



A Partner Solution for the Communications Sector

Ensure Compliance of Pre-Construction Documents through Integration of Drawing and Project Management Systems

IBM **Information Management** software

TriTek Solutions Utility Industry Solution Suite: Central Engineering

Partner Solution

● **Target Industries**

Energy and Utilities

● **Business Application**

Pre-Construction Project Management

● **Products**

IBM FileNet Business Process Manager

IBM FileNet Content Manager

IBM FileNet Image Manager

Business Challenge

Central engineering departments within energy and utility companies are responsible for pre-construction administration of projects. Often there are multiple systems required for project administration, including drawing management and engineering project management. These standalone systems are highly inefficient, since multiple searches must be run to find a complete set of project documentation.

Search terms typically lack consistency, which makes content searches nearly impossible for any employee who is not directly associated with a project. Without system integration, there is no method to enforce standardization of index values linked to content, which further complicates searches.

Without a single solution for all project management tasks, time is wasted on redundant document searches. Also, there is no way to share content or assign tasks to employees within the central engineering department. Delays in the pre-construction phase of projects prevent a timely start to construction, which can be costly to construction services departments as well as the central engineering department.

Solution

TriTek developed a solution called Central Engineering to help streamline pre-construction administration of projects at energy and utility companies. This module is part of the "Utility Industry Solution Suite," a comprehensive enterprise content management (ECM) and business process management (BPM) solution leveraging the IBM ECM suite of products. The Central Engineering module of the suite includes a customized environment to automate all review, approval and transmittal workflows associated with construction projects.

Design and engineering systems are integrated through IBM FileNet P8 and McLaren Software Enterprise Engineer, an application that helps energy and utility companies optimize their engineering design and asset management processes. TriTek's Central Engineering module adds custom functionality to McLaren Software Enterprise Engineer application making it more efficient to automate business processes in central engineering departments.

Construction drawing reviews are automated, including review, approval and transmittal. When a user creates a package within McLaren Software



Enterprise Engineer that contains renderings of drawings, an IBM ECM workflow is launched to send the documents directly to a manager for review. After the document is approved, the drawings are ready for construction and sent to the system as an asset under the transmittal phase. In order to streamline the approval process, users are now able to perform simple tasks that don't require managerial oversight without the approval of system administrators.



At every stage of the approval process, a reviewer can enter comments into the custom interface and the comments are recorded into an audit history file associated with the drawings. These comments can be accessed by auditors, managers and engineers. Providing an accurate audit trail is necessary to meet regulatory requirements of Sarbanes-Oxley and many state governments.

In addition to custom functionality, TriTek offers a data migration plan from legacy systems into an IBM ECM repository that ensures data integrity and backward compatibility. For all future documents, or whenever an engineer accesses a previous drawing, the user is prompted to input the correct index values such as a location number, vendor name or project number. The improved data integrity helps to create a robust search engine that allows users to search for any metadata field.

Value Proposition

Central engineering departments will dramatically increase productivity through the use of TriTek's Central Engineering module for IBM ECM and McLaren Software Enterprise Engineer. Project lifecycle time will be reduced since the review, approval and committal steps for each project are automated and integrated with one centralized repository. With an enhanced user interface, the learning curve for engineers using the design and engineering application will decrease. External users and internal employees will easily find the appropriate content through enhanced search capabilities and system-enforced document submittal standards. In addition, improved audit trails nearly eliminate fines from auditing agencies due to incomplete documentation or late submission.

Company Description

TriTek Solutions, an IBM Software ValueNet Business Partner specializing in the integration of IBM FileNet products and related technologies, has become a leader in the design, development and delivery of customized Enterprise Content and Business Process Management solutions. TriTek provides industry specific solutions for the financial services, insurance, utilities and government verticals.

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