SMARTPLANT® ENTERPRISE FOR OWNER OPERATORS OPERATING PLANT SOLUTION

The Intergraph® SmartPlant® Enterprise for Owner Operators (SPO) Operating Plant solution builds on the SPO Core solution and provides common, critical work processes for the operations and maintenance phase of a plant’s life cycle.

MANAGEMENT OF CHANGE FOR OPERATIONS

Maintaining the accuracy of essential plant engineering, maintenance, and operations information is crucial to safe and efficient plant operations. Traceability of plant changes and auditability of the management of change (MOC) process is essential to demonstrate compliance with regulatory requirements. The Management of Change for Operations business process provides rigorous MOC of engineering information with full traceability and audit trail.

This solution supports the synchronization of information between the engineering design basis in SPO and other third-party systems such as computerized maintenance management systems (CMMS) to ensure that:

- All maintainable equipment is captured and has an appropriate maintenance plan.
- Change in the design basis for equipment is reflected in the CMMS to ensure correct purchase of replacement equipment and parts.

This integration can be configured for any third-party CMMS system, but out-of-the-box, supported integration is available for SAP EAM (aka PM). Tags created, updated, or terminated in the design basis will trigger an automated update of the corresponding functional location in SAP® EAM using SAP NetWeaver® PI as middleware. The tag types to be synchronized to SAP as Functional Locations can be configured, as can the tag life-cycle statuses that trigger synchronization. The attributes to be sent to SAP for Functional Locations can be configured per class. For example, the tag properties that are sent for a pressure transmitter can be different for those properties sent to SAP for a pressure vessel. Similarly, when you install or replace equipment against a functional location in SAP EAM, you’ll receive an update of the corresponding data in SmartPlant Foundation that holds the links between tag, functional location, and equipment. Again, this synchronization process is generic and can potentially be extended to other third-party systems, including parallel synchronization with multiple operations systems if needed.

The preconfigured MOC process includes the review, authorization, design, approval, implementation, and incorporation of as-built updates. It also addresses the process of notifying maintenance to perform changes by optionally creating notification records in the plant maintenance system when changes have been approved. You can also perform the impact assessment of engineering change. During the planning of engineering change, plant engineering must anticipate the MOC implications of planned plant change. The system will assist you in assessing the plant items affected. The linking of affected plant items to changes also facilitates the assessment of change impacts with other ongoing or pending changes.

The Management of Change for Operations business package offers automated, bi-directional synchronization of data between the engineering design basis and SAP PM.
INSPECTION ASSISTANT

Plant owners must meet increasing regulatory demands for demonstrable compliance with requirements for equipment inspection. The Inspection Assistant business package manages the scheduling of equipment inspections, the capture of inspection results, and follow-up of punch items. The process is aided by an automated workflow to provide auditable traceability of the entire process. For each inspection, multiple inspection check sheets are generated, one for each inspection point. These inspection check sheets can be completed in the field on hand-held devices, then uploaded to SPO when returning to the office.

The SPO Mobile Inspection Assistant (available separately as part of the SPO Mobile Apps solution) allows the user to download an inspection package containing drawings, inspection instructions, and check sheets onto a mobile tablet or laptop. The user may browse documentation offline in the field including intelligent navigation between 3D models, TruView laser scans, and intelligent schematic drawings. Check sheets and punch lists may be recorded in the field and photographs or videos captured. Information captured in the field can be easily synchronized with SPO with just a single click once the user has network connectivity.

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