



# International EAM & SAP S4 Implementation

At a global drilling rig contractor

**Case Study**

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## Objective

- Replacement of the existing maintenance system with standard SAP Plant Maintenance capabilities for International Operations
- Compliance with the Supply Chain Operational Standard for Inventory Management through:
  - ◊ The creation of bills of materials (BOMs) to link inventory to equipment to improve the planning and sourcing of consumable items for planned maintenance
  - ◊ The categorization of Consumables and Critical Spares to improve visibility of critical spares and mitigate downtime
- Compliance with regulatory obligations, country specific legislation, contractual requirements and standards set by operators
- Leverage on existing SAP Functionality and showcase the scalability of processes aligned to international standards
- Implement a scalable solution for North America with the SAP S4 Implementation Project

## Approach

- Establish global standards and common processes to provide the foundation to move into Condition Based Maintenance
- Data improvement/cleansing including:
  - ◊ Technical Object Hierarchies and identification aligned to international industry standards
  - ◊ Documentation linked to equipment (documentation reconciliation)
  - ◊ Bill of Materials, developed components that are required for scheduled maintenance

## Solution

- Work Orders utilized to record preventive and corrective work for tracked equipment
- Maintenance strategy, plans, task lists, and bill of materials created for Top Drives, Engines & Well Control equipment
- Standardized Equipment structure across all rigs to improve visibility of equipment and accuracy of equipment transfers with new parent/child relationship
- Electronic documentation: manuals, drawings, equipment maintenance practices, Equipment Certificate of Conformity (COC), Manufacturing Record Book (MRB), etc., available in SAP

## End Result

- Ability to report on equipment malfunctions which provides the cross reference between preventive scheduled maintenance and corrective work, costs (planned versus actual comparison), materials used, tracking overdue maintenance and corrective repairs; capturing the information throughout the process allows for insight on how to improve maintenance strategies and visibility into the lifecycle cost of ownership of equipment
- Improved visibility into scheduled preventive work for rig managers/field superintendents and improved accuracy for equipment usage



# AMA

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