AssetWise APM/SAP
Enterprise Asset Management (EAM) Connector
Built-in, Tested and Certified SAP Integration for Optimized Equipment Performance

The performance-based front-end to SAP EAM, AssetWise APM provides asset strategy, condition-based and mobile inspections and maintenance, consolidation and analysis of data from multiple sources to trigger work orders in SAP. AssetWise APM also provides backend analytics for continuous improvement of the living reliability program. Together, SAP and AssetWise APM enable a proactive daily process for operations and maintenance excellence.

AssetWise APM Supports and Drives a Proactive Asset Performance Management Process
Today’s maintenance organization must be forward thinking in its strategy to manage asset performance, integrity and reliability. With AssetWise APM as a front-end to SAP Enterprise Asset Management, you can significantly improve your department and company results; increasing asset availability and utilization while lowering costs. In addition, AssetWise APM will reduce risk associated with asset failures and improve safety.

AssetWise APM drives a proactive process for asset performance, effectively changing the behavior of maintenance and operations. With one centralized view of asset health, AssetWise APM acts as a repository for reliability and integrity asset management programs. It consolidates condition data from visual inspections, predictive maintenance technologies, online systems, controls, sensors, and data historians. Automating the evaluation of equipment condition data to alarm by exception, AssetWise APM detects the onset of failure early, then recommends actions based on an alarm. The alarm triggers the right work on the right equipment at the right time directly in SAP.

Access to SAP in the Field
AssetWise APM includes mobile capabilities so that engineers and technicians have direct access to information required for inspection and maintenance tasks while in the field, either connected or disconnected. APM Remote provides visibility to the asset hierarchy, work, and asset history with ability to create corrective work orders or work requests while in the field. Standardized responses to condition inspection checks ensures consistency between inspectors, reduces errors, eliminates interpretation, and ensures timely response because it’s automated. Engineers have visibility to overall asset health and alarm states are immediately available as readings are input.

The AssetWise APM/SAP EAM interface is built-in, tested and certified by SAP. Bentley is an SAP Technology and Solution Partner.

Business Benefits
- Reduce risk and ensure safety
- Ensure predictable production
- Eliminate unexpected downtime
- Increase availability and asset utilization
- Reduce costs
- Ensure compliance with industry regulations
- Eliminate islands of data
- Aligned with ISO 55000 and PAS 55 standards

IT Benefits of the Interface
The built-in, tested and certified interface provides the following IT benefits:
- Maximizes investment in SAP ensuring the right work is executed at the right time to optimize asset performance
- Accelerates SAP EAM time-to-value
- Ensures ease of setup and correct behavior in the SAP environment through SAP certification
- Eases administration through automated synchronization of key data
- Reduces costly integration efforts
- Streamlines IT infrastructures
- Accelerates the deployment of AssetWise APM with SAP EAM
**System Requirements**

**Deployment Options**
- Smart client three tier (LAN or WAN)
- Stand alone
- Client server (LAN)
- Citrix/Terminal Services (WAN)

**Databases Supported**
- Microsoft SQL Server and Oracle

**Technical Architecture**
- Microsoft.Net
- Winforms user interface components
- Load balancing, application server management, hosted under IIS
- Unified deployment and migration tools
- Source code: C++ (business objects), C# (user interface)
- Open database connectivity using Microsoft ODBC and ADO.net

**SAP Certified**

**Powered by SAP NetWeaver**

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**AssetWise APM SAP Enterprise Asset Management Connector At-A-Glance**

**Equipment Record, Hierarchy and Functional Location Synchronization**
- Synchronizes key equipment and functional location master data
- SAP EAM remains the master for all key equipment and functional location data
- APM draws from the SAP master data to build asset reliability programs and manage asset performance

**Asset Risk Prioritization/ABC Indicator Synchronization**
- Essential part of upfront strategic planning
- Helps ensure success of reliability initiatives
- Establishes an overall strategy with clear understanding of the risks to the business associated with your equipment (operational, safety, environmental, etc.)
- Resulting consequence priority (priority ranking number) is synchronized to the ABC Indicator for an equipment record and functional location in SAP EAM
- APM updates the SAP EAM ABC Indicator when an equipment (asset) risk prioritization analysis is completed

**Asset Reliability Strategy Development**
- Technically based reliability programs from RCM, RBI and MTA analyses form the basis for proactive maintenance
- The complete program resides in APM
- Link indicators of asset condition directly to failure modes

**Mobile Inspections and Maintenance**
- AssetWise APM improves access to critical information in the field
- Work disconnected from the network for extended periods of time while maintaining access to SAP asset master data and work history
- Full list of inspection tasks with ability to trigger work requests and work orders as well as record items that are fixed during inspection
- Reduce errors in recording inspections and maintenance work in the field and gain timely data on which to make fast and accurate maintenance decisions
- Task List and Maintenance Plan Synchronization
- Task lists in SAP EAM synchronized from the asset strategy
- Linked to failure modes
- All types of task lists including general, equipment function and location-specific are synchronized and may be referenced on alarms
- Condition indicators in APM recommend specific SAP task lists when an alarm is triggered
- When a maintenance task is initiated in SAP, APM links back to the cause of failure (failure mode).

**Work Order Creation and Close – The Right Work at the Right Time**
- Using AssetWise APM to monitor the health of your equipment, all sources of condition data are consolidated and analyzed then alarms are triggered when an indicator is out of normal range or when a set of rules or calculations indicate that there is a problem
- With the acknowledgement of the alarm, either a notification or work order is created in SAP EAM
- The notification indicates the equipment specific task list or functional location that is recommended as the appropriate pre-planned activity
- When resulting work is completed, the notification is closed and status returned to APM to drive important failure statistics