I</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>aaaaams28aug</QProcessName>
            <Comments>Process Modeler generated Default Queue for Start Activity</
Comments>
            <LastModifiedOn>2023-08-29 07:21:14.163</LastModifiedOn>
            <ModifiedByUserName>admin</ModifiedByUserName>
            <ModifiedByPersonalName>New User</ModifiedByPersonalName>
            <ModifiedByFamilyName> </ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>164</ID>
            <Name>aaaaams28aug_SwimLane_1</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>aaaaams28aug</QProcessName>
            <Comments>Process Modeler generated Default Swimlane Queue</Comments>
            <LastModifiedOn>2023-08-28 16:23:05.49</LastModifiedOn>
            <ModifiedByUserName>mahendra</ModifiedByUserName>
            <ModifiedByPersonalName>mahendra</ModifiedByPersonalName>
            <ModifiedByFamilyName>singh</ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>301</ID>
            <Name>AaaMake</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <Comments>dsa</Comments>
            <LastModifiedOn>2023-09-07 16:33:05.227</LastModifiedOn>
        </QueueInfo>
        <QueueInfo>
            <ID>306</ID>
            <Name>aaaMake2</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <Comments/>
            <LastModifiedOn>2023-09-07 17:06:23.497</LastModifiedOn>
        </QueueInfo>
        <QueueInfo>
            <ID>224</ID>
```

```
            <Name>AaQ11</Name>
            <Type>F</Type>
            <AllowReassignment>Y</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <Comments>SUCCESS</Comments>
            <LastModifiedOn>2023-09-08 17:44:20.867</LastModifiedOn>
            <ModifiedByUserName>bad1</ModifiedByUserName>
            <ModifiedByPersonalName>Suraj</ModifiedByPersonalName>
            <ModifiedByFamilyName>Narayan</ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>225</ID>
            <Name>AaQ2</Name>
            <Type>N</Type>
            <AllowReassignment>Y</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>New NPCase Process</QProcessName>
            <Comments>SUCCESS</Comments>
            <LastModifiedOn>2023-09-06 11:51:32.307</LastModifiedOn>
            <ModifiedByUserName>bad1</ModifiedByUserName>
            <ModifiedByPersonalName>Suraj</ModifiedByPersonalName>
            <ModifiedByFamilyName>Narayan</ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>170</ID>
            <Name>abcdabcd</Name>
            <Type>N</Type>
            <AllowReassignment>Y</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <Comments>sdgvjf</Comments>
            <LastModifiedOn>2023-08-29 14:02:09.92</LastModifiedOn>
            <ModifiedByUserName>pawan</ModifiedByUserName>
            <ModifiedByPersonalName>New User</ModifiedByPersonalName>
            <ModifiedByFamilyName> </ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>146</ID>
            <Name>Achintya_Sanity_Start Event_1</Name>
            <Type>I</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>Achintya_Sanity</QProcessName>
            <Comments>Process Modeler generated Default Queue for Start Activity</
Comments>
            <LastModifiedOn>2023-08-31 15:31:07.53</LastModifiedOn>
```

```
            <ModifiedByUserName>admin</ModifiedByUserName>
            <ModifiedByPersonalName>New User</ModifiedByPersonalName>
            <ModifiedByFamilyName> </ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>147</ID>
            <Name>Achintya_Sanity_SwimLane_1</Name>
            <Type>N</Type>
            <AllowReassignment>Y</AllowReassignment>
            <FilterOption>1</FilterOption>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>Achintya_Sanity</QProcessName>
            <Comments>Process Modeler generated Default Swimlane Queue</Comments>
            <LastModifiedOn>2023-09-07 12:01:25.583</LastModifiedOn>
            <ModifiedByUserName>rohit123</ModifiedByUserName>
            <ModifiedByPersonalName>Rohit</ModifiedByPersonalName>
        </QueueInfo>
        <QueueInfo>
            <ID>189</ID>
            <Name>AdvProcess_Start Event_1</Name>
            <Type>I</Type>
            <AllowReassignment>N</AllowReassignment>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>AdvProcess</QProcessName>
            <Comments>Process Modeler generated Default Queue for Start Activity</
Comments>
            <LastModifiedOn>2023-08-30 21:11:55.93</LastModifiedOn>
        </QueueInfo>
        <QueueInfo>
            <ID>188</ID>
            <Name>AdvProcess_SwimLane_1</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>AdvProcess</QProcessName>
            <Comments>Process Modeler generated Default Swimlane Queue</Comments>
            <LastModifiedOn>2023-08-30 21:10:56.463</LastModifiedOn>
        </QueueInfo>
        <QueueInfo>
            <ID>324</ID>
            <Name>arabicTest_Start Event_1</Name>
            <Type>I</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>arabicTest</QProcessName>
            <Comments>Process Modeler generated Default Queue for Start Activity</
```

```
Comments>
            <LastModifiedOn>2023-09-13 12:42:40.177</LastModifiedOn>
        </QueueInfo>
        <QueueInfo>
            <ID>325</ID>
            <Name>arabicTest_SwimLane_1</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>arabicTest</QProcessName>
            <Comments>Process Modeler generated Default Swimlane Queue</Comments>
            <LastModifiedOn>2023-09-13 12:42:40.39</LastModifiedOn>
        </QueueInfo>
        <QueueInfo>
            <ID>262</ID>
            <Name>asd</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <Comments>asd</Comments>
            <LastModifiedOn>2023-09-04 17:07:31.32</LastModifiedOn>
            <ModifiedByUserName>Deepika2</ModifiedByUserName>
            <ModifiedByPersonalName>New User</ModifiedByPersonalName>
        </QueueInfo>
        <QueueInfo>
            <ID>308</ID>
            <Name>Aug08_Start Event_1</Name>
            <Type>I</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>Aug08</QProcessName>
            <Comments>Process Modeler generated Default Queue for Start Activity</
Comments>
            <LastModifiedOn>2023-09-08 16:57:58.113</LastModifiedOn>
        </QueueInfo>
        <QueueInfo>
            <ID>309</ID>
            <Name>Aug08_SwimLane_1</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>Aug08</QProcessName>
            <Comments>Process Modeler generated Default Swimlane Queue</Comments>
            <LastModifiedOn>2023-09-08 16:57:58.157</LastModifiedOn>
        </QueueInfo>
```

```
        <QueueInfo>
            <ID>133</ID>
            <Name>bpmprocess_Start Event_1</Name>
            <Type>I</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>bpmprocess</QProcessName>
            <Comments>Process Modeler generated Default Queue for Start Activity</
Comments>
            <LastModifiedOn>2023-08-24 14:04:17.26</LastModifiedOn>
            <ModifiedByUserName>nida</ModifiedByUserName>
            <ModifiedByPersonalName>New User</ModifiedByPersonalName>
            <ModifiedByFamilyName> </ModifiedByFamilyName>
        </QueueInfo>
        <QueueInfo>
            <ID>134</ID>
            <Name>bpmprocess_SwimLane_1</Name>
            <Type>N</Type>
            <AllowReassignment>N</AllowReassignment>
            <FilterOption>1</FilterOption>
            <FilterValue/>
            <EntityName/>
            <OrderBy>2</OrderBy>
            <SortOrder>A</SortOrder>
            <QProcessName>bpmprocess</QProcessName>
            <Comments>Process Modeler generated Default Swimlane Queue</Comments>
            <LastModifiedOn>2023-08-24 14:04:41.26</LastModifiedOn>
            <ModifiedByUserName>nida</ModifiedByUserName>
            <ModifiedByPersonalName>New User</ModifiedByPersonalName>
            <ModifiedByFamilyName> </ModifiedByFamilyName>
        </QueueInfo>
    </QueueList>
    <TotalCount>21</TotalCount>
    <RetrievedCount>20</RetrievedCount>
    <SessionId>482751598</SessionId>
    <UserName>shaam</UserName>
    <QueueAssociation>0</QueueAssociation>
</WMGetQueueList_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMGetQueueList_Output": {
        "TotalCount": 21,
        "UserName": "shaam",
        "Option": "WMGetQueueList",
        "QueueAssociation": 0,
        "RetrievedCount": 20,
        "SessionId": 482751598,
        "Exception": {
```

```
            "MainCode": 0
        },
        "QueueList": {
            "QueueInfo": [
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "SUCCESS",
                    "ModifiedByPersonalName": "anuj",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-14 13:28:29.93",
                    "Name": "A Global Queue",
                    "ModifiedByUserName": "anuj",
                    "Type": "G",
                    "AllowReassignment": "N",
                    "ID": 86,
                    "ModifiedByFamilyName": ""
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "sfgssr",
                    "ModifiedByPersonalName": "New User",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-15 16:27:35.637",
                    "Name": "aaaaa",
                    "ModifiedByUserName": "pawan",
                    "Type": "N",
                    "AllowReassignment": "N",
                    "ID": 26,
                    "ModifiedByFamilyName": ""
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Queue for Start
Activity",
                    "QProcessName": "aaaaams28aug",
                    "ModifiedByPersonalName": "New User",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-08-29 07:21:14.163",
                    "Name": "aaaaams28aug_Start Event_1",
                    "FilterValue": "",
                    "ModifiedByUserName": "admin",
                    "Type": "I",
                    "AllowReassignment": "N",
                    "ID": 163,
                    "ModifiedByFamilyName": ""
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "Process Modeler generated Default Swimlane
Queue",
```

```
            "QProcessName": "aaaaams28aug",
            "ModifiedByPersonalName": "mahendra",
            "SortOrder": "A",
            "LastModifiedOn": "2023-08-28 16:23:05.49",
            "Name": "aaaaams28aug_SwimLane_1",
            "FilterValue": "",
            "ModifiedByUserName": "mahendra",
            "Type": "N",
            "AllowReassignment": "N",
            "ID": 164,
            "ModifiedByFamilyName": "singh"
        },
        {
            "OrderBy": 2,
            "Type": "N",
            "AllowReassignment": "N",
            "EntityName": "",
            "FilterOption": 1,
            "Comments": "dsa",
            "SortOrder": "A",
            "LastModifiedOn": "2023-09-07 16:33:05.227",
            "ID": 301,
            "Name": "AaaMake"
        },
        {
            "OrderBy": 2,
            "Type": "N",
            "AllowReassignment": "N",
            "EntityName": "",
            "FilterOption": 1,
            "Comments": "",
            "SortOrder": "A",
            "LastModifiedOn": "2023-09-07 17:06:23.497",
            "ID": 306,
            "Name": "aaaMake2"
        },
        {
            "OrderBy": 2,
            "EntityName": "",
            "FilterOption": 1,
            "Comments": "SUCCESS",
            "ModifiedByPersonalName": "Suraj",
            "SortOrder": "A",
            "LastModifiedOn": "2023-09-08 17:44:20.867",
            "Name": "AaQ11",
            "ModifiedByUserName": "bad1",
            "Type": "F",
            "AllowReassignment": "Y",
            "ID": 224,
            "ModifiedByFamilyName": "Narayan"
        },
        {
            "OrderBy": 2,
            "EntityName": "",
            "FilterOption": 1,
            "Comments": "SUCCESS",
            "QProcessName": "New NPCase Process",
```

```
                    "ModifiedByPersonalName": "Suraj",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-06 11:51:32.307",
                    "Name": "AaQ2",
                    "ModifiedByUserName": "bad1",
                    "Type": "N",
                    "AllowReassignment": "Y",
                    "ID": 225,
                    "ModifiedByFamilyName": "Narayan"
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "sdgvjf",
                    "ModifiedByPersonalName": "New User",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-08-29 14:02:09.92",
                    "Name": "abcdabcd",
                    "ModifiedByUserName": "pawan",
                    "Type": "N",
                    "AllowReassignment": "Y",
                    "ID": 170,
                    "ModifiedByFamilyName": ""
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Queue for Start
Activity",
                    "QProcessName": "Achintya_Sanity",
                    "ModifiedByPersonalName": "New User",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-08-31 15:31:07.53",
                    "Name": "Achintya_Sanity_Start Event_1",
                    "FilterValue": "",
                    "ModifiedByUserName": "admin",
                    "Type": "I",
                    "AllowReassignment": "N",
                    "ID": 146,
                    "ModifiedByFamilyName": ""
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "Process Modeler generated Default Swimlane
Queue",
                    "QProcessName": "Achintya_Sanity",
                    "ModifiedByPersonalName": "Rohit",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-07 12:01:25.583",
                    "Name": "Achintya_Sanity_SwimLane_1",
                    "FilterValue": "",
                    "ModifiedByUserName": "rohit123",
                    "Type": "N",
                    "AllowReassignment": "Y",
```

```
                    "ID": 147
                },
                {
                    "OrderBy": 2,
                    "Type": "I",
                    "AllowReassignment": "N",
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Queue for Start
Activity",
                    "QProcessName": "AdvProcess",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-08-30 21:11:55.93",
                    "ID": 189,
                    "Name": "AdvProcess_Start Event_1"
                },
                {
                    "OrderBy": 2,
                    "Type": "N",
                    "AllowReassignment": "N",
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "Process Modeler generated Default Swimlane
Queue",
                    "QProcessName": "AdvProcess",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-08-30 21:10:56.463",
                    "ID": 188,
                    "Name": "AdvProcess_SwimLane_1"
                },
                {
                    "OrderBy": 2,
                    "Type": "I",
                    "AllowReassignment": "N",
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Queue for Start
Activity",
                    "QProcessName": "arabicTest",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-13 12:42:40.177",
                    "ID": 324,
                    "Name": "arabicTest_Start Event_1",
                    "FilterValue": ""
                },
                {
                    "OrderBy": 2,
                    "Type": "N",
                    "AllowReassignment": "N",
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Swimlane
Queue",
                    "QProcessName": "arabicTest",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-13 12:42:40.39",
                    "ID": 325,
                    "Name": "arabicTest_SwimLane_1",
                    "FilterValue": ""
                },
```

```
                {
                    "OrderBy": 2,
                    "ModifiedByUserName": "Deepika2",
                    "Type": "N",
                    "AllowReassignment": "N",
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "asd",
                    "ModifiedByPersonalName": "New User",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-04 17:07:31.32",
                    "ID": 262,
                    "Name": "asd"
                },
                {
                    "OrderBy": 2,
                    "Type": "I",
                    "AllowReassignment": "N",
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Queue for Start
Activity",
                    "QProcessName": "Aug08",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-08 16:57:58.113",
                    "ID": 308,
                    "Name": "Aug08_Start Event_1",
                    "FilterValue": ""
                },
                {
                    "OrderBy": 2,
                    "Type": "N",
                    "AllowReassignment": "N",
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Swimlane
Queue",
                    "QProcessName": "Aug08",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-09-08 16:57:58.157",
                    "ID": 309,
                    "Name": "Aug08_SwimLane_1",
                    "FilterValue": ""
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "Comments": "Process Modeler generated Default Queue for Start
Activity",
                    "QProcessName": "bpmprocess",
                    "ModifiedByPersonalName": "New User",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-08-24 14:04:17.26",
                    "Name": "bpmprocess_Start Event_1",
                    "FilterValue": "",
                    "ModifiedByUserName": "nida",
                    "Type": "I",
                    "AllowReassignment": "N",
                    "ID": 133,
```

```
                    "ModifiedByFamilyName": ""
                },
                {
                    "OrderBy": 2,
                    "EntityName": "",
                    "FilterOption": 1,
                    "Comments": "Process Modeler generated Default Swimlane
Queue",
                    "QProcessName": "bpmprocess",
                    "ModifiedByPersonalName": "New User",
                    "SortOrder": "A",
                    "LastModifiedOn": "2023-08-24 14:04:41.26",
                    "Name": "bpmprocess_SwimLane_1",
                    "FilterValue": "",
                    "ModifiedByUserName": "nida",
                    "Type": "N",
                    "AllowReassignment": "N",
                    "ID": 134,
                    "ModifiedByFamilyName": ""
                }
            ]
        }
    }
}
```


Fetch workitem list

Fetches lists of workitems on a queue.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMFetchWorkList/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
queueId	QueryParam	String type having the value of queueId
filter	QueryParam	(String) filter - filter XML(if any)

sortOrder	QueryParam	(String)Sorting order
orderBy	QueryParam	(String)Column on which sorting is to be done
noOfRecords	QueryParam	(String) Batch size
lastValue	QueryParam	(String) Last Value of batch
lastProcessInstance	QueryParam	(String) Last Value of processinstanceid
lastWorkitem	QueryParam	(String) Last Value of workitemid

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMFetchWorkList_Output>
    <Option>WMFetchWorkList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <Instruments>
        <Instrument>
            <ProcessInstanceId>WF-0000000001-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000001-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 13:03:02.023</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 13:03:14.653</EntryDateTime>
            <IntroductionDateTime>2023-09-14 13:03:12.09</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
```

```
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-1</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000002-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000002-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 13:03:18.617</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 13:03:38.513</EntryDateTime>
            <IntroductionDateTime>2023-09-14 13:03:34.63</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-2</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000003-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000003-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
```

```
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 13:03:21.45</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 13:03:43.137</EntryDateTime>
            <IntroductionDateTime>2023-09-14 13:03:39.23</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-3</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000004-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000004-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 13:03:23.55</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 13:03:47.843</EntryDateTime>
            <IntroductionDateTime>2023-09-14 13:03:47.28</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
```

```
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-4</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000005-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000005-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 13:03:25.9</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 13:03:48.003</EntryDateTime>
            <IntroductionDateTime>2023-09-14 13:03:43.43</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-5</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000006-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000006-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 16:02:54.08</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
```

```
            <EntryDateTime>2023-09-14 16:03:02.237</EntryDateTime>
            <IntroductionDateTime>2023-09-14 16:03:01.373</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-6</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000007-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000007-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 16:03:29.563</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 16:03:35.503</EntryDateTime>
            <IntroductionDateTime>2023-09-14 16:03:35.23</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-7</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000008-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000008-queuenametest</WorkItemName>
```

```
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 16:05:43.243</CreationDateTime>
            <WorkitemState>RUNNING</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 16:05:52.307</EntryDateTime>
            <IntroductionDateTime>2023-09-14 16:05:51.107</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-8</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000009-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000009-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 16:07:08.243</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 16:07:19.557</EntryDateTime>
            <IntroductionDateTime>2023-09-14 16:07:14.18</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
```

```
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-9</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
        <Instrument>
            <ProcessInstanceId>WF-0000000010-queuenametest</ProcessInstanceId>
            <WorkItemName>WF-0000000010-queuenametest</WorkItemName>
            <RouteId>161</RouteId>
            <RouteName>queuenametest</RouteName>
            <WorkStageId>2</WorkStageId>
            <ActivityName>Workdesk_2</ActivityName>
            <PriorityLevel>1</PriorityLevel>
            <InstrumentStatus>N</InstrumentStatus>
            <LockStatus>N</LockStatus>
            <CreatedByUserName>shaam</CreatedByUserName>
            <CreatedByPersonalName>shaam</CreatedByPersonalName>
            <CreatedByFamilyName/>
            <CreationDateTime>2023-09-14 17:33:45.787</CreationDateTime>
            <WorkitemState>NOTSTARTED</WorkitemState>
            <CheckListCompleteFlag>N</CheckListCompleteFlag>
            <EntryDateTime>2023-09-14 17:33:56.323</EntryDateTime>
            <IntroductionDateTime>2023-09-14 17:33:53.34</IntroductionDateTime>
            <IntroducedBy>shaam</IntroducedBy>
            <IntroducedByPersonalName>shaam</IntroducedByPersonalName>
            <IntroducedByFamilyName/>
            <WorkItemId>1</WorkItemId>
            <QueueName>queuenametest_SwimLane_1</QueueName>
            <AssignmentType>S</AssignmentType>
            <ProcessInstanceState>2</ProcessInstanceState>
            <QueueType>N</QueueType>
            <QueueId>333</QueueId>
            <ActivityType>10</ActivityType>
            <ProcessedBy>shaam</ProcessedBy>
            <ProcessedByPersonalName>shaam</ProcessedByPersonalName>
            <ProcessedByFamilyName/>
            <URN>queuenametest-10</URN>
            <SecondaryDBFlag>N</SecondaryDBFlag>
            <Data/>
        </Instrument>
    </Instruments>
    <RetrievedCount>10</RetrievedCount>
    <Count>11</Count>
    <WorkitemCount>0</WorkitemCount>
    <AliasProcessDefId>0</AliasProcessDefId>
    <LastModifiedOn>2023-09-14 18:02:00.277</LastModifiedOn>
    <CompleteMultipleWorkitems>N</CompleteMultipleWorkitems>
    <SessionId>-867294796</SessionId>
    <UserName>shaam</UserName>
    <QueueId>333</QueueId>
</WMFetchWorkList_Output>
```

JSON Request Body: Not applicable

JSON Response Body:


```
{
    "WMFetchWorkList_Output": {
        "WorkitemCount": 0,
        "UserName": "shaam",
        "Instruments": {
            "Instrument": [
                {
                    "CheckListCompleteFlag": "N",
                    "SecondaryDBFlag": "N",
                    "ActivityName": "Workdesk_2",
                    "EntryDateTime": "2023-09-14 13:03:14.653",
                    "IntroducedByFamilyName": "",
                    "CreatedByPersonalName": "shaam",
                    "IntroducedByPersonalName": "shaam",
                    "WorkStageId": 2,
                    "QueueType": "N",
                    "ProcessedByFamilyName": "",
                    "URN": "queuenametest-1",
                    "WorkItemName": "WF-0000000001-queuenametest",
                    "PriorityLevel": 1,
                    "InstrumentStatus": "N",
                    "CreatedByUserName": "shaam",
                    "WorkItemId": 1,
                    "QueueName": "queuenametest_SwimLane_1",
                    "ProcessInstanceState": 2,
                    "WorkitemState": "NOTSTARTED",
                    "LockStatus": "N",
                    "ProcessedBy": "shaam",
                    "ActivityType": 10,
                    "QueueId": 333,
                    "Data": "",
                    "RouteId": 161,
                    "CreatedByFamilyName": "",
                    "IntroductionDateTime": "2023-09-14 13:03:12.09",
                    "ProcessedByPersonalName": "shaam",
                    "CreationDateTime": "2023-09-14 13:03:02.023",
                    "IntroducedBy": "shaam",
                    "AssignmentType": "S",
                    "RouteName": "queuenametest",
                    "ProcessInstanceId": "WF-0000000001-queuenametest"
                },
                {
                    "CheckListCompleteFlag": "N",
                    "SecondaryDBFlag": "N",
                    "ActivityName": "Workdesk_2",
                    "EntryDateTime": "2023-09-14 13:03:38.513",
                    "IntroducedByFamilyName": "",
                    "CreatedByPersonalName": "shaam",
                    "IntroducedByPersonalName": "shaam",
                    "WorkStageId": 2,
                    "QueueType": "N",
```

```
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-2",
            "WorkItemName": "WF-0000000002-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
            "WorkitemState": "NOTSTARTED",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 13:03:34.63",
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 13:03:18.617",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000002-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 13:03:43.137",
            "IntroducedByFamilyName": "",
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-3",
            "WorkItemName": "WF-0000000003-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
            "WorkitemState": "NOTSTARTED",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 13:03:39.23",
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 13:03:21.45",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
```

```
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000003-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 13:03:47.843",
            "IntroducedByFamilyName": "",
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-4",
            "WorkItemName": "WF-0000000004-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
            "WorkitemState": "NOTSTARTED",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 13:03:47.28",
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 13:03:23.55",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000004-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 13:03:48.003",
            "IntroducedByFamilyName": "",
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-5",
            "WorkItemName": "WF-0000000005-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
```

```
            "WorkitemState": "NOTSTARTED",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 13:03:43.43",
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 13:03:25.9",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000005-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 16:03:02.237",
            "IntroducedByFamilyName": "",
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-6",
            "WorkItemName": "WF-0000000006-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
            "WorkitemState": "NOTSTARTED",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 16:03:01.373",
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 16:02:54.08",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000006-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 16:03:35.503",
            "IntroducedByFamilyName": "",
```

```
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-7",
            "WorkItemName": "WF-0000000007-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
            "WorkitemState": "NOTSTARTED",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 16:03:35.23",
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 16:03:29.563",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000007-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 16:05:52.307",
            "IntroducedByFamilyName": "",
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-8",
            "WorkItemName": "WF-0000000008-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
            "WorkitemState": "RUNNING",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 16:05:51.107",
```

```
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 16:05:43.243",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000008-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 16:07:19.557",
            "IntroducedByFamilyName": "",
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-9",
            "WorkItemName": "WF-0000000009-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
            "CreatedByUserName": "shaam",
            "WorkItemId": 1,
            "QueueName": "queuenametest_SwimLane_1",
            "ProcessInstanceState": 2,
            "WorkitemState": "NOTSTARTED",
            "LockStatus": "N",
            "ProcessedBy": "shaam",
            "ActivityType": 10,
            "QueueId": 333,
            "Data": "",
            "RouteId": 161,
            "CreatedByFamilyName": "",
            "IntroductionDateTime": "2023-09-14 16:07:14.18",
            "ProcessedByPersonalName": "shaam",
            "CreationDateTime": "2023-09-14 16:07:08.243",
            "IntroducedBy": "shaam",
            "AssignmentType": "S",
            "RouteName": "queuenametest",
            "ProcessInstanceId": "WF-0000000009-queuenametest"
        },
        {
            "CheckListCompleteFlag": "N",
            "SecondaryDBFlag": "N",
            "ActivityName": "Workdesk_2",
            "EntryDateTime": "2023-09-14 17:33:56.323",
            "IntroducedByFamilyName": "",
            "CreatedByPersonalName": "shaam",
            "IntroducedByPersonalName": "shaam",
            "WorkStageId": 2,
            "QueueType": "N",
            "ProcessedByFamilyName": "",
            "URN": "queuenametest-10",
            "WorkItemName": "WF-0000000010-queuenametest",
            "PriorityLevel": 1,
            "InstrumentStatus": "N",
```

```
                    "CreatedByUserName": "shaam",
                    "WorkItemId": 1,
                    "QueueName": "queuenametest_SwimLane_1",
                    "ProcessInstanceState": 2,
                    "WorkitemState": "NOTSTARTED",
                    "LockStatus": "N",
                    "ProcessedBy": "shaam",
                    "ActivityType": 10,
                    "QueueId": 333,
                    "Data": "",
                    "RouteId": 161,
                    "CreatedByFamilyName": "",
                    "IntroductionDateTime": "2023-09-14 17:33:53.34",
                    "ProcessedByPersonalName": "shaam",
                    "CreationDateTime": "2023-09-14 17:33:45.787",
                    "IntroducedBy": "shaam",
                    "AssignmentType": "S",
                    "RouteName": "queuenametest",
                    "ProcessInstanceId": "WF-0000000010-queuenametest"
                }
            ]
        },
        "AliasProcessDefId": 0,
        "CompleteMultipleWorkitems": "N",
        "LastModifiedOn": "2023-09-14 18:02:00.277",
        "QueueId": 333,
        "Option": "WMFetchWorkList",
        "Count": 11,
        "RetrievedCount": 10,
        "SessionId": -867294796,
        "Exception": {
            "MainCode": 0
        }
    }
}
```


Get activity list

Fetches lists of activities on some criteria.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMGetActivityList/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processDefinitionId	QueryParam	String type having the value of processdef id
processName	QueryParam	(String) process name value
activityType	QueryParam	(String) activity type value
filter	QueryParam	(String) filter - filter XML(if any)
sortOrder	QueryParam	(String)Sorting order
orderBy	QueryParam	(String)Column on which sorting is to be done
lastValue	QueryParam	(String) Last Value of batch
lastIndex	QueryParam	(String) Last ActivityId provided
noOfRecordsToFetch	QueryParam	(String) Batch size

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMGetActivityList_Output>
    <Option>WMGetActivityList</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <CacheTime>2023-09-14 13:11:44</CacheTime>
    <ActivityList>
        <ActivityInfo>
            <ID>2</ID>
            <Name>Workdesk_2</Name>
            <EntityName/>
            <ActivityTATCalFlag>N</ActivityTATCalFlag>
            <ActivityType>10</ActivityType>
            <ActivitySubType>3</ActivitySubType>
```

```
            <ProcessDefinitionID>161</ProcessDefinitionID>
            <ProcessName>queuenametest</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
        <ActivityInfo>
            <ID>3</ID>
            <Name>Workdesk_3</Name>
            <EntityName/>
            <ActivityTATCalFlag>N</ActivityTATCalFlag>
            <ActivityType>10</ActivityType>
            <ActivitySubType>3</ActivitySubType>
            <ProcessDefinitionID>161</ProcessDefinitionID>
            <ProcessName>queuenametest</ProcessName>
            <VersionNo>1</VersionNo>
        </ActivityInfo>
    </ActivityList>
    <TotalCount>2</TotalCount>
    <RetrievedCount>2</RetrievedCount>
</WMGetActivityList_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMGetActivityList_Output": {
        "ActivityList": {
            "ActivityInfo": [
                {
                    "ActivitySubType": 3,
                    "ProcessName": "queuenametest",
                    "EntityName": "",
                    "ActivityType": 10,
                    "VersionNo": 1,
                    "ID": 2,
                    "ActivityTATCalFlag": "N",
                    "ProcessDefinitionID": 161,
                    "Name": "Workdesk_2"
                },
                {
                    "ActivitySubType": 3,
                    "ProcessName": "queuenametest",
                    "EntityName": "",
                    "ActivityType": 10,
                    "VersionNo": 1,
                    "ID": 3,
                    "ActivityTATCalFlag": "N",
                    "ProcessDefinitionID": 161,
                    "Name": "Workdesk_3"
                }
            ]
        },
        "TotalCount": 2,
        "Option": "WMGetActivityList",
        "CacheTime": "2023-09-14 13:11:44",
```

```
        "RetrievedCount": 2,
        "Exception": {
            "MainCode": 0
        }
    }
}
```

Reassign workitem

Reassigns a workitem to another user.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WMReassignWorkItem/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: application/xml or application/json

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	PathParam	String type having details of cabinet name
sessionId	HeaderParam	String type having valid session Id value
processInstanceId	QueryParam	String type having value for processInstanceId
workitemId	QueryParam	String type having value for worktiemId
targetUser	QueryParam	(String) targetUser - target user.
openMode	QueryParam	String type having value for worktiemId If OpenMode = WD[WebDesktop] then no need to bypass WMGetWorkitem . If OpenMode = PM[Process Manager] then the user must be able to reassign the worktiem from other users ' My Queue.
comments	QueryParam	(String) comments - user comments(if any).

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

XML Request Body: Not applicable

XML Response Body:

```
<?xml version="1.0"?>
<WMReassignWorkItem_Output>
    <Option>WMReassignWorkItem</Option>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
</WMReassignWorkItem_Output>
```

JSON Request Body: Not applicable

JSON Response Body:

```
{
    "WMReassignWorkItem_Output": {
        "Option": "WMReassignWorkItem",
        "Exception": {
            "MainCode": 0
        }
    }
}
```

Add to mail queue

Makes an entry in WFMailQueueTable to be processed as mail through a mailing agent.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/{engineName}/WFAddToMailQueue/*

Method type: POST

Request Media Type: Not applicable

Response Media Type: Not applicable

Parameters definition:

ParamName	ParamScope	Type and mapping
engineName	Path Param	String type having cabinet Name
sessionId	Header Param	String type having session ID value
mailFrom	Query Param	String type having mailFrom value
mailTo	Query Param	String type having contain mailto (recepients)value
mailCC	Query Param	String type having contain mailCC value
mailSubject	Query Param	String Type having mailID
mailMessage	Query Param	String
attachementISIndex	Query Param	String
attachementNames	Query Param	String
attachementExts	Query Param	String
priority	Query Param	String
comments	Query Param	String
mailActionType	Query Param	String
agentName	Query Param	String
processDefId	Query Param	String
processInstanceId	Query Param	String
workitemId	Query Param	String
mailBCC	Query Param	String
contentType	Query Param	String (Content-Type of mail-body)

If OAuth is enabled

Parameter name	Parameter scope	Type and mapping
AppID	HeaderParam	Registered AppId for the application or product.
AccessToken	HeaderParam	AccessToken for the logged-in user.
SessionValid	HeaderParam	Encrypted session expiry time for the logged in-user.

Request Body: Not applicable

Response Body: Not applicable

Call server API

This REST API calls NewgenONE server API and take its inputXML as request body, invokes the required API and returns the output XML of that API.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/WFGeneric/*

Method type: POST

Request Media Type: application/xml or application/json

Response Media Type: application/xml or application/json

Request Body: Input XML or JSON of API (Any API Input XML or JSON which needs to be executed)

Response Body: Output of that API which was executed by this service.

Upload workitem with document

It creates a workitem and also uploads documents in the workitem folder.

Prerequisites for using this REST API: Omnidocs REST WAR must be deployed on the server.

In *<Application Server>/omniflowconfiguration\wfsconfig\restconfig/RestConfig.ini* file change the following things:

OmniDocsHTTPProtocol: Protocol of the server where OmniDocs REST API is deployed. Its values must be http:// or https://

OmniDocsServerIP: Server IP where OmniDocs REST API is deployed.

OmniDocsWebPort: Server Web Port on which OmniDocs REST API is exposed.

Service URL: *https://<ServerIp:ServerPort>/WFRestFulWebServices/ngone/Restful/WFUploadWorkItem/*

Request media type: “multipart/form-data

Response media type: “application/json” or “application/xml”

Input Parameter:

Header Param:

- **Username:** Valid user name with rights to create the workitem
- **Password:** Valid password for above mentioned user
- **PasswordEncoded**: Valid encoded password for the specified user.

FormParamData: MediaType Supported for input XML are “application/json” and “application/xml”. Need to set the media type in FormParam data when adding the key in the request.

- **WFUploadWorkItem:** WFUploadWorkitem proper input XML.
  Sample XML:

```
<?xml version="1.0"?>
<WFUploadWorkItem_Input>
    <Option>WFUploadWorkItem</Option>
    <EngineName>ng1h1hf1nov19</EngineName>
    <ProcessDefId>18</ProcessDefId>
    <QueueId>52</QueueId>
    <InitiateFromActivityId></InitiateFromActivityId>
    <InitiateAlso>N</InitiateAlso>
    <UserDefVarFlag>Y</UserDefVarFlag>
    <Attributes>
      <Attribute UserDefinedName="Q_int">12</Attribute>
        <Attribute UserDefinedName="Q_string">ravi</Attribute>
        <Attribute UserDefinedName="Q_string2">raj</Attribute>
        <Attribute UserDefinedName="ext_string">rr</Attribute>
        <Attribute UserDefinedName="ext_int">22</Attribute>
        <Attribute UserDefinedName="Q_Cmpny_complex">
            <Attribute UserDefinedName="CmpnyName">name</Attribute>
            <Attribute UserDefinedName="CmpnyLocation">lov</Attribute>
        </Attribute>
        </Attributes>
    <IsWorkItemExtInfo>N</IsWorkItemExtInfo>
    <VariantId>0</VariantId>
    <Documents></Documents>
</WFUploadWorkItem_Input>
```

For Document upload:

- Add document stream in formdata param with any key and also send NGOAddDocument input XML in formdataparam with the key “{document input stream key }_Input.
- You can add multiple documents with one request.
  Sample Example:
  Suppose adding Addhar card in input stream with key “file” then their corresponding input XML of ngoadddocument must be added with key “file_Input”.
  Sample XML of ngoaddDocument:

```
<NGOAddDocumentBDO>
    <cabinetName>ibps5sp125august</cabinetName>
    <folderIndex/>
    <documentName>id2</documentName>
    <userDBId/>
    <volumeId>1</volumeId>
    <accessType>S</accessType>
    <createdByAppName>jpeg</createdByAppName>
    <enableLog>Y</enableLog>
    <FTSFlag>PP</FTSFlag>
    <userName/>
    <userPassword/>
    <comment>addpdf</comment>
    <versionFlag>Y</versionFlag>
</NGOAddDocumentBDO>
```

- For more information regarding NGOAddDocumentBDO , Refer to Omnidocs REST API Document.
- At Run time with replacing the folder index with folder index of workitem and cabinet name with engine name present in wfupload workitem API.
- If the username and password sent by the user in request the web also updating sessionID(UserDBID).
- If the User already login which is sent in the request then we do not proceed further. So Kindly make sure userId send in the request is not used by any other request or login by other user for sucessful workitem creation.
- For more information regarding NGOAddDocumentBDO , Refer to Omnidocs REST API Document.
- At Run time with replacing the folder index with folder index of workitem and cabinet name with engine name present in wfupload workitem API.
- If the username and password sent by the user in request the web also updating sessionID(UserDBID).

- If the User already login which is sent in the request then we do not proceed further. So Kindly make sure userId send in the request is not used by any other request or login by other user for successful workitem creation.

Sample output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<WFUploadWorkItem_Output>
    <URN>IASourabh-280</URN>
    <CreationDateTime>2020-09-02 10:31:14.947</CreationDateTime>
    <UserName>ravi</UserName>
    <Documents/>
    <Option>WFUploadWorkItem</Option>
    <NGOAddDocumentResponseList>
        <NGOAddDocumentResponseBDO>
            <NGOGetDocListDocDataBDO>
                <textISIndex>0</textISIndex>
                <documentType>N</documentType>
                <ftsDocumentIndex>0</ftsDocumentIndex>
                <createdDateTime>2020-09-02 10:31:18.96</createdDateTime>
                <documentLock>N</documentLock>
                <createdByApp>0</createdByApp>
                <documentSize>450592</documentSize>
                <createdByAppName>pdf</createdByAppName>
                <documentVersionNo>1</documentVersionNo>
                <finalizedBy/>
                <useFulInfo/>
                <filedDateTime/>
                <noOfPages>6</noOfPages>
                <enableLog>Y</enableLog>
                <parentFolderIndex>458</parentFolderIndex>
                <expiryDateTime>2120-09-01 10:31:18.96</expiryDateTime>
                <filedByUser/>
                <owner>ravi</owner>
                <docOrderNo>1</docOrderNo>
                <ownerIndex>8</ownerIndex>
                <lockByUser/>
                <author>ravi</author>
                <checkOutBy/>
                <versionFlag>Y</versionFlag>
                <documentName>id</documentName>
                <isIndex>358#1#</isIndex>
                <referenceFlag/>
                <accessedDateTime>2020-09-02 10:31:18.96</accessedDateTime>
                <revisedDateTime>2020-09-02 10:31:18.96</revisedDateTime>
                <comment>add commentnew2343</comment>
                <location/>
                <loginUserRights>11111111111</loginUserRights>
                <checkOutStatus>N</checkOutStatus>
                <documentIndex>610</documentIndex>
            </NGOGetDocListDocDataBDO>
            <message>Document added successfully.</message>
            <statusCode>0</statusCode>
        </NGOAddDocumentResponseBDO>
```

```
        <NGOAddDocumentResponseBDO>
            <NGOGetDocListDocDataBDO>
                <textISIndex>0</textISIndex>
                <documentType>I</documentType>
                <ftsDocumentIndex>0</ftsDocumentIndex>
                <createdDateTime>2020-09-02 10:31:20.493</createdDateTime>
                <documentLock>N</documentLock>
                <createdByApp>0</createdByApp>
                <documentSize>47266</documentSize>
                <createdByAppName>jpeg</createdByAppName>
                <documentVersionNo>1</documentVersionNo>
                <finalizedBy/>
                <usefulInfo/>
                <filedDateTime/>
                <noOfPages>1</noOfPages>
                <enableLog>Y</enableLog>
                <parentFolderIndex>458</parentFolderIndex>
                <expiryDateTime>2120-09-01 10:31:20.493</expiryDateTime>
                <filedByUser/>
                <owner>ravi</owner>
                <docOrderNo>2</docOrderNo>
                <ownerIndex>8</ownerIndex>
                <lockByUser/>
                <author>ravi</author>
                <checkOutBy/>
                <versionFlag>Y</versionFlag>
                <documentName>id2</documentName>
                <isIndex>359#1#</isIndex>
                <referenceFlag/>
                <accessedDateTime>2020-09-02 10:31:20.493</accessedDateTime>
                <revisedDateTime>2020-09-02 10:31:20.493</revisedDateTime>
                <comment>addpdf</comment>
                <location/>
                <loginUserRights>11111111111</loginUserRights>
                <checkOutStatus>N</checkOutStatus>
                <documentIndex>611</documentIndex>
            </NGOGetDocListDocDataBDO>
            <message>Document added successfully.</message>
            <statusCode>0</statusCode>
        </NGOAddDocumentResponseBDO>
    </NGOAddDocumentResponseList>
    <ProcessInstanceId>IA-0000000280-sourabh</ProcessInstanceId>
    <SessionId>-2014057933</SessionId>
    <Exception>
        <MainCode>0</MainCode>
    </Exception>
    <WorkStageId>1</WorkStageId>
    <FolderIndex>458</FolderIndex>
</WFUploadWorkItem_Output>
```

Working with process-specific WAR files

NewgenONE provides you with the option to add custom code to processes or applications and deploy them individually. This feature helps in limiting the impact of a custom code to a specific process allowing the other process to run as usual. This feature also provides the flexibility to perform maintenance on a specific process without affecting the other processes.

For example, assume that an organization needs to create two processes; one for loan application and the other for credit card application. In this scenario, NewgenONE allows you to add the custom code to war files specific to each process and deploy them independently. Any custom code added to the war file of the credit card application process does not impact the loan application process and vice versa.

NewgenONE allows the creation of separate war files to add custom code to the front-end and back-end of each process. This allows for specific customization as per the organization's requirements.

Creating and deploying process-specific war files

To create a process-specific war file for adding custom code to the front-end, perform the following steps:

1. Navigate to the deployment folder of NewgenONE and create a copy of the *appformBuilder.war* file and then rename it to *<process name>.war*.
2. Open the *<process name>.war*.
3. Open the *asset-manifest-mf.json* with a text editor and modify the constant *assetManifest_appformBuilder* to *assetManifest_<process name>*.
4. In all the files of the *<process name>.war* replace "appformBuilder/" with "<process name>/".

Do not replace "/appformBuilder"

5. Add the custom code as required and save the changes.
6. Deploy the *<process name>.war* on the server.

To create a process-specific war file for adding custom code to the back-end, perform the following steps:

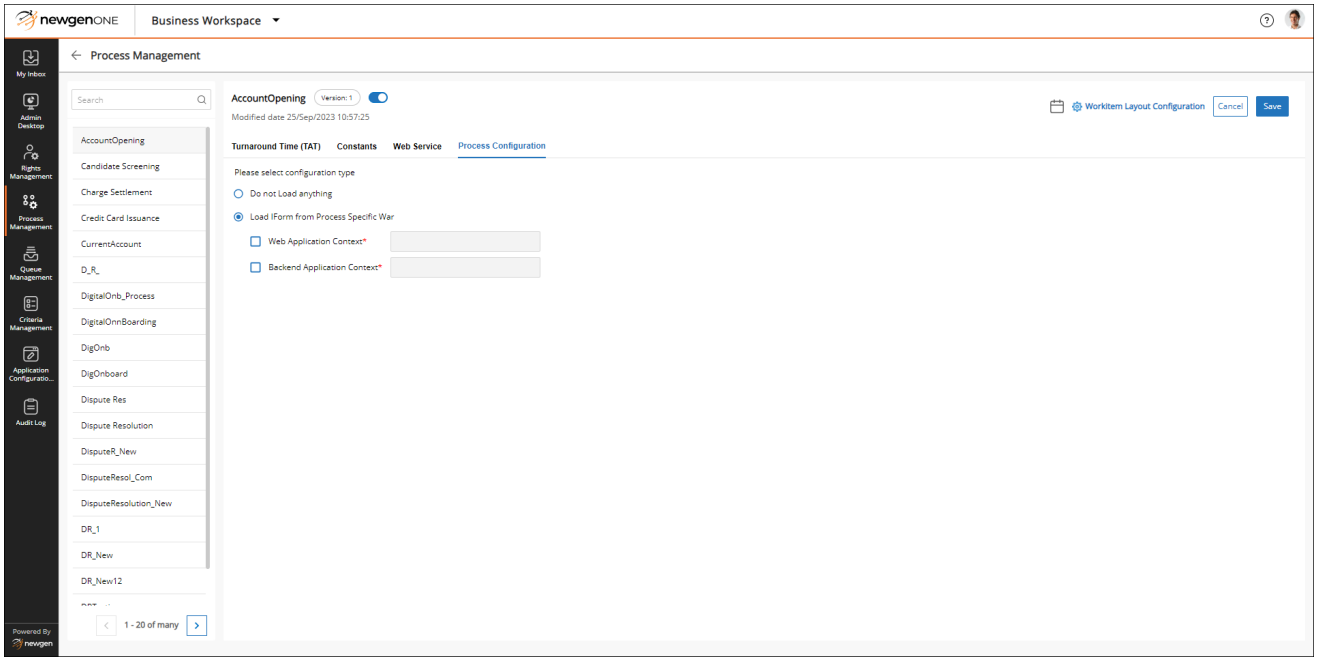
1. Navigate to the deployment folder of NewgenONE and create a copy of *formBuilder.war* and rename it to *<process name>Backend.war*.
2. In the *<process name>.war*, open *config.js* and replace *formBuilder.war* with *<process name>Backend.war*.
3. Add the custom code as required and save the changes.
4. Deploy both *<process name>.war* and *<process name>Backend.war* on the server.

Using process-specific war files

You can use process-specific war files for both front-end and back-end of a process. You must deploy the process-specific war files to use them in a process.

To use the process-specific war files, perform the following steps:

1. Sign in to NewgenONE Business Workspace.
2. Click **Process Management** on the left navigation pane.
3. Select the process from the processes list on the left to apply the custom war file.
4. Select **Load iForm from Process Specific War**.



5. Select the **Web Application Context** checkbox and enter the context name of the process-specific war file for the front-end.
6. Select the **Backend Application Context** checkbox and enter the context name of the process-specific war file for the back-end.
7. Click **Save**.

Interface Designer custom coding APIs

The following APIs are available for custom coding in Interface Designer.

Set picklist header

Changes picklist header at runtime. This API is applicable for picklist.

Signature: functions.setPickListHeader(controlId,header)

Parameter list:

- **controlId**: controlId of the TextControl on which picklist is associated
- **header**: New Header Text user wants to show for Picklist Header

Return Value: None

Example: functions.setPickListHeader("textbox1","New Header"); //method can be called from picklistPreHook method

Add a blank row to table or listview control

Adds an empty row in a table or listview control. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.addBlankRowToTable(tableId)

Parameter list:

- **tableId**: ID of the listview control

Return Value: None

Example: functions.addBlankRowToTable(“table1”);

Add item in combo using itemLabel, itemValue and tooltip

Adds the item in a particular combo using a label with its value and tooltip. This API is applicable for the following:

- combo
- listbox

Signature: functions.addItemInCombo(comboId,itemLabel,itemValue,tooltip,optionControlId);

Parameter list:

- **comboId**: ID of the combo in which items will be added.
- **itemLabel**: A label that will be added in the combo box.
- **ItemValue**: Value corresponding to the item label.
- **Tooltip**: Tooltip corresponding to the item added in the combo box.
- **OptionControlId**: ID for combo item.
  Here, itemValue,tooltip and OptionControlId are optional arguments.

Return Value: None

Example: functions.addItemInCombo("combo3","label","value","tooltip",”optionControlId”);

Add item in table cell combo

Adds item in table cell combo. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.addItemInTableCellCombo(tableId,rowIndex,colIndex,label,value,tooltip,op

Parameter list:

- **tableId**: ControlId of the grid Control
- **rowIndex**: Row index of the grid cell combo
- **colIndex**: Column index of the grid cell combo
- **label**: Label of the option item to be added
- **ItemValue**: Value corresponding to the item label.(optional)
- **Tooltip**: Tooltip corresponding to the item added in the combo box.(optional)
- **OptionControlId**: ID for combo item.(optional)

Return Value: None

Example:
functions.addItemInTableCellCombo("table1",0,2,"item1","value1"); or
functions.addItemInTableCellCombo("table1",0,2,"item1"); or
functions.addItemInTableCellCombo("table1",0,2,"item1","value1","tooltip","id");

Add or change zone on a field

Signature: functions.addZone(zoneName,top,left,width,height,controlId)

Parameter list:

- **zoneName**: Name of the zone
- **top**: Top position of zone(number)
- **left**: Left position of zone(number)
- **width**: Width of zone(number)
- **height**: Height of zone(number)
- **controlId**: ID of control on which zone to be attached.

Return Value: None

Example: functions.addZone('newZone',25,56,20,20,"textbox1")

Add rows with data provided by user

Inserts rows with values provided to advanced listview control. This API is applicable for the advancelistview control.

Signature: functions.addDataToAdvancedGrid(tableId,jsonData)

Parameter list:

- **tableId**: ID of the advanced listview control
- **jsonData**: Array of JSON Objects . Each JSON object represents a row data with key as HTMLId of control and value as data to be inserted in that cell of the advanced listview.

Return Value: None

Example:

Suppose there are 2 columns of type textbox, textarea with HTMLID as parent_textbox1 and parent_textarea1 in advanced listview and third column as a grid(listview/table) with HTMLId as parent_table2 with column names(c1,c2) then jsonData format must be as follows:

```
[{"parent_textbox1":"first","parent_textarea1":"second","parent_table1":
[{"c1":"first","c2":"second"}]}]
```

Output: Calling API with the above JSON data will add two rows to advanced listview with their respective data.

allowPrecisionInText

By default allowed precision value on a masked field mapped to a text type variable is 0. This API is used to modify precision on such fields.

Signature: function allowPrecisionInText()

Return Value: Required precision value.

Example:

Call this API to set precision value on a masked field mapped to a text variable to 2

```
function allowPrecisionInText() {
    return 2;
}
```

API to add rows with data provided by user

Insert rows with values provided to table or Listview control. This API is applicable for the following:

- table
- listview

Signature: functions.addDataToGrid(tableId,jsonData)
Parameters

Parameter list:

- **tableId**: ID of the listview/table control
- **jsonData**: Array of JSON Objects . Each JSON object represents a row data with key as the column name of iForm table control and value as data to be inserted in that cell of listview/table.

Return Value: None

Example: Suppose there are 7 columns (of type textbox, textarea, checkbox, radio, date, datetime and combobox) with names c1 to c7 json.

Data format:

[{“c1”:”first”,”c2”:”second”,”c3”:”true”,”c4”:”true”,”c5”:”28/10/1995”,”c6”:”28/09/20 18 17:56:38”,”c7”:”optionc”},
{“c1”:”first”,”c2”:”second”,”c3”:”true”,”c4”:”true”,”c5”:”28/10/1995”,”c6”:”28/09/201 8 17:56:38”,”c7”:”optionc”}]

Output: Calling API with the above JSON data will add two rows to listview or table.

Change caption of section

Changes caption of the selected section.

Signature: functions.changeSectionCaption(frameName, captionName)

Parameter list:

- **FrameName**: The name of the frame
- **captionName**: Name to be changed from frame name

Return Value: None

Example: functions.changeSectionCaption("frame1","generation");

Change color of a particular cell of a table

Changes the color of a particular cell of a table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setTableCellColor(tableId,rowIndex,colIndex,hexcolorcode);

Parameter list:

- **tableId**: ID of the table for which particular rows need to be disabled.
- **rowIndex**: Integer index of the row in which cell is present.
- **ColIndex**: Integer index of the column in which cell is present.
- **hexcolorcode**: Hex code of color which is to be applied on a table cell.

> Provide hexcolorcode without '#' , for example, FF0000.

Check section completion

Checks if all the mandatory fields are filled. This API is applicable for frame.

Signature: functions.isSectionCompleted(frameId)

Parameter list:

- **frameId**: frameId of the section

Return Value: "true" if the section is completed and "false" if it is not completed.

Clear combo box

Clears the options in a combo box. This API is applicable for the following:

- combo
- listbox

Signature: functions.clearComboOptions(controlId)

Parameter list:

- **controlId**: ID of the combo which is to be cleared.

Return Value: None

Example: functions.clearComboOptions("combo1")

Clear data of table

Clears the values from all the controls inside the table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.clearTable(tableId,syncFlag);

Parameter list:

- tableId: ID of the table for which the data needs to be cleared.
- SyncFlag: “true” means synchronous call and “false” means an asynchronous call.

Return Value: None

Example: functions.clearTable("table1",true);

Clear items in table cell combo

Clears items in table cell combo. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.clearTableCellCombo(tableId,rowIndex,colIndex)

Parameter list:

- **tableId**: ControlId of the grid Control
- **rowIndex**: Row index of the grid cell combo
- **colIndex**: Column index of the grid cell combo

Clear value of control

Clears the values of a particular control. This API is applicable for the following:

- textbox
- password
- textarea
- richtexteditor
- datepick
- slider
- listbox

- combo
- radio
- checkbox
- toggle
- picklist
- paragraph
- report
- iframe
- captcha
- tab
- frame
- sheet

Signature: functions.clearValue(controlId,syncFlag)

Parameter list:

- **controlId**: Value of the control with id “controlId” will be cleared.
- **syncFlag**: Set to true to make a synchronous call else false.

Return Value: None

Example: functions.clearValue("textbox1",true)

Common hook for change event on form

Captures change events on any field in the form.

Signature: function formChangeHook(ref)

Parameter list:

- **ref**: Reference of the field which is changed

Example:

Define a function in your custom js as follow:

```
function formChangeHook(ref) {
    / ref.id: gives controlid for which value is changed (Not applicable for table cells) /
    ref.value: value after the focus is lost from the field
    if the control is not richtextarea
}
```

Complete work item

Sets the current work item's status as complete.

Signature: functions.completeWorkItem()

Parameter list: None

Return Value: None

Example: functions.completeWorkItem()

Custom code on adding row (post hook)

This API is called after a row is added in the table or listview.

Signature: function addRowPostHook(tableId)

Parameter list:

- **tableId**: ID of the listview control

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
function addRowPostHook(tableId){
    //Custom Code
}
```

Custom code on changing table cell value

This pre-hook method is called when a table's cell value is changed.

Signature: function onTableCellChange(rowIndex,colIndex,ref,controlId)

Parameter list:

- **rowIndex**: RowIndex of the cell in which value is changed
- **colIndex**: ColIndex of the cell in which value is changed
- **ref**: Reference of the changed control present in a cell
- **controlId**: ID of the table control.

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
function onTableCellChange(rowIndex, colIndex, ref, controlId) {
    //custom code
}
```

Custom code on deleting row (post hook)

This API is called after a row is deleted from the table or listview.

Signature: function deleteRowPostHook(tableId,rowIndices)

Parameter list:

- **tableId**: ID of the listview control
- **rowIndices**: String containing row indices separated by a comma.

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
function deleteRowPostHook(tableId,rowIndices){
    //Custom Code
}
```

Custom code on label click (as a link)

Custom code when the label is clicked when it is configured as a link.

Signature: function clickLabelLink(labelId)

Parameter list:

- **labelId**: controlId of label control which is configured as a link

Return Value: None

Example: function clickLabelLink(“label2”);

Custom code on modifying row (post-hook)

This API is called after a row is modified (Save Changes) on a listview control.

Signature: function modifyRowPostHook(tableId,rowIndex)

Parameter list:

- **tableId**: ID of the listview control
- **rowIndex**: Index of the row which is modified

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
function modifyRowPostHook(tableId, rowIndex) {
    //Custom Code
}
```

Custom code on opening of list view modalAPI

Opening the listview modal calls this API.

Signature: function listViewLoad(controlId,flag)

Parameter list:

- **controlId**: ID of the listview control
- **flag**: The value is “A” if the modal is opened to add a new row and value is“M” if the modal is opened to modify a row.

Return Value: None

Example: function listViewLoad(controlId,flag){}

Custom code when richtext is loaded

Signature: function onLoadRichTextEditor(textareaId)

Parameter list:

- **textareaId**: HTML ID of text area that is configured as rich text editor

Return Value: None

Example:

Define onLoadRichTextEditor in iformclient.js as follows:

```
function onLoadRichTextEditor(textareaId) {
    //Your custom code here
}
```

Custom coding on add and save changes in a listview modal

Allows users to write custom code in this function. This function is called on clicking “Add” and “Save Changes” buttons.

Signature: functions.customListViewValidation(tableId,flag)

Parameter list:

- **tableId**: ID of the table on which the user wants to define his function.
- **flag**: Signifies whether the function runs on click of “Add” button or “Save Changes” button. (Add = “A” and Save Changes=”M”)

Return Value: "true" or "false" based on the validation required by the user.

Example:

In iformclient.js find customListViewValidation function:

```
functions.customListViewValidation(controlId, flag) {
        if (flag == "A") {
            //Custom code to be executed on clicking “Add” button and return
            true / false according to custom validation
        }
        i
        f(flag == "M”){
            //Custom code to be executed on clicking “Save Changes” button and
return true/false according to custom validation }
        }
```

Delete rows in grid control

Deletes rows in table based on the passed rowindices. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.deleteRowsFromGrid(tableId,rowIndices)

Parameter list:

- **tableId**: HTML ID of the list view control
- **rowIndices**: Array of integer row indices of the rows to be deleted

Return Value: None

Example: functions.deleteRowsFromGrid(“table1”,[0,1,2,3])

The table has a minimum of 4 rows in the above example.

Disable or enable a column of an Interface Designer table

Enables or disables a particular column of a table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setColumnDisable(tableId,colIndex,disableFlag,syncFlag)

Parameter list:

- **tableId**: ID of the table for which column needs to be enabled/disabled
- **ColIndex**: Integer index of the column in the table which needs to be enabled/disabled
- **disableFlag**: “true” means the column is disabled and “false” means the column is enabled
- **SyncFlag**: “true” means synchronous call and “false” means an asynchronous call

Return Value: None

Example: functions.setColumnDisable("table1",1,”false”,true)

Disable or enable auto-complete

Disables auto-complete and type normally on field. This API is applicable for the following:

- listbox
- combo
- textbox

Signature: functions.autoCompleteAPI()

Parameter list:

- **Enable**: String variable to enable or disable by passing 'true' to enable and 'false' to disable
- **ControlId**: String variable as ID of the control.

Return Value: None

Example: functions.autoCompleteAPI(enable,controlId);

Event execution on clicking a row of a listview control

Executes when a list view row is clicked. If this function returns true then modal opens otherwise it will not open.

Signature: functions.onRowClick(listviewId,rowIndex)

Parameter list:

- **listviewId**: ID of the listview control in which target row is present.
- **rowIndex**: Index in double quotes(as a string) of the target row.

Return Value: None

Example:

As this method is present in iformclient.js, write custom code as follows:

```
functions.onRowClick(listviewId,rowIndex){
    //Write your Custom Code
}
```

Event execution on clicking of a sheet of a tab control

Executes when a tab sheet is clicked.

Signature: function onClickTab(tabId,sheetindex,eventCall)

Parameter list:

- **tabId**: ID of the tab control in which the target sheet is present.
- **sheetindex**: Integer index of the target sheet in the tab (zero-based indexing)
- **eventCall**:
  if eventCall = 1 then this function is called from an API and then click is triggered internally(onclick js event is executed).
  If eventCall = 2 then the sheet of the tab is clicked manually (onmousedown js event is executed).

Return Value: None

Example:

Define the method in iformclient.js as follows:

```
function onClickTab(tabId, sheetindex) {
    //Write your Custom Code
}
```

For Application:

On click of Tab clearing previous mandatory values.
Purpose: This is a custom approach for making sure that the user is not required to keep in mind all the mandatory fields for which he is prompted in previous tabs to be filled.

```
function onClickTab(tabId, sheetindex) {
    //clear the ComponentValidatedMap
    for (var member in ComponentValidatedMap) delete
```

```
ComponentValidatedMap[member];
}
```

Event execution on clicking of a sheet of a tab control (using sheet label)

Executes when a tab sheet is clicked.

Signature: function onClickTabByName(tabId,sheetLabel,eventCall)

Parameter list:

- **tabId**: ID of the tab control in which the target sheet is present.
- **sheetLabel**: Label of the target sheet in tab
- **eventCall**:
  If eventCall = 1 then this function is called from an API and then click is triggered internally(onclick js event is fired).
  If eventCall = 2 then the sheet of the tab is clicked manually (onmousedown js event is fired).

Return Value: None

Example:

Define the method in iformclient.js as follows:

```
function onClickTabByName(tabId, sheetLabel, eventCall) {
    //Write your Custom Code
}
```

Event execution on expanding or collapsing of section

Executes when a section is collapsed or expanded.

Signature: function onChangeSectionState(frameId,state)

Parameter list:

- **frameId**: ID of the section for which expand or collapsed event called
- **state**: Section state which is changed now(expanded or collapsed)

Return Value: None

Example:

Define the method in iformclient.js as follows:

```
function onChangeSectionState(frameId, state) {
    //Write your Custom Code
}
```

Event execution on loading of an initially collapsed frame

Executes when a section (which is initially collapsed) is expanded.

Signature: function onLoadSection(frameId,fromOp)

Parameter list:

- **frameId**: ID of the frame on whose loading, execution will be done.
- **fromOp**: If the value of fromOp is "D", then onLoadSection is called on Done click.

Return Value: None

Example:

Define the method in iformclient.js as follows:

```
function onLoadSection(frameId, fromOp){
    //Write your Custom Code
}
```

Expand or collapse richtext editor

This API is applicable for richtexteditor control.

Signature: functions.toggleRichTextEditor(textareaId,state)

Parameter list:

- **textareaId**: HTML ID of text area that is configured as rich text editor
- **state**: Set it to “collapsed” if the rich text needs to be collapsed else “expanded”

Return Value: None

Function on loading of form

Allows users to define custom functionality when the form loads.

Signature: functions.formLoad()

Parameter list:

Return Value: None

Example:

As this method is present in iformclient.js, write custom code as follows:

```
function.formLoad() {
    //Write your Custom Code
}
```

Function on loading of sub-form

Defines custom functionality when the form loads.

Signature: functions.subFormLoad(buttonId)

Parameter list:

- **buttonId**: ButtonId on which subform is configured

Return Value: None

Example:

Define this method in iformclient.js, write custom code as follows:

```
functions.subFormLoad(buttonId) {
    //Write your Custom Code
}
```

Get control value

Returns the value present inside a particular control. This API is applicable for the following:

- textbox
- password
- textarea
- richtexteditor
- datepick
- slider
- listbox combo
- radio
- checkbox
- toggle
- picklist
- paragraph
- captcha

Signature: functions.getValue(controlId)

Parameter list:

- **controlId**: ID of the control whose value is to be obtained.

Return Value: Value present inside a particular control.

Example: functions.getValue("textbox1")

Get defined zone list on the form at runtime

Allows you to get zone list at run time on that form.

Signature: functions.getZoneList ()

Return Value: JSON object containing all the Zones, can be captured by zone name.

Example: var zoneJSON = functions.getZoneList()
If 1_zone1 is any zone name in the defined Zones,
then its attributes can be captured by zoneJSON[“1_zone1”].top,
zoneJSON[“1_zone1”].left, zoneJSON[“1_zone1”].width, zoneJSON[“1_zone1”].height.

Get item count of combo

Returns the number of items available in the combo box. This API is applicable for the following:

- combo
- listbox

Signature: functions.getItemCountInCombo(comboId);

Parameter list:

- **comboId**: This is the id of the combo for which count is to be obtained.

Return Value: Returns the number of items available in the combo box.

Example: functions.getItemCountInCombo("combo1");

Get label of an item in combo

Return the label of an item in a combo depending upon the index passed in this API. This API is applicable for the following:

- combo
- listbox

Signature: functions.getItemLabel(comboId,itemIndex)

Parameter list:

- **comboId**: ID of combo box from which item label needs to be returned.
- **ItemIndex**: Integer index of the item whose label will be returned.

Return Value: Label of an item in a combo depending upon the itemIndex parameter.

Example: functions.getItemLabel("combo2",3)

Get label of the selected item in combo box

Returns the label of an item in a combo that is currently selected. This API is applicable for the following:

- combo
- listbox

Signature: functions.getSelectedItemLabel(comboId)

Parameter list:

- **comboId**: ID of combo box from which item label needs to be returned.
- **Return Value**: The label of an item in a combo that is currently selected.

Return Value: Label of the selected item in the indicated combo.

Example: functions.getSelectedItemLabel("combo2")

Get mandatory controls list

Purpose

Signature: functions.getMandatoryFieldList(controlId,Index)

Parameter list:

- **controlID**: ID of frame or tab.
- **Index**: Index of sheet(optional parameter, needs to be sent if control is of type sheet)

Return Value: JSON array of objects containing list of mandatory fields.

Example:

- functions.getMandatoryFieldList(“tab1”,0);
- functions.getMandatoryFieldList(“frame1”);

Get richtext data (when it is opened)

This API is applicable for richtexteditor control.

Signature: functions.getRichTextData(textareaId)

Parameter list:

- **textareaId**: HTML ID of text area that is configured as rich text editor

Return Value: HTML String of data inserted in the Rich text editor.

Get row count of grid

Gets the number of rows in the grid. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.getGridRowCount(tableId)

Parameter list:

- **tableId**: ControlID of the table

Return Value: The number of rows in the grid

Get selected rows data in a grid

Gets selected rows data in grid. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.getSelectedRowsDataFromTable(tableId)

Parameter list:

- **tableId**: HTML ID of the list view control

Return Value: 2d array containing values of selected rows.

Example: functions.getSelectedRowsDataFromTable(“table1”)

Get selected sheet index of tab

Returns the index of the selected sheet in a tab. This API is applicable for the following:

- tab
- menu

Signature: functions.getSheetIndex(tabId);

Parameter list:

- **tabId**: ID of the tab for which index is to be obtained.

Return Value: Index of the selected sheet in a tab.

Example: functions.getSheetIndex("tab1");

Get state of all sections

Checks if section is open or not

Signature: functions.getSectionList()

Parameter list:

Return Value: JSON object with key as sectionId and value as section state (expanded/collapsed)

Example: functions.getSectionList()

Get value from table

Returns an XML document in a particular format containing the data in all the controls present in each table cell. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.getValueFromTable(tableId)

Parameter list:

- **tableId**: ID of the table for which we need to get data.

Return Value: Table-data in XML format(an XML string).

XML format:

```
<table>
    <rows>
        <row>
            <header>header1
            </header1>
            <header2>header2</header2>
        </row>
        <row>
            <header1>value</header1>
            <header2>value</header2>
        </row>
    </rows>
</table>
```

Example: functions.getValueFromTable("table1")

Get value present in a particular cell of a table

Returns the value of control present in a cell of the table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.getValueFromTableCell(tableId,rowIndex,colIndex);

Parameter list:

- **tableId**: ID of the table for which we need to get data.
- **RowIndex**: Integer index of the row in which table cell is present.
- **ColIndex**: Integer index of the column in which table cell is present.

Return Value: Value in the respective table cell.

Example: functions.getValueFromTableCell("table1",3,4);

Get value present in a particular row and column of a table

Returns the value of control present in a row of the table by name of the column. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.getValueFromColumnName(tableId,rowIndex,colName);

Parameter list:

- **tableId**: ID of the table for which we need to get data
- **RowIndex**: Integer index of the row in which table cell is present

- **colName**: Name of the column in which table cell is present

Return Value: Returns the value in the respective table cell.

Example: functions.getValueFromColumnName("table1",3,"first");

Get work item data

Returns the property value corresponding to the work item.

Signature: functions.getWorkItemData(propertyName)

Parameter list:

- **propertyName** can take the following values:
  processInstanceId, activityName, cabinetName, appServerIp, appServerPort, userName, sessionID, activityId, or queuename.

Return Value: Property value corresponding to the work item.

Example: functions.getWorkItemData("sessionId");

Hide or show the add and delete buttons in listview

Hides or shows the add and delete buttons in listview. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.showGridAddDeleteButtons(controlId,showHideAddDelete)

Parameter list:

- **controlId**: controlid of listview
- **showHideAddDelete**: takes values -1,1,2,3

- **-1** – To show both add and delete buttons
- **1** – To hide the delete button
- **2** – To hide the add button
- **3** – To hide both add and delete buttons

Highlight grid row in Interface Designer

Highlights selected rows in a grid. This API is applicable for the listview control.

Signature: functions.setRowColorInListView(controlId,rowIndex,colorCode)

Parameter list:

- controlId: controlId of the grid Control
- rowIndex: row index of the grid which is to be highlighted.

Hook on closing of sub-form

Custom code in the hook when the subform done button is clicked.

Signature: function subformDoneClick(buttonId)

Parameter list:

- **buttonId**: The button id on which the subform was opened

Return Value: None

Example:

Define subformDoneClick function in iformclient.js as follows:

```
function subformDoneClick(buttonId) {
    //Custom Code
}
```

Hook on closing of workitem

Called when workitem is closed.

Signature: function closeWorkitemHook()

Parameter list:

Return Value: None

Example:

```
function closeWorkitemHook() {
    //Custom Code
}
```

Hook on custom web service

Both pre and post hooks are given on custom web service.

Signature:

- function customWebServicePreHook(controlId)
- function customWebServicePostHook(controlId)

Parameter list:

- **controlId**: ID of control

Return Value: "true" to continue running the custom service and "false" to stop the custom service.

Example:

```
function customWebServicePreHook(controlId) {
    return true;
}
```

```
function customWebServicePostHook(controlId) {}
```

Hook on focus on table cell

Hook on table cell focus.

Signature: functions.onTableCellFocus(tableId,rowIndex,colIndex,evtObj)

Parameter list:

- **tableId**: ID of table control
- **rowIndex**: Row index of selected cell.
- **colIndex**: Column index of selected cell.
- **evtObj**: Event object

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
functions.onTableCellFocus(tableId, rowIndex, colIndex, evtObj) {}
```

Hook on next previous batching button

Hook on next previous batching button.

Signature: functions.nextPreviousBatchHook(tableId)

Return Value: None

Example: functions.

```
functions.nextPreviousBatchHook(tableId) {}
```

Hook on selection of row of table or listview

This hook method is called when a table or listview row is selected.

Signature: function selectRowHook(tableId,selectedRowsArray,isAllRowsSelected)

Parameter list:

- **tableId**: ID of the table of which row is selected
- **selectedRowsArray**: Array containing indices of the row selected starting from 1
- **isAllRowsSelected**: Boolean, It is true when all the rows are selected.

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
function selectRowHook(tableId, selectedRowsArray, isAllRowsSelected) {
    //custom code
}
```

Hook to get last select row

To get last selected row in case of tables.

Signature: functions.getGridSelectedIndex(controlId, rowIndex)

Parameter list:

- **controlId**: ID of table control for which last selected row index is required
- **rowIndex**: Row index of last selected row.

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
functions.getGridSelectedIndex(controlId, rowIndex) {
    return;
}
```

Hook to handle custom key events on Interface Designer

Handles Custom Key Events on Interface Designer.

Signature: function handleCustomKeyEvent(event)

Parameter list:

- **event**: Keyboard keypress event from which you have to check for key events

Return Value: None

var keyCode = event.which || event.keyCode;// to get event key code

To check if the key is pressed with ctrl or shift or alt, you can check if these keys are pressed or not by the following boolean values:

- event.altKey //for alt key check
- event.ctrlKey //for ctrl key check
- event.shiftKey //for shift key check // Ex for CTRL+S

Example:

Define the function in iformclient.js as follows:

```
function handleCustomKeyEvent(event) {
    var keyCode = event.which || event.keyCode;
    if (keyCode == 83 && event.ctrlKey) {
        //code for CTRL+S event
    }
}
```

JS hook to prevent clearing options during DB linking

Appends the options when the DB Linking is executed on the combo box. This API does not clear the existing combo options.

Signature: function clearComboItems(controlId)

Parameter list:

- **controlId**: HTML Id of the target combo control for which options will not be cleared

Return Value: "true" if the values are to repopulated and "false" if the values are to be appended (must return a boolean value).

Example:

Define the function in your custom JS as follows:

```
function clearComboItems(controlId) {
    if (controlId == "combo2") return false;
    return true;
}
```

In the above example if DBLinking target is “combo2”, then the options present inside “combo2” will not get cleared. Instead, the options generated from DB Linking will be appended to the existing combo and the old selected value will not be changed.

nextPreviousAdvancedListviewPosthook

To run listviewload like functionalities after you click on the next or previous button on the advanced listview modal.

Signature: function nextPreviousAdvancedListviewPosthook(controlId,rowIndex,operation)

Return Value: "true" or "false"

Example:

Define the function:

```
function nextPreviousAdvancedListviewPosthook(controlId, rowIndex, operation) {
    listviewload(); //something similar
    return true;
}
```

onClickRadioButton

This API gets executed after clicking on the radio button.

Signature: functions.onClickRadioButton(thisref, controlId)

Parameter list:

- thisref: Document object of the radio control
- controlId: HTML ID of the element

Return Value: None

Example:

```
functions.onClickRadioButton(thisref, controlId) {
    // thisref.value
    // controld.id
}
```

Open overlay for table

This is a custom hook that returns "true" to open the overlay and returns "false" to not open the overlay.

Signature: function openOverlay(controlId)

Parameter list:

- **controlId**: HTML Id of the target table control for which the user wants to open overlay.

Return Value: "true" to open overlay and "false" to restrict the overlay

Example:

```
function openOverlay(controlId) {
//custom code
//true or false must be return
}
```

Post-hook on executeserverevent API

This API gets executed after the execution of executeServerEvent method.

Signature: function postServerEventHandler(controlName, eventType , serverEventResponseData);

Parameter list:

- **controlName**: controlName of tab control for which save and post hook is to be used
- **eventType**: type of event
- **serverEventResponseData**: data as a response from executeServerEvent API

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
function postServerEventHandler(controlName, eventType, serverEventResponseData) {
    return;
}
```

Post hook on change

This is called after onChange automatically, if OnChangeEventHandlerServerSide = Y in iformsconf.ini file on server.

Signature: functions.postChangeEventHandler ()

Parameter list:

- **controlId**: ID of control on which onchange got fired automatically

- **responseData**: Response that is returned from the custom code java side

Return Value: None

Example:

Define the function:

```
functions.postChangeEventHandler(controlId, responseData) {
    //Custom Code
}
```

Post-hook method when a row is selected in a picklist and okay button is clicked

This API gets executed when you click the Okay button on a picklist.

Signature: function postHookPickListOk(columns,controlId,rowId,colId)

Parameter list:

- **columns**: An array of values of the row clicked
- **controlId**: HTML Id of the textbox on which the picklist is opened
  The following parameters are used only when the picklist is opened on a table cell
- **rowId**: Zero-based row index of the row of the table cell
- **colId**: Zero-based column index of the column of the table cell.

Return Value: "true" if the value is getting set by custom code otherwise false.

Example:

Define the function in iformclient.js as follows:

```
function postHookPickListOk(columns, controlId, rowId, colId) { //custom code
    return true; //this method always returns true
}
```

Post-hook on cancel click of picklist

This API gets executed when you click on the Cancel button on a picklist.

Signature: function postHookPickListCancel(textid)

Parameter list:

- **textid**: HTML ID of the textbox for which picklist is opened

Return Value: None

Example:

Define postHookPickListCancel in iformclient.js as follows:

```
function postHookPickListCancel(textid) {
    //CustomCode
}
```

Post-hook on clear button of picklist

Post hook on the clear button of a picklist.

Signature: function clearPicklistPostHook(controlId)

Parameter list:

Return Value: None

Example:

```
function clearPicklistPostHook(controlId) {}
```

Post-hook on DB linking

This API gets executed after the execution of the DB linking.

Signature: function postHookDBLink(controlId , event)

Parameter list:

- **controlId**: controlid of the form control on which DB Linking is executed
- **event**: js event object

Return Value: None

Example:

Define the function in iformclient.js as follows:

```
function postHookDBLink(controlId, event) {
    //Custom Code
}
```

Post-hook on duplicate row in listview

This API gets executed in custom code when the “Duplicate Row” button is clicked.

Signature: functions.copyRowPosthook(tableId)

Parameter list:

- **tableId**: HTML ID of the list view control

Return Value: None

Example:

Define copyRowPosthook function in iformclient.js as follows:

```
functions.copyRowPosthook(tableId) {
    //Custom Code
}
```

Post-hook on save changes button of listview

Post-hook on the save button of the listview.

Signature: function modifyRowPostHook(controlId)

Return Value: None

Example:

```
function modifyRowPostHook(controlId) {}
```

Post-hook on save of workitem

This is called after workitem is saved.

Signature: function saveWorkItemPostHook ()

Return Value: None

Example:

Define the function:

```
function saveWorkItemPostHook() {
    //Custom Code
}
```

Post-hook on search in a grid control

Allows you to execute custom code after the searched result is fetched in grid control.

Signature: function searchGridPostHook(tableId)

Parameter list:

- **tableId**: HTML Id of grid control on which search operation is performed

Return Value: None

Pre-hook to set coordinate values before focusing

Allows you to set the coordinates rather than the coordinates set while drawing the zones.

Signature: function preHookZoneGotFocus(zName,zLeft, zoneTop, final_width, final_height,ref.id);

Parameter list:

- **zName**: Name of the zone(don't change naming convention).
- **zLeft**: How much zone is away from the left side of the page in figures.
- **zoneTop**: Coordinate value of the top from where the zone is drawn.
- **final_widt**h: Coordinate value of rightmost zone box.
- **final_height**: Total height of the zone box.
- **ref.id**: Control ID

Return Value: None

Example: function preHookZoneGotFocus('1_Zone1 ','209','275','290','125');

Pre-hook before loading of picklist

Custom code can be written before the loading of a picklist.

Signature: function picklistPreHook(controlId)

Parameter list:

- **controlId**: ControlId of the textbox on which the picklist is present

Return Value: If "false" is returned from the hook then the picklist will not open in all other cases picklists will open.

Example:

Define the function in iformclient.js as follows:

```
function picklistPreHook(controlId) {
    //Custom Code
}
```

Pre-hook before save and next click of tab control

Executes custom code before saving and next functionality of tab is executed.

Signature: function saveAndNextPreHook(tabId);

Parameter list:

- **tabId**: ControlId of tab control for which save and next pre hook is to be used

Return Value:

- **true** – to execute normal functionality
- **false** – to stop the execution.

Example:

```
function saveAndNextPreHook(tabId) {
    return false;
}
```

Pre-hook on sub-form

Signature: function subFormPreHook(buttonId)

Return Value: "true" to open subform and "false" to restrict the opening of the subform.

Example:

```
function subFormPreHook(buttonId) {
    return true;
}
```

Pre-hook on web service

To execute any functionality just before executing the webservice.

Signature: function webServicePreHook(controlId)

Return Value:

- true – To continue running webservice and
- false – To stop webservice

Example:

```
function webServicePreHook(controlId) {
    return true;
}
```

Pre-hook to close overlay of some listviews

Restricts the overlays if listview If RestrictCloseOverlay(INI) is set to Y but user wants some listview to behave like it works by default that is when INI is 'N'.

Signature: functions.overrideRestrictOverlay(controlId)

Parameter list:

- **controlId**: HTML Id of the target ListView control

Return Value: "true" to achieve the purpose

Example:

```
functions.overrideRestrictOverlay("table1") {
    return true;
}
```

Pre-hook to open multiple sub-form window

Allows multiple subform window in a form

Signature: functions.openMultipleSubFormWindow()

Return Value:

- true - Open multiple sub-form windows
- false - To open only a single sub-form window.

Example:

```
functions.openMultipleSubFormWindow() {
    return false;
}
```

Reload contents of frame or section contents at runtime

Reloads frame or section contents at runtime. This API is applicable for the frame.

Signature: functions.refreshFrame(frameId,sync)

Parameter list:

- **frameId**: ID of the frame control
- **sync**: Set to true if the call needs to be made synchronous else false for asynchronous.

Return Value: None

Example: functions.refreshFrame("frame1",true);

Use this API when you have set the section property with the name "Get Data On Demand" as "Yes". So the contents of the section will be loaded again after calling the API and data will be fetched again from the Database.

Reload tab sheet

Reloads tab Sheet. This API is applicable for the tab control.

Signature: functions.reloadTabSheet(tabId,sheetIndex)

Parameter list:

- **tabId**: Id of the tab
- **sheetIndex**: Index of the sheet(Integer)

Return Value: None

Example: functions.reloadTabSheet("tab1",0);

Remove item from combo

Removes the item from combo corresponding to a label. This API is applicable for the following:

- combo
- listbox

Signature: functions.removeItemFromCombo(comboId,itemIndex);

Parameter list:

- **comboId**: ID of the combo from which the items will be removed.
- **itemIndex**: Integer index of the item that needs to be removed from the combo box.

Remove item from table cell combo

Removes item from table cell combo. This API is applicable for the following:

- table

- listview
- advancelistview

Signature: functions.removeItemFromTableCellCombo(tableId,rowIndex,colIndex,optionIndex)

Parameter list:

- **tableId**: ControlId of the grid Control
- **rowIndex**: Row index of the grid cell combo
- **colIndex**: Column index of the grid cell combo
- **optionIndex**: Index of item to be removed.

Return Value: None

Example: functions.removeItemFromTableCellCombo("table1",0,2,2)

Save work item

Saves the current work item.

Signature: functions.saveWorkItem()

Parameter list: None

Return Value: None

Example: functions.saveWorkItem()

Select particular rows of grid or clear row selection

Sets particular rows selected or clear row selection. This API is applicable for the listview control.

Signature: functions.setRowSelectionInListView(controlId,rowIndices)

Parameter list:

- **controlId**: ID of the Grid

- **rowIndices**: An array of integer row indices to be selected

> To clear row selection pass rowIndices as [-1] (single value (-1) in an array)

Return Value: None

Example: functions.setRowSelectionInListView(“table1”,[1,2,3]) or setRowSelectionInListView(“table1”,[-1])

Set a particular cell disabled or enabled in a table

Disables or enables a particular row of a table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setCellDisabled(tableId, rowIndex,colIndex,disableFlag);

Parameter list:

- **tableId**: ID of the table for which a cell needs to be disabled.
- **rowIndex**: Integer index of the row in which the cell is present.
- **colIndex**: Integer index of the column in which the cell is present.
- **disableFlag**: “true” means the cell needs to be disabled.

Return Value: None

Example: functions.setCellDisabled("table1", 2,3,"true");

Set and save richtext data

This API is applicable for richtexteditor for control.

Signature: functions.saveRichTextData(textareaId,HTMLData)

Parameter list:

- **textareaId**: HTML ID of text area that is configured as rich text editor
- **HTMLData**: HTML string to be set in RTE

Return Value: None

Example: functions.saveRichTextData(“textarea1”,” Random Text ”)

Set custom masking pattern for a text control

Sets custom masking pattern for a text control.

Signature: functions.setCustomMasking

Parameter list:

- controlId: ID of textbox
- dgroup: Numbers between separator(international or Indian system)
- adec: Which special character you want which act as a decimal
- asep: Numbers are separated by comma or sometimes space
- Asign: Currency symbol
- psign: Whether currency symbol prefix or suffix
- decimal: How many decimals you want to show.

Return Value: None

Example: functions.setCustomMasking("textbox1","3",".",",","$ ","p","2");

Set custom pattern

Sets custom pattern. This API is applicable for textbox.

Signature: functions.setCustomPattern(controlId,pattern)

Parameter list:

- **controlId**: controlId of the Control
- **pattern**: Give custom pattern for eg-[0-9].

Set data in a table cellAPI

Sets data in a particular cell of a table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setTableCellData(tableId,rowIndex,colIndex,cellData,syncFlag)

Parameter list:

- **tableId**: ID of the table in which respective cell is present.
- **rowIndex**: Index of the row in which respective cell is present.
- **colIndex**: Index of the column in which respective cell is present.
- **syncFlag**: Set to true if a synchronous call needs to be made else false.

Set date range

Sets minimum and maximum date. This API is applicable for datepick.

Signature: functions.setDateRange(controlId,minDate,maxDate)

Parameter list:

- **controlId**: ID of the date picker
- **minDate**: Minimum date to be set on the calendar
- **maxDate**: Maximum date to be set on the calendar

Example: functions.setDateRange(“datepick1”,”10/12/2019”,”10/12/2020”)

Set date range in table cell

Sets minimum and maximum date in table cell. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setTableCellDateRange(tableId,rowIndex,colIndex,minDate,maxDate)

Parameter list:

- **tableId**: ID of the table
- **rowIndex**: RowIndex of the cell
- **colIndex**: ColIndex of the cell
- **minDate**: Minimum date to be set on calendar
- **maxDate**: Maximum date to be set on calendar

Return Value: None

Example: functions.setTableCellDateRange("table1",0,1,"10/12/2019","10/12/2020")

Set focus on control

Sets a particular control to focus. This API is applicable for:

- textbox
- password
- textarea
- datepick
- listbox
- combo
- radio
- checkbox
- toggle
- picklist
- button
- captcha

- sheet
- tile

Signature: functions.setFocus(controlId)

Parameter list:

- **controlId:** Control having id “controlId” will be focused.

Return Value: None

Example: functions.setFocus("datepick1")

Set focus on table cell control

Sets focus on table cell with given row and column index.

Signature: functions.setTableCellFocus (controlId,rowindex,colindex)

Parameter list:

- **controlId**: Table or ListView control ID
- **rowindex**: Row index of table or Listview
- **colindex**: Column index of table or Listview

Return Value: None

Example: functions.setTableCellFocus ("table1",1,1)

Set masking pattern for a text control

Sets a masking pattern for text control.

Signature: functions.setMaskingPattern(controlId , pattern)

Parameter list:

- **controlId**: controlId of the text Control
- **pattern**: New pattern for the text control
  Type of Pattern Value to be passed in API:

- Percentage(to append % sign at the end) “Percentage”
- Pincode(to have pincode type of field) “Pincode” Email(For email type of field) “Email”
- Dollar Pattern “Dollar”
- Indian Rupee Pattern “Rupees” Yen Currency Pattern “Yen” Euro Currency Pattern “Euro”
- French Currency Pattern “French” US Number Format “USFormat”
- Indian Number Format “IndianFormat” Mobile Number Format “Mobile” Delete or Remove Pattern “” or ”Clear”

Return Value: None

Example: functions.setMaskingPattern(“text1”,”Percentage”)

This API works on primitive controls; it does not work for controls inside normal or advanced listview.

Set particular rows of table disabled

Disables particular rows of at table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setRowsDisabled(tableId,rowIndicesArray,isDisableSelect);

Parameter list:

- **tableId**: ID of the table for which particular rows need to be disabled.
- **rowIndicesArray**: An array of integer row indices which need to be disabled.
- **IsDisableSelect**: Boolean to set select row checkbox is disabled.

Return Value: None

Example: functions.setRowsDisabled("table1",[0,2,3,4]); setRowsDisabled("table1", [0,2,3,4],true); (to make select row checkbox as disabled)

Set particular sheet selected of a tab

Selects a particular sheet of a tab. This API is applicable for the following:

- tab
- menu

Signature: functions.selectSheet(tabId,index)

Parameter list:

- **tabId**: ID of the tab where the sheet is present.
- **Index**: integer index of tab sheet whose style will be changed.

Return Value: None

Example: functions.selectSheet("tab2",1);

Set particular sheet selected of a tab using sheet label

Selects a particular sheet of a tab. This API is applicable for the following:

- tab
- menu

Signature: functions.selectSheetByName(tabId,sheetLabel)

Parameter list:

- **tabId**: ID of the tab where the sheet is present.
- **sheetLabel**: Label of the sheet to open.

Return Value: None

Example: functions.selectSheetByName("tab2","PersonalInfo");

Set row style

Sets the style of a particular row in a table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setRowStyle(tableId,rowIndex,attributeName,attributeValue)

Parameter list:

- **tableId**: ID of the table whose row is to be styled.
- **RowIndex**: Integer row index in table which is to be styled
- **attributeName**: Style name that will be set on the row(visible/disable) attributeValue: value of style attribute(true/false)

Return Value: None

Example: functions.setRowStyle("table1",2,"visible","false")

Set style

Sets the CSS style of a particular control.

Signature: functions.setStyle(controlId, attributeName, attributeValue,showHideAddDelete)

Parameter list:

- **controlId**: Id of the control whose style is to be changed.
- **attributeName**: Type of style that is to be changed.
- **attributeValue**: Value which is passed to the attribute name.
- **ShowHideAddDelete**: Parameter to hide and show the add and delete button in listview

Return Value: None

Use cases:

- **Enable or disable section**
  Example: functions.setStyle("frame1","disable","true")
  Section with id="frame1" will be disabled. The "true/false" tells whether the section will be disabled/enabled respectively.
- **Enable or disable control**
  Example: functions.setStyle("country","disable","true")
  Control with id="country" will be disabled. The "true/false" tells whether the control will be disabled/enabled respectively.
  - **Lock(read only) or unlock control**
    Example: functions.setStyle("country","readonly","true")
    Control with id="country" will be made locked or made read-only. "true/false" tells whether the control will be locked(readonly)/unlocked respectively.
    - **Set frame locked**
      Example: functions.setStyle("frame1","lock","true")
      If true then frame won't be collapsed or expand and will remain on the same state when this function is called and if 'false' it will go back to a normal state.
    - **Visible or invisible of control**
      Example: functions.setStyle("checkbox1","visible","false")
      Checkbox with id ="checkbox1" will be hidden. "true/false" denotes whether the control needs to be visible/invisible respectively.
  - **Set charcase of text field control**
    Example: functions.setStyle("country","charcase","up")
    Text field with id ="country" will have text in uppercase. "up/low" denotes whether the text needs to be in uppercase/lowercase respectively.
    - **Set control mandatory**
      Example: functions.setStyle("country","mandatory","true")
      This sets the required attribute in the text box with id = "textbox1" and thus makes it mandatory.
    - **Set control background color**
      Example: functions.setStyle("country","backcolor","black")
      This sets the red background color in the textbox with id = "country". The third parameter can be a hex value:
      000000(Without #) or simply a color name: black.
    - **Set control font color**
      Example: functions.setStyle("country","fontcolor","white")
      This sets the white font color in the textbox with id = "country". The third

parameter can be a hex value:
FFFFFF(Without #) or simply a color name: white.

- **Expand or collapse a section**
  Example: functions.setStyle("frame1","sectionstate","expanded")
  This will expand the section with id=”frame1”. The third parameter can also take the value: “collapsed” which will collapse the section with id=”frame1”.

- **Tooltip for input controls**
  Example: functions.setStyle("textbox1","title","customTitle")
  iForm Custom Coding Guideline Page 11
  This sets the tooltip of control with id textbox1 as “customTitle”
- **To show and hide the add & delete button in listview**
  Example: functions.setstyle(“listviewid”,”disable”,”false”,-1)
  This hides the add and delete buttons in listview.
- **Maxlength for textbox control**
  Example: functions.setStyle("textbox1","maxlength","10")
  This sets the maximum length of textbox value with id textbox1 to 10 characters

Set SubForm dimensions

To change the height and width of a SubForm.

Signature: function resizeSubForm ()

Parameter list:

- **buttonId**: ID of the button on which subForm opens

Return Value: Height and width

Example:

Define the function in iformclient.js:

```
function resizeSubForm(buttonId) {
    eturn {
        "Height": 450,
```

```
        "Width": 950
    };
}
```

Set tab style

Sets the CSS style of a particular sheet or tab inside the tab-pane. This API is applicable for the tab control.

Signature: functions.setTabStyle(tabId, index, attributeName,attributeValue)

Parameter list:

- **tabId**: the id of the tab whose style needs to be changed.
- **Index**: integer index of the sheet whose style will be changed.
- **attributeName**: attribute style whose value will be set.
- **attributeValue**: value which is passed to the attribute name.

Return Value: None

Use cases:

- **Set a particular sheet Enable or disable**
  Example: functions.setTabStyle("tab1", 1, "disable", "true");
  All the controls inside the second sheet of the tab control will be disabled. The “true/false” denotes whether the controls inside the sheet will be disabled/enabled respectively.
- **Set a particular sheet of a tab visible or invisible**
  Example: functions.setTabStyle("tab1", 1, "visible", "false");
  The second sheet of the tab with id=”tab1” will be hidden. “false/true” denotes whether the sheet needs to hidden/visible respectively.

Set tab style by sheet label

Sets the CSS style of a particular sheet or tab inside the tab-pane. This API is applicable for the tab control.

Signature: functions.setTabStyleByName(tabId, sheetLabel, attributeName,attributeValue)

Parameter list:

- **tabId**: the id of the tab whose style needs to be changed.
- **sheetLabel**: Label of the sheet whose style will be changed.
- **attributeName**: attribute style whose value will be set.
- **attributeValue**: value which is passed to the attribute name.

Return Value: None

Use cases:

- **Set a particular sheet enable or disable**
  Example: functions.setTabStyleByName("tab1","PersonalInfo", "disable", "true");
  All the controls inside the PersonalInfo sheet of the tab control will be disabled. “true/false” denotes whether the controls inside the sheet will be disabled/enabled respectively.
- **Set a particular sheet of a tab visible or invisible**
  Example: functions.setTabStyleByName("tab1", "PersonalInfo", "visible", "false");
  The PersonalInfo sheet of the tab with id=”tab1” will be hidden. “false/true” denotes whether the sheet needs to hidden/visible respectively.

Set table cell read-only

Sets a specific cell as read-only.

Signature: functions.setTableCellReadOnly(tableId,rowIndex,colIndex,flag)

Parameter list:

- **tableId**: ID of table control
- **rowIndex**: Row index.
- **colIndex**: Column index.
- **flag**: True or false, if true then it will set read-only, if false then it will remove the read-only property

Return Value: None

Example: functions.setTableCellReadOnly("table12",0,3,true);

Set values

This API is used to set the values in the form field and is applicable for the following:

- textbox
- password
- textarea
- richtexteditor
- slider
- listbox
- combo
- radio
- toggle
- picklist
- paragraph
- captcha
- checkbox
- datepick

Signature: functions.setValues

Parameter list:

- jsonObj: json object with format: {"controlName":"value"}
- SyncFlag: “true” means synchronous call and “false” means an asynchronous call.

Return Value: None

Example: functions.setValues({"name":"employee","address":"newgen"},true);
If the control is a listbox then the value will be an array of strings. These strings are the values of corresponding options present in listbox: setValues({"listbox1": ["value1","value2","value3"]},true);
This will populate the list box with options having values: value1,value2 and value3.

Set visible or invisible particular column of a table

Hides or shows a particular column of a table. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.setColumnVisible(tableId,colIndex,visibleFlag,syncFlag);

Parameter list:

- **tableId**: ID of the table for which column needs to be hidden/visible.
- **ColIndex**: Integer index of a column in the table which needs to be hidden/visible.
- **VisibleFlag**: “true” means the column is visible and “false” means the column is hidden.
- **SyncFlag**: “true” means synchronous call and “false” means an asynchronous call.

Show alert dialog

Shows the user-defined alert dialog.

Signature: functions.showAlertDialog (“MSG” , booleanForCrossSign)

Parameter list:

- **MSG**: message that will be displayed on
- **booleanForCrossSign**: boolean to display cross sign if the user wants to close dialog before 3 secs (after 3 secs dialog will be closed automatically).

Return Value: None

Example: functions.showAlertDialog (message,true)

Show alert or confirmation dialog

Displays the user-defined alert or a confirmation dialog.

Signature: function.showSplitMessage(title, message, alertType, isClose, showIcon, buttons)

Parameter list:

- **title**: Title of the alert or confirmation dialog.
- **message**: Message for the alert or confirmation dialog.
- **alertType**: Type of the alert or confirmation dialog. For example, error, success, confirmation, or info.

- **isClose**: Use this parameter to show or hide the close icon on the alert or confirmation dialog. Assign a *true* value to enable the close icon.
- **showIcon**: Use this parameter to show or hide the alert icon on the alert or confirmation dialog. Assign a *true* value to enable the alert icon.
- **buttons**: Use this parameter to display buttons on the alert or confirmation dialog. In this parameter, you need to provide an array of button JSONs. For example:

```
[{"name":"Yes","active":true},{"name":"No","active":true},
{"name":"Cancel","active":false, "callback":function()}]
```

Here, the *name* represents the label of each button, while *active* indicates the primary button's status.

> Up to two buttons can be active at a time. Any additional buttons are added as extras. A callback function can also be provided with each JSON.

Return Value: None

Example:

```
functions.showSplitMessage("Confirmation Required","Are you sure you want to proceed
with this action?","confirm",true,true,[{"name":"Yes","active":true},
{"name":"No","active":true},{"name":"Cancel","active":false}])
```

Show custom alert on cross button

Signature: function.msgOnCloseOverLay(control)

Parameter list:

- **control**: ID of the grid

Return Value: Message

Example:

Define msgOnCloseOverLay in iformclient.js as follows:

```
function msgOnCloseOverLay(control) {
    return " Your message";
}
```

Show or hide particular cells of a table row

Shows or hides table cells on a conditional basis. This API is applicable for the following:

- table
- listview
- advancelistview

Signature: functions.displayTableCells(controlId,rowIndex,colIndices,displayFlag)

Parameter list:

- **controlId**: HTML ID of table control
- **rowIndex**: Integer row index for which cells are to be displayed/hidden
- **colIndices**: Array of integer indices of table cells in a row
- **displayFlag**: Set to true if cells are to be displayed else set it to false.

Return Value: None

Example:

```
functions.displayTableCells(controlId,rowIndex,colIndices,displayFlag) {
    if (ref.value == 'Answer3') {
        displayTableCells(controlId, rowIndex, [3], true);
        displayTableCells(controlId, rowIndex, [1, 2], false);
    }
    if (ref.value == 'Answer2') {
        displayTableCells(controlId, rowIndex, [2], true);
        displayTableCells(controlId, rowIndex, [1, 3], false);
    }
    if (ref.value == 'Answer1') {
        displayTableCells(controlId, rowIndex, [1], true);
        displayTableCells(controlId, rowIndex, [2, 3], false);
    }
}
```

Silent save in iform mobile

Signature: functions.saveForm(flag,silentSaveFlag)

Parameter list:

- **flag**: Needs to pass 'S' for save.
- **silentSaveFlag**: Needs to pass true for silent save

Return Value: None

Example: functions.saveForm('S',true)

Skip mandatory validation

Skips mandatory validation.

Signature: function skipValidation()

Return Value: true – to skip validation, otherwise false

Example:

```
function skipValidation() {
    return true;
}
```

User-defined customized alert or confirm dialog actions

Allows users to write custom code inside this function.

Signature: functions.showConfirmDialog(msg,btns,callback)

Parameter list:

- **msg**: Custom user message to be shown on confirm dialog.
- **btns**: An object for customizing confirm/cancel buttons.
- **Callback**: Function with a boolean parameter(confirm/cancel) executed on clicking confirm/cancel button in the dialog.

Return Value: Label of the clicked button.

Example:

btns object is defined as follows:

```
var btns = {
    confirm: {
        label: 'Yes',
        className: 'btn-success'
    },
    cancel: {
        label: 'No',
        className: 'btn-danger'
    }
}
callback
function is defined as follows:
    var callback = function(result) {
        if (result == Yes) {
            //Custom action when confirm button is clicked.
        } else if (result == No) {
            //Custom action when cancel button is clicked.
        }
    }
```

Then call the API: functions.showConfirmDialog("custom message",btns,callback);

User-defined table operations

Allows users to write custom code inside this function. This function is called for adding or removing a table row.

Signature: function tableOperation(tableId,operationType);

Parameter list:

- **tableId**: ID of the table on which the user wants to define his function.
- **operationType**: Signifies whether the function runs on click of add row, duplicate row, and delete row buttons. (AddRow/DeleteRow/CopyRow)

> The operation type value can be “CopyRow” only for listview control.

Return Value: "true" or "false" based on the validation required by the user.

Example:

Define the following function in iformclient.js:

```
function tableOperation(tableId, operationType) {
    if (operationType == "AddRow") {
        //Custom code to be executed on adding a new table row and return true/
false according to custom validation}
        if (operationType == "DeleteRow") {
            //Custom code to be executed on deleting a table row and return true/
false according to custom validation}
            if (operationType == "CopyRow") {
                //Custom code to be executed when a duplicate row button is
clicked in listview control and return true/false according to custom validation}
            }
```

Interface Designer custom coding Java APIs

This chapter discusses the Interface Designer server-side custom coding Java APIs that allow you to meet various business requirements.

To call Java APIs in your customclass.java or IFormListener.java/processname.java, you have to use objReference object provided in executeServerEvent(customclass.java) and in getClassInstance(IFormListener.java/processname.java) function.

Example:

```
objReference.getDataFromDB("select username from PDBUser where userindex=10");
```

The available Java APIs are discussed in the below sub-sections:

Get data from database

It gets data from the database and returns it as a two-dimensional array.

Signature: getDataFromDB(query)

Save data in database

It saves data in the database and returns the status if the query is successfully executed or not.

Signature: saveDataInDB(query)

Get activity ID

It returns the current workitem activity ID.

Signature: GetActivityId()

Get activity name

It returns the current workitem activity name.

Signature: GetActivityName()

Get cabinet name

It returns the cabinet name.

Signature: GetCabinetName()

Get process name

It returns the process name.

Signature: getProcessName()

Get server IP

It returns the server IP.

Signature: GetServerIp()

Get server port

It returns the server port.

Signature: GetServerPort()

Get username

It returns the logged-in username.

Signature: GetUserName()

Set value in primitive fields

This API sets values in primitive fields such as textboxes, text areas, combo boxes, checkboxes, and radio buttons.

Signature: setValue(String controlName,String Value)

Parameter list:

- **ControlName:** ID of the control.
- **Value:** string value of the control.

Example:

```
ifr.setValue("controlId", "14");
```

Set value in a Listbox

This API sets a value in a Listbox.

Signature: setValue(String controlName,JSONArray)

Parameter list:

- **controlName:** ID of the control
- **Value:** JSON array of values(string)

Example:

```
JSONArray obj=new JSONArray();

obj.add("aa");

obj.add(“bb”);

ifr.setValue(“listbox”,obj);
```

Set table cell value

This API sets the value in a grid cell.

Signature: setTableCellValue(String controlName, int rowIndex,int colIndex,String value)

Parameter list:

- **ControlName:** ID of the control.
- **RowIndex:** rowindex of the cell grid.
- **ColIndex:** colIndex of the cell grid.
- **Value**: string value of the cell.

Set value in controls

This API sets the value in controls that are not visible in the grid in the case of Advanced Listview.

Signature: setTableCellValue(String tableId,int rowIndex,String controlId,String value)

Parameter list:

- **tableId:** ID of the table or grid.
- **RowIndex:** rowindex of the cell grid.
- **controlId:** ControlId of control in overlay for which the value needs to be changed.

- **Value:** string value of the cell.

Example:

```
ifr.setTableCellValue("table1", 0, 1, "34");
```

Set value in Listbox controls

This API sets the value in Listbox controls which are visible in the grid in the case of Advanced Listview.

Signature: setTableCellValue(String tableId,int rowIndex,int colIndex,JSONArray jsonArray)

Parameter list:

- **tableId:** ID of the table/grid.
- **rowIndex:** Row index of the cell grid.
- **colIndex:** colIndex of the cell grid.
- **jsonArray:** JSON Array of string values.

Example:

```
JSONArray obj=new JSONArray();

obj.add("aa");

obj.add(“bb”);

ifr.setTableCellValue("table1", 0, 1, obj);
```

Set value in Listbox and table or grid controls

This API sets the value in Listbox and table or grid controls which are not visible in the grid in the case of Advanced Listview.

Signature: setTableCellValue(String tableId,int rowIndex,String controlId,JSONArray jsonArray)

Parameter list:

- **tableId:** ID of the table or grid.
- **RowIndex:** rowindex of the cell grid.
- **controlId:** ControlId of control in overlay for which the value needs to be changed.
- **jsonArray:** JSON array of values. In the case of a Listbox, it should be an array of strings. In the case of a Table or Grid, it will be an array of JSONObjects where each JSONObject corresponds to a new row. In JSONObject you have to put entries with the key as column name and value as the value of the grid cell.

Example:

- For ListBox

```
JSONArray obj=new JSONArray();

obj.add("aa");

obj.add(“bb”);

ifr.setTableCellValue(“table1”,1,"listbox", obj);
```

Where, ifr is of type IformReference.

- For Table or Grid

```
JSONArray jsonArray=new JSONArray();

JSONObject obj=new JSONObject();
```

```
obj.put("columnName", "1");

jsonArray.add(obj);

obj=new JSONObject();

obj.put("columnName", "2");

jsonArray.add(obj);

ifr.setTableCellValue(“table1”,1,"table4_table2", obj);
```

Add data to grid

This API adds rows in a grid.

Signature: addDataToGrid(String tableId,JSONArray jsonArray)

Parameter list:

- **tableId:** ID of the table/grid.
- **jsonArray:** JSON Array of values. In the case of Listbox, it should be an array of strings. In the case of Table/Grid, it will be an array of JSONObjects where each JSONObject corresponds to a new row. In JSONObject you have to put entries with key as column name and value as the value of grid cell. Here, the JSON Array will be formed as given in the previous API.

In the case of an Advanced Grid, while making rowObject instead of the column name, you have to provide the controlId of controls in the overlay.

Example:

Advanced Listview

```
JSONArray jsonArray=new JSONArray();

JSONObject obj=new JSONObject();

obj.put("controlId1", "1");

obj.put("controlId2", "2");
```

```
JSONArray chilGridArray=new JSONArray();

JSONObject childGridRowObject=new JSONObject();

childGridRowObject.put(“columnName”,”value”);

childGridArray.add(childGridRowObject); obj.put(“controlIdGrid”,chilGridArray);

jsonArray.add(obj); ifr.addDataToGrid(“table1”,jsonArray);
```

Clear table

This API clears rows in a grid.

Signature: clearTable(String tableId)

Parameter list:

tableId: ID of the table or grid

Example:

```
ifr.clearTable("table1");
```

Get WDGeneralData object

This API gets the WDGeneralData object.

Signature: WDGeneralData getObjGeneralData()

Return value: WDGeneralData object

Example:

```
WDGeneralData wdgeneralObj= ifr.getObjGeneralData();
```

You can get sessionId, taskid, userName, DBType, etc from wdgeneralObj in the following way:

```
String sessionId = wdgeneralObj.getM_strDMSSessionId();

String taskId = wdgeneralObj.getTaskId();

String userName = wdgeneralObj.getM_strUserName();

String dbType = wdgeneralObj.getM_strDBType();
```

Get data from stored procedure

In this above API call, pass the first parameter-stored procedure name as a string, and in the second parameter, pass an arrayList object containing the parameters for the stored procedure.

Signature: getDataFromStoredProcedure(String pProcName, List pParamList); formReference.getDataFromStoredProcedure("your store procedure name",listOfParameter);

Example:

If the procedure expects two parameters of type Integer, Text, the parameter list will contain the data type and value both. DataType and value will be colon (:) separated.

In this case, the paramlist would be as follows:

```
List<String> paramlist =new Arraylist<String>( );

paramlist . add ("Integer : 10");

paramlist . add ("Text : John");
```

- In the above example, we have seen the second parameter to API is an arrayList object. This arrayList object will have a list of parameters and each of those parameters will be a colon (:) separated from its Data Type as shown above while preparing an arrayList object.
- In case, the procedure expects no parameter, pParamList will be empty.
- The supported parameter dataTypes are (Integer,Text,Float).

Get value of primitive controls

This API gets the value of primitive controls like textbox, combobox, listbox, and others.

Signature: getValue(String controlId)

Parameter list:

controlId: ControlID of the control.

Return Value:

This function by default will return an object. For listbox, you have to cast the return value of this API to JSONArray.

Example:

```
(JSONArray)ifr.getValue("listbox")
```

The return value is a JSONArray of strings.

For all other controls, you must cast the return value to String.

Example:

```
(String)ifr.getValue("textbox"). The return value is a string.
```

Get value of listview and table

This API gets the value of listview and table.

Signature: getDataFromGrid(String tableId)

Example:

```
JSONArray output=ifr.getDataFromGrid ("table2");
```

Parameter list:

tableId: ControlId of the table.

Return value:

This function will return a JSONArray(array of JSONObject).

The format of JSONArray is the same as the input in addDataToGrid API. Each JSONObject inside an array corresponds to a new row.

For Table or Listview:

The format of JSONObject will be as given below:

```
{
    “column1”: ”value1”,
        ”column2”:”value2”,
        . .
}
```

For advanced Listview:

The format of JSONObject will be as given below:

```
{

    "controlId1":"value1",
    "ControlId2":"value2",
    "table1_table2":[ {
        "col1": "value",
            "col2":"value2"
    }

    ],
    "listbox1":["val1",
    "val2"]


}
```

If the control inside an advanced listview is Listview or Table, then the value will be a JSONArray with JSONArray format as for a normal table or listview.

If the control inside an advanced listview is a listbox, then the value will be a JSONArray with JSONArray containing strings.

Get cell value of a normal listview or table

This API gets the cell value of a normal listview or table.

Signature: getTableCellValue(String tableId, int rowIndex, int columnIndex)

Example:

```
String output= getTableCellValue("table1",0,1);
```

Parameter list:

- **tableId:** ControlId of the table.
- **rowIndex:** Row Index for the Cell.
- **colIndex:** Column Index for the Cell.

Return Value:

This API returns the string value of the cell.

Get value of controls in advanced Listview

This API gets the value of controls in advanced Listview for a given rowIndex.

Signature: getTableCellValue(String tableId, int rowIndex, String controlId)

Parameter list:

- **tableId:** controlId of the table.
- **rowIndex:** row Index for the cell.
- **controlId:** controlId of the control inside the advanced Listview Modal.

Return Value:

This API will return the string value of the cell. This function by default will return an object.

- For listbox, you have to cast the return value of this API to JSONArray.
  Example:

```
(JSONArray)ifr.getTableCellValue(“table1”,0,"listboxId")
```

- The return value is a JSONArray of strings.
- For primitive controls like textbox, combo, date etc, you have to cast the return value to String. Example: (String)ifr.getTableCellValue(“table1”,0,"textBoxId")
- For listview/table you have to cast the return value to JSONArray.
  Example:

```
(JSONArray)ifr.getTableCellValue(“table1”,0,"textBoxId")
```

The format of JSONArray is same as the input in addDataToGrid API. The each JSONObject inside array corresponds to a new row.

The format of JSONObject will be as given below:

```
{
    “column1”: ”value1”,
```

```
        ”column2”:”value2”,
}
```

Set style of controls

This API sets the style of controls.

Signature: setStyle(String controlId,String attributeName,String attributeValue)

Parameter list:

- **controlId:** HTML ID of the iForm control.
- **attributeName**: This can take the values: “disable”,”visible”,“mandatory” and “custompattern”.
- **attributeValue:** Set this to “true” or “false”. In the case of “custompattern” set this to 'pattern' where a pattern can be, for example “[0-9]”.

Return Value: None

Set style for a group of controls

This API sets the style for a group of controls defined from the group page in Interface Designer.

Signature: applyGroup(String groupName)

Parameter list:

groupName: group name for which style is to be set.

Return Value: None

Reset group

This API resets the values of the controls within the control set.

Signature: resetGroup(String groupName)

Parameter list:

groupName: group name for which style is to be reset.

Return Value: None

Add an item in combo control

Call the API in the following manner:

- **To add an option with label:** addItemInCombo(comboId,label)
- **To add an option with label and value:** addItemInCombo(comboId,label,value)
- **To add an option with label,tooltip and value:** addItemInCombo(comboId,label,value,tooltip)
- **To add an option with label,tooltip ,value and optioned:** addItemInCombo(comboId,label,value,tooltip,optionId)

Parameter list:

- **comboId:** controlId of combobox
- **label:** label of the option to be added
- **value:** the value of the option to be added
- **tooltip:** title of the option to be added
- **optionalId:** Id of the option to be added

Add an item in table combo control

Call the API in the following manner:

- **Add an option with label:** addItemInTableCellCombo(tableId, rowIndex, columnIndex, label)
- **Add an option with label and value:** addItemInTableCellCombo(tableId, rowIndex, columnIndex, label,value)
- **Add an option with label,tooltip and value:** addItemInTableCellCombo(tableId, rowIndex, columnIndex, label,value,tooltip)

- **Add an option with label,tooltip ,value and optionId:** addItemInTableCellCombo(tableId, rowIndex, columnIndex, label,value,tooltip,optionId)

Parameter list:

- **comboId:** controlId of combobox.
- **label:** label of the option to be added.
- **value:** the value of the option to be added.
- **tooltip:** title of the option to be added.
- **optionalId:** Id of the option to be added.

Remove items from combo control

This API removes items from combo control.

Signature: removeItemFromCombo(comboId,optionIndex)

Parameter list:

- **comboId:** ControlID of the combo control.
- **optionIndex:** index of the item to be removed.

Example:

```
removeItemFromCombo("combo1",2);
```

Clear items from combo control

This API clears items from combo control.

Signature: clearCombo(comboId

Parameter list:

comboId: ControlID of the combo control.

Example:

```
clearCombo("combo1");
```

Remove item from the table cell combo control

This API removes an item from the table cell combo control.

Signature: removeItemFromTableCellCombo(tableId, rowIndex, columnIndex, optionIndex)

Parameter list:

- **tableId:** contrOlId of table control.
- **rowIndex:** row index of the cell control.
- **columnIndex:** column index of the cell control.
- **optionIndex:** index of the item to be removed.

Example:

```
removeItemFromTableCellCombo("table1",1,2,2);
```

Clear table cell combo

Signature: clearTableCellCombo(tableId, rowIndex, columnIndex)

Parameter list:

- **tableId:** contrOlId of table Control
- **rowIndex:** row index of the cell control
- **columnIndex:** column index of the cell control

Example:

```
clearTableCellCombo("table1",1,2);
```

Set tab style

This API sets the style in a particular sheet of a tab control.

Signature: clearTableCellCombo(tableId, rowIndex, columnIndex)

Parameter list:

- **tabID:** contrOlId of tab control.
- **sheetIndex:** index of the tab sheet for which style is to be set.
- **attributeName:** this can take value (visible or disable).
- **attributeValue:** false or true.

Example:

```
setTabStyle(“tab1”,”1”,”visible”,”false”)

setTabStyle(“tab2”,”2”,”disable”,”true”)
```

Add zone

Signature: addZone(String zoneName,int top,int left,int width,int height,String controlId)

Parameter list:

- **zoneName:** Name of zone.
- **top:** the top position of the zone.
- **left:** the left position of the zone.
- **width:** the width of the zone.
- **height:** the height of the zone.
- **controlId:** Id of control on which the zone needs to be set.

Example:

```
addZone(“zone1”,25,25,20,20,”textbox1”)
```

Delete rows from grid

This API deletes rows from the grid.

Signature: deleteRowsFromGrid(String tableId,int[] rowIndices)

Parameter list:

- **tableId:** HTML id of the table.
- **rowIndices:** integer array of indexes of rows that needs to be deleted (index needs to be in increasing order).

Example:

```
int arr=new int[2]; arr[0]=0;arr[1]=2

deleteRowsFromGrid(“table2”,arr);
```

Set tab style by name

This API sets the style in a particular sheet of a tab control.

Signature: setTabStyleByName(String tabID,String sheetLabel,String attributeName, String attributeValue)

Parameter list:

- **tabID:** controlId of tab control.
- **sheetLabel:** label of the tab sheet for which style is to be set.
- **attributeName:** this can take value (visible or disable).
- **attributeValue:** false or true.

Example:

```
setTabStyleByName(“tab1”,”PersonalInfo”,”visible”,”false”)

setTabStyleByName(“tab2”,”EducationInfo”,”disable”,”true”)
```

Get data from stored procedure (pOutputParamList)

In the above API call, we will pass the first parameter stored procedure name as a string, and in the second parameter, we will pass an arrayList object containing the parameters for the stored procedure.

Signature: getDataFromStoredProcedure(String pProcName, List pParamList, List pOutputParamList);
formReference.getDataFromStoredProcedure("your store procedure name", listOfParameter, listOfOutputParameter);

Example:

If the procedure expects two parameters of type Integer, Text, the parameter list will contain the data type and value both. DataType and value will be colon (:) separated.

In this case, the paramlist would be as follows:

```
List<String>paramlist=new Arrayli st<String>();
paramlist . add ("Integer : 10");
paramlist . add ("Text : John");
```

- In the above example, we have seen the second parameter to API is an arrayList object. This arrayList object will have a list of parameters and each of those parameter s will be a colon (:) separated from its Data Type as shown above while preparing an arrayList object.
- In case, the procedure expects no parameter, pParamList will be empty.
- The supported parameter dataTypes are (Integer,Text,Float).
- listOfOutputParameter is the list of output parameters returned , for it, List object to be passed in getDataFromStoredProcedure as the third parameter, for example if the returned parameters are one integer and one text then,

```
List<String>listOfOutputParameter=new Arraylist <String>();
paramlist . add ("Integer : ");paramlist . add ("Text : ");
```

Get data from cache

This returns data as a two-dimensional array.
First, it gets the data from the cache which is present on the application server or web server, if the data is not found in the cache it gets the data from the database and stores it in the cache.

Signature: getDataFromCache(query)

Set column visible

This changes the column visibility of a table.

Signature: setColumnVisible(String tableId,String colIndex,boolean visibleFlag)

Parameter list:

- **tableId:** controlId of the table.
- **colIndex:** column Index of the table whose visibility you want to change.
- **visibleFlag:** this value is true or false on the basis of visibility.

Set column disable

This changes the column visibility of a table.

Signature: setColumnDisable(String tableId,String colIndex,boolean disableFlag)

Parameter list:

- **tableId:** controlId of the table.
- **colIndex:** column Index of the table whose visibility you want to change.

- **disableFlag:** this value is true or false on the basis of disability or ability of column.

Execute custom code

This method executes custom code and runs after onChange which gets called automatically. It runs on the onChange event of every control.

> By default it gets called. To stop it specify “N” in *iformsconf.ini* file against key as OnChangeEventHandlerServerSide = N.

Signature: onChangeEventServerSide(IFormReference ifr, String controlId)

Parameter list:

- **IFormReference:** object to call product APIs.
- **controlId:** Id of control on which onChange got called automatically

Example:

```
Public String onChangeEventServerSide(IFormReference ifr, String controlId)
{
// example custom code
Ifr.setStyle(“controlId”,”fontcolor”,”red”);
return “some string”;
}
```

Validate submitted form

Signature: validateSubmittedForm(objFormDef,objReference,even tType)

It is for server-side validation on Done or Introduce operation of workitem. You can return JSONArray from this API as follows:

- public JSONArray validateSubmittedForm(objFormDef, objReference,eventType)

```
{
JSONObject validatorJson = new JSONObject();
validatorJson.put("type", "fail");
jsonArray.add(validatorJson); return jsonArray;

}
```

- You must apply a check on eventType == " CompleteWI"
  for Complete workitem operation and eventType == "SaveWI" on Workitem save.
  If in the above jsonArray, the type will be passed as "fail", workitem will not be saved or completed.

Get data from the database with conditions

It gets data from the database when a query is passed with conditions. This returns data as a two-dimensional array.

Signature: getDataFromDBwithConditions(query, condition)

Parameter list:

- **Query(String):** SQL query to be executed with conditions Eg. SELECT username FROM pdbuser WHERE machineName=? AND userIndex=?
- **Conditions(String):** Condition in XML format that is to be passed in query in place of “?”
  - **Type:** text, integer, long, double, float, boolean, date, or datetime
  - **Value:** value to be passed

Sample conditions XML:

```
<Columns>
<Column>
<Type>Text</Type>
<Value>SampleText</Value>
</Column>
<Column>
<Type>Integer</Type>
<Value>007</Value>
iForm Java Custom Coding APIs Page 25
```

```
</Column>
</Columns>
```

Post hook on document upload

postHookOnDocumentUpload is a server-side API that gets executed after the successful upload of a document.

Signature: postHookOnDocumentUpload(IFormReference ifr, String string, String string1, File file, int I)

Parameter list:

- **objReference:** Iform reference object
- **controlId:** control Id of the doclistControl
- **docType:** document type of the uploaded document
- **file:** file object of uploaded document
- **docIndex:** document index of the uploaded document

Sample code:

```
public void postHookOnDocumentUpload(IFormReference ifr, String string, String
string1, File file, int i)
{
//Custom Code to be written
}
```

Introduce workItemIn specific process

In BPM Transition, the user can map a single application with multiple processes. When the user submits the application, workitem gets created in all the mapped processes. To restrict the creation of workitem in a particular process based on any condition, the user can utilize the introduceWorkitemInSpecificProcess API. For all mapped processes a call is triggered to this method with the mapped process name. Return true from the method to create a workitem otherwise return false.

Signature: introduceWorkItemInSpecificProcess(objReference,ProcessName)

Parameter list:

- **objReference:** Iform reference object
- **ProcessName:** mapped process name

Sample code:

```
public boolean introduceWorkItemInSpecificProcess(IFormReference ifr, String
string) {
if(string.equalsIgnoreCase("FrenchFragmentProcess"))
return false;
return true;
}
```

Post hook export to PDF

postHookExportToPDF is a server-side API that gets executed after the successful export of pdf with the command ExportToPDF.

Signature: postHookExportToPDF (IFormReference ifr, File file)

Parameter list:

- **objReference:** Iform reference object
- **file:** file object of downloaded PDF

Sample code:

```
public void postHookExportToPDF (IFormReference ifr, File file)
{
//Custom Code to be written
}
```

Post hook on document operations

postHookOnDocumentOperations is a server-side API that gets executed after the successful upload and deletion of a document.

Signature: postHookOnDocumentOperations(IFormReference objReference,String controlId,String docType,int docIndex,String operationType)

Parameter list:

- **objReference:** Iform reference object
- **controlId:** control Id of the doclistControl
- **docType:** document Type of the uploaded document
- **docIndex:** document index of the uploaded document
- **operationType:** “Added” in case of the uploaded document, ”Deleted” in case of the deleted document

Sample code:

```
public void postHookOnDocumentOperations(IFormReference objReference,String
controlId,String docType,int docImageIndex,String operationType)
{
//Custom Code to be written
}
```

Clear DocList control

This API clears all the attachments uploaded with DocList control or clears the waiverComments if added with DocList control.

Signature: clearDocList(doclistControlId)

Parameter list:

doclistControlId: ControlID of the DocList control

Sample code:

```
clearDocList(“DocList1”);
```

Reorder columns

This API reorders table columns at run time.

Signature: reOrderColumns (tableId)

Parameter list:

- **tableId:** ControlID of the table which column is to be re-ordered
- **ColNames:** ArrayList of columns in the desired order

Example:

Suppose for a table with id as “tableid”, we need the columns RollNumber and Name in order. ArrayList having these columns will be passed as a second parameter.

```
ArrayList<String> objCols = new ArrayList<String>();
objCols.add("RollNumber");
objCols.add("Name");
reOrderColumns(“tableid”, objCols);
```

Reusable business function

You can configure a business function as a REST API to serve a specific business purpose. This business function can be reused in multiple portals or forms to perform a similar operation.

You can configure business functions only for the Button control.

For example, a reusable credit bureau function can be employed across multiple portals to efficiently assess creditworthiness. For instance, it can facilitate loan approvals, credit card applications, and even rental property evaluations by providing a centralized, consistent credit history analysis, streamlining the decision-making process, and enhancing risk assessment accuracy. This versatility in serving various purposes not only saves development time but also ensures a standardized and reliable credit evaluation system.

This section includes:

- Configuring a reusable business function
- Associating or disassociating a business function
- Downloading a reusable business function
- Modifying and reusing business functions
- Duplicating a reusable business function

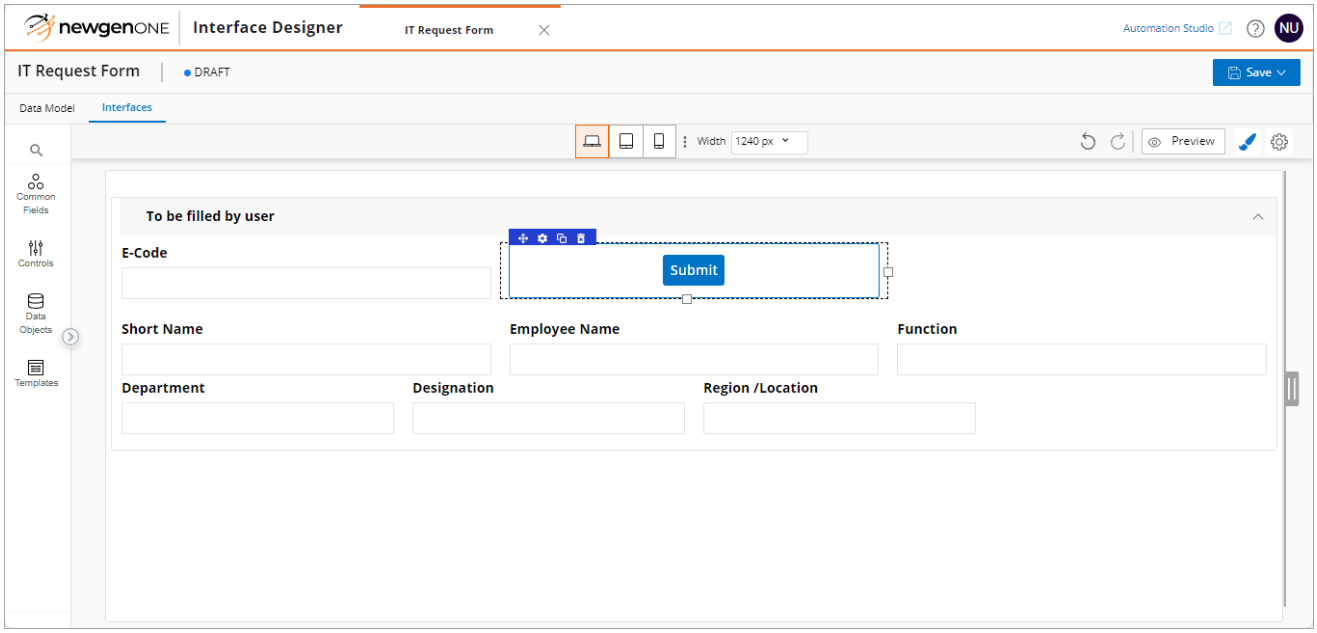
Configuring a reusable business function

NewgenONE Interface Designer allows you to configure a business function for serving a specific business purpose.

To configure a new business function for button control, follow the below steps:

1. Access the Interface Designer module and open a portal or form to configure a business function.

2. From the options in the left pane, select **Controls** and then drag and drop the **Button** control in the design canvas.
3. Click the button control and select the **Settings** icon or **Properties** icon from the upper-right corner of the page.



The button properties pane appears.

4. Expand **Business Function**.
5. Click the add icon . The Business Function dialog appears.
6. In the **Function Name** field, specify the business function name.
7. In the **REST Endpoint URL** field, specify the source code URL of the business function.
8. In the Define Parameters section, under the **Input Parameters** tab, select the required input parameters. These parameters are the portal data objects.
9. Click the **Output Parameters** tab and select the required output parameters. These parameters are the portal data objects.
10. Click any of the following buttons:

- **Save** — To save the configuration.
  After saving, the business function appears in the Add Business Function list, where you can edit or delete it before deploying.
  - To edit, hover over the saved business function and then click the **Edit Business Function** icon . The Business Function dialog appears. Make the required changes and then deploy it.

- To delete, hover over the saved business function and then click the **Delete Business Function** icon. The Delete Confirmation dialog appears. Click **Delete** to continue.

- **Deploy** — To deploy the configured business function.
  On deploying, the configured business function appears in the Available Business Function list.

Associating or disassociating a business function

You can associate a configured business function with a button control to enable its functionality.

To associate a business function, follow the below steps:

1. In the Business Function section of the button control, navigate to the Available Business Function list.
2. Hover over the required business function and click the **Link Business Function** icon. The Business Function dialog appears.

> Ensure the input and output parameters of a business function are available in the data objects of a form or portal. Otherwise, you can not reuse any business function and a failed data object mapping error appears.

3. Click **Link**. The business function is associated with the selected button control and the Linked Business Function icon appears.

To disassociate a business function, perform the below steps:

1. Hover over an associated business function and click the **De-Link Business Function** icon. The Business Function dialog appears.
2. Click **De-Link**. The business function gets disassociated.

Downloading a reusable business function

After configuring a business function, a project folder is created in your application server. The project folder contains default input, output, status, and other project files. You can download the project folder, make necessary changes based on your business requirements, and then deploy the project folder back to the application server for reuse.

To download a business function, follow the below steps:

1. In the Business Function section of a button control, navigate to the Available Business Function list.
2. Hover over the required business function and click the **Download Business Function** icon. The business function gets downloaded to your local system in the *.zip* format.

Modifying and reusing business functions

To make a configured business function reusable, you can modify the default files in the project folder according to your business requirements and deploy the business function on the application server.

To modify a business function for reuse, perform the below steps:

1. To access the project files, download the business function from the Interface Designer module.
2. In the project folder, go to the *<Project folder>\src\main\java\com\newgen\dao* and open the following files to modify according to your business requirement:
   - **Input.java** — This file contains the reference of the portal data objects for input parameters. For example, in the below code, *tableone* is the reference of the portal data objects.

```
package com.newgen.dao;
import com.newgen.dao.tableone;
import java.util.Date;
import java.util.List;
import com.fasterxml.jackson.annotation.JsonProperty;
public class Input {
    @JsonProperty("tableone")
    private tableone tableone;
    public tableone getTableone() {
        return tableone;
    }
    public void setTableone(tableone tableone) {
        this.tableone = tableone;
    }
}
```

- **Output.java** — This file contains the reference of the portal data objects for output parameters. For example, in the below code, *tableone* is the reference of the portal data objects.

```
package com.newgen.dao;
import com.newgen.dao.tableone;
import java.util.ArrayList;
import java.util.List;
import com.newgen.dao.Status;
import java.util.Date;
import java.util.List;
import com.fasterxml.jackson.annotation.JsonProperty;
public class Output {
    @JsonProperty("tableone")
    private tableone tableone;
    @JsonProperty("Status")
    private List < Status > status;
    public tableone getTableone() {
        return tableone;
    }
```

```
    public void setTableone(tableone tableone) {
        this.tableone = tableone;
    }
    public List < Status > getStatus() {
        return status;
    }
    public void setStatus(List < Status > status) {
        this.status = status;
    }
}
```

- **Status.java** — Using this file, you can set the error codes and messages for a REST call.

```
package com.newgen.dao;
import java.util.Date;
import java.util.List;
import com.fasterxml.jackson.annotation.JsonProperty;
public class Status {
    @JsonProperty("errorcode")
    private int errorcode;
    @JsonProperty("msg")
    private String msg;
    @JsonProperty("type")
    private String type;
    public int getErrorcode() {
        return errorcode;
    }
    public void setErrorcode(int errorcode) {
        this.errorcode = errorcode;
    }
    public String getMsg() {
        return msg;
    }
    public void setMsg(String msg) {
        this.msg = msg;
    }
    public String getType() {
        return type;
    }
    public void setType(String type) {
        this.type = type;
    }
}
```

- **tableone.java** — This file contains the input and output parameters. The references of the input and output parameters are mentioned in the *Input.java* and *Output.java* files.

```
package com.newgen.dao;
import java.util.Date;
import java.util.List;
import com.fasterxml.jackson.annotation.JsonProperty;
public class tableone {
    @JsonProperty("username")
    private String username;
    public String getUsername() {
        return username;
    }
    public void setUsername(String username) {
        this.username = username;
    }
}
```

3. Now, access the *CustomRestController.java* file to get and set input-output parameters according to your business requirements. This file is located at the below location:
   <Project folder>\src\main\java\com\newgen\controller

```
package com.newgen.controller;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RestController;
import com.newgen.dao.Input;
import com.newgen.dao.Status;
import java.util.List;
import com.newgen.dao.Output;
import java.io.Serializable;
import org.springframework.http.ResponseEntity;
import java.util.ArrayList;
import org.springframework.http.HttpStatus;
import javax.servlet.http.HttpServletRequest;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.context.MessageSource;
@RestController
public class CustomRestController implements Serializable {
    @Autowired
    private MessageSource msgSource;
    public CustomRestController(MessageSource msgSource) {
        this.msgSource = msgSource;
    }
    @CrossOrigin
```

```
    @PostMapping("/businessfunction2809URL")
    public ResponseEntity < ? > getCustomRestController(@RequestBody Input
payloadObj, HttpServletRequest request) {
        // write your code here
        String empty = null;
        List < Status > status = new ArrayList < Status > ();
        Output op = new Output();
        op.setStatus(status);
        return new ResponseEntity < > (op, HttpStatus.OK);
    }
}
```

4. After completing all the necessary modifications, deploy the project binaries generated within your Integrated Development Environment (IDE), on the application server. The business function is now available for reuse.

After deployment, the business function appears in the *Available Business Function* list within the Interface Designer module. You can then associate the business function with a button control in a portal or form to achieve your desired results.

Duplicating a reusable business function

In case you want to use an associated business function with a few modifications, you can duplicate that business function and modify it according to your requirements.

To duplicate a business function, perform the below steps:

1. In the Business Function section of a button control, navigate to the Available Business Function list.
2. Hover over the required business function and click the **Duplicate Business Function** icon. The business function gets duplicated and appears in the Add Business Function list.

Data Model Designer APIs

This chapter explains the development and integration of the Create Table and Update Table Data APIs of the NewgenONE Data Model Designer (DMD).

Creating new tables

The CF_AddTable API allows you to create new tables in the Data Model Designer module.

Use case:

Movement of data of the master data tables from a legacy database to NewgenONE automatically.

This API automatically creates tables using input parameters. Once the input script is ready, the API can automatically create tables in NewgenONE.

Input parameter

The following table describes the input parameters of the CF_AddTable API:

Parameter	Parent tag	Mandatory	Description	Valid values
Option	CF_AddTable_Input	Y	Name of the API.	NA
SessionID	CF_AddTable_Input	Y	Session ID of the user.	NA
Cabinet Name	CF_AddTable_Input	Y	Name of the cabinet.	NA

Table Scope	CF_Add Table_Input	Y	It is used to specify if the table is a portal table or not. Use the value 1 if it is not a portal table. Use the value 2 if it is a portal table.	1 or 2
Table Name	CF_Add Table_Input	Y	The name of the table that needs to be created.	NA
TableAlias Name	CF_Add Table_Input	N	Give an alias name for the table.	NA
Approval Status	CF_Add Table_Input	Y	It defines the state of the transaction and the kind of update that needs to be performed. It can be of the following types: • APPROVALSTATUS_CREATETABLE = 1 • APPROVALSTATUS_APPROVETABLE = 2 • APPROVALSTATUS_UNDOCHANGES = 3 • APPROVALSTATUS_MODIFYTABLE = 4 • APPROVALSTATUS_DELETETABLE = 5 • APPROVALSTATUS_REJECTTABLE = 6 • APPROVALSTATUS_MODIFY_NEW _TABLE = 7 • APPROVALSTATUS_SENDFORAPPROVAL_ MODIFY_NEW_TABLE = 8 • APPROVALSTATUS_REJECTTABLE _CHECKER = 9 • APPROVALSTATUS_SENDFORAPPROVAL _CREATE = 61 • APPROVALSTATUS_SENDFORAPPROVAL _MODIFY = 62 • APPROVALSTATUS_SENDFORAPPROVAL _DELETE = 63 • APPROVALSTATUS_SENDFORAPPROVAL _DATACHANGE = 64 • APPROVALSTATUS_ RESENDFORAPPROVAL_ONLY=66	1 2 3 4 5 6 7 8 9 61 63 64 66
IsImport	CF_Add Table_Input	N	It denotes if the table must be imported using the XML or not.	Y or N
Description	CF_Add Table_Input	N		NA

IsView Attached	CF_Add Table_Input	Y	It denotes if the view is attached to the table or not.	Y or N
ViewName	CF_Add Table_Input	N	The name of the view attached to the table.	NA
ViewMap Data	CF_Add Table_Input	N	It contains data of columns mapped with the view.	NA
CFRights	CF_Add Table_Input	N	It is the parent tag.	NA
AttachRight	CFRights	Y	It denotes if the user has rights to attach a view or not.	Y or N
AccessType	CFRights	Y	The access can be of the following types: • Inherited = I • Shared = S • Private = P	I, S, P
UserGroup ACLs	CFRights	N	The group of users who have rights.	NA
Columns	CF_Add Table_Input	N	It is the parent tag.	NA
Column	Columns	N	It is the parent tag.	NA
Name	Column	Y	The name of the column.	NA
Type	Column	Y	The data type of the column. It can be of the following types: • TEXT = 1 • INT = 2 • LONG = 3 • FLOAT = 4 • DATE = 5 • NTEXT = 10 • DBTEXT = 11 • NVARCHARMAX = 12 • SHORTDATE = 9	1 2 3 4 5 10 11 12 9
DefaultValue	Column	N	The default value of the column.	NA
Length	Column	Y	The maximum length of data in a column.	NA
Alias	Column	N	Alias name of the column.	NA

ColumnID	Column	Y	The ID of the column.	NA
Status	Column	Y	Present status of the column. It is 1 if the maker checker is not applied.	1
IsMandatory	Column	Y	It denotes if the column is mandatory or not.	Y or N
IsUnique	Column	Y	It denotes if the column is unique or not.	Y or N
Filter	Column	Y	It denotes if the column has a filter applied or not.	Y or N
IsIdentity	Column	Y	It denotes if it is an identity column or not.	Y or N
IsNon Modifiable	Column	Y	It denotes of the column is editable or not.	Y or N
IsHidden	Column	Y	It denotes if the column is hidden or not.	Y or N
IsReadOnly	Column	Y	It denotes if the column is in the read-only state or not.	Y or N
ExtraCol Details	Column	N	It contains data of extra columns in XML format.	NA
IsTrimData	ExtraCol Details	N	It denotes if the column has trim functionality enabled or not.	Y or N
SeqName	Column	N	The name of the sequence generated in the case of identity columns.	NA
Hook Required	Column	N	It denotes if the hook is required or not.	Y or N
CustomPick ListData	Column	N	It contains custom picklist data in an XML format.	NA
Indices	CF_Add Table_Input	N	List of indices in the table.	NA
Index	Indices	N	It is the parent tag.	NA
IndexId	Index	Y	The ID of the index.	NA
Name	Index	Y	The name of the index.	NA
Type	Index	Y	The type of the index column. It can be of the following types: • Primary key = 1 • Foreign key = 3	1 or 3

RefTable Name	Index	N	The name of the reference tables, if any.	NA
RefColoumn Name	Index	N	The name of the column acting as the foreign key.	NA
Components	Index	Y	The name of the column.	NA
IndexStatus	Index	Y	It is the existing status of the index. It can be of the following types: • STATUS_CREATED = 1 • STATUS_MODIFIED = 2 • STATUS_DELETED = 3 • STATUS_NEW_CURRENT = 5	1 2 3 5
OldStatus	Index	Y	It is the old status of the index. It can be of the following types: • STATUS_CREATED = 1 • STATUS_MODIFIED = 2 • STATUS_DELETED = 3 • STATUS_NEW_CURRENT = 5	1 2 3 5

Sample input

For reference, a sample input of the CF_AddTable API is given below:

```
<CF_AddTable_Input>
    <Option>CF_AddTable</Option>
    <SessionID>1804243727</SessionID>
    <UserIndex>3</UserIndex>
    <CabinetName>ibps5sp2final</CabinetName>
    <ApprovalStatus>1</ApprovalStatus>
    <TableName>A_Test</TableName>
    <TableScope>1</TableScope>
    <TableAliasName>A_Test</TableAliasName>
    <IsImport>N</IsImport>
    <Description></Description>
    <IsViewAttached>0</IsViewAttached>
    <ViewName></ViewName>
    <ViewMapData></ViewMapData>
    <CFRights>
        <AttachRight>N</AttachRight>
        <AccessType>I</AccessType>
        <UserGroupACLs />
```

```
    </CFRights>
    <Columns>
        <Column>
            <Name>ID</Name>
            <Type>2</Type>
            <DefaultValue></DefaultValue>
            <Length>0</Length>
            <Alias></Alias>
            <ColumnID>0</ColumnID>
            <Status>4</Status>
            <IsMandatory>Y</IsMandatory>
            <IsUnique>N</IsUnique>
            <Filter>N</Filter>
            <IsIdentity>N</IsIdentity>
            <IsNonModifiable>N</IsNonModifiable>
            <IsHidden>N</IsHidden>
            <IsReadOnly>N</IsReadOnly>
            <ExtraColDetails>
                <IsTrimData>N</IsTrimData>
            </ExtraColDetails>
            <SeqName></SeqName>
            <HookRequired>N</HookRequired>
            <CustomPickListData>&lt;PickListDefinition&gt;&lt;CPLFlag&gt;N&lt;/
CPLFlag&gt;&lt;MultipleSelection&gt;N&lt;/
MultipleSelection&gt;&lt;SeperatorSelection&gt;N&lt;/
SeperatorSelection&gt;&lt;MultipleValues&gt;N&lt;/
MultipleValues&gt;&lt;Seperator&gt;,&lt;/
Seperator&gt;&lt;DisableManualInput&gt;N&lt;/
DisableManualInput&gt;&lt;QueryString&gt;&lt;/
QueryString&gt;&lt;CPLDefinition&gt;&lt;/CPLDefinition&gt;&lt;/
PickListDefinition&gt;</CustomPickListData>
        </Column>
        <Column>
            <Name>Name</Name>
            <Type>1</Type>
            <DefaultValue></DefaultValue>
            <Length>255</Length>
            <Alias></Alias>
            <ColumnID>0</ColumnID>
            <Status>4</Status>
            <IsMandatory>N</IsMandatory>
            <IsUnique>N</IsUnique>
            <Filter>N</Filter>
            <IsIdentity>N</IsIdentity>
            <IsNonModifiable>N</IsNonModifiable>
            <IsHidden>N</IsHidden>
            <IsReadOnly>N</IsReadOnly>
            <ExtraColDetails>
                <IsTrimData>N</IsTrimData>
            </ExtraColDetails>
            <SeqName></SeqName>
            <HookRequired>N</HookRequired>
            <CustomPickListData>&lt;PickListDefinition&gt;&lt;CPLFlag&gt;N&lt;/
CPLFlag&gt;&lt;MultipleSelection&gt;N&lt;/
MultipleSelection&gt;&lt;SeperatorSelection&gt;N&lt;/
SeperatorSelection&gt;&lt;MultipleValues&gt;N&lt;/
MultipleValues&gt;&lt;Seperator&gt;,&lt;/
```

```
Seperator&gt;&lt;DisableManualInput&gt;N&lt;/
DisableManualInput&gt;&lt;QueryString&gt;&lt;/
QueryString&gt;&lt;CPLDefinition&gt;&lt;/CPLDefinition&gt;&lt;/
PickListDefinition&gt;</CustomPickListData>
        </Column>
    </Columns>
    <Indices>
        <Index>
            <IndexId>0</IndexId>
            <Name>PK_18FDMDA4CYT3BFI_1</Name>
            <Type>1</Type>
            <RefTableName></RefTableName>
            <RefColoumnName></RefColoumnName>
            <Components>ID</Components>
            <IndexStatus>4</IndexStatus>
            <OldStatus>-1</OldStatus>
        </Index>
    </Indices>
</CF_AddTable_Input>
```

Output parameter

The following table describes the output parameters of the CF_AddTable API:

Parameter	Parent tag	Description
SessionID	CF_AddTable_Output	Session ID of the user.
MainCode	CF_AddTable_Output	Main code of response coming from the EJB.
CabinetName	CF_AddTable_Output	The name of the cabinet.
TableName	CF_AddTable_Output	The name of the table.
TableID	CF_AddTable_Output	ID of the table.

Sample output

For reference, a sample output of the CF_AddTable API is given below:

```
<CF_AddTable_Output>
    <SessionID>1804243727</SessionID>
    <MainCode>0</MainCode>
    <CabinetName>ibps5sp2final</CabinetName>
    <TableName>A_Test</TableName>
    <TableID>1190</TableID>
</CF_AddTable_Output>
```

Errors and warnings

This section describes the common exceptions that might be thrown while using the API.

Code	Sub-code	Constant value	Message
Code	Sub-code	Constant value	Message
7006	-7000	CF_INVALID_USERDBID	Invalid operation performed.
7020	7007	CF_INVALID_COLUMN	Invalid column.
7020	7030	CF_TABLE_ALREADY_EXISTS	A table with the same name already exists in MDM.
7020	801	CF_SQL	CF_SQL

Updating tables

The CF_UpdateTableData API is used to add, modify, and delete records from a table. The kind of transaction being done is determined by the Status tag in the XML.

Use case:

Insertion, updation, or deletion of additional data to the master data tables on NewgenONE Data Model Designer automatically at a defined frequency.

Input parameter

The following table describes the input parameters of the CF_UpdateTableData API:

Parameter	Parent tag	Mandatory	Description	Valid values
Option	CF_UpdateTableData_Input	Y	Name of the API.	NA
SessionID	CF_UpdateTableData_Input	Y	Session ID of the user.	NA
Cabinet Name	CF_UpdateTableData_Input	Y	Name of the cabinet.	NA
TableID	CF_UpdateTableData_Input	Y	ID of the table.	NA
Table Name	CF_UpdateTableData_Input	Y	The name of the table on which the operation is to be performed.	NA
Comments	CF_UpdateTableData_Input	N	Relevant comments for the action.	NA

Approval Status	CF_UpdateTable Data_Input	Y	It defines the state of the transaction and the kind of update that needs to be performed. It can be of the following types: • APPROVALSTATUS_CREATETABLE = 1 • APPROVALSTATUS_APPROVETABLE = 2 • APPROVALSTATUS_UNDOCHANGES = 3 • APPROVALSTATUS_MODIFYTABLE = 4 • APPROVALSTATUS_DELETETABLE = 5 • APPROVALSTATUS_REJECTTABLE = 6 • APPROVALSTATUS_MODIFY_NEW _TABLE = 7 • APPROVALSTATUS_SENDFORAPPROVAL _MODIFY_NEW_TABLE = 8 • APPROVALSTATUS_REJECTTABLE _CHECKER = 9 • APPROVALSTATUS_SENDFORAPPROVAL _CREATE = 61 • APPROVALSTATUS_SENDFORAPPROVAL _MODIFY = 62 • APPROVALSTATUS_SENDFORAPPROVAL _DELETE = 63 • APPROVALSTATUS_SENDFORAPPROVAL _DATACHANGE = 64 • APPROVALSTATUS_RESENDFORAPPROVAL _ONLY=66	1, 2, 3, 4, 5, 6, 7, 8, 9, 61, 62, 63, 64, 66
Record	CF_UpdateTable Data_Input	N	The number of records to update. Multiple tags can be present within the Record tag.	NA
Status	Record	Y	Use the following status codes as per the requirement: • To modify data, use status as 2. • To delete data, use status as 3. • To delete all data, use status as 9. • To add new data, use status as 4.	2 3 9 4
OldStatus	Record	N	The OldStatus is 1 for the existing record. It is -1 for the newly added record.	1 or -1
RowID	Record	N	Row ID of the column.	NA
Temp RowId	Record	N	Row ID if the maker checker is enabled.	NA

Column	Record	N	It is the parent tag.	NA
Name	Column	N	The name of the column.	NA
Type	Column	N	The data type of the column. It can be of the following types: • TEXT = 1 • INT = 2 • LONG = 3 • FLOAT = 4 • DATE = 5 • NTEXT = 10 • DBTEXT = 11 • NVARCHARMAX = 12 • SHORTDATE = 9	1 2 3 4 5 10 11 12 9
Value	Column	N	New value for the fields.	NA
Original Value	Column	N	Old value for the fields.	NA

Sample input

For reference, a sample input of the CF_UpdateTableData API is given below:

```
<CF_UpdateTableData_Input>
    <Option>CF_UpdateTableData</Option>
    <SessionID>1724439940</SessionID>
    <CabinetName>ibps5sp2ut</CabinetName>
    <TableID>6054</TableID>
    <TableName>aatest</TableName>
    <Comments />
    <ApprovalStatus>7</ApprovalStatus>
    <Record>
        <Status>2</Status>
        <OldStatus>1</OldStatus>
        <RowID>0</RowID>
        <TempRowId>1</TempRowId>
        <Column>
            <Name>col_id</Name>
            <Type>2</Type>
            <Value>1</Value>
            <OriginalValue>1</OriginalValue>
        </Column>
        <Column>
            <Name>col_name</Name>
            <Type>1</Type>
```

```
            <Value>Suyash</Value>
            <OriginalValue>ankit</OriginalValue>
        </Column>
        <Column>
            <Name>col_date</Name>
            <Type>5</Type>
            <Value>2022-05-05 14:54:44</Value>
            <OriginalValue>2022-05-05 14:54:44</OriginalValue>
        </Column>
    </Record>
    <Record>
        <Status>3</Status>
        <OldStatus>1</OldStatus>
        <RowID>0</RowID>
        <TempRowId>2</TempRowId>
        <Column>
            <Name>col_id</Name>
            <Type>2</Type>
            <Value>2</Value>
            <OriginalValue>2</OriginalValue>
        </Column>
        <Column>
            <Name>col_name</Name>
            <Type>1</Type>
            <Value>test</Value>
            <OriginalValue>test</OriginalValue>
        </Column>
        <Column>
            <Name>col_date</Name>
            <Type>5</Type>
            <Value>2022-05-05 14:56:11</Value>
            <OriginalValue>2022-05-05 14:56:11</OriginalValue>
        </Column>
    </Record>
    <Record>
        <Status>4</Status>
        <OldStatus>-1</OldStatus>
        <RowID>-1</RowID>
        <Column>
            <Name>col_id</Name>
            <Type>2</Type>
            <Value>3</Value>
            <OriginalValue />
        </Column>
        <Column>
            <Name>col_name</Name>
            <Type>1</Type>
            <Value>vijay</Value>
            <OriginalValue />
        </Column>
        <Column>
            <Name>col_date</Name>
            <Type>5</Type>
            <Value>2022-05-05 15:03:40</Value>
            <OriginalValue />
        </Column>
```

```
    </Record>
</CF_UpdateTableData_Input>
```

Output parameter

The following table describes the output parameters of the CF_UpdateTableData API:

Parameter	Parent tag	Description
SessionID	CF_UpdateTableData_Output	Session ID of the user.
MainCode	CF_UpdateTableData_Output	Main code of the response coming from the Enterprise Java Beans (EJB).
CabinetName	CF_UpdateTableData_Output	The name of the cabinet.
TableName	CF_UpdateTableData_Output	The name of the table.
TableID	CF_UpdateTableData_Output	ID of the table.

Sample output

For reference, a sample output of the CF_UpdateTableData API is given below:

```
<CF_UpdateTableData_Output>
    <SessionID>1724439940</SessionID>
    <MainCode>0</MainCode>
    <CabinetName>ibps5sp2ut</CabinetName>
    <TableName>aatest</TableName>
    <TableID>6054</TableID>
</CF_UpdateTableData_Output>
```

Errors and warnings

This section describes the common exceptions that might appear while using the API.

- **SQL exception:** General SQL exceptions that are encountered while doing an operation on the database.
  Example: Invalid object name, Unique constraints violation, and other exceptions.
- **CF exception:** The following table describes errors thrown by CF_UpdateTableData API:

Code	Sub-code	Constant value	Message
7006	-7001	CF_INVALID_OPERATION	Invalid operation performed.
7020	7007	CF_INVALID_COLUMN	Invalid column.
7020	7013	CF_FIELD_NOT_UPDATED	Unable to update the column.
7020	7014	CF_FIELD_NOT_DELETED	Unable to delete the column.
7020	7016	CF_TABLE_NOT_MODIFIED	Unable to modify the table.
7020	801, 802, 803, 805, 806, 807, 808	CF_OPERATION_FAILED	The requested operation has failed.
7037	804	PRIMARY_KEY_VIOLATION	A duplicate value cannot be added to the column.

Calling system functions

NewgenONE provides various system functions which are already registered in catalog definition. These functions can be used on the entry setting of workstep. Some system functions are described below.

InvokeDBFuncExecuteString

InvokeDBFuncExecuteString is a system function. It is used to call the Database procedure from the entry setting on the same connection which is used by the system to route the worktiem. Its return type is String.

It accepts four parameters in the input request.

- **StoredProcedureName:** In this parameter, the user needs to pass the procedure name which needs to be called on the entry setting rule. It is of String Type.
- **Param1:** It is of String Type. In this parameter, the user can map any variable of string type whose value needs to be passed in the procedure.
- **Param2:** It type is Integer Type. In this parameter, the user can map any variable of an integer type whose value needs to be passed in the procedure.
- **Param3:** It is of DateTime Type. In this parameter, the user can map any variable of date type whose value needs to be passed in the procedure. Supported Date Time Format in param3 is the following:
    - yyyy-MM-dd hh:mm:ss.S
    - yyyy-MM-dd HH:mm:ss
    - yyyy-MM-dd

Return Value: It is of String Type.

To configure this system function on the entry setting perform the following steps:

1. Right Click on **Workdesk Activity**.
2. Click on properties or double-click on **workdesk**.
3. Click the **Entry Setting** tab.
4. Click **Add.**

5. Select Type **Set And Execute**.
6. In Operand, select a variable in which the return value needs to be saved. It is of String Type Variable.
7. Select System in Application Name.
8. In Function Name, select InvokeDBFuncExecuteString.
9. Click the **Map** button.
10. Check the all variable.
11. Map all four parameters in forward mapping.
    a. **Stored Procedure Name:** Map these parameters with a variable that contains the procedure Name or enter the store procedure Name by selecting the Constant from the adjacent dropdown list.
    b. **Param1:** Map these parameters with any process variable which is of string type or any constant value.
    c. **Param2:** Map these parameters with a process variable that is of integer type or enter a constant integer value.
    d. **Param3:** Map these parameters with a process variable that is of date type or enter constant date value (Supported Date Format: yyyy-MM-dd hh:mm:ss.S, yyyy-MM-dd HH:mm:ss, yyyy-MM-dd).
12. Click the **Add** button.
13. Click the **Ok** button.
14. Click the **Save Changes** button.
15. Save the Process.

Sample Procedure that is supported by this System Function.

MSSQL:

```
CREATE Procedure TestProcedure1(@processInstanceId NVARCHAR(40),
@workItemId INT,
@processDefId INT,
@activityId INT,
@param1 NVARCHAR(100),
@param2 INT,
@param3 DATETIME,
@Output NVARCHAR(100) OUT) AS
BEGIN
/*Logic Here */
SElECT @Output='Working Fine' /* Any output Data as per requirement*/
END;
```

Oracle:

```
Create OR REPLACE Procedure TestProcedure1(processInstanceId NVARCHAR2,
workItemId INT,
processDefId INT,
activityId INT,
param1 NVARCHAR2,
param2 INT,
param3 DATE,
Output1 OUT NVARCHAR2 ) AS
BEGIN
/* Logic Here */
Output1:='Working Fine'; /* Any output Data as per requirement*/
END;
```

Postgres:

```
Create OR REPLACE FUNCTION TestProcedure1(processInstanceId VARCHAR,
workItemId INTEGER,
processDefId INTEGER,
activityId INTEGER,
param1 VARCHAR,
param2 INTEGER,
param3 TIMESTAMP,
OUT Output1 text ) AS $$
BEGIN
/* Logic Here */
Output1:='Working Fine'; /* Any output Data as per requirement*/
END;$$
LANGUAGE plpgsql;
```

InvokeDBFuncExecuteInt

InvokeDBFuncExecuteInt is a system function. It is used to call database procedure from the entry setting on the same connection which is used by the system to route the worktiem.

It accepts four parameters in the input request.

- **StoredProcedureName:** In this parameter, need to pass the procedure name which needs to be called on the entry setting rule. It is of String Type.
- **Param1:** It Type is String Type. In this parameter, the user can map any variable of string type which value needs to be pass in the procedure.
- **Param2:** It type is Integer Type. In this parameter, the user can map any variable of Integer type which value needs to be passed in the procedure.
- **Param3:** It type is DateTime Type. In this parameter, the user can map any variable of date type which value needs to be passed in the procedure.
  Supported Date Time Format in param3 is following:

- yyyy-MM-dd hh:mm:ss.S
- yyyy-MM-dd HH:mm:ss
- yyyy-MM-dd

Return Value: It is of Integer Type.

To configure this system function on the entry setting perform the following steps:

1. Right click on Workdesk activity and click on properties or double-click workdesk.
2. Click the **Entry Setting** tab.
3. Click on **Add** button
4. Select Type Set And Execute.
5. In Operand, select a variable in which return value needs to be saved. It is of Integer Type Variable.
6. Select System in Application Name.
7. In Function Name, select InvokeDBFuncExecuteInt.
8. Click on the **Map** button.
9. Check all variable.
10. Map all four parameters in forward mapping.
    a. **Stored Procedure Name**: Map these parameters with a variable that contains procedure Name or enter the store procedure Name by selecting the Constant.
    b. **Param1**: Map these parameters with any process variable which is of string type or any constant value.
    c. **Param2**: Map these parameters with a process variable that is of integer type or enter a constant integer value.
    d. **Param3**: Map these parameters with a process variable which is of date type or enter constant date value (Supported Date Format: yyyy-MM-dd hh:mm:ss.S , yyyy-MM-dd HH:mm:ss , yyyy-MM-dd).
11. Click the **Add** button.
12. Click the **Ok** button.
13. Click the **Save Changes** button.
14. Save the Process.

Sample Procedure which is supported by this System Function.

MSSQL:

```
MSSQL
CREATE Procedure TestProcedure1(@processInstanceId NVARCHAR(40),
```

```
@workItemId INT,
@processDefId INT,
@activityId INT,
@param1 NVARCHAR(100),
@param2 INT,
@param3 DATETIME,
@Output INT OUT) AS
BEGIN
/*Logic Here */
SElECT @Output=10 /* Any output Data as per requirement*/
END;
```

Oracle:

```
Oracle
Create OR REPLACE Procedure TestProcedure1(processInstanceId NVARCHAR2,
workItemId INT,
processDefId INT,
activityId INT,
param1 NVARCHAR2,
param2 INT,
param3 DATE,
Output1 OUT INT ) AS
BEGIN
/* Logic Here */
Output1:=10; /* Any output Data as per requirement*/
END;
```

Postgres:

```
Postgres
Create OR REPLACE FUNCTION TestProcedure1(processInstanceId VARCHAR,
workItemId INTEGER,
processDefId INTEGER,
activityId INTEGER,
param1 VARCHAR,
param2 INTEGER,
param3 TIMESTAMP,
OUT Output1 INT ) AS $$
BEGIN
/* Logic Here */
Output1:=10; /* Any output Data as per requirement*/
END;$$
LANGUAGE plpgsql;
```

Rights migration APIs

This chapter describes the APIs for rights migration in NewgenONE.

Get API WFGetProcessGroupQueueProfileData for populating the XLS sheet

WFGetProcessGroupQueueProfileData can do the following things:

- XLS sheet (ProcessName-QueueUserGroup-data-ddmmyyyy-hhmmss.xls) is already present in the wfsconfig folder. Then, copy the xls sheet (we name xls ProcessName-QueueUserGroup-data-20101999-120623.xls). We are not replacing the process name because API can take input as multiple process names.
- Firstly, this API checking the given ProcessName is valid or not (which means this process is present in UAT Environment or not).
- If the ProcessName is not valid then put this ProcessName in failed List.
- Then its fetch all the QueueList of all valid process (process name already provided by the user in the input of this API). It fetched QueueList of this process whose name came in the input of this API.
- Then it fetched how many groups are associated on that queue and their group name also and we write these data in “UserQueueMapping” sheet and also we write this groupName and their properties in Group Sheet.

INPUT

- Option and SessionID is a mandatory tags for this.
- Users can pass multiple processName for which queue group association, group, and profile need to migrate to the production Environment (Destination) from UAT Environment (Source).
- Environment (Source).
- This API runs only on UAT Environment (Source).

Service URL: *https://<IP>:<Port>/WFRestFulWebServices/ngone/Restful/WFGetProcessGroupQueueProfileData/*

Method type: Get

Request content-type: Application/xml or application/json

Response content-type: Application/xml or application/json

Sample request:

```
< WFGetProcessGroupQueueProfileData_Input>
<Option> WFGetProcessGroupQueueProfileData</Option> --mandatory
<SessionId>21334</SessionId> --mandatory
<EngineName>ibps16jan</EngineName> --mandatory
<ProcessDefIDList>
    <ProcessdefID>1</ProcessdefID>
    <ProcessdefID>2</ProcessdefID>
</ProcessDefIDList>
<ProcessNameList>  -- --ProcessNameList or ProcessDEfIDLIst only one tag required
if processdefidlist contatin tag processdefid tag more than 0 then
processdefidlist prefered first else processnamelist
    <ProcessName>process1</ProcessName>
    <ProcessName>process2</ProcessName>
</ProcessNameList>undefined</ WFGetProcessGroupQueueProfileData_Input>
```

Sample XML Input:

```
<WFGetProcessGroupQueueProfileData_Input>
    <Option> WFGetProcessGroupQueueProfileData</Option>
    <SessionId>21334</SessionId>
    <EngineName>ibps16jan</EngineName>
    <ProcessNameList>
        <ProcessName>process1</ProcessName>
        <ProcessName>process2</ProcessName>
    </ProcessNameList>
</WFGetProcessGroupQueueProfileData_Input>
```

Sample JSON Input:

```
{
  "WFGetProcessGroupQueueProfileData_Input": {
    "Option": "WFGetProcessGroupQueueProfileData",
    "SessionId": "21334",
    "EngineName": "ibps16jan",
    "ProcessNameList": {
      "ProcessName": [
        "process1",
        "process2"
        ]
    }
  }
}
```

For Example:

If a user gives the "procesname" as "Process1" that contains two queues Process1_StartEvent and Process1_Swimlane. Further, if Process1_StartEvent queue is associated with one group named group1 and on Process1_Swimlane queue is associated with two groups named group1 and group2.

Then the xls sheet of UserQueueMapping contains the following data:

QueueName	UserName	GroupName	ActionComments	Filter
Process1_StartEvent		group1	comments	Var_INT1=10
Process1_Swimlane		group1	comments1	
Process1_Swimlane		group2	comments3	VAR_STR1='iBPS'

group1 and group2 were also added to the group sheet.

Also, fetch group properties and object rights.

1. We write the group properties data in the xls group sheet.
2. Group Object Rights for this group, we write in XML buffer.

For example, say group1 has parentGroup UserDesktop and owner badmin then in Group sheet data like this:

GroupName Comment ParentGroupName UserName(OwnerName)

Group1 This is group1 UserDesktop badmin

and their object Rights data in XML buffer.

After that, fetch the profile name which is associated with the process and queue.

We fetch the profile property

And Profile Property data and object rights are written in an XML buffer.

In UserGroupMapping sheet, we are populating all the group which is present in the Group sheet.

The group sheet contains 4 types of group:

User manually adds the group in this sheet

Any group associated with the queue

Any group associated with the profile.

Any group associated with the process.

We also write XLSBufferData and their checksum in xls buffer sheet. The user does not need to modify these data.

For invoking these API, use the following url:

https://<IP>:<Port>/WFRestFulWebServices/ngone/Restful/WFGetProcessGroupQueueProfileData/

methodType=Post

mediaType=appilcation/xml,application/json

responsemediatype=application/xml,application/json

RequestBody=API input already explained above

Output of these API:

XML:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFGetProcessGroupQueueProfileData_Output>
    <MainCode>0</MainCode>
    <FailedList>
        <ProcessFailedList>
            <ProcessName>process1</ProcessName>
        </ProcessFailedList>
        <GroupFailedList>
            <GroupName>Group1</GroupName>
        </GroupFailedList>
        <ProfileFailedList>
            <ProfileName>profile1</ProfileName>
        </ProfileFailedList>
    </FailedList>
    <XLSBufferData>-Q-PR-g;h;xa-hAAAAAAAAAAAAAAAA7ADA-+-/
JAGAAAAAAAAAAABAAAAAAAAAAAAQAACAAABAAA-+-gAUAAA;kA-1-/gAAAAAAAAAAA-Ag--
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</XLSBufferData>
</WFGeProcesstGroupQueueProfileData_Output>
```

JSON:

```
{
#x200e"WFGetProcessGroupQueueProfileData_Output": {
  "MainCode": "0",
  "FailedList": {
    "ProcessFailedList": {
      "ProcessName": "process1"
    },
    "GroupFailedList": {
      "GroupName": "Group1"
    },
    "ProfileFailedList": {
      "ProfileName": "profile1"
    }
  },
  "XLSBufferData": "-Q-PR-g;h;xa-hAAAAAAAAAAAAAAAA7ADA-+AAAAAAAAAAAAAAAAAAAAA"
}
}
```

XLSBufferData tag contains the full xls sheet in encoded form. Get these from xls Tag, if you want to write these data into an xls sheet again use the following code:

```
    FileOutputStream fos = new FileOutputStream(file);
```

```
byte[] content = EncodeImage.decodeImageData(fileBuffer);

fos.write(content, 0, content.length);

fos.close();
```

Set API WFMigrateAndSetRightsData

In this API, first, create all users from the XLS sheet. If any username is already present on the destination database then we do not create this user or update anything. If the user is already present or an issue occurs during creation, it is added to the failed list.

After that, create all the groups present in the group sheet and also update their rights in the destination cabinet, these data are present in XMLbuffer. If any group name is already present on the destination database then do not create or update the group. If the group is already present or an issue occurs during creation, it is added to the failed list.

After that, associate the user with a group by using the UserGroupMapping sheet. If a group or user does not exist then add it to the failed list. If the user is already associated with the group then do not do anything.

After that, associate the user/group to the queue by using the UserQueueMapping sheet. If a user/group is not found in that cabinet then simply add this user/group to the failed list. If the user/group is already associated with the queue then do not update any data.

After that, create all profiles present in XMLBuffer. If any profile is already present on the database then do not do anything. If the OverwriteProfileGroupPropertyAndRights=N or tag is missing in input or the profile is already present or an issue occurs during creation then it is added to the failed list.

Service URL: *https://<IP>:<Port>/WFRestFulWebServices/ngone/Restful/WFMigrateAndSetRightsData*

Method type: Post

Request content-type: Application/XML or Application/JSON

Response content-type: Application/XML or Application/JSON

Sample request:

Modify or change the XLS sheet by adding the required information to the sheet. After that, convert this xls sheet content into encoded form same as WfGetGRoupQueueProfileData API, and send this encoded data in the XLSBufferData tag.

API throws an error if the System sheet is modified.

For creating the encoded XLS Buffer data from XLS File use this code:

```
File inputFile = new File(completeFileName);
byte[] fileContent = new byte[(int)inputFile.length()];
FileInputStream fis = new FileInputStream(inputFile);
fis.read(fileContent);
fis.close();
System.out.println("Actual File Content : " + new String(fileContent));
String encodedStr = EncodeImage.encodeImageData(fileContent).toString();
return encodedStr;
```

Input XML:

```
<?xml version="1.0" ?>
<WFMigrateAndSetRightsData_Input>
<Option>WFMigrateAndSetRightsData</Option>
<EngineName>ibps16jan</EngineName>
<SessionID>-1947147123</SessionID><XLSBufferData
    >-Q-PR-g;h;xaAAAAAAAAAAAAAAAAAAAAAAAAA

</XLSBufferData></WFMigrateAndSetRightsData_Input>
```

Input JSON:

```
{
    "WFMigrateAndSetRightsData_Input": {
        "Option": "WFMigrateAndSetRightsData",
        "EngineName": "ibps16jan",
```

```
        "SessionID": "-1947147123",
        "XLSBufferData": "-Q-PR-g;h;xa-hAAAAAAAAAAAAAAAA7ADA-+-/JAGAAAAAAAAAAA"
    }
}
```

Option, EngineNAm, and SessionID are mandatory tags.

Assumption:

1. During Group creation if the parent group is not present in the production environment (Destination) then we take everyone as a parent group.
2. During Group Creation if UserName(OwnerName) is not present on production Environment (Destination) then we take supervisor2 or supervisor as userName(OwnerName).

Output XML:

```
<?xml version="1.0" encoding="UTF-8" ?>
<WFMigrateAndSetRightsData_Output>
<Option>WFMigrateAndSetRightsData</Option>
<Exception>
<MainCode>0</MainCode>
</Exception>
<SuccessInfo>
<UserList>
<UserInfo>
<UserName>test1</UserName>
<UserID>1</UserID>
</UserInfo>
<UserInfo>
<UserName>test2</UserName>
<UserID>2</UserID>
</UserInfo>
<UserInfo>
<UserName>test3</UserName>
<UserID>4</UserID>
</UserInfo>
</UserList>
<GroupList>
<GroupInfo>
<GroupName>Group1</GroupName>
<GroupId>1</GroupId>
</GroupInfo>
<GroupInfo>
<GroupName>Group2</GroupName>
<GroupId>2</GroupId>
</GroupInfo>
</GroupList>
<ProfileList>
<ProfileInfo>
<ProfileName>profile1</ProfileName>
<ProfileID>1</ProfileID>
```

```
</ProfileInfo>
<ProfileInfo>
<ProfileName>profile2</ProfileName>
<ProfileID>12</ProfileID>
</ProfileInfo>
</ProfileList>
<UserGroupQueueAssociationList>
<UserGroupQueueAssociation>
<Name>user1</Name>
<QueueName>process11_Startevent</QueueName>
</UserGroupQueueAssociation>
<UserGroupQueueAssociation>
<Name>group1</Name>
<QueueName>process11_Startevent</QueueName>
</UserGroupQueueAssociation>
</UserGroupQueueAssociationList>
<UserGroupAssociationList>
<UserGroupAssociation>
<UserName>test1</UserName>
<GroupName>group1</GroupName>
</UserGroupAssociation>
<UserGroupAssociation>
<UserName>test2</UserName>
<GroupName>group1</GroupName>
</UserGroupAssociation>
</UserGroupAssociationList>
</SuccessInfo>
<FailedList>
<UserList>
<UserName>test4 is already present</UserName>
<UserName>test5 is not created</UserName>
<UserName>test6 is already present</UserName>
</UserList>
<GroupList>
<GroupName>Group12 is already present</GroupName>
<GroupName>Group22 is not created</GroupName>
</GroupList>
<ProfileList>
<ProfileName>profile1 is already present</ProfileName>
<ProfileName>profile2 is already present</ProfileName>
</ProfileList>
<UserGroupQueueAssociationList>
<UserGroupQueueAssociation>
<Name>user12</Name>
<QueueName>process11_Startevent</QueueName>
<Info>uesr 12 Already associated with process11_Startevent</Info>
</UserGroupQueueAssociation>
<UserGroupQueueAssociation>
<Name>group3</Name>
<QueueName>process11_Startevent</QueueName>
<Info>group3 does not exist</Info>
</UserGroupQueueAssociation>
</UserGroupQueueAssociationList>
<UserGroupAssociationList>
<UserGroupAssociation>
<UserName>test1</UserName>
<GroupName>group3</GroupName>
```

```
<Info>group3 does not exist</Info>
</UserGroupAssociation>
<UserGroupAssociation>
<UserName>test12</UserName>
<GroupName>group1</GroupName>
<Info>test12 does not exist</Info>
</UserGroupAssociation>
</UserGroupAssociationList>
</FailedList>
</WFMigrateAndSetRightsData_Output>
```

Output JSON:

```
{
    "WFMigrateAndSetRightsData_Output": {
        "FailedList": {
            "ProfileObjectTypesList": "",
            "GroupList": {
                "GroupInfo": [{
                    "GroupName": "d",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RightMigration2",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "Business Admin",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RightMigration3",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RughtMigration6",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RightGroup31",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RightGroup32",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RightGroup112",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RightGroup113",
                    "Reason": "Group Already present on Destination cabinet"
                }, {
                    "GroupName": "RightGroup114",
                    "Reason": "Group Already present on Destination cabinet"
                }]
            },
            "UserGroupAssociationList": "",
            "GroupRightObjectList": {
                "GroupRights": [{
                    "GroupName": "RIGHTGROUP112",
                    "ObjectTypeName": "",
```

```
                    "Object": "",
                    "Reason": "RIGHTGROUP112 Group does not created or updated.
Its already present on destination Cabinet."
                }, {
                    "GroupName": "D",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "D Group does not created or updated. Its already
present on destination Cabinet."
                }, {
                    "GroupName": "RIGHTGROUP32",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "RIGHTGROUP32 Group does not created or updated. Its
already present on destination Cabinet."
                }, {
                    "GroupName": "RUGHTMIGRATION6",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "RUGHTMIGRATION6 Group does not created or updated.
Its already present on destination Cabinet."
                }, {
                    "GroupName": "RIGHTGROUP31",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "RIGHTGROUP31 Group does not created or updated. Its
already present on destination Cabinet."
                }, {
                    "GroupName": "RIGHTMIGRATION2",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "RIGHTMIGRATION2 Group does not created or updated.
Its already present on destination Cabinet."
                }, {
                    "GroupName": "BUSINESS ADMIN",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "BUSINESS ADMIN Group does not created or updated.
Its already present on destination Cabinet."
                }, {
                    "GroupName": "RIGHTMIGRATION3",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "RIGHTMIGRATION3 Group does not created or updated.
Its already present on destination Cabinet."
                }, {
                    "GroupName": "RIGHTGROUP113",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "RIGHTGROUP113 Group does not created or updated.
Its already present on destination Cabinet."
                }, {
                    "GroupName": "RIGHTGROUP114",
                    "ObjectTypeName": "",
                    "Object": "",
                    "Reason": "RIGHTGROUP114 Group does not created or updated.
Its already present on destination Cabinet."
```

```
                }]
            },
            "ProfileRightsList": "",
            "ProfileGroupObjectRightList": "",
            "ProfileUserGroupProfileAssociationList": "",
            "ProfileList": {
                "Profile": [{
                    "ProfileId": "",
                    "ProfileName": "RightProfile1",
                    "Reason": "Profile already exists on destination cabinet"
                }, {
                    "ProfileId": "",
                    "ProfileName": "RightProfile2",
                    "Reason": "Profile already exists on destination cabinet"
                }, {
                    "ProfileId": "",
                    "ProfileName": "RightProfile31",
                    "Reason": "Profile already exists on destination cabinet"
                }]
            },
            "UserGroupQueueAssociationList": {
                "UserGroupQueueAssociation": [{
                    "GroupName": "RughtMigration6",
                    "UserName": "",
                    "QueueName": "RIGHTMIGRATION3_START EVENT_1",
                    "Reason": "Queue does not exists in the system"
                }, {
                    "GroupName": "",
                    "UserName": "UserTest114",
                    "QueueName": "RIGHTMIGRATION3_SWIMLANE_1",
                    "Reason": "Queue does not exists in the system"
                }, {
                    "GroupName": "",
                    "UserName": "",
                    "QueueName": "RIGHTMIGRATION12_START EVENT_1",
                    "Reason": "User Name or Group Name must be empty."
                }]
            },
            "UserList": {
                "UserInfo": [{
                    "UserName": "UserTest112",
                    "Reason": "User already present on destination cabinet :
ofora6jun"
                }, {
                    "UserName": "UserTest113",
                    "Reason": "User already present on destination cabinet :
ofora6jun"
                }, {
                    "UserName": "UserTest114",
                    "Reason": "User already present on destination cabinet :
ofora6jun"
                }, {
                    "UserName": "UserTest115",
                    "Reason": "User already present on destination cabinet :
ofora6jun"
                }, {
                    "UserName": "UserTest116",
```

```
                    "Reason": "User already present on destination cabinet :
ofora6jun"
                }]
            }
        },
        "Option": "WFMigrateAndSetRightsData",
        "SuccessInfo": {
            "ProfileObjectTypesList": "",
            "GroupList": "",
            "UserGroupAssociationList": {
                "UserGroupAssociation": [{
                    "GroupName": "d",
                    "UserName": "UserTest112",
                    "Info": "User UserTest112 is successfully associated with
group d"
                }, {
                    "GroupName": "RightMigration2",
                    "UserName": "UserTest112",
                    "Info": "User UserTest112 is successfully associated with
group RightMigration2"
                }, {
                    "GroupName": "Business Admin",
                    "UserName": "UserTest112",
                    "Info": "User UserTest112 is successfully associated with
group Business Admin"
                }, {
                    "GroupName": "RightMigration3",
                    "UserName": "UserTest114",
                    "Info": "User UserTest114 is successfully associated with
group RightMigration3"
                }, {
                    "GroupName": "RughtMigration6",
                    "UserName": "UserTest112",
                    "Info": "User UserTest112 is successfully associated with
group RughtMigration6"
                }, {
                    "GroupName": "RightGroup31",
                    "UserName": "UserTest115",
                    "Info": "User UserTest115 is successfully associated with
group RightGroup31"
                }, {
                    "GroupName": "RightGroup32",
                    "UserName": "UserTest112",
                    "Info": "User UserTest112 is successfully associated with
group RightGroup32"
                }, {
                    "GroupName": "RightGroup112",
                    "UserName": "UserTest113",
                    "Info": "User UserTest113 is successfully associated with
group RightGroup112"
                }, {
                    "GroupName": "RightGroup113",
                    "UserName": "UserTest114",
                    "Info": "User UserTest114 is successfully associated with
group RightGroup113"
                }, {
                    "GroupName": "RightGroup114",
```

```
                    "UserName": "UserTest116",
                    "Info": "User UserTest116 is successfully associated with
group RightGroup114"
                }, {
                    "GroupName": "RightGroup114",
                    "UserName": "UserTest113",
                    "Info": "User UserTest113 is successfully associated with
group RightGroup114"
                }, {
                    "GroupName": "RightGroup114",
                    "UserName": "UserTest116",
                    "Info": "User UserTest116 is successfully associated with
group RightGroup114"
                }, {
                    "GroupName": "RightGroup114",
                    "UserName": "UserTest114",
                    "Info": "User UserTest114 is successfully associated with
group RightGroup114"
                }]
            },
            "GroupRightObjectList": "",
            "ProfileRightsList": "",
            "ProfileGroupObjectRightList": "",
            "ProfileUserGroupProfileAssociationList": "",
            "ProfileList": "",
            "UserGroupQueueAssociationList": {
                "UserGroupQueueAssociation": [{
                    "GroupName": "RightGroup113",
                    "UserName": "",
                    "Info": "Group is sucessfully associted with Queue",
                    "QueueName": "RIGHTMIGRATION11_START EVENT_1"
                }, {
                    "GroupName": "RightGroup112",
                    "UserName": "",
                    "Info": "Group is sucessfully associted with Queue",
                    "QueueName": "RIGHTMIGRATION11_WORKDESK2"
                }, {
                    "GroupName": "RightGroup114",
                    "UserName": "",
                    "Info": "Group is sucessfully associted with Queue",
                    "QueueName": "RIGHTMIGRATION11_QUERY_8"
                }, {
                    "GroupName": "RightGroup112",
                    "UserName": "",
                    "Info": "Group is sucessfully associted with Queue",
                    "QueueName": "RIGHTMIGRATION11_CASE WORKDESK_7"
                }, {
                    "GroupName": "RightGroup113",
                    "UserName": "",
                    "Info": "Group is sucessfully associted with Queue",
                    "QueueName": "RIGHTMIGRATION11_CASE WORKDESK_7"
                }, {
                    "GroupName": "RightGroup113",
                    "UserName": "",
                    "Info": "Group is sucessfully associted with Queue",
                    "QueueName": "RIGHTMIGRATION12_SWIMLANE_1"
                }]
```

```
            },
            "UserList": ""
        },
        "Exception": {
            "MainCode": 0
        }
    }
}
```

Appendix: List of Error Codes with Messages

The following list includes the error message incurred while execution along with their description.

In case the operation is successful, then the value is:

Value	Message
0	WM_SUCCESS

Error Return Codes

The set of main code error return codes are:

No.	Error	Description
1	WM_CONNECT_FAILED	Indicates that the WMConnect call failed.
2	WM_INVALID_PROCESS_DEFINITION	Indicates that the process definition ID that was passed as parameter to an API call was not valid, or the servicing workflow engine did not recognize it.
3	WM_INVALID_ACTIVITY_	Indicates that the activity name that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
4	WM_INVALID_PROCESS_INSTANCE	Indicates that the process instance ID that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
5	WM_INVALID_ACTIVITY_INSTANCE	Indicates that the process instance ID that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.

6	WM_INVALID_WORKITEM	Indicates that the work item ID that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
7	WM_INVALID_ATTRIBUTE	Indicates that the attribute that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
8	WM_ATTRIBUTE_ASSIGNMENT _FAILED	Indicates that the workflow engine was not able to complete the attribute assignment requested.
9	WM_INVALID_STATE	Indicates that a state was not valid, or was not recognized by the servicing workflow engine.
10	WM_TRANSITION_NOT_ALLOWED	Indicates that the state transition requested was not valid, or was not recognized by the servicing workflow engine.
11	WM_INVALID_SESSION_HANDLE	Indicates that the session ID that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
12	WM_INVALID_QUERY_HANDLE	Indicates that the query handle ID that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
13	WM_INVALID_SOURCE_USER	Indicates that the participant source user that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
14	WM_INVALID_TARGET_USER	Indicates that the participant target user that was passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.
15	WM_INVALID_FILTER	Indicates that the filter structure or values that were passed as parameter to an API call was not valid, or was not recognized by the servicing workflow engine.

16	WM_LOCKED	Reserved for situations in which the servicing workflow engine implements locking of workflow entities (process definitions, process instances, activities, work items, and more.) to indicate that the entity is locked at the moment in which its access is requested.
17	WM_NOT_LOCKED	Reserved for situations in which the servicing workflow engine implements locking of workflow entities (process definitions, process instances, activities, work items, and more.) to indicate that the entity is not locked at the moment in which its access is requested.
18	WM_NO_MORE_DATA	Indicates that a fetch query call has reached the end of the list of valid entities to be returned. These errors return code is used to implement queries of lists of workflow entities, it indicates that all the entities of the list that matched the selection criterion have already been returned.
19	WM_INSUFFICIENT_BUFFER_SIZE	Indicates that the buffer size that was passed to an API call is insufficient to hold the data that it is supposed to receive.
20	WM_APPLICATION_BUSY	Indicates that the corresponding application is currently busy and cannot return a status of work progress.
21	WM_INVALID_APPLICATION	Indicates that an invalid application has been requested by the calling interface.
22	WM_INVALID_WORK_ITEM	Indicates that an invalid work item has been referenced to by the calling interface.
23	WM_APPLICATION_NOT_STARTED	Indicates that the requested application did not start up successfully.
24	WM_APPLICATION_NOT_DEFINED	Indicates that the application is not installed or configured.
25	WM_APPLICATION_NOT STOPPED	Indicates that the corresponding application did not stop orderly.
26	WM_NO_MORE_DATA_FOR_ SPECIFIED_QUEUE	Indicates that no more data is present for the specified queue
100	WF_PARSING_ERROR	WF_PARSING_ERROR

101	WF_ELEMENT_MISSING	WF_ELEMENT_MISSING
102	WF_INVALID_VERSION	Incorrect version.
103	WF_INVALID_RESPONSE_ REQUIRED_VALUE	WF_INVALID_RESPONSE_REQUIRED_VALUE
104	WF_INVALID_KEY	WF_INVALID_KEY
105	WF_INVALID_OPERATION_ SPECIFICATION	WF_INVALID_OPERATION _SPECIFICATION
201	WF_INVALID_CONTEXT_DATA	Data provided is invalid.
202	WF_INVALID_RESULT_DATA	Data provided is invalid.
300	WF_NO_AUTHORIZATION	No Authorization.
400	WF_OPERATION_FAILED	The requested operation failed.
500	WF_NO_ACCESS_TO_RESOURCE	Resource not accessible at this Activity.
502	WF_INVALID_PROCESS_DEFINITION	Process Definition id is invalid
600	WF_INVALID_STATE_TRANSITION	The requested state transition not allowed.
601	WF_INVALID_OBSERVER_FOR_ RESOURCE	WF_INVALID_OBSERVER_FOR_RESOURCE
602	WFS_OPERATION_SET_DYNAMIC _CONST_FAILED	Set operation for dynamic constants failed.
603	WFS_ERR_INVALID_INTRODUCTION _ACTIVITY	Introduction activity is invalid.
604	WFS_ERR_EXT_VALIDATION_FAILED	External method validation failed for the process.
605	WFS_ERR_EXT_EXECUTION_FAILED	External method execution failed.
-50225	WF_ERR_NO_USER_ASSOCIATED_ WITH_ROLE	No user associated with specified role.
-50202	WF_ERR_ROLE_NOT_EXIST	Role doesn't exist
-50013	WF_ERR_GROUP_NOT_FOUND	Group doesn't exist
-50058	WF_ERR_TARGET_USER_NOT_EXIST	User doesn't exist
800	WF_OTHER	Unknown error.
Sub Codes Errors		
801	WFS_SQL	WFS_SQL

802	WFS_ILP	WFS_ILP
803	WFS_SYS	WFS_SYS
804	WFS_EXP	WFS_EXP
805	WFS_INV_USR	Invalid User.
807	WFS_INV_PWD	Invalid Password.
808	WFS_INV_UTP	Invalid Participant Type.
809	WFS_PRS_ALRDY_ST	Process instance already started or Process instance not created.
810	WFS_NOQ	Invalid Queue.
811	WFS_INV_PRM	Invalid Parameters.
812	WFS_QNM_ALR_EXST	Queue already exists.
813	WFS_WKM_N_RASN	WorkItem can not be reassigned.
814	WFS_WKM_CLSD	WorkItem closed.
815	WFS_INTRO	Introduction QueueType cannot be changed.
816	WFS_ALR_LNK	ProcessInstance aleady linked.
817	WFS_NO_LNK	ProcessInstance link not found.
818	WFS_NO_PAR	No Parent-Child relationship defined for the given processes.
819	WFS_INV_QTYPE	Queue Type change invalid
820	WFS_NA_WI_LNK	Not all WorkItems successfully linked / delinked.
821	WFS_WI_EXP	WFS_WI_EXP
822	WFS_NOT_RFR	WFS_NOT_RFR
823	WFS_REMFAIL	Reminder failed.
824	WFS_TEMP	Temporary error
825	WFS_FATAL	Fatal error
826	WFS_INV_ENGINE	Invalid cabinet
827	WFS_INV_ENGINE_DES	WFS_INV_ENGINE_DES
828	WM_Batch_ProcInst	WM_Batch_ProcInst
829	WM_Batch_Attr	WM_Batch_Attr

830	WFS_NORIGHTS	No rights on current operation.
831	WFS_ERR_ACTIVITY_NOT_ ASSOCIATED_WITH_THIS_QUEUE	Activity not associated with the queue
832	WFS_ERR_NO_QUEUE_ON_ ACTIVITY	No queue associated with activity.
833	WFS_ERR_NO_CONST_DEF_ FOR_PROCESS	No dynamic constant defined for the process
834	WFS_ERR_NO_APPLICATION_ DEPLOYED	No external application defined.
835	WFS_ERR_NO_SUCH_METHOD_ DEFINED	External method doesn't exist
836	WFS_ERR_APPLICATION_TYPE _NOT_SUPPORTED	Application type not supported.
837	WFS_ERR_INVALID_METHOD_ INDEX	Method index to execute is invalid.
901	WM_REPORT_NOT_FOUND	Report not found.

Action IDs and corresponding actions

The following list includes the action id details while generating the Audi Trial/Route Log.

Integer value	Corresponding value
1	WFL_CreateProcessInstance
2	WFL_StartProcessInstance
3	WFL_ProcessInstanceDiscarded
4	WFL_ProcessInstanceRouted
5	WFL_ProcessInstanceAborted
6	WFL_ProcessInstanceDistributed
7	WFL_WorkItemLock

8	WFL_WorkItemUnlock
9	WFL_Exception_Raised
10	WFL_Exception_Cleared
13	WFL_Priority_Incremented
14	WFL_Priority_Decremented
15	WFL_ToDoItemStatus_Modified
16	WFL_Attribute_Set
17	WFL_WorkItemReassigned
18	WFL_DocumentTypeAdded
19	WFL_DocumentTypeAnnotated
20	WFL_ProcessInstanceCompleted
21	WFL_ProcessStateChanged
22	WFL_ActionPerformed
23	WFL_UserLogIn
24	WFL_UserLogOut
25	WFL_ProcessInstanceTerminated
26	WFL_ProcessInstanceStateChanged
27	WFL_WorkItemCompleted
28	WFL_WorkItemExpired
29	WFL_Submit
30	WFL_Release
31	WFL_Trigger
32	WFL_Reject
33	WFL_Accept
34	WFL_AuditSet
35	WFL_Collect
36	WFL_link
37	WFL_dlink

38	WFL_Reinitate
39	WFL_ProcessInstanceDeleted
40	WFL_getlink
41	WFL_WorkItemReferred
42	WFL_WorkItemWithDrawn
43	WFL_WorkItemSubmit
44	WFL_SpawnProcess
45	WFL_AdHocRouted
46	WFL_ProcessSpawn
47	WFL_RemSet
48	WFL_RemDel
49	WFL_LogDel
50	WFL_AddQueue
51	WFL_ChnQueue
52	WFL_DelQueue
53	WFL_DivertSet
54	WFL_DivertDel
55	WFL_Exception_Undo
56	WFL_Exception_Modify
57	WFL_Print
58	WFL_Fax
59	WFL_Mail
60	WFL_AddUserToQueue
61	WFL_DeleteUserFromQueue
62	WFL_AddWorkStepToQueue
63	WFL_DeleteWorkStepFromQueue
64	WFL_AddPreferedQueue
65	WFL_DeletePreferedQueue

66	WFL_AddAliasToQueue
67	WFL_DeleteAliasFromQueue
68	WFL_ProcessTATime
69	WFL_ActivityTATime
70	ACTION_MAIL_SENT_SUCCESS
71	ACTION_MAIL_SENT_FAILURE
72	WFL_ScheduleEscalationAction
73	WFL_EscalationAction
74	WFL_SubscribeAction
75	WFL_AttributeHasBeenSet
76	WFL_AuditLogPreferencesChanged
77	WFL_QueryFilter_Set
78	WFL_Constant_Updated
79	WFL_WorkItemSuspended
80	WFL_Calendar_Modified
81	WFL_ChangeQueueName
82	WFL_ChangeProcessName
83	WFL_WorkitemExported
84	WFL_Add_QuickSearchVariable
85	WFL_Delete_QuickSearchVariable
200	WFL_WorkStarted
501	WFL_Process_Register
502	WFL_Process_UnRegister
503	WFL_Process_CheckOut
504	WFL_Process_CheckIn
505	WFL_Process_UndoCheckOut

Glossary

Action

Actions are the explicit rules that are defined for users on the Desktop. It is at the user's discretion whether to perform these Actions on the work steps or skip them.

Activity

A description of a piece of work that forms one logical step within a process. An activity may be manual or automated. It is a synonym for a workstep.

Ad-hoc routing

Routing of a workitem from any workstep in a process to any other workstep in the same process, in an ad-hoc manner is called Ad-hoc routing. This is an administrative function and can be performed through the Process Manager component.

Archive Utility

Archive Utility connects to the Archive worksteps in processes, to enable archiving configured on each of these steps.

Archive Work step

NewgenONE provides a tool for archiving documents and data of a workitem in an underlying Document Management System. Any Custom type workstep can be configured as an Archive workstep in a process. This facilitates the archival of the configured documents and workitem data associated with the workitem passing through this step, in a configured folder path in the DMS system.

Asynchronous Invocation (Web Service)

In this type of invocation, the workstep invokes the Web method of the Webservice in asynchronous manner. In this technique, the server invokes the web method, and continues with routing the workitem further in the process. Only when the response is received from the web method, does the data get updated in the workitem.

Batch size

It is the number of records, which have to be displayed in one go. Depending upon the batch size, next previous links are enabled/disabled in the various user interfaces of the NewgenONE system.

Cabinet

A Cabinet refers to a database in which the process definitions along with workitem data will be maintained.

Collect Workstep

The Collect Workstep allows for collecting the already distributed work items. The Collection can be based on the criteria.

Configuration Server

The Configuration Server (CS) is a multi-threaded server that manages a number of utilities like the print, fax, and mail utility process server, and external programs remotely or locally through a listener.

Custom workstep

Custom workstep is a step on which the intended task is performed by a manual user/ operator of the system. It implies that the user has to explicitly login to his desktop to perform the intended operation. Custom work steps can also be termed as Manual Work steps.

Data Variables

NewgenONE provides three types of data variables that can be used in processes to hold workitem data and build routing rules. System Variables are defined and maintained by the system. Any user cannot modify the values of system variables. Queue or User Defined variables are defined and maintained by the users. Their values can be modified by the users or by the system through rules. External Data Table variables are the variables that are available after importing an external table in the process.

Decision Workstep

It is the Rule type workstep on which routing rules can be configured in a process. This is also defined as an OR type of a workstep, reaching which, the workitems are directed along alternate paths in a process based on the data associated with them and rules configured on this decision step.

Default Queue

While registering a process, queues get created for each 'Default' stream existing for the workstep. These are referred to as default queues. So that whenever the work items reach that particular workstep, if none of the other stream conditions (if any are specified) get satisfied, they are assigned to the default queue. And the users assigned to the default queue can process the work items.

Discard Workstep

A Discard Workstep marks the abnormal termination of a workitem in a process. It is also called a leaf node in a process, reaching which the workitem is terminated, and is no longer available in the process for any further processing. Thus this workstep does not have any outgoing links.

Distribute workstep

The Distribute work step allows distributing work items to multiple work steps for parallel processing. At this step, multiple instances of a workitem are created and routed to different worksteps in a process. These distributed work item instances can then be collected at the Collect workstep.

DMS

Abbreviation for Document Management System.

Document Types

Document Types are specific document categories that are allowed entry in the form of documents in a business process. These types are defined at the time of designing the process, such that every document that is later added to a workitem at run-time will essentially be associated and recognized by one of the document types defined for the process. The document types can be associated with different worksteps with View/ Modify/Addition rights, thus making the documents of those types, viewable, modifiable, and addable on a step, only if the required rights are associated with them on that step.

Dynamic Load Balancing

This is a Queue Type, in which the load balancer utility temporarily assigns workitems to active users of the queue. These assigned workitems are displayed in the respective 'My Queues' of the users, and the entire list of workitems in that queue are also available in the Queue when it is selected by the user from Process Client interface. Load balancer will periodically balance the load between all the active participants.

Escalation

Escalation process involves propagating the status of a workitem to a user or role, in case it has not been completed within a specified time frame. The status is escalated through emails. Escalation ensures that the higher-priority task would be completed first and on time. Escalation is implemented in Omniflow with the help of rules. Escalation Rules can be set as entry settings of any Custom type workstep.

Exceptions

Any business process takes some exceptions in special cases. Processing staff for taking special permission from an authorized person can raise these exceptions. For example in the absence of an income document, a credit card application must be processed or not is an exception, which can be cleared by an authorized person.
NewgenONE provides a facility to define a list of exceptions, which can be raised and cleared at particular worksteps in the process. Raising an exception on a workitem simply marks the workitem as an exceptional case, but does not restrict the flow of workitem in the process.

Exit Workstep

The exit workstep is an end-point in the process. It marks the successful completion of workitems in the process. All workitems that have successfully flown in the process, will be contained in the exit workstep. No further processing can be performed on these workitems.

Expiry Interval

NewgenONE system allows the definition of expiry periods on worksteps, thus setting the validity period of the workitem on that step. The workitem will remain valid and will be available for processing on that workstep, until the validity date time, post which it will expire and get routed to another step in the process. Setting expiry ensures that work continues to flow consistently in the process, without any delays. The time interval after which the NewgenONE Server expires the work item after it has entered the workstep on which expiry is set is termed the Expiry Interval.

Expiry Utility

At the time of designing a process, expiries can be set for various critical worksteps, in terms of the time for which the workitems will remain active on that step, after their entry into it. After which they will be routed to another workstep in the process. The Expiry Utility polls the Application Server and fetches the work items for which the expiry time has reached, and marks them as expired. After the workitems are marked expired, they are not available for further processing on that workstep.

External Database variables

External Database variables are the ones that are imported in the process from an external database table residing in the cabinet in which the process will be registered. These are introduced to extend the data in the process, beyond the 26 Queue variables that can be defined by a user. Once you import an external database table in a process, then all the columns of that table will be available as variables in the process. While importing the table, the user also has to define a record mapping with the Record Data fields of the system. The external data variables act just like the normal process variables and can be used in rules, data forms, and more.

External Interfaces

Omniflow provides six standard tools or properties that can be defined for a Custom workstep, namely, ToDo List, Exceptions, Actions, Form View, Document Types, and Scan Tool. If you wish to extend the properties of a workstep beyond these six standard tools, you can define External Interfaces. Once defined and included in a process, these Interfaces/Tool windows are available on each Custom Workstep, under the Custom Tab in the workstep property sheet of that workstep. These windows are reflected in the Workdesk of the workitem lying on the workstep on which it has been associated.

FIFO (First In First Out) Queue

The workitems in this queue are made available to the logged-in users, one by one, based on the Entry-Date-Time of the Workitem in the Process or Workstep. In this type of queue, only one work item will be visible at a time in the Process Client and that work item gets locked for that user. Only after completion of that workitem, the user

can get the next workitem in that queue. This Queue Type is used in situations in which workitems are to be processed in a sequence in which they enter a Workstep or Process.

Flow Control Steps

Flow control steps are worksteps like the decision to distribute, and collect, that are automatically executed by the workflow system, to direct the flow of workitems in the process. These steps may be introduced in a process to facilitate the routing of workitems to alternative work steps, splitting workitems for parallel processing, collecting split work items, and more.

Form View

For data entry, the user can view a customized form, which can be designed in Form Builder which is an integrated component of the NewgenONE Process Designer and can be imported in the process. Multiple forms can be designed in a single process and associated with different work steps. NewgenONE forms not only serve the purpose of Data Entry or Data View but can also process data based on some intelligent logic that can be scripted by the implementer.

Group

An entity consisting of multiple users.

Group Queue

Multiple users can be assigned to the same queue, thus resulting in the concept of shared/group queues. The workitems in a group queue can be processed by any user of that queue. Shared queues like the Individual Queues are independent of processes, i.e. multiple workitems spanning multiple processes can appear in a single ‘Shared Queue’.

Hold

At the hold step, the Workitem waits for the specified duration of time. Typically this step is used for time-based waiting, but can also be used where a Workitem is expecting a state change due to external inputs. During the hold period, the workitem is not available to any user for processing.

Image Server Cabinet

This Cabinet refers to the database where Volume and document Document storage Storage information is stored.

Individual Queue or My Queue

Every user in NewgenONE has his own personal queue, called the ‘My Queue’, which contains all the work items that are temporary or permanently assigned to that user.

Initiation queue

In the initiation queue, the users are allowed to introduce the workitem for the process on which the queue is defined. At the time of registering a process, the Initiation Queues get created on the Work-Introduction type of workstep in the process.

InputXml

The term InputXml specifies the required information passed to the NewgenONE server for performing any operation. To view the standard format for InputXML.

Introduction Workstep

Each process has an entry point that can be referred to as an Introduction work step. There can be many Introduction work steps in a business process, through which workitems can be initiated. However, one out of these may be defined as the default introduction work step.

JMS Publisher

A JMS publisher is the message-sending component in a JMS-based application. JMS publisher produces a message and can publish/ send it to the any JMS destination configured in the process. NewgenONE implements the concept of a JMS Publisher using the Message Producer workstep in the process modeler and the JMS Publisher utility in Configuration Server. This is facilitated by the Integration work step of the Process Modeler, which can be configured as 'Message Producer' work step type, to construct a JMS message, using the process variable data, of the incoming workitem at this step, and send it on any JMS destination on any external Application Server.

JMS Subscriber

A JMS subscriber is the message-receiving component in a JMS-based application. JMS subscriber receives the messages from the destinations, to which it has subscribed. The destinations receive and store the messages from one or more JMS publishers. NewgenONE implements the concept of a JMS Subscriber using the Message Consumer workstep and the JMS Subscriber utility in Configuration Server. This is facilitated by the Integration work step of the Process Modeler, which can be configured as 'Message Consumer' work step type.

Linked workitems

Work items that have been linked together are called Linked Workitems. You can reference one linked workitem from the other. Also, multiple workitems may be linked to the same workitem.

Linking workitems

NewgenONE provides means to link workitems that may be related to each other. For example, an LC may be introduced as a workitem in the Letter of Credit process of a bank. While processing the LC, there may be a situation in which an amendment request for the LC comes in which is processed as a separate workitem in the Amendment Process. Hence the two workitems flowing in different processes need to be linked together so that one can be referenced from the other. NewgenONE

facilitates this linking of workitems through the Workdesk component, where a user can search for any workitem and link it with the one that is currently open in the Workdesk.

Listener

The listener is a utility that is started as a service to launch the various server-side utilities of the NewgenONE System, like process server, print, fax and mail utility, expiry, mailing utility, load balancing, and Scheduled Applications. It has a client port as well as an admin port on which it listens to requests like starting utilities on a machine, stopping utilities, and more.

Load balancer Interval

Load Balancer, as the name suggests, is used to evenly distribute the load of workitems amongst various user members of a Queue on which load balancing is required. The Load Balancer utility periodically polls the Application Server and depending upon the load in the Queue, the work items are assigned to the users, so as to maintain a nearly equal workitem load for each user. The duration after which the polling is done can be set, which is known as sleep time or the Load Balancer Interval.

Mailing Utility

This utility continuously polls on the NewgenONE Server and checks the user preferences, whether it is marked for the Notification through Mail, an e-mail is sent to that user whenever a workitem is fixed assigned to him. Once the user receives a notification through a mail message, he can simply open the Workdesk for the workitem from the email message, by keying in his password. He does not necessarily have to explicitly log in to the Process Client.

My Queue

Every user in the NewgenONE System has his own personal queue, called the ‘My Queue’, which contains all the work items that are temporary or fixed assigned to that user. In case, the user is set as an auditor, the work items for audit also appear in his ‘My Queue’. It is basically the union of all the work items assigned to that user irrespective of the queue in which he is a member.

OutputXml

The term OutputXml specifies information returned by the NewgenONE server corresponding to any operation. To view the standard format for InputXML.

Predefined Templates for Responses and Notices

NewgenONE system provides the ‘Generate Response’ Trigger that is used for generating Response Letters in a process, based on certain predefined Word Templates. These Response Letters can also be added to the workitem as documents of specified Document Types.

Print Fax Email Workstep

The Custom workstep in a process can be configured as a dedicated workstep for Printing, faxing, or emailing the documents in the workitems passing through this step. Whenever the work item reaches this work step, its related documents, specified in the configuration, will automatically be pooled for printing, faxing, or emailing depending upon the settings defined.

Process

The entire business logic is termed a Process. It can be better defined as a definition of what flows to whom and in what sequence. It is a flow chart representation of the sequences in which tasks must be performed from initiation to completion. It is a chain of worksteps linked together, through which the work moves until it reaches a logical conclusion. Processes can be serial, parallel, conditional, or a complex combination of each. A process is designed in an easy-to-use graphical interface provided by the NewgenONE Process Designer.

Process Instance

Every enactment of a business process is referred to as a Process Instance/Instance. eg. For a Loan Process, a single Loan Application that is initiated in the Process can be called a Process Instance. Once the Process instance is made available to a user for processing, it is referred to as a workitem. Each instance represents a separate thread of execution of the process, which may be controlled independently and will have its own internal state and externally visible identity, which may be used as a handle, for example, to update or retrieve data relating to the individual enactment.

Process Modeler

Process Modeler is a graphical tool for process definition. It facilitates the designing of the processes in a graphical format with a clear indication of what is to flow, to whom, and in what sequence.

Process Variable

Same as Workitem Attribute.

Processing Server

The Process Server is responsible for routing the work items to the next work step in the Process. It also executes the Entry and Exit rules for the processing work items.

Queue

NewgenONE is a queue-based Workflow System. Workitems flow from one Queue to another in a Process. A ‘Queue’ can be defined as a shared workbench of users performing similar operations. A ‘Queues’ can also be termed as “shared in-baskets” where workitems come and sit on a Workstep, from where users can process them. Internally, each Workstep represents a Queue. And if a workstep has streams defined on it, then each stream will be a member of some or the other Queue. Thus a Queue is defined over the streams on a workstep in a process. Access rights on Queues can be granted to Users/Groups. This is how users get to see and process workitems lying on a

particular workstep in a process. Thus users access workitems on a workstep through Queues. To summarize, Queues are containers for workitems. A queue is a logical collection of workitems that need to be processed by an individual/ set of users. A single queue can contain multiple Worksteps of the same or different processes. i.e. if the same set of users is to perform similar operations on workitems of different processes, then the worksteps across processes can be clubbed into a single Queue, such that all the workitems in the worksteps of separate processes appear together in a single list when the user, who is a member of the queue, logs into that queue through the Process Client. NewgenONE supports both Individual as well as shared Queues. Individual Queue or My Queue – Every user in NewgenONE has his own personal queue, called the 'My Queue', which contains all the work items that are temporary or permanently assigned to that user. Shared Queue or Group Queue – Multiple users can be assigned to the same queue, thus resulting in the concept of shared/group queues. The workitems in a shared queue can be processed by any user of that queue. Shared queues are further of the following types: FIFO (First In First Out) Queue – The workitems in this queue are made available to the logged-in users, one by one, based on the Entry-Date-Time of the Workitem in the Process or Workstep. In this type of queue, only one work item will be visible at a time and that work item gets locked for that user. Only after completion of that workitem, the user can get the next workitem in that queue. This Queue Type is used in situations in which workitems are to be processed in a sequence in which they enter a Workstep/Process. WIP (Work In Progress) Queue – These Queues are like 'shared-in-baskets', which are available to multiple users for processing workitems contained in them. The Work In Progress type is a shared queue, where users can see all the Work items lying in that specific queue and can pick up any work item for processing, which is not locked by any other participant. WIP Type of Queues may belong to any of the following sub-types: 'Dynamic' (with Load Balancing), 'Static/Permanent', and 'No Assignment' type Queue. In Dynamic (with load balancing), workitems entering the queue, would automatically be load-balanced amongst users of this queue, and would be temporarily assigned to the users. Thus each logged-in user of this queue, can see different Workitems in their Individual Queues. Also when the Users log into the shared queue, they see the entire list of workitems contained in this queue. In Static/Permanent Queue Type (with load balancing), the workitems are fixed assigned to Users of the Queue after load-balancing. The workitems are nearly-equally distributed amongst the users of this queue, and are available in each of the user's individual queue or his 'My Queue'. No workitem will be available in the shared queue, as all have already been distributed amongst logged-in users. In No-Assignment Queue Type, all workitems are available only in the shared-queue and are not temporarily assigned to any user of the Queue. Users can process these workitems by simply connecting to the shared queue, where the entire list of items is available. Thus as the name suggests, no permanent or temporary assignment of workitems occur in this queue type.

Queue Variables

User Defined (Queue) variables are the variables used mainly for processing rules at different Worksteps. These variables can be both defined and modified by the users. User can define a maximum number of 26 variables, at the time of designing the process.

Query Timeout

Query Timeout is the time in seconds for which the server will wait for a response of a query.

Rules

A rule is a list of one or more actions that are to be executed when the associated list of conditions, if any, are satisfied. Rules are used for defining all the processing that has to be performed on any particular Workstep. Rules are always executed sequentially, in the sequence in which they are defined, one after another.

Reassign

Through Process Manager, you can re-assign a particular workitem to another user in the queue. This function when exposed from the Process Manager, allows workitems to be reassigned to any user in the system, while when exposed from the Process Client, allows workitems to be reassigned to a user of the same queue in which they are currently contained. The work items can only be reassigned in the queue in which re-assignment is allowed.

Scheduled Application

These are all the external applications that may be configured at various worksteps in a process, to be executed at the server end, whenever workitems pass through the workstep. These applications are then registered on the CS and are executed from time to time when the workitems pass through the workstep on which it is associated.

Sequential and Parallel Processing

Omniflow System supports both sequential as well as parallel routing. Sequential routing implies that the workitems move from workstep to another that are connected in a sequence. In-case of Parallel Processing, multiple instances of a workitems are created and these instances are available at different workstep for being processed simultaneously by different users. After these instances have been processed independently, they are joined or merged back together as a single entity. Parallel processing is implemented via the Distribute and Collect worksteps.

Sleep Time

Sleep time is the time interval for which the utility will sleep before launching again to see if there is any work to be processed by it. The time, after which the utility must poll the Application sever, to see if there is any work for it. In case there is work, it will process it, and then deactivate itself for the specified sleep time.

Static/Permanent Queue

In Static/Permanent Queue Type (with load balancing), the workitems are fixed and assigned to Users of the Queue after load-balancing. The workitems are nearly equally distributed amongst the users of this queue, and are available in each of the user's individual queue or his 'My Queue'. No workitem will be available in the shared queue, as all have already been distributed amongst logged-in users.

Streams

Streams are the pre-defined filters on a workstep. Streams act like funnels to filter workitems based on some criteria. Streams may be defined on a workstep, if workitems on that step, are to be made available to different users, based on the data associated with them. For example, in a centralized Bank Account Opening process, there is a workstep for Manager Approval, where all the applications come from across the country. Let's suppose this approval of accounts is to be done by Regional Managers, of different regions, depending on the location from where the application was introduced into the process. i.e. Applications coming from North Zone are to be handled by the RM North (Regional Manager North), from South by RM South, from East by RM East, and from West by RM West. In this case, we can simply define 4 new streams for applications arriving from each of the four locations, and grant the RMs access permissions on their respective streams. Hence each of the RMs while working on the Manager Approval step will be able to see and process workitems coming from their respective regions only.

Sub Process Workstep

Sub Process work step is used to initiate another process instance in a different process through the parent process. For this, the data (variables and documents) are passed in the sub-process from the parent process, and after the successful completion of the sub-process; the updated data is retrieved back. And normal processing in the Parent process resumes. It is used to fragment a hugely complex process into simpler subprocesses and then link them together via this step.

Synchronous Invocation

Web services can be invoked from within any workstep in a process. These can be invoked synchronously or asynchronously. In Synchronous Invocation, the server will invoke the Web method of the Webservice in a synchronous manner. In this technique, the server will block the step, until the Web method executes successfully and a response is received. Then only will the workitem be processed further in the process.

System Workstep

The system workstep is a workstep type in which the processing is done by the system. The user does not have to explicitly log in to perform the intended operations on that work step. They can also be termed as Automated Worksteps. A few examples of System worksteps are Introduction, Distribute, Decision, Hold, Collect, Integration, Discard, and Exit. From the above the Distribute, Decision, Hold, and Collect can also be termed as the Flow control work steps, which perform operations like routing work items to alternate work steps, splitting work items for parallel processing, collecting the split work items and so on.

ToDoList

WorkDesk provides the facility of defining a checklist for processing workitems on a work step, which is termed as 'ToDo List'. ToDo List provides the user, with information about the tasks to be performed on workitem. These appear on the user's WorkDesk as

Descriptions statements, reminding the user of the work he needs to do on the currently open workitem. ToDo list is not just a reminder for the user but has much more, like provision for taking input using a pick list, which can later be used for defining rules, invoking a trigger on the selection of a ToDo item, launching applications like MS Word for generation of responses or notices, and more.

Triggers

Triggers are fired on the occurrence of User or System events like the raising of exceptions by a user, entry of a workitem in a workstep, and so on. At each worksteps or flow control step, events can be defined. These events can invoke triggers that can send messages or invoke exception-processing programs. Triggers can be used by the system for sending mails, generating responses, invoking data forms for data entry, communicating from external systems for data updating and retrieval, informing supervisors of exceptional conditions and more.

Template

NewgenONE system provides the 'Generate Response' Trigger that is used for generating Response Letters in a process, based on certain predefined MS Word Templates. The macros in these Templates get replaced by the workitem data at run-time and added to the workitem as documents of specified Document Types.

User Variables

User Defined (Queue) variables are the variables used mainly for processing rules at different Work steps. These variables can be both defined and modified by the users. User can define a maximum number of 26 variables, at the time of designing the process.

User Queue

Every user in the NewgenONE System has his own personal queue, called the 'My Queue', which contains all the work items that are temporary or fixed assigned to that user. In case, the user is set as an auditor, the work items for audit also appear in his 'My Queue'. It is basically the union of all the work items assigned to that user irrespective of the queue in which he is a member.

Variables

Variables are used for processing rules in a process and in monitoring workitems. There can be three types of variables- System Defined, User Defined (Queue variables), and External Database variables.

WebService Invoker

This utility processes all the workitems on webservice workstep that is associated with the queue on which it is running. The Webservice Invoker connects to a web service at runtime and invokes the corresponding web method, passing the workitem data as parameters to the web method. A dedicated user is required for this utility.

WorkSpace

Workspace implies the entire screen in which you can design the graphical representation of the process.

Workstep

A process can be disseminated into individual units of work. These individual units of work, which are linked together in sequence or parallel to form a process, are called Work Steps. Thus, a Work Step is a logical step in a business process where work is performed by a manual user or an automatic program. Work Steps are also referred to as Activities. These are the basic building blocks that are joined together in sequence or parallel to define a Business Process. The worksteps are of two types: 'System Worksteps' on which the processing is performed by the system and there is no user intervention. 'Custom Worksteps' on which the processing is performed either manually or by the specified program running at the server or client end.

Workitem

Workitems are the basic unit of work in a process. These are the entities on which work or operations are performed by the system or manual users in a workflow process. The basic entity that flows in a Business Process from one workstep to another, carrying the data and documents is called a Workitem. It is also referred to as an enactment of a business process, available to users for processing.

Work Audit

NewgenONE provides the facility of auditing a percentage of the work of a user. This is useful in case the administrator wants to audit the work of a new user. The administrator can define the percentage of the workitem processed by that user, to be audited by another user in the system. The system routes those many work items to the auditor user, who can accept them to be routed further in the process, or reject them to be routed back to the auditee user. Later this percentage can be set to 0 when the administrator gets confidence in his work.

Workstep Properties

There are a set of properties associated with a workstep, like the name of the workstep, description, expiry, target step, rules, and so on. These are referred to as the workstep properties.

WIP (Work In Process) Queue

These Queues are like 'shared-in-baskets', which are available to multiple users for processing workitems contained in them. The Work In Progress type is a shared queue, where users can see all the Work items lying in that specific queue and can pick up any work item for processing, which is not locked by any other participant. WIP Type of Queues may belong to any of the following sub-types: 'Dynamic' (with Load Balancing), 'Static/Permanent' and 'No Assignment' type Queue.

Workitem Attribute

Workitem Attributes are placeholders for the data associated with the workitem. They are generally referred to as the data associated with the workitem. For Example, in a Loan Process, the Data associated with each of the Loan Applications flowing in the process, like, Applicant Name, Loan Amount, Address, Loan Type, Annual Income, etc would be referred to as attribute or process variables. NewgenONE provides three types of data variables that can be used in processes to hold workitem data and build routing rules. System Variables like Creation DateTime, CreatedByUser, ValidTill, etc., are defined and maintained by the system. Any user cannot modify the values of system variables. Queue or User Defined Variables are defined and maintained by the users. These are a set of twenty-six variables that are definable from within the Process Designer while designing the Process. Their values can be modified by the users or by the system through rules. External Data Table Variables are the ones that are imported into the process from an external database table residing in the cabinet in which the process will be registered. These are introduced to extend the data in the process, beyond the 26 Queue variables that can be defined by a user. Once you import an external database table in a process, then all the columns of that table will be available as variables in the process. While importing the table, the user also has to define a record mapping with the Record Data fields of the system. The external data variables act just like the normal process variables and can be used in rules, data forms, and more.

WorkDesk

Workdesk is the standard Processing Desktop available to the users to manually process workitems in their Queues. It is launched when a workitem is opened from the Process Client. It provides all the necessary functions for processing documents electronically, like check-listing, raising and clearing exceptions, annotating documents, viewing and entering data, taking decision-making actions on the documents, and so on. It is further empowered by features like searching and linking workitems together, referring workitems, and more.