HITACHI ABB

ENTERPRISE ASSET MANAGEMENT

Asset Suite EAM
Process optimization for power generation.

Optimize and maintain your critical assets
with a global market leader in EAM.

Industry challenges

The power generation business is facing narrower margins, requiring companies to be more diligent in managing their operational and capital expenses to remain competitive. Decisions are more time-critical than before, and new threats are constantly emerging on the cyber security front. More firms are turning to data-driven asset and work management strategies to reduce maintenance, repair and operational (MRO) costs on aging assets without sacrificing safety or reliability.

The solution

Asset Suite is specifically designed to address the unique challenges faced by power generation and other industries with complex, mission-critical plant environments, where failure can have catastrophic consequences. Asset Suite helps plant operators standardize and streamline work processes to maximize worker productivity and improve asset performance through increased availability and reliability. With a focus on mobility and analytics, Asset Suite delivers key functionality to enable all users to perform efficiently and effectively.
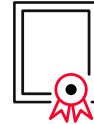
Using the Agile model, Hitachi ABB Power Grids offers our customers a truly collaborative development process, where your input is used to drive prioritized delivery of new features. A strong cyber security framework ensures that the software is secure by design, reducing vulnerabilities.

With Cloud deployment, the total cost of ownership is significantly reduced, allowing greater expansion of IT/OT integration to encompass more departments and processes. This means greater efficiency on critical functions and increased visibility across the organization.

Core modules

Asset Suite EAM's three core modules provide a complete solution for effectively managing assets and MRO costs to achieve the highest level of performance and safety.

Asset & Work Management

Optimize the performance of your assets, while making sure the right crew and equipment are available at the right time to perform the work

- Manage database of all assets and uniquely identified components
- Track and manage assets that dynamically change location, owner, and status
- Support predictive maintenance and reliability-centered maintenance
- Leverage mobile and RFID technologies to enable preventive and condition-based maintenance of mobile and dispersed assets
- Create designs and estimates for customers and field construction
- Manage changes in asset configuration
- Assign and track follow-up activities
- Maintain a comprehensive service and work audit history to support Sarbanes-Oxley and other industry regulations
- Provide references to documentation sources including drawing coordinates, document sections, paragraphs, or pages
- Support document indexing, revision control, controlled distribution, user notification, and retrieval
- Update/fine-tune model work orders based on actual work history

Materials & Procurement Management

Lower supply chain and inventory costs and reduce system complexity

- Manage warehouse details including row/bins, cycle counts, issuing, and kitting/staging
- Provide detailed part traceability from manufacturing to installation point
- Manage uniquely-tracked commodities (tools, mobile equipment)
- Factor return-to-stock and repairable items into inventory levels
- Conduct inventory management analysis using flexible tools that promote informed stock decisions
- Leverage skills of both engineers and buyers in procurement assessments
- Promote paperless processing of purchase orders, quotations, and invoices with electronic data interchange functionality
- Track costs and commitments at the project level to avoid budget overruns
- Support e-Commerce processes while ensuring all procurement rules are met and avoiding rebuying material that is already in stock
- Allow pay-on-receipt processing without the need for hard copy invoices
- Establish facility-level security to separate regulated and non-regulated business units according to FERC requirements

Safety & Compliance Management

Ensure the safety and security of your employees and the community, and maintain compliance with regulatory bodies

- Electronically manage personnel qualifications to maintain proper certification and training
- Automate the integration of material safety data sheets and equipment tagout in work processes
- Include permit requirements and risk assessment functionality in work packages
- Schedule permit expiration reports to run on a regular basis
- Monitor total exposure, including internal and external radiation doses, in nuclear environment

Integrated mobile applications

Asset Suite features fully-integrated mobile applications, making it easy for ground crew to follow established processes and exchange real-time data with the system as they perform their work. Mobile applications include:

• AnyWare for Inventory

• Action Manager

• Mobile Approvals

• eMaintain

• eRoutine

Supported mobile operating systems for all mobile applications include:

• Google® Android™

• Apple® iOS™

• Microsoft® Windows® Mobile

AnyWare for Inventory
Mobile inventory management

AnyWare for Inventory enables personnel working within a warehouse, yard or storeroom environment to interact directly with Asset Suite EAM on mobile phones or tablets over LTE or Wi-Fi networks. Workers can update the system in the course of everyday tasks, rather than having to spend extra time at the end of their shift to log their work. This reduces time spent on administrative tasks and increases the timeliness, accuracy and completeness of information in the database.

Features
AnyWare for Inventory supports key inventory functions that warehouse and stockroom workers perform on a daily basis:

• Receipt pages log receipts

• Scheduled and ad hoc put-away

• Pick process

• Staging

• Cycle count

• Shipping

• Returns

• Bin movement

The user interface is simple and uncluttered, and tasks are designed to be completed with minimal keystrokes. On scanner-enabled devices, the app supports barcode scanning of purchase order, advance ship notice, warehouse location, catalog ID, legacy stock numbers, UTC numbers, packing unit ID, ship unit ID and truck ID.

Benefits

• Supports scannable data entry for faster data capture

• Eliminates expensive software interface development

• Increases productivity by eliminating paper-based processes

• Reduces non-productive and administrative activities

• Increases quality, timeliness, accuracy and completeness of information

Mobile Approvals
Instantly review and approve work

Mobile Approvals makes it easy for users to review and approve work and financial activities on their mobile devices. The app is designed for managers and supervisors who must approve activities before work, contract or payments are allowed to proceed. The clean user interface presents pertinent information needed to quickly decide to approve or deny a request

Work-related approvals include:

• Action requests

• Work requests

• Work orders

Finance-related approvals include:

• Buy contract transactions

• Accounts payable invoices

• Employee timesheets

Benefits

• Boost productivity and efficiency with approvals taking seconds instead of days

• Greater transparency and accountability, with clear records of the requestors and approvers

• Better activity tracking means no more duplicate orders or payments due to lost paperwork or buried emails

eMaintain
Smarter work package management

eMaintain electronically creates, delivers and tracks mission-critical work packages throughout the work management process, from the time that they are ready to work. eMaintain integrates seamlessly with Asset Suite to manage and synchronize work package status, progress and data throughout the work package lifecycle.

Features and benefits

• Completely paperless creation, delivery, tracking and archiving of work packages

• Reduce or eliminate non-productive tasks associated with paper-based processes

• Supports full integration with Asset Suite

• Flexible to meet your business processes

• Easy connectivity to any packaged or internal system

• Works in both online and offline modes

eRoutine
Simplify routine processes

eRoutine is specifically designed for less complex, smaller work tasks that can take advantage of an overall streamlined and simplified work process. eRoutine electronically creates, delivers and tracks your minor work tasks throughout the work management process, from the time that they are ready to work, to completion and if desired, record archiving.

eRoutine seamlessly integrates with Asset Suite to manage and synchronise work task status, progress and data throughout the work task life cycle. It can also be used independently from the EAM system.

Features and Benefits:

• Streamline minor work task processes

• Reduce administrative time and costs by eliminating paper-based processes

• Supports full integration with Asset Suite

• Flexible to meet your business processes

• Easy connectivity to any packaged or internal system

• Functions in both online and offline modes

Asset Suite offers excellence in both organizational and human performance through standardized business processes, best practices, benchmarking and learning. The solution enables you to:

- Capture labor and material costs and asset performance data to evaluate performance trends and root causes of past failures

- Ensure compliance with generation regulatory guidelines

- Easily deploy on premises or in the cloud through virtualization architecture technology

Additionally, the cloud deployment option takes infrastructure management off your hands and lets you focus on your core business.

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