OpenText™ Extended ECM for Engineering

Efficiently control engineering information, work processes, and risk across the lifecycle of projects and operations

Market Forces
There are many industry forces that are driving energy and engineering companies to examine how they control their engineering information and work processes. These companies have learned to adapt to fluctuating and often cyclical commodity prices. When commodity prices go up, they shift focus to investing in Capital Projects. When prices go down, they shift focus to improving operations efficiency and Asset ROI.

Every time there is a severe Environmental Health and Safety (EH&S) incident, such as an explosion or oil spill, this drives companies to check their processes to help them avoid similar outcomes. During these reviews, many companies find they are severely lacking in consistency and control processes that ensure safety and compliance. Consistency and control is also affected by senior workers having expert knowledge that is not uniformly transferred across engineering activities. In addition to all of this, increasing international regulatory controls are pressuring companies to provide more transparency on their operations, forcing increased digitization and single source of truth repositories.

Industry Pain Points
OpenText works with 95 percent of the top energy and engineering companies in the world. In this work, we consistently see common patterns of challenges including:

- Organizations have outgrown the engineering control systems they have in place. The solutions may have worked at one point in their history, but they are not working for them now or not sufficiently preparing them for where they are going.
- Engineering teams have difficulty finding their information. They know it is buried somewhere but they can’t get at it easily enough to do their jobs.
- They can’t figure out who did what and when. This makes it hard to keep stakeholders accountable.
- It takes a lot of effort to do “simple” engineering tasks. This slows down projects and frustrates engineering teams.

BENEFITS
OpenText™ Extended ECM for Engineering helps Document Control Managers, Engineers, Engineering Leaders, and External Collaborators efficiently control engineering information, work processes, and risk across the lifecycle of projects and operations by enabling them to:

- **Finish Engineering Jobs Easier.** Make it easier for your teams to find engineering information, complete engineering work processes, and control risk
- **Find What They Need.** Ensure one source of engineering truth by integrating sources of project and operations information
- **Ensure Excellence.** Give companies a means of implementing best practices and standardized approaches while providing each team with the ability to apply their own unique requirements
- **Collaborate and Exchange Easily.** Exchange and collaborate on large volumes of content with internal and external parties (OpenText™ Transmittal Management, OpenText™ Secure MFT, OpenText™ Tempo™ Box, Bulk Loading, Automated Quality Checks and Work Process initiation.)
- **Defend Effortlessly.** Defend against litigation claims and track who did what and when. (Detailed Audit trails)

Open [http://opentext.com/engineering](http://opentext.com/engineering) to learn more.
• Delayed Go-Live slows EPC’s milestone payments and Owner-Operator production revenues. Complex handover delays time to business value for contractors and owners.
• Fragmented Global Teams. Globally distributed teams need a single source of truth and process consistency to ensure operational effectiveness
• Limited Insight/Control. Limited insight into imminent risks and lack of tools to control/fix issues.

Without having effective engineering and asset information management controls in place, executing large engineering projects and operating the resulting assets can produce significant risk to scope, schedule, cost, and non-compliance. This is not so much of a problem when it is a team of 12 working on a project or asset, all sitting in the same office. It is a bigger problem if it is hundreds or even thousands of people spread out all over the world, across different internal and external project and operations stakeholders. Effective control of change and information needs to be in place before chaos ensues from the resulting collaboration.

Add to this, the fact that on a typical major project it is not uncommon for parties to do large scale exchanges of hundreds to thousands of files at a time, and this process repeats hundreds to thousands of times per month. If you do not have effective control practices in place to manage this tsunami of content, all these problems get multiplied exponentially.

For Engineering Contractors, this affects their ability to execute projects and deliver contractual obligations to their clients and partners. The more difficult it is to track what has happened in the project or to be able to show their clients what they have done, the more difficult it is to achieve payout events, such as completion milestones and handover.

For owner-operators in projects and operations, some of the biggest business drivers are: 1) Does the solution actually help them control engineering projects with greater control and effectiveness than what is in place? 2) Will it help get these projects to production faster and control costs and risk during ongoing operations?

Owner-operators are looking for a solution that satisfies these requirements and gives operations and maintenance the information needed to maximize return on investment and governance while minimizing risk.

Extended ECM for Engineering

Extended ECM for Engineering is an add-on to OpenText™ Extended ECM Platform that helps efficiently control risk to engineering project scope, schedule, and costs. This enables owner-operators and engineering companies to gain faster returns on investment by speeding time to first production and enabling efficient asset operations.

Extended ECM for Engineering provides a single, authoritative repository for storing and controlling engineering documents and
work processes. The solution provides Document Control Managers, Engineers, Engineering Leaders, and External Collaborators with the ability to efficiently control engineering information, work processes, and risk across the lifecycle of projects and operations.

**Features and Values Include:**

- Offers persona-driven dashboards and streamlined work processes that make finding information, getting work done, and controlling risk efficient and effective.
- Improves ROI through accelerated exchange and collaboration, both within projects and through handover to operations and maintenance.
- Deep integration into SAP® Plant Maintenance, via the optional Extended ECM Enabler for SAP, accelerates handover to operations while joining structured data with unstructured content for asset management processes via a choice of interfaces. This results in improved productivity, reliability, compliance, and worker safety while reducing costs and environmental impact.
- Ensures a single source of engineering truth by integrating sources of engineering and asset information, such as Dassault® SOLIDWORKS®, Bentley® MicroStation®, AutoDesk® AutoCAD® and Revit® 3D, and SAP Plant Maintenance.
- Provides best practice configuration templates to accelerate project set-up while allowing teams to configure to the unique needs of their projects and assets.
- Enables efficient exchange and collaboration on large volumes of content with internal and external parties while providing full control and tracking.
- Enforces document naming and numbering standards automatically in compliance with each customer's unique standards.
- Supports concurrent document revision or review by multiple teams to accelerate time-to-first-production.
- Helps defend against litigation claims by tracking who did what when with detailed audit trails.
- Provides secure access and collaboration on engineering documents from anywhere in the world with flexible deployment options.
- Deep extensibility using Web Services, REST API, and OpenText™ Content Intelligence Tags and Smart UI Widgets.
- Enables deep integrations into leading Energy and Engineering ecosystem applications via the Extended ECM Platform.
- Enables easy report, chart, and widget/tile creation to tailor departmental and persona-based dashboards that provide the information they need when they need it.
- The optional OpenText™ Brava™! Viewer add-on provides secure, web-based viewing and annotation capabilities for efficient review, approval, and production processes without the need for native applications.