

Engineering Drawing Management



Overview

Many Engineering Procurement and Construction projects still rely on obsolete methods for managing Engineering Drawings. This results in an inability to access information timely and respond to unique project requirements. Flexible technologies with robust document management capabilities are a key business imperative for the Energy & Utilities sector.

Business Challenges

The planning, procurement, operation, engineering and construction involved in EPC projects require streamlining for efficient operations. However, the complexity involved in these projects makes it difficult for data and documents to be shared, tracked and worked on. Absence of effective control and audit of Engineering Drawings leads to ineffective risks management, increased costs and expensive process delays. This results in oblivion over the latest and approved version of a document, and how third parties have been involved in the process.

Some of the major challenges involved are-

- **Inability to manage multiple projects simultaneously**
- **Inability to modify the system according to project specification**
- **Lack of proper routing the document to multiple involved departments**
- **Inability to manage multiple sequences of phases for documents, customizable for every project**

Newgen's Engineering Drawing Management

Newgen's Engineering Drawings management solution offers a unified platform for comprehensive Engineering Drawings management. The solution effectively supports concurrent document access for the multiple stakeholders involved. Thus, handling the dual complexity of Version management and Parallel operation on files. Further, it efficiently caters to the diversity of documents, file types and requirements involved in EPC projects. Newgen's Engineering Drawings management solution caters to the following primary functions:

- **Engineering Drawings in/out** - Newgen's Engineering Drawings Management helps standardize and secure a transparent lifecycle for Engineering Drawings in and out. That is, from creation and review to compliant auditing and retention. The solution allows users to create a transmittal save the progress at any stage for later revision, without sending. The configurable process automation reduces risk of errors and delays associated with conventional manual processes
- **Document Management and Workflow Automation Engineering Drawings in/out** - Newgen provides a fully customizable workflow to manage documents. The standard procedure is characterized by three ways for inserting a document-

1. Uploading a document already approved and ready for distribution

2. Internal approval and distribution

3. Uploading a document already approved by customer

Every document must complete the entire workflow (standard or customized) before proceeding to the next phase in its progress path.

A peculiar characteristic of Newgen's Engineering Drawings management solution is its flexibility, which allows users to configure parameters and attributes for each contract. It enables you to use the application for the simultaneous management of various projects.

Solution Highlights

Document Versioning:

Ensures concurrent document revision by multiple parties or project stakeholders through a controlled revision tracking and version management dashboard

Work Breakdown Structure:

Allows document management on the basis of role or hierarchical structure by integrating with a standard project management tool. This ensures enhanced visibility for accurate project management

Integration with Mail System:

Engineering Drawings can be configured to meet email configurations of recipient. For example- Engineering Drawings can be sent through emails with links to documents, email with attachments to respect defined KB limits

Collaboration:

The solution offers secure collaboration and coordination across the enterprise by using structured processes for new document introduction, revision, and master record updates. Also, the solution is configurable as per contract specifications and document type

Case Management:

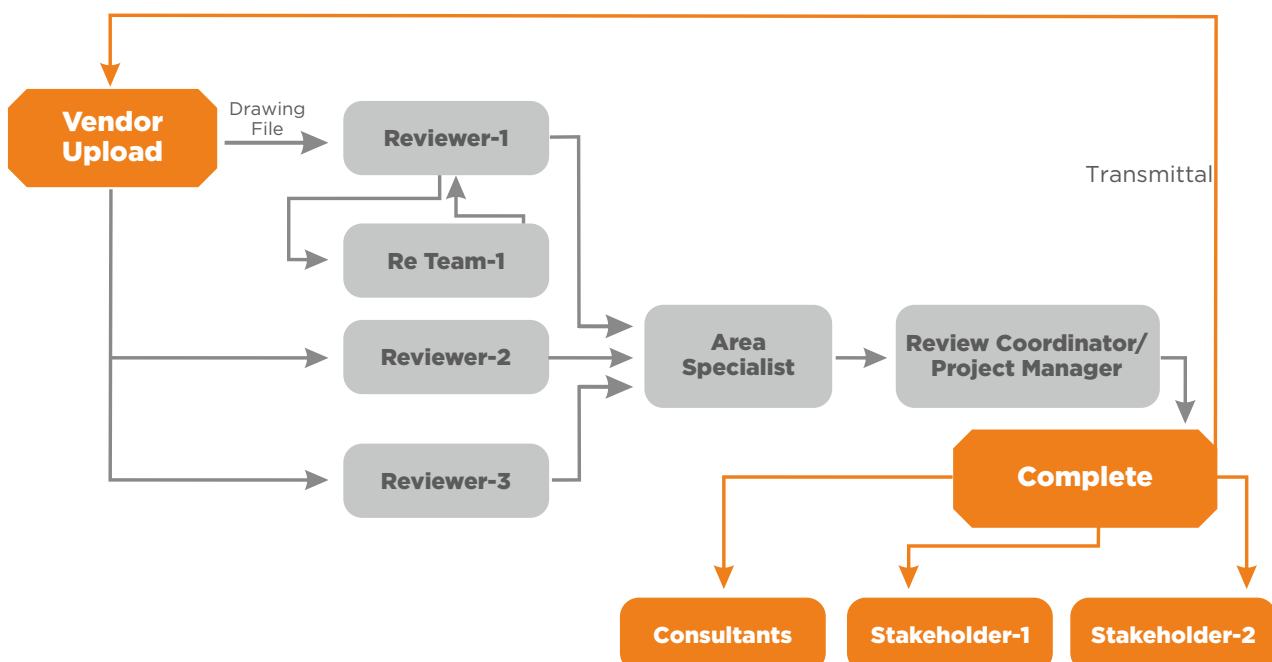
The case management tool helps manage, track and assign these tasks and requirements. Users can easily manage these tasks using a single dashboard that offers a centralised view of the entire project.

Document Control Management:

The solution ensures a smooth handover by controlling all Engineering Drawings, engineering submissions and documentation in a secure environment structured according engineering standards. It helps in ensuring accurate and current information is available to all stakeholders

Scalability:

The solution packs a scalable and distributed architecture with multi-node database cluster and load balancers for managing high volumes. It provides a future-ready solution and ensures security of business infrastructure through data encryption, multi-layer firewalls and Intrusion prevention/ detection capabilities



The Process Flow for Engineering Drawing Review and Approval

Business Benefits

Accelerate Processes:

Monitor process lifecycle and introduce easier, faster and improved flow of information between all participants in supply chain

Eliminate Errors:

Ensure higher data accuracy with faster data availability. Automatically capture data and process multiple applications using a single platform. Eliminate discrepancies and optimise the process by streamlining complete product lifecycle

Access Real-Time Information:

Enhance real-time access to information and visibility on assets and resources to ensure better asset and human resource management

Achieve Timely Approvals:

Define and design approval cycles. Collaborate with external stakeholders for evaluating applications and securing application access with OTP based authentication and data encryption

Customize as Required:

Customize your workflows according to your project needs with configurable business rules

About Newgen

Newgen Software is a vendor/provider of Business Process Management (BPM), Enterprise Content Management (ECM), Customer Communication Management (CCM), Document Management System (DMS), Workflow and Process Automation software. The company has a global footprint in over 60 countries with large, mission-critical solutions that have been deployed in Banks, Insurance firms, BPO's, Healthcare Organizations, Government and Telecom Companies.

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