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OpenText™ Extended ECM for Engineering

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

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

Every time a severe environmental health and safety (EH&S) incident occurs, 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 are also affected by senior workers having expert knowledge that is not uniformly transferred across engineering activities. In addition to this, increasing international regulatory controls are pressuring companies to provide more transparency on their operations, forcing increased digitization and a 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 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.

SUMMARY

OpenText™ Extended ECM for Engineering helps document control managers, engineers, engineering leaders, external collaborators, and subsequent operations personnel efficiently control engineering information, work processes, and risk across the lifecycle of projects and operations to accelerate revenue.
Learn more at **opentext.com/engineering**

BENEFITS

- *Accelerate production revenue—SAP for Plant Maintenance integration speeds handover to operations*
- *Finish engineering jobs quickly—make it easier for your teams to find engineering information, complete work processes, and control risk*
- *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—on large volumes of content with internal and external parties (OpenText™ Transmittal Management, OpenText™ Secure MFT, bulk loading, automated quality checks, and work process initiation)*
- *Defend effortlessly—against litigation claims and track who did what and when (detailed audit trails)*

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- **It takes a lot of effort to do "simple" engineering tasks.** This slows down projects and frustrates engineering teams. Delayed go-live slows EPC's milestone payments and owner-operator production revenues. Complex handover delays time to business value for contractors and owners.

- **Global teams are fragmented.** Globally distributed teams need a single source of truth and process consistency to ensure operational effectiveness.

- **Insight and control is limited.** Teams have 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 when it is hundreds or even thousands of people spread out all over the world, across different internal and external project and operations stakeholders. On top of this is 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. Effective control of change and information needs to be in place before chaos ensues from the resulting collaboration. Without effective control practices in place to manage this tsunami of content, all these problems get multiplied exponentially.

For engineering contractors, a lack of control practices 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 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 provides a single, authoritative repository for storing and controlling engineering documents and work processes. The solution helps document control managers, engineers, engineering leaders, external collaborators, and subsequent operations personnel efficiently control engineering information, work processes, and risk across the lifecycle of projects and operations to help accelerate revenue.

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Features:

- Offers persona-driven dashboards and streamlined work processes that make finding information, getting work done, and controlling risk efficient and effective.

- Improves ROI and time to milestone completion through accelerated exchange and collaboration, both within projects and through handover to operations.

- Increases production uptime and revenue by speeding task and project completion.

- Provides deep integration into SAP® Plant Maintenance, via the optional Extended ECM Enabler for SAP, to accelerate 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 setup, 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 and unattended, secure, high-speed transmission, which speeds task and project completion.

- 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, and when, with detailed audit trails.

- Provides secure access and collaboration on engineering documents from anywhere in the world with flexible deployment options.

- Leverages Web Services, REST API, and OpenText™ Content Intelligence Tags and Smart UI Widgets to enable customers, implementers, and partners to extend engineering work processes and develop tailored dashboards and reports to meet their unique needs.

- 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 needed to quickly complete the task at hand.

- Enables geospatial content navigation through an ESRI ArcGIS integration. This provides visual navigation capabilities during project and operations, ensuring intuitive access to relevant content based on the location of an asset or project.

- Offers optional OpenText™ Brava™! Viewer add-on to provide secure, web-based viewing and annotation capabilities for efficient review, approval, and production processes without the need for native applications.

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