

## Deloitte Asset Information Management Solution

Increasing efficiency and risk through better control over information

The management of information about physical assets is more than a technical challenge. Accurate and up-to-date engineering and technical documentation is critical for ongoing operational effectiveness and risk mitigation across a wide range of industries, including oil & gas, mining, utilities, manufacturing, and transportation.

In many cases, operations and plant maintenance staff have limited visibility into the current state of plant equipment

due to poor documentation practices. This not only impacts staff productivity and efficiency, but can also create compliance risk and a risk of extended downtime if repairs are hindered by inaccurate or outdated documentation. In addition, today's regulatory compliance requirements and increased emphasis on efficiency make content governance critical to effectiveness. And this is not just managing data, but also having clearly defined processes for capturing the right information, protecting data quality, and

providing secure access. Collaboration and information sharing with outside parties are also important because modern businesses often rely on third-party vendors and joint ventures that need access to information.

Overcoming these business challenges involves a new approach to managing and controlling vital plant and equipment documentation.

## How we can help

After years of working with many of the world's most respected and well-known companies, we have designed a solution that targets some of the most common and difficult asset information management challenges.

The Deloitte Asset Information Management Solution brings a systematic approach that helps streamline the management of content, such as technical documents, and incorporates leading

practices and governance processes to enhance efficiency and address common sources of risk.

Capabilities provided by the solution include:

- Increased visibility and improved management of corporate assets through timely access to the latest engineering and technical documents
- Pre-defined workflows and the ability to access unstructured information from

within the context of business processes in ERP and plant maintenance systems

- Simplified compliance through improved information accuracy and by making information easier to access
- Leading practices and governance processes that help enhance efficiency and address common sources of risk
- Mobile access to documentation and digital assets



AutoCAD



Desktop Productivity Tools



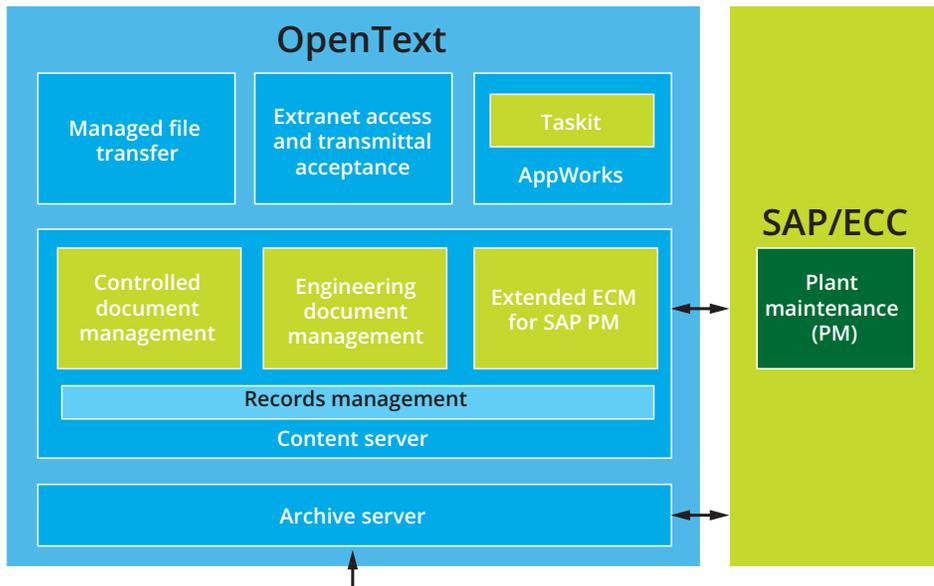
Web Browser



Mobile Devices



SAP® GUI



## How do users find value?

- Document controllers can save time by taking advantage of metadata supplied by the system.
- Operations and maintenance staff can create notifications for faulty equipment and attach photos taken with a mobile device.
- Supply chain procurement analysts can view assets and load or review related documents that can then be viewed from within SAP screens.
- Planners and schedulers can be more efficient because the work orders they review contain links to related tasks and operations.

## Deloitte Asset Information Management Solution

Our Asset Information Management Solution utilizes OpenText Content Server and OpenText Archive Server software to provide a central repository for managing unstructured content. The content repository is also integrated with enterprise business processes in ERP applications such as SAP® PM using OpenText xECM software.

The solution consists of four major modules as highlighted in the diagram. These modules are further described in the sections that follow.

## Controlled Document Management

The controlled document management module is designed to improve efficiency and enhance governance for controlled documents by formally managing documents, such as policies and standards, throughout the course of their lifecycle. Functionality includes structured collaborative reviews and electronic signatures for faster approval cycles. The controlled document repository provides a "one stop shop" for non-engineering controlled documents related to asset operations, employee health and safety, and others.

## Engineering Document Management

Engineering document management is designed to provide easy access to the most recent versions of engineering and technical documents throughout their lifecycle—all in a single repository that helps reduce administration overhead and simplify compliance.

Document control activities are automated so that critical engineering information is current and appropriately managed. The system also enhances information integrity by providing the ability to manage tags, documents and relationships, including management of relationships within multi-layer CAD files so users can retrieve all the necessary files when requesting an engineering drawing.

## Extended ECM for SAP PM

Extended ECM for SAP PM provides the ability to access unstructured content from within SAP business processes. The unstructured content is maintained within the OpenText content repository, yet SAP users can access it from within the context of their usual business workflows.

This enables plant documentation that may have previously been spread throughout information silos or managed in paper archives to be centrally managed according to records management disciplines while giving users access from within SAP PM business processes.

Documents associated with plant maintenance data, such as Functional Location, Equipment, Work Orders, and Notifications are brought under controlled management. Published information about engineering and controlled documents is made accessible to SAP PM users through its relationships to SAP data.

## Taskit—Enhancing field efficiency with mobile technology

Plant maintenance information can also be communicated to and from field users on mobile platforms. Field users can capture and store digital assets and data using native device capabilities such as camera or voice memo features. They can also provide manual inputs such as text comments. Field work that would historically have been paper-reliant can thus be completed with much less time and effort.

## About Our Digital Content Practice

Producing one version of the truth requires more than the right technology infrastructure. Deloitte's digital content consulting services are designed to provide the strategic advice and hands-on implementation that organizations can use to help improve business performance and achieve operational excellence. Rather than a narrow focus on technology and data, our services address the need for integration across the domains of technology, processes, and people.

Our practitioners are well versed at every level of the digital content stack, which includes enterprise content management, digital asset management, records management, online commerce, and analytics. We bring an extensive set of capabilities that are grounded in a deep understanding of the business issues that drive the industries we serve.

Our goal is to help you unlock the value buried deep in your content. Our experience from hundreds of information management delivery projects enables us to bring practical know-how and insights that can directly affect business results.

## Learn more

To learn more about how Deloitte can help you in your efforts to reduce risk and realize more value from your digital content, please contact one of the following:

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