

Project Information Management

VALUE-ADDED FOR MUSTANG CLIENTS

A noted 18th century British author once said, “There are two kinds of knowledge. We either know the subject ourselves or we know where we can find information about it.” Mustang’s Project Information Management (PIM) group has made a point of not only creating and understanding critical information on its projects, but have harnessed, managed and disseminated that pertinent data to those who need it, when they need it, in a form that is conducive to its effective use.

Mustang has a long history of providing document-centric projects through the use of Electronic Document Management Systems (EDMS). During an Engineering, Procurement, Construction Management (EPCm) project, the flow of information begins almost immediately. This information becomes its lifeblood and timely retrieval is vital to its success. The PIM group provides Mustang project teams, clients and other project partners with complete service solutions for communicating and managing

information. PIM has a knowledgeable staff of information managers, data specialists, systems administrators and document controllers. The group supports all of Mustang’s global business units.

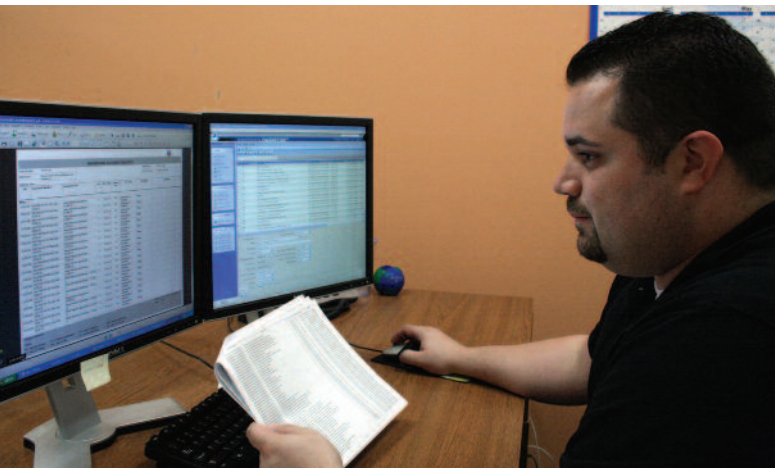
The Task is Changing

In the not-too-distant past, the information management function oversaw the compiling, archiving and retrieving of volumes of hard copy documents. The handover to the client was normally made at the completion of engineering in the form of thick binders filled with every document and drawing created. The information management function was principally one of document control in support of the project’s execution.

In today’s world, the industry sees the value of moving to a data centric approach for information management. There are gains in consistency and efficiency with a reduction in man-hours when data is passed electronically between project execution and engineering applications. Sharing data electronically has its own set of information management challenges. Tagged item data and information can be generated from numerous sources in differing formats and on complex projects, that information can come from multiple systems, multiple EPCs and even multiple countries. Bringing the information together to support the life cycle information management needs of a facility is key to success.

Mustang’s Solution

As projects have grown in scope and become more complex, information has proliferated with an increasing need for timely dissemination throughout all stages of a project’s lifecycle – from pre-FEED through brownfield upgrades and even decommissioning. Mustang PIM has integrated the latest technologies to provide the best information management solution for the client, both



Electronic document control allows immediate access to the latest document version during the project life-cycle.

during a current project as well as establishing a historical database that can be readily accessed in the future for operations and maintenance of the facility.

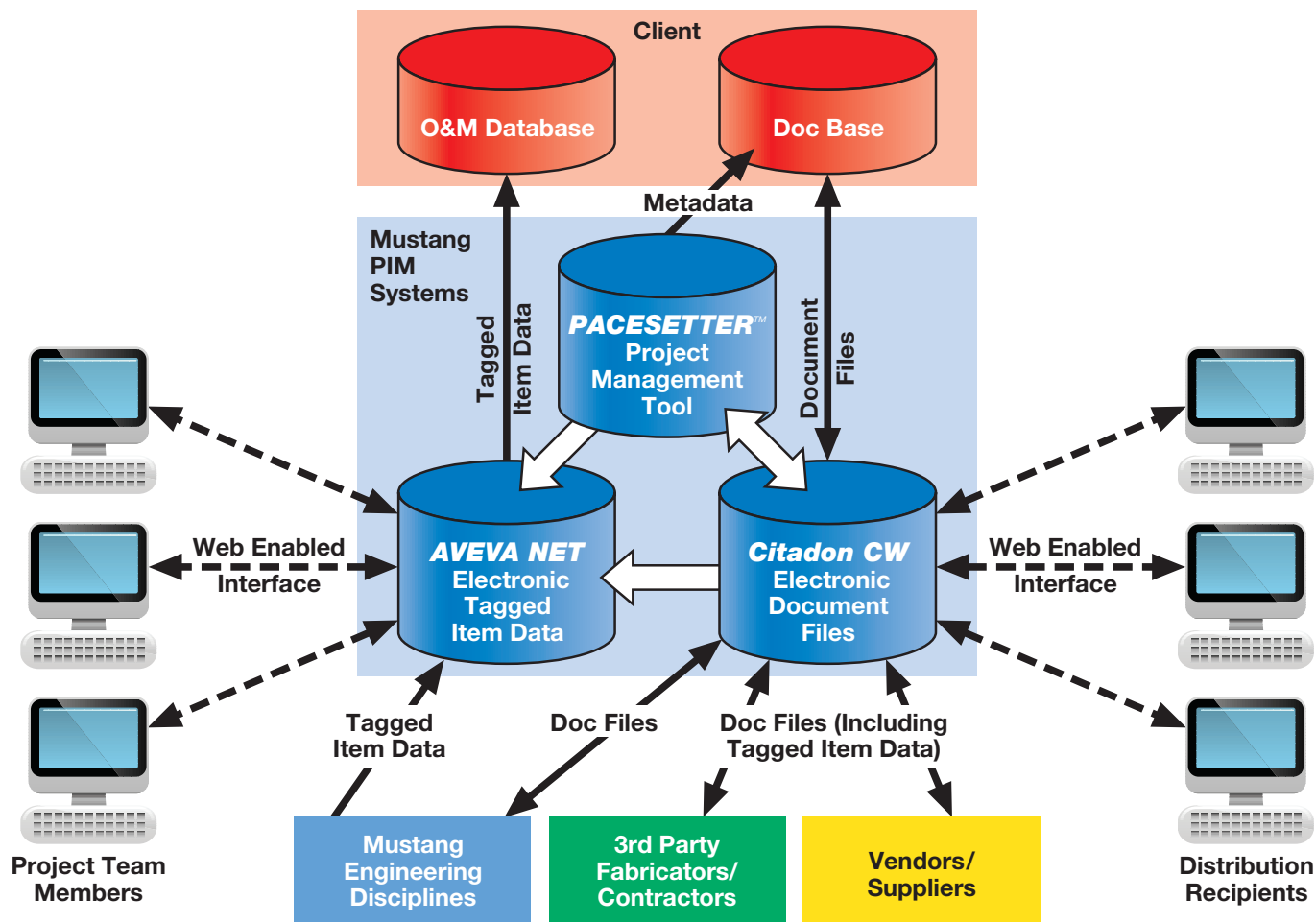
Mustang's PIM strategy has integrated three separate applications into a single, robust information management system that provides the most appropriate solution, regardless of project size, scope, and complexity. It offers document control, data management, information management and PIM system application support.

Mustang utilizes Citadon CW to provide web-based electronic document management and data flow. This portion of the overall PIM system stores essential project document files and manages electronic redline/review workflow and approvals. The collaboration tool allows all project stakeholders to have immediate access to the latest version of documents with an audit trail and tracking. The documents can be accessed at any stage of the project lifecycle in their native format and viewed, even though the user might not have the necessary software on their computers. Templates and functionality has been built-in for flexibility in accommodating specific project requirements.

To provide the most suitable data management component, the PIM group was charged with selecting a system which provides a Master Tag Register to identify discrete information, compare the data from multiple sources and report on any discrepancies. The system had to be universal in scope with open architecture, able to work with many applications, easily configurable, web-based for worldwide transportability, user friendly with minimal training required, and flexible enough to allow for 'scraping' only the data that is required.

For this task, Mustang chose AVEVA NET, an application-neutral platform for consolidation of engineering information including schematics, P&IDs, 3D models, drawings and other tagged item data. The ISO 15926-compliant portal integrates the life-cycle data and allows it to be shared, exchanged and handed over among a variety of computer programs utilized by project participants. The handover can be progressive, or a single event at the end of the project. Individual tagged item data is intelligently and automatically linked between applications and can be grouped in the context of specific needs (by PO Number, Commissioning System number, etc.) to be easily accessed.

Mustang Project Information Management System Map



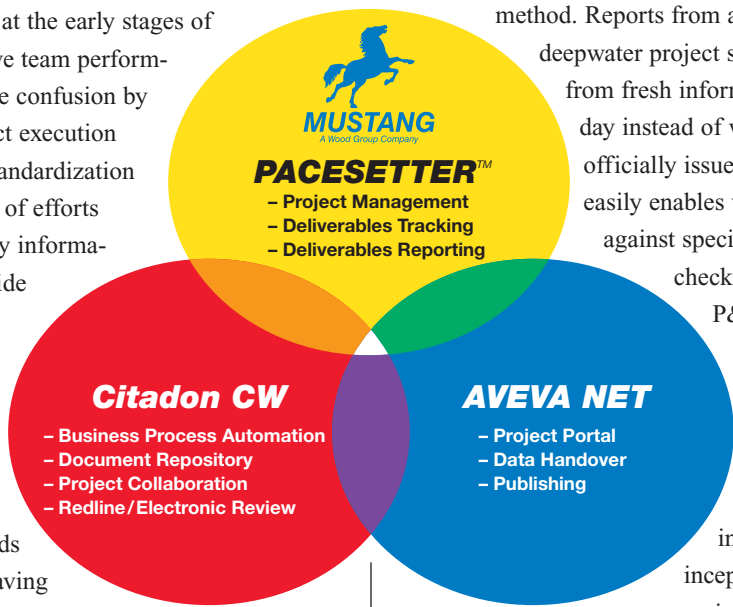
The thread that ties the document control and data management functions together with project management, deliverables tracking and reporting, is PACESETTER™. The Mustang-developed, multi-functional project execution software manages all aspects of an EPCm project. The leading edge package provides scalable modules for managing project scope, schedule, cost, procurement and communications. PACESETTER™ fully integrates with Citadon CW and AVEVA NET. It further interfaces with INtools®, the software Mustang utilizes principally for instrumentation and controls design, and Oracle-Financials for reporting purposes. Since PACESETTER™ was internally-created, Mustang's PIM group provides the hands-on responsibility for technical training, troubleshooting and 24 x 7 global support.



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What Are The Benefits?

Information handling beginning at the early stages of an EPCm project helps to improve team performances, avoid rework and eliminate confusion by decreasing parallel efforts. Project execution becomes more efficient with a standardization of work processes and alignment of efforts bolstered by consistent and timely information dissemination. With worldwide access through the internet, document turnaround time and verification is streamlined. The Mustang PIM systems approach allows the flexibility of retrieving only relevant information, putting it in the hands of those who can use it, while leaving the native programs to remain as the source data repository.



Comments from client project teams validate the Mustang PIM method. Reports from a current major Gulf of Mexico deepwater project state that everyone is working from fresh information, updated at the end of the day instead of waiting for the information to be officially issued. They further indicate that it easily enables verification of consistency against specifications – a “priceless” quality check during execution prior to issuing P&IDs and ISOs.

Mustang's PIM expertise provides the client with a full-service solution. As an EPCm provider, we begin to generate information from a project's inception and continue to build data progressively, readying it for handover whenever required. Our PIM mission is to make document and data access and sharing easy. With an understanding of the information needs of all project participants including project management, engineering, operations and maintenance, asset management, HSE personnel and others, the group has dedicated itself to providing the processes, software solutions and trained staff to support full lifecycle information management.



Mustang's experienced information specialists are responsible for supporting AVEVA NET data management.

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