



NewgenONE OmniOMS

Microservices

Developer Guide

Version: 12.0

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Preface

This section provides information about the revision history, about this guide, details on the intended audience, related documents for this guide, and documentation feedback.

Revision history

Revision date	Description
October 2024	Initial publication

About this guide

This developer guide explains the development and integration of NewgenONE OmniOMS Microservices.

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 systems administrators and developers seeking information on the installation, configuration, maintenance, and development of the NewgenONE OmniOMS application. The reader must be responsible for integrating NewgenONE OmniOMS Microservices with another product or platform. The reader must be comfortable with Application Programming Interface (API) signature formats in Extensible Markup Language (XML) and JavaScript Object Notation (JSON) to understand microservices requests and responses. The reader must also know how to call a microservice in Postman client (or similar tools) and a programming language like Java, VB.net, or others.

Related documents

The following documents are related to NewgenONE OmniOMS Microservices Developer Guide:

- NewgenONE OmniOMS Release Notes
- NewgenONE OmniOMS Composition Designer User Guide
- NewgenONE OmniOMS Admin Workspace User Guide
- NewgenONE OmniOMS Communication Editor User Guide

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 OmniOMS Microservices

NewgenONE OmniOMS Microservices are used to perform various actions related to the platform. These actions can range from creating a session for the user to accessing the communications to generate, deliver, and archive the communications and much more.

These microservices offer the following advantages over traditional monolithic architectures using RESTful web services:

- Provide scalability by allowing independent scaling of components based on demand.
- Foster flexibility, and agility by enabling teams to work independently on separate services with diverse technologies.
- Ensure fault isolation to prevent the failure of one service from affecting the entire system, facilitate easy maintenance and upgrades by allowing updates to specific services without disrupting the entire application.
- Optimize resource utilization by deploying services individually.
- Enhance fault tolerance and resilience by decoupling services.

NewgenONE OmniOMS Microservices offer the following services to serve the specific business requirements:

- [OMSSessionManagement Services](#)
- [OMSCommunication Services](#)
- [OMSServiceManager](#)

OMSSessionManagement Service

The *OMSSessionManagement* service provides APIs to establish and terminate a session with NewgenONE OmniOMS.

The service consists of the following APIs:

- [connectCabinet](#)
- [disconnectCabinet](#)

connectCabinet

The *connectCabinet* API allows you to connect to a cabinet. It accepts user credentials for verification and returns *sessionId* on a successful connection.

The following are the API details:

- **Service URL** — *http or https://<IP address>:<Port>/OMSSessionManagement/connectCabinet*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

Case 1: If *OAuth* is enabled

```
{
  "userName": "oms",
  "userPassword": "11spl",
  "connectForcefully": "Y",
  "encrFlag": "N",
  "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
  "sessionExpiryTime": "1440"
}
```

Case 2: If *OAuth* is disabled

```
{
  "userName": "oms",
  "userPassword": "11spl",
  "connectForcefully": "Y",
  "encrFlag": "N"
}
```

Request header details

The following table lists the request header details of the *connectCabinet* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes

Request parameter details

The following table lists the request parameter details of the *connectCabinet* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
userName	Root	String	Refers to the user ID to connect to the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
userPassword	Root	String	Refers to the password corresponding to the user ID. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 64 character	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
connectForcefully	Root	String	Refers to terminate or continue the previously established connection with OmniOMS. - Valid values: - Y — To terminate the previously established connection with OmniOMS and create a new one. - N — To terminate the previously established connection with OmniOMS. - Default values — N - Parameter length — 1 character	Yes
encrFlag	Root	String	It specifies whether to encrypt the password or not. - Valid values: - Y — To encrypt the password. - N — To not encrypt the password. - Default values — N - Parameter length — 1 character	No
passAlgoType	Root	String	Specifies the in-use encryption algorithm. This parameter is dependent on the encrFlag parameter above, it works only when encrFlag is set to Y. - Valid values: 1 — For MD5 encryption algorithm. 2 — For SHA-256 encryption algorithm. 3 — For SHA-512 encryption algorithm. - Default values — 0, the encryption algorithm is not used. - Parameter length — 1 character	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
appId	Root	String	Show the app ID registered by the user.  This parameter is required when <i>Oauth</i> is enabled. - Valid values — Valid app ID - Default values — Not applicable	Yes
sessionExpiryTime	Root	Date Time	Receives the time in minutes from the user in ConnectCabinet API, indicating the user's desired login duration in minutes for the application.  This parameter is required when <i>Oauth</i> is enabled. - Valid values — Valid session expiry time - Default values — Not applicable	Yes

Sample Response

Case 1: If *OAuth* is enabled.

```
{
  "accessDetails": {
    "appId": "2b67b8a0-c784-4989-a474-8967861e4761",
    "sessionValid": "kA+ORWPXcDyyix3YA4hUj//JF7qgfBLrlfn",
    "accessToken": "eyJhbGciOiJIUzUxMiJ9.eyJhcHBzZCI6IjY1Ij0i
  },
  "status": "0"
}
```

Case 1: If *OAuth* is disabled.

```
{
  "sessionId": "Yy1DO2MtQzsvV3NCOmc6Ui1EOzE=",
  "status": "0"
}
```

Response parameter details

The following table lists the response parameter details of the *connectCabinet* API:

Parameter	Parent tag	Description
status	Root	Status of the call. If it is 0, then the call is successful.
description	Root	A brief description of the response message.
sessionId	Root	Refers to the generated session ID.
appId	Root	Shows the app ID registered by the user.
accessToken	Root	Validates a token provided by the user.
sessionValid	Root	Validates the session expiry time.

Error codes

Error code	Message	Description
1	OMS_CONNECT_FAILED	Unable to connect to the server, check logs.
-50127	Invalid Password.	The password specified in the JSON is not correct.
-50006	User account has expired.	User account is expired for the session.
-50010	User not alive.	The user who wants to connect is not alive.
-50125	Cabinet has been locked for administrative purposes.	The cabinet is locked by some other application.
-50110	Insufficient Rights to connect to the Cabinet.	The user has no rights to access the cabinet. The user must at least have read rights on the cabinet.
-50141	User is not allowed to connect.	The user cannot connect to the cabinet, because a user with the same host name and connection ID already exists in the cabinet.
-50003	User does not exist.	The username with which the connection is requested does not exist in the system.

Error code	Message	Description
-50338	You have provided wrong value of Appld. Please check it	Check the value of Appld.
-1000	You have provided wrong value of Appld , please check it.	Check the value of Appld.

disconnectCabinet

The *disconnectCabinet* API allows you to end the session in the cabinet. It requires *sessionId* and *cabinetName* as inputs and provides the corresponding status upon completion.

The following are the API details:

- **Service URL** — *http or https://<IP address>:<Port>/OMSSessionManagement/disconnectCabinet*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*



In case *OAuth* is enabled, send only the *appld*, *accessToken*, and *sessionValid*; do not include the *sessionId*. However, if *OAuth* is disabled, include only the *sessionId* in the header.

Sample request

It contains header data.

Request header details

The following table lists the request header details of the *disconnectCabinet* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Sample response

```
{
  "status": "0",
  "description": "Success"
}
```

Response parameter details

The following table lists the response parameter details of the *disconnectCabinet* API:

Parameter	Parent tag	Description
status	Root	Status of the call. If it is 0, then the call is successful.
description	Root	A brief description of the response message.

Error codes

Error code	Message	Description
1	OMS_CONNECT_FAILED	Unable to connect to the server, check logs.
-50146	OMS_INVALID_SESSION_HANDLE	It refers to the invalid session.

OMSCommunication Services

The *OMSCommunication* service offers a set of APIs facilitating integration with external components to generate documents and send communications through NewgenONE OmniOMS.

The service consists of the following APIs:

- [processUsingDB](#)
- [processUsingXML](#)
- [processUsingJSON](#)
- [Retry](#)
- [Jobautoapproval](#)
- [asyncJobRetry](#)



- In case *OAuth* is enabled, send only the *appld*, *accessToken*, and *sessionValid*; do not include the *sessionId*. However, if *OAuth* is disabled, include only the *sessionId* in the header.
- Cloud storage is mandatory for report generation in microservices like Amazon S3 or Azure Blob Storage; otherwise, report generation fails.

processUsingDB

The *processUsingDB* API generates documents using a dataset from a database.

The following are the API details:

- **Service URL** — *http or https://<IP address>:<Port>/OMSCommunicationService/processUsingDB*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

```
{
  "attachmentsLocation": "",
  "channelName": "OUTLOOK",
  "communicationId": "",
  "doArchive": "S",
  "encodedPDFRequired": "",
  "fileName": "DBgeneration",
  "filePath": "Generation/DB",
  "masterKey": "1",
  "productName": "PRINT1",
  "reportVersion": "2",
  "saveClientData": "Y",
  "sendMail": "N",
  "sendMessage": "N",
  "sendWhatsapp": "N",
  "sendFacebook": "N",
  "sendTwitter": "N",
  "skipApproval": "Y",
  "skipEditing": "Y"
}
```

Request header details

The following table lists the request header details of the *processUsingDB* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *processUsingDB* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
attachmentsLocation	Root	String	It refers to the file path of the external document that must be sent as an additional attachment in the email. • Valid values — Not applicable • Default values — Not applicable • Parameter length — 100 character	No
communicationId	Root	String	It refers to the unique communication ID for the specific transaction. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Positive integer up to 999999999	No
doArchive	Root	String	It enables or disables the document archival. • Valid values: ◦ Y — If the document must be queued for archival. ◦ N — If archival is not required. ◦ S — For synchronous archival. • Default values — Not applicable • Parameter length — 1 character	Yes
productName	Root	String	It is unique for each on-demand XML dataset for the template. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Up to 250 characters	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
encodedPDFRequired	Root	String	It enables or disables the PDF encoding. - Valid values: - Y — The document is returned as a binary string but is Base64 encoded. - N — No binary form of the generated document is provided. - Default values — Not applicable - Parameter length — 1 character	No
fileName	Root	String	It refers to the name with which the generated files are stored. If no input is provided, a random name is assigned. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 200 characters	No
filePath	Root	String	It refers to the file location where the document needs to be generated. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 500 characters	No
masterKey	Root	String	It refers to the user's ID or Primary Key for whom the document must be generated; this value serves to distinguish users. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 50 characters	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
reportVersion	Root	String	It refers to using a recently baselined layout of the document by default or, if not provided. For a specific layout, the version must be provided. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Integer values up to 999	No
sendMail	Root	String	It refers to both Mail and SMS processes. This tag is used based on the report type of the product name passed. • Valid values: ◦ Y — If the document must be queued for sending mail or SMS. ◦ N — If the document is not required. ◦ S — For Synchronous email delivery. • Default values — Not applicable • Parameter length — 1 character	Yes
sendWhatsapp	Root	String	It enables or disables the WhatsApp messages. • Valid values: ◦ Y — If the document is to be queued for sending WhatsApp messages. ◦ N — If the document is not required. ◦ S — For synchronous WhatsApp delivery. • Default values — Not applicable • Parameter length — 1 character	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
sendMessage	Root	String	It enables or disables the messages. - Valid values: - Y — If the document is to be queued for sending messages. - N — If the document is not required. - S — For synchronous message delivery. - Default values — Not applicable - Parameter length — 1 character	Yes
sendFacebook	Root	String	Used for Facebook DM/POST. - Valid values: - Y — If the document is to be queued for sending facebook messages. - N — If the document is not required. - S — For synchronous facebook delivery. - Default values — Not applicable - Parameter length — 1 character	No
sendTwitter	Root	String	Used for Twitter DM/POST. - Valid values: - Y — If the document is to be queued for sending twitter messages. - N — If the document is not required. - S — For synchronous twitter delivery. - Default values — Not applicable - Parameter length — 1 character	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
channelName	Root	String	It refers to the channel name for delivering the report synchronously in the case of synchronous communications. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Upto 32 characters	No
saveClientData	Root	String	It specifies whether to save client data or not. • Valid values: ◦ Y — If the <code>xmlData</code> is provided into the <code>inputDataXML</code> column of the <code>omsJobQueueItems</code> table. ◦ N — If you want to store user input XML in the database. • Default values — Not applicable • Parameter length — 1 character	No
skipApproval	Root	String	It is useful only for the interactive editor flow. • Valid values: ◦ Y — If the document does not require the maker-checker process. ◦ N — If the document requires through the maker-checker process. • Default values — Not applicable • Parameter length — 1 character	Yes
skipEditing	Root	String	It is useful only for interactive editor flow. • Valid values: ◦ Y — If editing is allowed on the generated document. ◦ N — If editing is not allowed on the generated document. • Default values — Not applicable • Parameter length — 1 character	Yes

Sample response

```
{
  "communicationId": "",
  "description": "",
  "encodedFileData": "",
  "filePathName": "Generation/DB/DBgeneration_116956.pdf",
  "latestBaselinedVersion": "",
  "mailBodyPathName": "",
  "requestId": 116956,
  "status": 0,
  "archivalDescription": "Success",
  "archivalDetails": {
    "documentName": "fdgjksdhjk",
    "documentIndex": 3,
    "volumeIndex": 4,
    "imageIndex": 10
  },
  "synchronousDelivery": {
    "messageStatus": "",
    "whatsappStatus": "",
    "mailStatus": "Success",
    "twitterStatus": "",
    "facebookStatus": ""
  }
}
```

Response parameter details

The following table lists the response parameter details of the *processUsingDB* API:

Parameter	Parent tag	Description
status	Root	Status of the call. If it is 0, then the call is successful.
filePathName	Root	A brief description of the response message.
mailBodyPathName	Root	It refers to the absolute path of the <i>.html</i> file containing the message intended for the end-user.
latestBaselinedVersion	Root	It refers to the document generation from the latest base-lined layout.
encodedFileData	Root	It refers to the Base64 encoded binary form of the generated document.
requestId	Root	It refers to every generation request, a unique ID generated by CCM.
description	Root	It provides the description corresponding to status, whether the request was processed successfully or not.
communicationId	Root	It refers to the same communication ID that has passed in the input.
archivalDescription	Root	It refers to <i>Failed</i> for failure and <i>Success</i> for successful archival cases.
archivalDetails	Root	This tag returns <i>document name</i> , <i>volumeIndex</i> , <i>documentIndex</i> , and <i>ImageIndex</i> values.
documentIndex	archivalDetails	It refers to the <i>DocumentIndex</i> of the archived document.
documentName	archivalDetails	It refers to the name of the archived document.
imageIndex	archivalDetails	It refers to the <i>ImageIndex</i> of the archived document.

Parameter	Parent tag	Description
volumeIndex	archivalDetails	It refers to the <i>volumeIndex</i> of the archived document.
synchronousDelivery	Root	It contains <i>MessageStatus</i> , <i>WhatsappStatus</i> , and <i>mailStatus</i> .
MessageStatus	synchronousDelivery	It refers to the delivery status of the document when <i>sendMessage</i> is set to <i>S</i> in the request.
WhatsappStatus	synchronousDelivery	It refers to the delivery status of the document when <i>sendWhatsapp</i> is set to <i>S</i> in the request.
mailStatus	synchronousDelivery	It refers to the delivery status of the document when <i>sendMail</i> is set to <i>S</i> in the request.
twitterStatus	synchronousDelivery	It refers to the delivery status of the document when <i>twitterStatus</i> is set to <i>S</i> in the request.
facebookStatus	synchronousDelivery	It refers to the delivery status of the document when <i>facebookStatus</i> is set to <i>S</i> in the request.

Error codes

Error code	Message	Description
1027	OMS_PRODUCTNAME_MSG	It refers invalid product name.
1029	OMS_DOCUMENT_GENERATION_FAILED_MSG	Document generation failed. Document type for the given product name is not supported.
1028	OMS_ONDEMAND_GEN_MSG	Either OnDemand Job is not specified for the ProductName, or details for the concerned operation (mail or archival) are incomplete.
1012	OMS_STMT_OBJECT_POOL_MSG	The server is busy and unable to provide a statement object.
-50146	OMS_INVALID_SESSION_HANDLE	It refers to the invalid session.
1034	OMS_SYNCHRONOUS_FAILED_MSG	Synchronous archival works only for generation cases.
1035	OMS_DMSTYPE_FAILED_MSG	Synchronous archival do not works for other DMS cases.

Error code	Message	Description
-1011	CabinetName not found	It refers to the invalid cabinet name.
1067	Channel Details Not Found	The channel details are unavailable for the specified <i>channelName</i> input.

processUsingXML

The *processUsingXML* API generates documents that are based on an XML dataset.

The following are the API details:

- **Service URL** — *http or https://<IP address>:<Port>/OMSCommunicationService/processUsingXML*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

```
{
  "attachmentsLocation": "",
  "doArchive": "Y",
  "encodedPDFRequired": "N",
  "fileName": "PDF_MAIL",
  "filePath": "PDF_MAIL",
  "productName": "MAIL",
  "reportVersion": "2",
  "sendMail": "S",
  "skipApproval": "Y",
  "skipEditing": "Y",
  "saveClientData": "N",
  "xmlData": "<SampleData><Field1>Hello</Field1><Field2>123</Field2><Field3>true</Field3><Field4>2024-01-17</Field4><Field5>3.14</Field5><Field6>World</Field6><Field7>42</Field7><Field8>false</Field8><Field9>2023-05-08</Field9><Field10>2.71828</Field10></SampleData>",
  "sendWhatsapp": "N",
  "sendMessage": "N",
  "sendFacebook": "N",
  "sendTwitter": "N",
}
```

```
"channelName": "TestChannel"
}
```

Request header details

The following table lists the request header details of the *processUsingXML* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *processUsingXML* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
attachmentsLocation	Root	String	It refers to the file path of the external document that must be sent as an additional attachment in the email. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 100 character	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
communicationId	Root	String	It refers to the unique communication ID for the specific transaction. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Positive integers up to 999999999	No
xmlData	Root	String	It passes the user data in the HTML format for which the document must be generated. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes
doArchive	Root	String	It enables or disables the document archival. - Valid values: - Y — If the document must be queued for archival. - N — If archival is not required. - S — For synchronous archival. - Default values — Not applicable - Parameter length — 1 character	Yes
productName	Root	String	It is unique for each on-demand XML dataset for the template. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 250 characters	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
encodedPDFRequired	Root	String	It enables or disables the PDF encoding. - Valid values: - Y — The document is returned as a binary string but is Base64 encoded. - N — No binary form of the generated document is provided. - Default values — Not applicable - Parameter length — 1 character	No
fileName	Root	String	It refers to the name with which the generated files are stored. If no input is provided, a random name is assigned. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 200 characters	No
filePath	Root	String	It refers to the file location where the document needs to be generated. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 500 characters	No
reportVersion	Root	String	It refers to using a recently baselined layout of the document by default or, if not provided. For a specific layout, the version must be provided. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Integer values up to 999	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
sendMail	Root	String	It refers to both Mail and SMS processes, this tag is used based on the report type of the product name passed. - Valid values: - Y — If the document is to be queued for sending mail or SMS. - N — If the document is not required. - S — For Synchronous email delivery. - Default values — Not applicable - Parameter length — 1 character	Yes
sendWhatsapp	Root	String	It enables or disables the WhatsApp messages. - Valid values: - Y — If the document is to be queued for sending WhatsApp messages. - N — If the documents are not required. - S — For synchronous WhatsApp delivery. - Default values — Not applicable - Parameter length — 1 character	Yes
sendMessage	Root	String	It enables or disables the messages. - Valid values: - Y — If the document is to be queued for sending messages. - N — If the documents are not required. - S — For synchronous message delivery. - Default values — Not applicable - Parameter length — 1 character	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
sendFacebook	Root	String	Used for Facebook DM/POST. - Valid values: - Y — If the document is to be queued for sending facebook messages. - N — If the document is not required. - S — For synchronous facebook delivery. - Default values — Not applicable - Parameter length — 1 character	No
sendTwitter	Root	String	Used for Twitter DM/POST. - Valid values: - Y — If the document is to be queued for sending twitter messages. - N — If the document is not required. - S — For synchronous twitter delivery. - Default values — Not applicable - Parameter length — 1 character	No
channelName	Root	String	It refers to the name of the channel to be used for the synchronous delivery of the report in the case of synchronous communications. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 32 characters	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
saveClientData	Root	String	It enables or disables the client data. - Valid values: - Y — If the xmlData is provided into the inputDataXML column of the omsJobQueueItems table. - N — If you want to store user input XML in the database. - Default values — Not applicable - Parameter length — 1 character	No
skipApproval	Root	String	It is useful only for interactive editor flow. - Valid values: - Y — If the document does not need to go through the maker-checker process. - N — If the document needs to go through the maker-checker process. - Default values — Not applicable - Parameter length — 1 character	Yes
skipEditing	Root	String	It is useful only for interactive editor flow. - Valid values: - Y — If the document is not allowed for further editing after generation. - N — If the document is allowed to go through editing after generation. - Default values — Not applicable - Parameter length — 1 character	Yes

Sample response

```
{
  "status": 0,
  "filePathName": "PDF_MAIL/PDF_MAIL_14587.pdf",
  "mailBodyPathName": "PDF_MAIL/PDF_MAIL_14587.html",
  "latestBaselinedVersion": "N",
  "transactionId": "0",
  "encodedFileData": "",
  "encodedMailBodyData": "",
  "requestId": "14587",
  "description": "",
  "encodedDocxData": "",
  "communicationId": "",
  "archivalDescription": "",
  "archivalDetails": {
    "documentIndex": 0,
    "documentName": "",
    "imageIndex": 0,
    "volumeIndex": 0
  },
  "mainCode": 0,
  "synchronousDelivery": {
    "messageStatus": "",
    "whatsappStatus": "",
    "mailStatus": "Success",
    "twitterStatus": "",
    "facebookStatus": ""
  }
}
```

Response parameter details

The following table lists the response parameter details of the *processUsingXML* API:

Parameter	Parent tag	Description
status	Root	Status of the call. If it is 0, then the call is successful.
filePathName	Root	The absolute path of the generated document(non-HTML).

Parameter	Parent tag	Description
mailBodyPathName	Root	It refers to the absolute path of the <i>.html</i> file, which has the message that is communicated to the end-user.
latestBaselinedVersion	Root	It refers to the document generation from the latest base-lined layout.
transactionId	Root	It returns a numeric ID of the generated document for contract and letter only.
encodedFileData	Root	It refers to the Base64 encoded binary-form of the generated PDF document (non-HTML).
encodedMailBodyData	Root	It refers to the Base64 encoded binary-form of the generated document (HTML only).
requestId	Root	It refers to every generation request, a unique ID is generated by CCM.
description	Root	It provides the description corresponding to status, whether the request was processed successfully or not.
encodedDocxData	Root	It refers to the Base64 encoded binary-form of generated docx document (non-HTML).
communicationId	Root	It refers to the same communication ID that has passed in the input.
archivalDescription	Root	It refers to <i>Failed</i> for failure cases, <i>Success</i> for successful archival cases.
archivalDetails	Root	This tag returns <i>document name</i> , <i>volumeIndex</i> , <i>documentIndex</i> , and <i>imageIndex</i> values.
documentIndex	archivalDetails	It refers to the <i>DocumentIndex</i> of the archived document.
documentName	archivalDetails	It refers to the name of the archived document
imageIndex	archivalDetails	It refers to the <i>ImageIndex</i> of the archived document.
volumeIndex	archivalDetails	It refers to the <i>volumeIndex</i> of the archived document.

Parameter	Parent tag	Description
synchronousDelivery	Root	It contains <i>MessageStatus</i> , <i>WhatsappStatus</i> , and <i>mailStatus</i> .
MessageStatus	synchronousDelivery	It refers to the status of delivery of the document when <i>sendMessage</i> is set to S in the request.
WhatsappStatus	synchronousDelivery	It refers to the status of delivery of the document when <i>sendWhatsapp</i> is set to S in the request.
mailStatus	synchronousDelivery	It refers to the status of delivery of the document when <i>sendMail</i> is set to S in the request.
twitterStatus	synchronousDelivery	It refers to the delivery status of the document when <i>twitterStatus</i> is set to S in the request.
facebookStatus	synchronousDelivery	It refers to the delivery status of the document when <i>facebookStatus</i> is set to S in the request.

Error codes

Error code	Message	Description
1027	OMS_PRODUCTNAME_MSG	It refers invalid product name.
1029	OMS_DOCUMENT_GENERATION_FAILED_MSG	Document generation failed. Document type for the given product name is not supported.
1028	OMS_ONDEMAND_GEN_MSG	Either OnDemand Job is not specified for the ProductName, or details for the concerned operation(mail or archival) are incomplete.
1012	OMS_STMT_OBJECT_POOL_MSG	The server is busy and unable to provide a Statement object.
-50146	OMS_INVALID_SESSION_HANDLE	It refers to the invalid Session.
1034	OMS_SYNCHRONOUS_FAILED_MSG	Synchronous archival works only for generation cases.

Error code	Message	Description
1035	OMS_DMSTYPE_FAILED_MSG	Synchronous archival does not work for other dms cases.
-1011	CabinetName not found	It refers to the invalid cabinet name.
1067	Channel Details Not Found	Channel details not found for provided channelName input.

processUsingJSON

The *processUsingJSON* API generates documents that are based on a JSON dataset.

The following are the API details:

- **Service URL** — *http or https://<IP address>:<Port>/OMSCommunicationService/processUsingJSON*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

```
{
  "attachmentsLocation": "",
  "doArchive": "Y",
  "encodedPDFRequired": "N",
  "fileName": "PDF_MAIL",
  "filePath": "PDF_MAIL",
  "productName": "MAIL_JSON",
  "reportVersion": "1",
  "sendMail": "S",
  "skipApproval": "Y",
  "skipEditing": "Y",
  "jsonData": "{ \"SampleData\":
  {\"Field1\":\"Hello\",\"Field2\":123,\"Field3\":true,\"Field4\":\"2024-0117\",\"Field5\":3.14,\"Field6\"
  :\"World\",\"Field7\":42,\"Field8\":
  false,
```

```

"Field9": "2023-05-08", "Field10": 2.71828}}",
"sendWhatsapp": "N",
"sendMessage": "N",
"sendFacebook": "N",
"sendTwitter": "N",
"channelName": "TestChannel"
}

```

Request header details

The following table lists the request header details of the *processUsingJSON* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *processUsingJSON* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
attachmentsLocation	Root	String	It refers to the file path of the external document that must be sent as an additional attachment in the email. • Valid values — Not applicable • Default values — Not applicable • Parameter length — 100 character	No
communicationId	Root	String	It refers to the unique communication ID for the specific transaction. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Positive integers up to 999999999	No
jsonData	Root	String	It passes user data in JSON format for document generation. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Not applicable	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
doArchive	Root	String	It enables or disables the document archival. - Valid values: - Y — If the document must be queued for archival. - N — If archival is not required. - S — For synchronous archival. - Default values — Not applicable - Parameter length — 1 character	Yes
productName	Root	String	It is unique for each on-demand XML dataset for the template. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 250 characters	Yes
encodedPDFRequired	Root	String	It enables or disables the PDF encoding. - Valid values: - Y — The document will be returned as a binary string but will be Base64 encoded. - N — No binary form of the generated document will be provided. - Default values — Not applicable - Parameter length — 1 character	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
fileName	Root	String	It refers to the name with which the generated files are stored. If no input is provided, a random name is assigned. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Up to 200 characters	No
filePath	Root	String	It refers to the file location where the document needs to be generated. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Up to 500 characters	No
reportVersion	Root	String	It refers to using a recently baselined layout of the document by default or, if not provided. For a specific layout, the version must be provided. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Integer values up to 999	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
sendMail	Root	String	It refers to both Mail and SMS processes, this tag is used based on the report type of the product name passed. - Valid values: - Y — If the document must be queued for sending mail or SMS. - N — If the document is not required. - S — For Synchronous email delivery. - Default values — Not applicable - Parameter length — 1 character	Yes
sendWhatsapp	Root	String	It enables or disables the WhatsApp messages. - Valid values: - Y — If the document must be queued for sending WhatsApp messages. - N — If the documents are not required. - S — For synchronous WhatsApp delivery. - Default values — Not applicable - Parameter length — 1 character	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
sendMessage	Root	String	It enables or disables the messages. - Valid values: - Y — If the document must be queued for sending messages. - N — If the documents are not required. - S — For synchronous message delivery. - Default values — Not applicable - Parameter length — 1 character	Yes
sendFacebook	Root	String	Used for Facebook DM/POST. - Valid values: - Y — If the document is to be queued for sending facebook messages. - N — If the document is not required. - S — For synchronous facebook delivery. - Default values — Not applicable - Parameter length — 1 character	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
sendTwitter	Root	String	Used for Twitter DM/POST. - Valid values: - Y — If the document is to be queued for sending twitter messages. - N — If the document is not required. - S — For synchronous twitter delivery. - Default values — Not applicable - Parameter length — 1 character	No
channelName	Root	String	It refers to the name of the channel to be used for the synchronous delivery of the report in the case of synchronous communications. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 32 characters	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
saveClientData	Root	String	It enables or disables the client data. - Valid values: - Y — If the xmlData is provided into the inputDataXML column of the omsJobQueueItems table. - N — If you want to store user input XML in the database. - Default values — Not applicable - Parameter length — 1 character	No
skipApproval	Root	String	It is useful only for interactive editor flow. - Valid values: - Y — If the document does not need to go through the maker-checker process. - N — If the document needs to go through the maker-checker process. - Default values — Not applicable - Parameter length — 1 character	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
skipEditing	Root	String	It is useful only for interactive editor flow. - Valid values: - Y — If the document is not allowed for further editing after generation. - N — If the document is allowed to go through editing after generation. - Default values — Not applicable - Parameter length — 1 character	Yes

Sample response

```
{
  "status": 0,
  "filePathName": "PDF_MAIL/PDF_MAIL_213.pdf",
  "mailBodyPathName": "PDF_MAIL/PDF_MAIL_213.html",
  "latestBaselinedVersion": "N",
  "transactionId": "0",
  "encodedFileData": "",
  "encodedMailBodyData": "",
  "requestId": "213",
  "description": "",
  "encodedDocxData": "",
  "communicationId": "",
  "archivalDescription": "",
  "archivalDetails": {
    "documentIndex": 0,
    "documentName": "",
    "imageIndex": 0,
    "volumeIndex": 0
  },
  "mainCode": 0,
  "synchronousDelivery": {
    "messageStatus": "",
    "whatsappStatus": "",
    "mailStatus": "Success",
  }
}
```

```

    "twitterStatus": "",
    "facebookStatus": ""
  }
}

```

Response parameter details

The following table lists the response parameter details of the *processUsingJSON* API:

Parameter	Parent tag	Description
status	Root	Status of the call. If it is 0, then the call is successful.
filePathName	Root	The absolute path of the generated document (non-HTML).
mailBodyPathName	Root	It refers to the absolute path of the <i>.html</i> file, which has the message that will be communicated to the end-user.
latestBaselinedVersion	Root	It refers to the document generation from the latest base-lined layout.
transactionId	Root	It returns a numeric ID of the generated document for contract and letter only.
encodedFileData	Root	It refers to the Base64 encoded binary-form of the generated PDF document (non-HTML).
encodedMailBodyData	Root	It refers to the Base64 encoded binary-form of the generated document (HTML only).
requestId	Root	It refers to every generation request, a unique ID is generated by CCM.
description	Root	It provides the description corresponding to status, whether the request was processed successfully or not.
encodedDocxData	Root	It refers to the Base64 encoded binary-form of generated docx document (non-HTML).
communicationId	Root	It refers to the same communication ID that has passed in the input.

Parameter	Parent tag	Description
archivalDescription	Root	It refers to <i>Failed</i> for failure cases, <i>Success</i> for successful archival cases.
archivalDetails	Root	This tag will return <i>document name</i> , <i>volumeIndex</i> , <i>documentIndex</i> , and <i>ImageIndex</i> values.
documentIndex	archivalDetails	It refers to the <i>DocumentIndex</i> of the archived document.
documentName	archivalDetails	It refers to the name of the archived document
imageIndex	archivalDetails	It refers to the <i>ImageIndex</i> of the archived document.
volumeIndex	archivalDetails	It refers to the <i>volumeIndex</i> of the archived document.
synchronousDelivery	Root	It contains <i>MessageStatus</i> , <i>WhatsappStatus</i> , and <i>mailStatus</i> .
MessageStatus	synchronousDelivery	It refers to the status of delivery of the document when <i>sendmessage</i> is set to <i>S</i> in the request.
WhatsappStatus	synchronousDelivery	It refers to the status of delivery of the document when <i>sendWhatsapp</i> is set to <i>S</i> in the request.
mailStatus	synchronousDelivery	It refers to the status of delivery of the document when <i>sendMail</i> is set to <i>S</i> in the request.
twitterStatus	synchronousDelivery	It refers to the delivery status of the document when <i>twitterStatus</i> is set to <i>S</i> in the request.
facebookStatus	synchronousDelivery	It refers to the delivery status of the document when <i>facebookStatus</i> is set to <i>S</i> in the request.

Error codes

Error code	Message	Description
1027	OMS_PRODUCTNAME_MSG	It refers invalid product name.
1029	OMS_DOCUMENT_GENERATION_FAILED_MSG	Document generation failed. Document type for the given product name is not supported.

Error code	Message	Description
1028	OMS_ONDEMAND_GEN_MSG	Either OnDemand Job is not specified for the ProductName, or details for the concerned operation(mail or archival) are incomplete.
1012	OMS_STMT_OBJECT_POOL_MSG	The server is busy and unable to provide a Statement object.
-50146	OMS_INVALID_SESSION_HANDLE	It refers to the invalid Session.
1034	OMS_SYNCHRONOUS_FAILED_MSG	Synchronous archival works only for generation cases.
1035	OMS_DMSTYPE_FAILED_MSG	Synchronous archival does not work for other dms cases.
-1011	CabinetName not found	It refers to the invalid cabinet name.
1067	Channel Details Not Found	Channel details not found for provided channelName input.

Retry

The *Retry* API is used to retry the synchronous communication or archival for the given request ID or given product name.

The following are the API details:

- **Service URL** — *http or https://<IP address>:<Port>/OMSCommunicationService/retry*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

Case 1

```
{
  "requestId" : "324",
  "channelName" : "CON11"
}
```

Case 2

```
{
  "requestId" : "",
  "productName" : "CON11",
  "dateFrom" : "2024-01-10 10:59:31",
  "dateTo" : "2024-01-10 10:59:32",
  "callbackUrl" : "http://localhost:8083/OMSProducer/callback",
  "channelName" : "OUTLOOK"
}
```

Request header details

The following table lists the request header details of the *Retry* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. • Valid values — Not applicable • Default values — Not applicable • Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *Retry* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
requestId	Root	String	It refers request ID of the record to retry. - Valid values — Not applicable - Default values — Not applicable - Parameter length — All positive integers up to 999999999	Yes
channelName	Root	String	It refers name of the channel used to retry (Required for mail or whatsapp delivery, other cases can have it empty). - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 32 characters	Yes
productName	Root	String	It refers to the product name of the record to retry. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 250 characters	No
dateFrom	Root	String	It refers to the date from which the record is picked for retry. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 19 characters	No
dateTo	Root	String	It refers to the date till which the record is picked for retry. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 19 characters	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
callBackUrl	Root	String	It refers to the custom URL provided by the client to get the status of retry records. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Valid URL length	No

Sample response

Case 1

```
{
  "description": "Communication : Success , Archival : Success",
  "status": "0"
}
```

Case 2

```
{
  "description": "Delivery process has been initiated. Kindly check status in callBackUrl",
  "status": "0"
}
```

Response parameter details

The following table lists the response parameter details of the *Retry* API:

Parameter	Parent tag	Description
status	Root	Status of the call. If it is 0, then the call is successful.
description	Root	It describes the response message.

Error codes

Error code	Message	Description
-1	OMS_SYNCHRONOUS_FAILED_MSG	It refers to the errors that occurred, check the logs.
5001	OMS_COMMUNICATION_FAIL	It refers to communication failure.
5002	OMS_ARCHIVAL_FAIL	It refers to a failure in delivering archival content.
5003	OMS_COMMUNICATION_SUCCESS_ARCHIVAL_FAIL	It refers to successful communication but unsuccessful archival delivery.
5004	OMS_COMMUNICATION_FAIL_ARCHIVAL_FAIL	It refers to failures in both communication and archival deliveries.
5005	ChannelName not found	It refers that the channel details are not found.
5006	Data not Found for retry	It refers to the failure to find data for the provided <i>requestID</i> .
-50146	OMS_INVALID_SESSION_HANDLE	It refers to the invalid session.

Jobautoapproval

The *JobAutoApproval* API is used for spooling the cycle instance and approving it without logging into the OMS Admin Workspace.

The following are the API details:

- **Service URL** — *http or https://<IP address>:<Port>/OMSJobAutoApproval/approveJob*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

```
{
  "communicationId": "20",
  "cycleName": "schedule10july",
  "filterCondition": "",
  "instanceId": "2024-10-02 00:00:00.000",
  "jobName": "letbatchjob",
  "jobType": "P"
}
```

Request header details

The following table lists the request header details of the *Jobautoapproval* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *Jobautoapproval* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
communicationId	Root	String	Unique communication ID for the specific transaction. • Valid values — Not applicable • Default values — 0 • Parameter length — All positive integers up to 9999999999	No
cycleName	Root	String	Name of the cycle, in which the mentioned job is present. • Valid values — Provide a valid cycle name. • Default values — Provide a valid cycle name. • Parameter length — Up to 250 characters	Yes
filterCondition	Root	String	if applied then based upon this filter condition, records will be processed. • Valid values — Not applicable • Default values — Not applicable • Parameter length — Up to 250 characters	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
communicationId	Root	String	Unique communication ID for the specific transaction. • Valid values — Not applicable • Default values — 0 • Parameter length — All positive integers up to 999999999	No
instanceId	Root	String	Instance ID specified the date on which job instance is created. The format of id is 'YYYY-MM-DD 00:00:00'. • Valid values — Provide a valid instance ID • Default values — Provide a valid instance ID • Parameter length — Up to 23 characters	Yes
jobName	Root	String	As the name suggests, the name of the job to be approved. • Valid values — Provide a valid job name. • Default values — Provide a valid job name. • Parameter length — Up to 250 characters	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
communicationId	Root	String	Unique communication ID for the specific transaction. • Valid values — Not applicable • Default values — 0 • Parameter length — All positive integers up to 999999999	No
jobType	Root	String	It refers to the type of the job. P - for print job. M - for mail job. T - for text job. W – for WhatsApp job. • Valid values — Provide a valid job type. • Default values — Provide a valid job type. • Parameter length — Up to 250 characters.	Yes

Sample response

```
{
  "jobSpoolId": "14",
  "status": "0",
  "description": "Success",
  "communicationId": "21"
}
```

Response parameter details

The following table lists the response parameter details of the *Jobautoapproval* API:

Parameter	Parent tag	Description
description	Root	It provides the description corresponding to the status, whether the request was processed successfully or not.
communicationId	Root	It refers to the same communication ID that has passed in the input.
jobSpoolId	Root	Every spooled job instance is given an ID in OmniOMS. This ID is related to the instance id.
status	Root	Code to ensure whether the request is processed successfully or not. • 0 — successfully generated. • Non-Zero — Some error occurred while processing the request.

Error codes

Error code	Message	Description
400	Duplicate Communication Id	It refers to duplicate communication id
804	Cycle Name provided does not exists.	The cycle Name provided does not exist.
804	InstanceId provided corresponding to cycle name does not exists.	The InstanceId provided corresponding to the cycle name does not exist.
-50146	OMS_INVALID_SESSION_HANDLE	It refers to the invalid session.

asyncJobRetry

The *asyncJobRetry* API is used to retry the failed communication of an instance of a job in a particular schedule.

The following are the API details:

- **Service URL** — *https://<IP address>:<Port>/OMSCommunicationService/asyncJobRetry*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

Case 1: For Batch Schedule

```
{
  "ScheduleName": "sc1",
  "InstanceDate": "2024-09-10",
  "JobName": "pjob"
}
```

Case 2: For OnDemand Schedule

```
{
  "ScheduleName": " OnDemandSchedule",
  "DateFrom": "2024-09-10",
  "DateTo": "2024-09-15"
}
```



In case of an OnDemand asyncJobRetry, the system retries for all the jobs.

Request header details

The following table lists the request header details of the *asyncJobRetry* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

Parameter	Parent tag	Parameter data type	Description	Mandatory
ScheduleName	Root	String	Name of the schedule created using <i>OmniOMS Admin Workspace</i> . - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 250 characters	Yes
InstanceDate	Root	String	InstanceDate is the date on which the instance of a batch is processed. ⓘ It is a mandatory input parameter for retrying with batch schedules. - Valid values — YYYY-MM-dd - Default values — Not applicable - Parameter length — Up to 250 characters	No

Parameter	Parent tag	Parameter data type	Description	Mandatory
JobName	Root	String	JobName is the name of the batch job associated with the schedule. i It is a mandatory input parameter for retrying with batch schedules. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Up to 250 characters	No
DateFrom	Root	String	DateFrom is used to filter the onDemand failed communications It acts as a lower bound for the date range. i It is a mandatory input parameter for retry with on-Demand Schedule. - Valid values — YYYY-MM-dd - Default values — Not applicable - Parameter length — Up to 250 characters	No
DateTo	Root	String	DateTo is used to filter the onDemand failed communications It acts as an upper bound for the date range. i It is a mandatory input parameter for retry with on-Demand Schedule. - Valid values — YYYY-MM-dd - Default values — Not applicable - Parameter length — Up to 250 characters	No

Sample response

```
{
  "Descr": "Success",
  "status": "0"
}
```

Response parameter details

The following table lists the response parameter details of the *asyncJobRetry* API:

Parameter	Parent tag	Description
status	Root	Status of the call. If it is 0, then the call is successful.
description	Root	It describes the response message.

Error codes

Error code	Message	Description
- 1011	Cabinet Not Found	The system cannot locate the specified cabinet.
541	Invalid input parameters	The system receives invalid input parameters.
-50146	Invalid session.	The session is invalid.
400	Some error occurred , Please check the logs	An error occurs; check the logs for more details.

OMSServiceManager

The OMSServiceManager service offers a set of APIs facilitating integration with external components to start and stop the OMS Asynchronous services registered under the Microservices section within the Admin Workspace through NewgenONE OmniOMS.

The service consists of the following APIs:

- [StartService](#)
- [StopService](#)
- [FetchServiceDetails](#)
- [UpdateServiceCount](#)



In case *OAuth* is enabled, send only the *appId*, *accessToken*, and *sessionValid*; do not include the *sessionId*. However, if *OAuth* is disabled, include only the *sessionId* in the header.

StartService

The *StartService* API is used to start the OMS Asynchronous services registered under the Microservices section within Admin Workspace.

The following are the API details:

- **Service URL** — *https://<IP address>:<Port>/OMSServiceManager/startService*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

```
{
  "ServiceIds": [
    {
      "id": "34"
    }
  ],
  "
```

```
"ServiceCount": 1
}
```

Request header details

The following table lists the request header details of the *StartService* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *StartService* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
ServiceIds	Root	String	Unique service ID for the specific service to start. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
ServiceCount	Root	Integer	Number of asynchronous calls to be updated for each services. - Valid values — Not applicable - Default values — 0 - Parameter length — 99	Yes

Sample response

```
{
  "FailedServiceID": [],
  "Descr": null,
  "MainCode": 0,
  "Error": "false"
}
```

Response parameter details

The following table lists the response parameter details of the *StartService* API:

Parameter	Parent tag	Description
FailedServiceID	Root	List of failed services.
Descr	Root	Displays "Services Started" if the services start successfully; otherwise, displays an error description.
MainCode	Root	A value of 0 indicates a successful call; otherwise, an error code is displayed.
Error	Root	True or false.

Error codes

Error code	Message	Description
-1011	CabinetName not found	It refers to the invalid cabinet name.

Error code	Message	Description
541	Invalid input parameters	Invalid input parameters.
105	Invalid Request	Invalid request.
400	Operation Failed	Message with reason for service failure.

StopService

The *StopService* API is used to stop the running OMS Asynchronous Services registered under the Microservices section within Admin Workspace.

The following are the API details:

- **Service URL** — *https://<IP address>:<Port>/OMSServiceManager/stopService*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

```
{
  "ServiceIds": [
    {
      "id": "34"
    }
  ],
  "ServiceCount": 1
}
```

Request header details

The following table lists the request header details of the *StopService* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *StopService* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
ServiceIds	Root	String	Unique service ID for the specific service to start. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes
ServiceCount	Root	Integer	Number of asynchronous calls to be updated for each services. - Valid values — Not applicable - Default values — 0 - Parameter length — 99	Yes

Sample response

```
{
  "FailedServiceID": [],
  "Descr": null,
  "MainCode": 0,
  "Error": "false"
}
```

Response parameter details

The following table lists the response parameter details of the *StopService* API:

Parameter	Parent tag	Description
FailedServiceID	Root	List of failed services.
Descr	Root	Displays "Services Stopped" if the services stop successfully; otherwise, displays an error description.
MainCode	Root	A value of 0 indicates a successful call; otherwise, an error code is displayed.
Error	Root	True or false.

Error codes

Error code	Message	Description
-1011	CabinetName not found	It refers to the invalid cabinet name.
541	Invalid input parameters	Invalid input parameters.
105	Invalid Request	Invalid request.
400	Operation Failed	Message with reason for service failure.

FetchServiceDetails

The *FetchServiceDetails* API is used to fetch the OMS Asynchronous Services registered under the Microservices section within Admin Workspace.

The following are the API details:

- **Service URL** — *https://<IP address>:<Port>/OMSServiceManager/fetchServiceDetails*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*

Sample request

```
{
  "ServiceType": ""
}
```

Request header details

The following table lists the request header details of the *FetchServiceDetails* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. • Valid values — Not applicable • Default values — Not applicable • Parameter length — 32 character	Yes

Name	Parameter scope	Type	Description	Mandatory
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *FetchServiceDetails* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
ServiceType	Root	String	Used to fetch a list of particular services. - Valid values — Not applicable - Default values — "" - Parameter length — ""	No

Sample response

```
{
  "ServiceList": [
    {
      "ServiceCount": 0,
      "ServiceId": "167",
      "ChannelName": "",
      "ServiceName": "Batchgen",
      "ServiceType": "Generation Service",
      "ProcessedRecordCount": "0",
      "ContainerHostName": "omsservicemanager12-799d74ff88-6sx4l",
      "ApplicationStatus": "Stopped"
    }
  ],
  "TotalCount": "1"
}
```

Response parameter details

The following table lists the response parameter details of the *FetchServiceDetails* API:

Parameter	Parent tag	Description
ServiceList	Root	List of services with details.
TotalCount	Root	Total services count.
Descr	Root	Displays "Fetched Successfully" if the data is fetched successfully; otherwise, displays an error description.
MainCode	Root	A value of 0 indicates a successful call; otherwise, an error code is displayed.
Error	Root	True or false.

Error codes

Error code	Message	Description
-1011	CabinetName not found	It refers to the invalid cabinet name.
541	Invalid input parameters	Invalid input parameters
105	Invalid Request	Invalid request
400	Operation Failed	Message with reason for service failure.

UpdateServiceCount

The *UpdateServiceCount* API is used to update the running count of OMS Asynchronous Services registered under the Microservices section within Admin Workspace.

The following are the API details:

- **Service URL** — *https://<IP address>:<Port>/OMSServiceManager/UpdateServiceCount*
- **Method type** — POST
- **Request content type** — *application/json*
- **Response content type** — *application/json*



If the service is not running and an attempt is made to update the count, the message is: *"The failed service is currently not running."*

Sample request

```
{
  "ServiceIds": [
    {
      "id": "34",
      "ServiceCount": 1
    }
  ]
}
```

Request header details

The following table lists the request header details of the *UpdateServiceCount* API:

Name	Parameter scope	Type	Description	Mandatory
cabinetName	HeaderParam	String	Name of the cabinet to which the session must be established. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 32 character	Yes
sessionId	HeaderParam	String	Refers session ID of the user logged in the cabinet. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes

Request parameter details

The following table lists the request parameter details of the *UpdateServiceCount* API:

Parameter	Parent tag	Parameter data type	Description	Mandatory
ServiceIds	Root	String	Unique service ID for the specific service to start. - Valid values — Not applicable - Default values — Not applicable - Parameter length — Not applicable	Yes
ServiceCount	Root	Integer	Number of asynchronous calls to be updated for each services. - Valid values — Not applicable - Default values — Not applicable - Parameter length — 1 - 99	Yes

Parameter	Parent tag	Parameter data type	Description	Mandatory
cabinetName	Root	String	Cabinet name. - Valid values — Not applicable - Default values — "" - Parameter length — ""	Yes

Sample response

```
{
  "FailedServiceID": [],
  "Descr": null,
  "MainCode": 0,
  "Error": "false"
}
```

Response parameter details

The following table lists the response parameter details of the *UpdateServiceCount* API:

Parameter	Parent tag	Description
FailedServiceID	Root	List of failed services.
Descr	Root	Displays "Updated Successfully" for a successful update, otherwise, displays an error description.
MainCode	Root	A value of 0 indicates a successful call; otherwise, an error code is displayed.
Error	Root	True or false.

Error codes

Error code	Message	Description
-1011	CabinetName not found	It refers to the invalid cabinet name.
541	Invalid input parameters	Invalid input parameters

Error code	Message	Description
105	Invalid Request	Invalid request
400	Operation Failed	Message with reason for service failure.

Sample code

The following is a sample code containing all or some of the APIs that the reader can easily use and implement.

```
import org.json.JSONObject;
import org.springframework.http.MediaType;
import org.springframework.http.ResponseEntity;
import org.springframework.web.reactive.function.client.WebClient;

public class OMSServicesSampleCode {

    private final String ip = "localhost";
    private final String port = "8080";
    private final String protocol = "http";

    public static void main(String[] args) {
        OMSServicesSampleCode sample = new OMSServicesSampleCode();
        String cabinetName = "omsCabinetName";
        String connectCabinetCallResponse = sample.makeConnectCabinetCall
(cabinetName);
        System.out.println("\t\t\t\t\t *** CONNECT CABINET RESPONSE *** \n"
+ connectCabinetCallResponse);
        JSONObject jsonObject = new JSONObject(connectCabinetCallResponse);
        String sessionId = jsonObject.optString("sessionId", "");
        String xmlCallResponse = sample.makeProcessUsingXMLCall(cabinetName,
sessionId);
        System.out.println("\t\t\t\t\t *** PROCESS USING XML RESPONSE *** \n"
+xmlCallResponse);
        String disconnectCabinetCallResponse = sample.makeDisconnectCabinet
Call(cabinetName, sessionId);
        System.out.println("\t\t\t\t\t *** DISCONNECT CABINET RESPONSE ***
\n" + disconnectCabinetCallResponse);

    }
}

process

private WebClient getWebClient(String baseUrl) {
    return WebClient.builder().baseUrl(baseUrl)
        .build();
}

private String makeProcessUsingXMLCall(String cabinetName, String
sessionId) {
    StringBuilder baseUrl = new StringBuilder();
```

```

        baseUrl.append(protocol).append("://").append(ip).append(":")
.append(port).append("/")
        .append("OMSCommunicationService").append("/").append
("processUsingXML");
        WebClient webClient = getWebClient(baseUrl.toString());

        JSONObject requestBody = new JSONObject();
        requestBody.put("attachmentsLocation", "");
        requestBody.put("doArchive", "S");
        requestBody.put("encodedPDFRequired", "N");
        requestBody.put("fileName", "PDF_MAIL");
        requestBody.put("filePath", "PDF_MAIL_PATH");
        requestBody.put("productName", "PDF_MAIL");
        requestBody.put("reportVersion", "");
        requestBody.put("sendMail", "S");
        requestBody.put("skipApproval", "Y");
        requestBody.put("skipEditing", "Y");
        requestBody.put("xmlData", "<Root><Message1>FOR INTERNAL USE
ONLY</Message1><Message2>NEWGEN SOFTWARE TECHNOLOGY LIMITED</Message2>
<Message3>speed and agility.</Message3><GroupingElement><Int_Element>100
</Int_Element><String_Element>email.sender@newgensoft.com</
String_Element><Decimal_Element>11330.0</
Decimal_Element><Date_Element>2022-01-01
</Date_Element><Boolean_Element>true</Boolean_Element></GroupingElement>
<GroupingElement><Int_Element>20</Int_Element><String_Element>String2
</String_Element><Decimal_Element>1320.1</Decimal_Element><Date_Element>
2022-02-01</Date_Element><Boolean_Element>true</Boolean_Element>
</GroupingElement><GroupingElement><Int_Element>33</
Int_Element><String_Element>String3</String_Element><Decimal_Element>1034.01
</Decimal_Element><Date_Element>2022-03-01</
Date_Element><Boolean_Element>false</Boolean_Element></GroupingElement></
Root>");
        requestBody.put("sendWhatsapp", "N");
        requestBody.put("channelName", "mailChannelName");

        ResponseEntity<String> responseEntity = webClient.post()

.uri(baseUrl.toString())
        .header("cabinetName", cabinetName)
        .header("sessionId", sessionId)
        .contentType(MediaType.APPLICATION_JSON)
        .bodyValue(requestBody.toString()).retrieve().toEntity

(String.class).block();
        return responseEntity != null ? responseEntity.getBody() : "{}";
    }

    private String makeConnectCabinetCall(String cabinetName) {
        StringBuilder baseUrl = new StringBuilder();
        baseUrl.append(protocol).append("://").append(ip).append(":").append

```

```

(port).append("/")
        .append("OMSSessionManagement").append("/").append
("connectCabinet");
        WebClient webClient = getWebClient(baseUrl.toString());

        JSONObject requestBody = new JSONObject();
        requestBody.put("userName", "supervisor");
        requestBody.put("userPassword", "YourPassword");
        requestBody.put("connectForcefully", "Y");
        requestBody.put("encrFlag", "N");

        ResponseEntity<String> responseEntity = webClient.post()
.uri(baseUrl.toString())
        .header("cabinetName", cabinetName)
        .contentType(MediaType.APPLICATION_JSON)
        .bodyValue(requestBody.toString()).retrieve()

.toEntity(String.class).block();
        return responseEntity != null ? responseEntity.getBody() : "{}";
    }

    private String makeDisconnectCabinetCall(String cabinetName,
String sessionId) {
        StringBuilder baseUrl = new StringBuilder();
        baseUrl.append(protocol).append("://").append(ip).append(":")

.append(port).append("/")
        .append("OMSSessionManagement").append("/")

.append("disconnectCabinet");
        WebClient webClient = getWebClient(baseUrl.toString());

        ResponseEntity<String> responseEntity =
webClient.post().uri(baseUrl.toString())
        .header("cabinetName", cabinetName)
        .header("sessionId", sessionId)
        .contentType(MediaType.APPLICATION_JSON)
        .retrieve().toEntity(String.class).block();
        return responseEntity != null ? responseEntity.getBody() : "{}";
    }
}

```