IBM

IBM `Information Management` software

McLaren Software
Enterprise Engineer for Drawings

Partner Solution

- **Target Industries**
  Chemical and Petroleum
  Energy and Utilities
  Industrial Products

- **Business Application**
  CAD Drawing Management

- **Product**
  IBM FileNet Business Process Manager
  IBM FileNet Content Manager

mclaren™
software

Business Challenge

Drawings represent a significant portion of an organization's intellectual property. Drawings contain essential information used to design, construct, operate and maintain large fixed assets. Maintaining the integrity of this information is critical.

Engineering drawings are inherently more complex than other business documents because they are created using specialized computer-aided design (CAD) authoring tools — such as AutoCAD and MicroStation — and often consist of compound documents that include numerous linked files and layers of information. Additionally, the process of reviewing and approving CAD drawings for use in the design and construction of large fixed assets can be very rigorous and complex. Historically, it has been a challenge to manage CAD drawings while leveraging the same enterprise content management (ECM) systems that are used for other types of business documents. McLaren's Enterprise Engineer (EE) for Drawings tackles and solves this problem.

Solution

McLaren's EE for Drawings comprehensively manages AutoCAD and MicroStation CAD drawings across the enterprise, saving time, reducing costs and simplifying the change management process for CAD operators. With this solution, drawings are numbered, categorized and filed automatically in accordance with an auditable change management process. This can improve productivity and reduce the cost of rework by enabling users to consistently locate the correct version of the drawing for their specified project.

EE for Drawings integrates with the AutoCAD and MicroStation CAD authoring tools, allowing the valuable intellectual property that was once locked-up in a "CAD silo" to be stored in the IBM FileNet Content Manager repository. Drawings with reference files can be imported and their associations remain intact. Drawing title block values are automatically synchronized with repository metadata.

With EE for Drawings, users manage work package execution workflow. Packages of drawings can be reviewed and approved on a workflow process. View, mark up and compare capabilities enable non-CAD users to access drawings and participate in the design and review process.

User-friendly ribbon bars and menus provide easy access to all functionality, reducing training and support requirements. Additionally, because CAD drawings are automatically published using PDF or other universal file formats, the drawings can be easily shared with other authorized personnel inside the organization or with external partners.

It is common for companies to have many legacy drawings of their assets in a raster format; this typically occurs when paper drawings were originally scanned into TIFF format. When these same documents require modification, the typical approach is to create a multi-content or "hybrid" drawings versus creating a entirely new set of drawings. Hybrid drawings are defined as drawings that combine vector overlays with a raster image background. With EE for Drawings, both the vector and raster components are managed as a single object thereby avoiding the cost of large scale manual recreation of legacy drawings.

Value Proposition

EE for Drawings supports rigorous document control features that improve the integrity of CAD-based engineering drawings without the need for a customized software solution. EE for Drawings also reduces the risks and costs associated with rework on non-compliance by ensuring auditable management of drawing information and synchronizing critical information between the CAD drawing and attributes of IBM Enterprise Content Management (ECM). EE for Drawings can significantly improve efficiency and collaboration among engineering organizations by allowing CAD drawings to be shared, used and reused more effectively throughout the enterprise by leveraging pre-defined business rules.

Company Description

McLaren Software develops engineering-centric intellectual work management applications for the oil and gas, process manufacturing, utilities, life sciences and engineering, design and construction sectors. McLaren helps organizations optimize their engineering design and asset change management processes to maximize the value in their engineering documents while mitigating the commercial risk associated with their use. McLaren Software is an IBM Software ValueNet Business Partner and is accredited with the IBM Information on Demand Specialty Mark for Enterprise Engineer. www.mclarensoftware.com

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LEARN MORE!

View a 6-minute Webinar of this solution:
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