

Infor Public Sector CBM

Condition Based Monitoring for Infor Public Sector Asset Management

Powered by Mtelligence™ MIMOSA
Interop Server™

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INFOR™

Infor Condition Based Monitoring

This document provides an overview of Infor Public Sector's Condition Based Monitoring (CBM) for public sector asset management solutions.

Infor Public Sector's CBM solution for asset management is powered by Mtelligence™ MIMOSA Interop Server™. Infor and Mtelligence's CBM helps agencies and utilities improve asset performance by focusing maintenance on the right equipment at the right time using plant floor real-time data to prioritize and optimize maintenance resources.

Infor's CBM gives maintenance planners, as well as operators, better visibility into the true condition & health of production equipment. By monitoring process data from Supervisory Control And Data Acquisition (SCADA) and Human Machine Interface (HMI) systems and plant historians, equipment issues can be caught before costly unplanned downtime occurs. One of the keys to Infor's CBM solution is the tight integration with its family of Enterprise Asset Management (EAM) and Computerized Maintenance Management Systems (CMMS), Infor Hansen, Infor EAM, and Infor MP2, so that improved decision making & visibility is incorporated into the existing maintenance management process. Furthermore, Infor's CBM HMI graphical controls enables operators to gain visibility into past maintenance, as well as upcoming work orders, right from inside InTouch® and many other leading HMI. This helps avoid disruptive surprises in maintenance scheduling, and also enables operators to create maintenance work requests directly from their InTouch HMI screens.

Key capabilities of Infor's CBM:

- Asset Health Monitor – predict equipment problems before they fail, generating predictive risk-based work requests into the EAM/CMMS
- Equipment Runtime Hour Calculator
- Automatic upload of equipment runtime hours/cycle counts/other meters, to EAM/CMMS
- Visual mapping of SCADA/Historian tags to EAM assets
- Asset Health Analyzer Tool
- System Activity Monitor to view real-time events being processed by CBM

Benefits

- Prioritize maintenance based on actual equipment need, reducing unnecessary calendar maintenance
- Eliminate manual collection of meter data and hand entry to the EAM/CMMS
- Empower operators to communicate more proactively to maintenance (operator driven reliability)
- Give operators visibility into upcoming maintenance activities right from the HMI
- Predict and prevent equipment failure using the Asset Health Monitor, reducing unplanned downtime

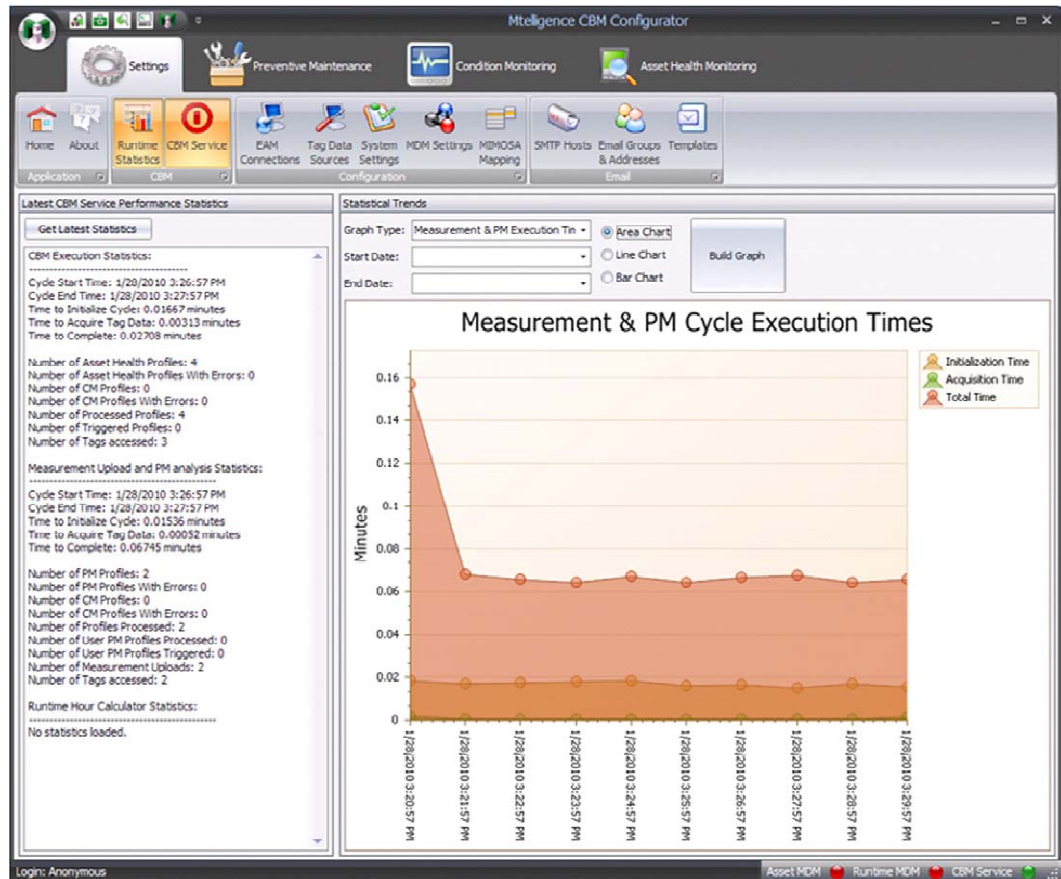
“Finally, software that turns the complex task of industrial condition based monitoring into something simple. Now we can roll out CBM in days without having to spend months of custom engineering to implement it.”



Infor’s CBM Advantage

Why build your own solution when you can gain the following benefits from Infor’s CBM solution?

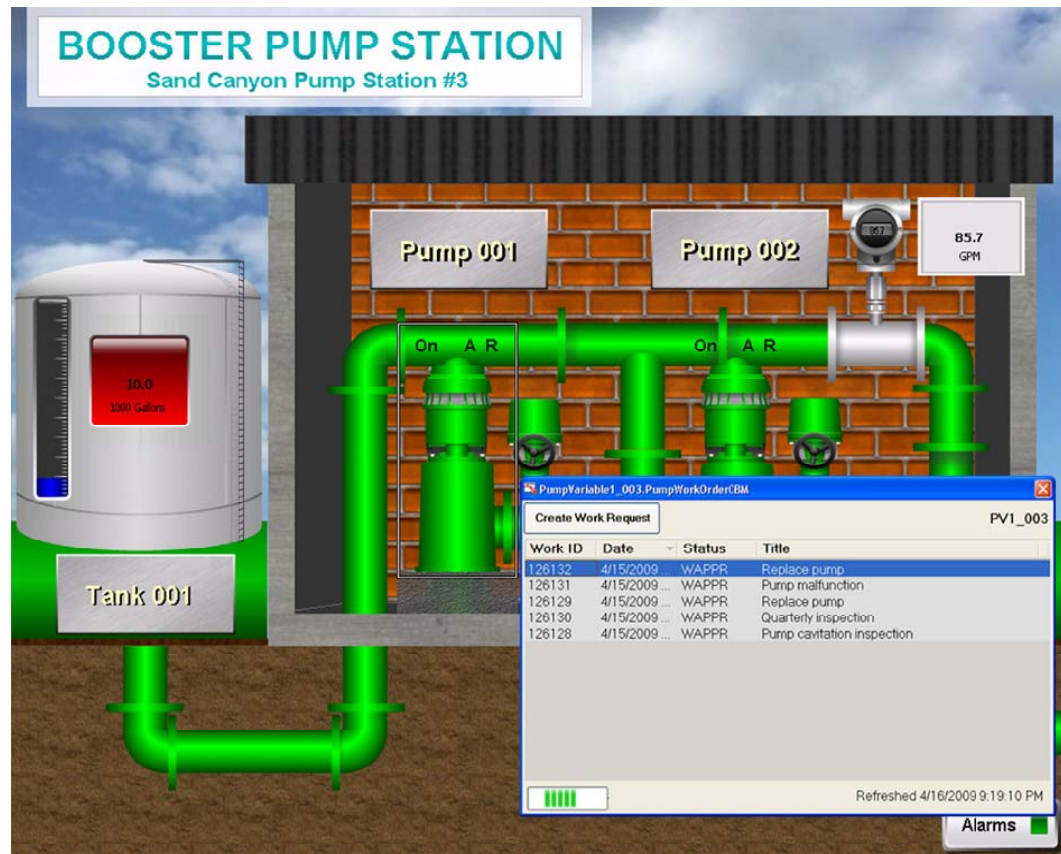
- **Certified CMMS upgrade support** — Eliminate costly system upgrades with certified support for new versions of Infor EAM/CMMS systems
- **Asset Health Monitor** — Advanced calculation and rules engine for predicting equipment problems before they fail
- **Proven scalability** — Multi-threaded CBM engine supports scalability for the largest facilities in the world
- **Fault tolerance** — Gracefully handle connectivity loss to EAM/CMMS or to plant or shop floor SCADA/HMI systems, with automated retry and backfill logic
- **Asset lifecycle management** — Handles asset replacements, with rules to update mappings and other lifecycle events



HMI Operator Work Controls

The system also delivers work order information to InTouch and many other HMI displays allowing operators greater visibility into ongoing maintenance activities along with the ability to create work orders directly from their HMI screens.

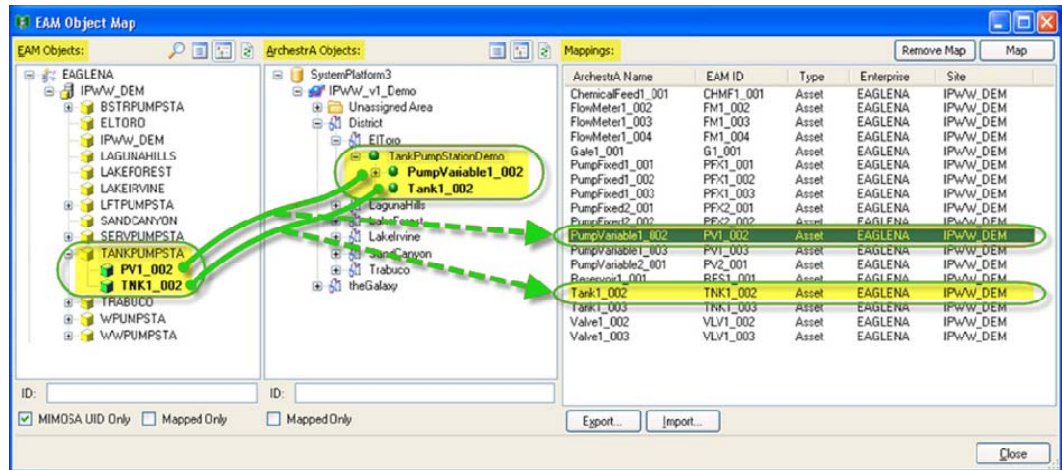
- Machine-condition data collected by operators can be stored and displayed on operator HMI screens or used in production or operations reports. Operators can also request a work order while in the field if they see conditions that need immediate attention, helping prevent equipment problems from turning into costly downtime.
- Using these tools, developers can build highly extensible HMI applications that provide visibility into work order history and status.



Mapping Wizard

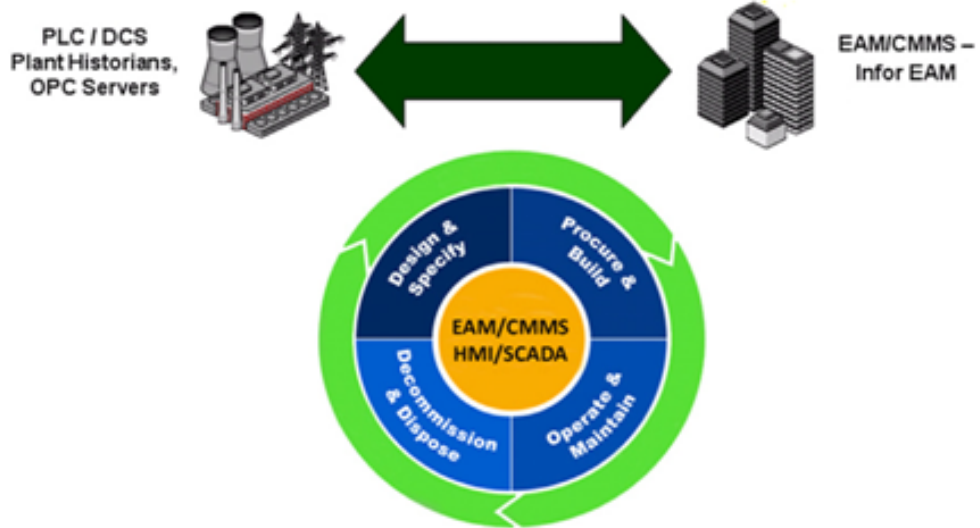
- Hierarchical Mapping Wizards enable users to map multiple Tag Data Sources to the EAM Asset Hierarchy and to manage mappings across the entire asset lifecycle.

- Mapping of Infor EAM/CMMS assets or locations to HMI tags is greatly simplified with this powerful hierarchical mapping wizard. Logic is automatically generated to enable mapping at runtime, which enables dynamic updating of asset information.



Certified EAM Adapters

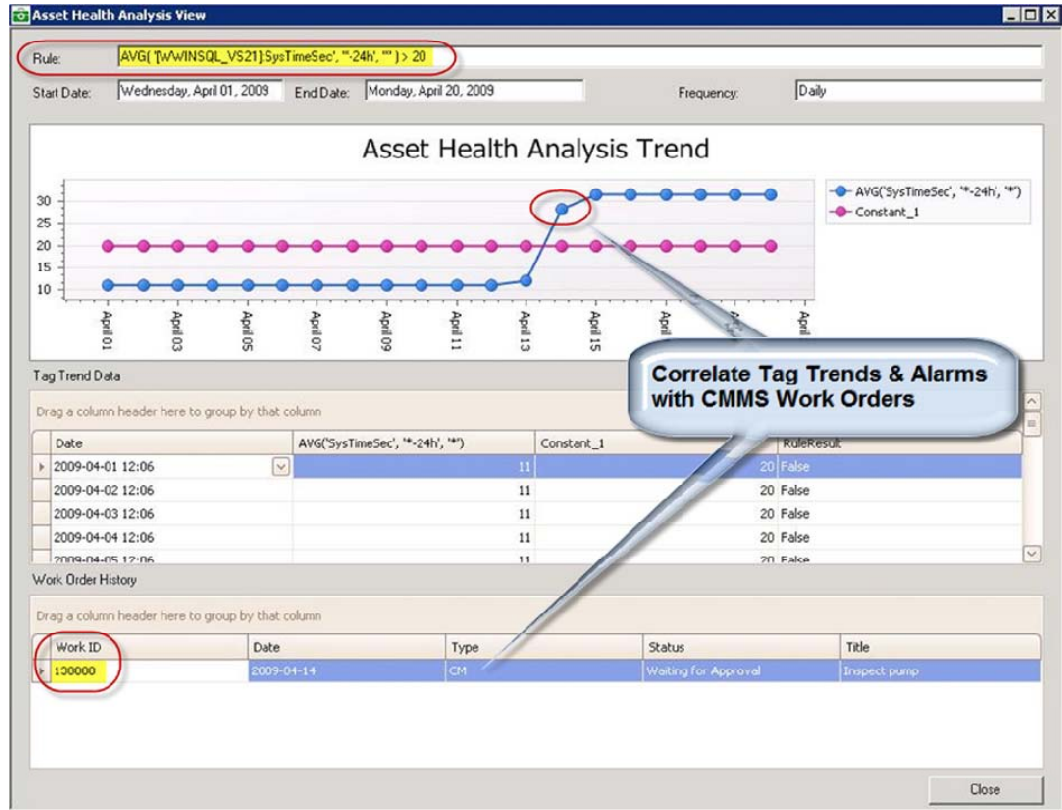
- Certified EAM adapters provide out-of-the-box, plug and play compatibility with Infor EAM/CMMS solutions on the market today.
- Mtelligence’s MIMOSA Interop Server is certified Open Standard software following Open O&M™ Initiative

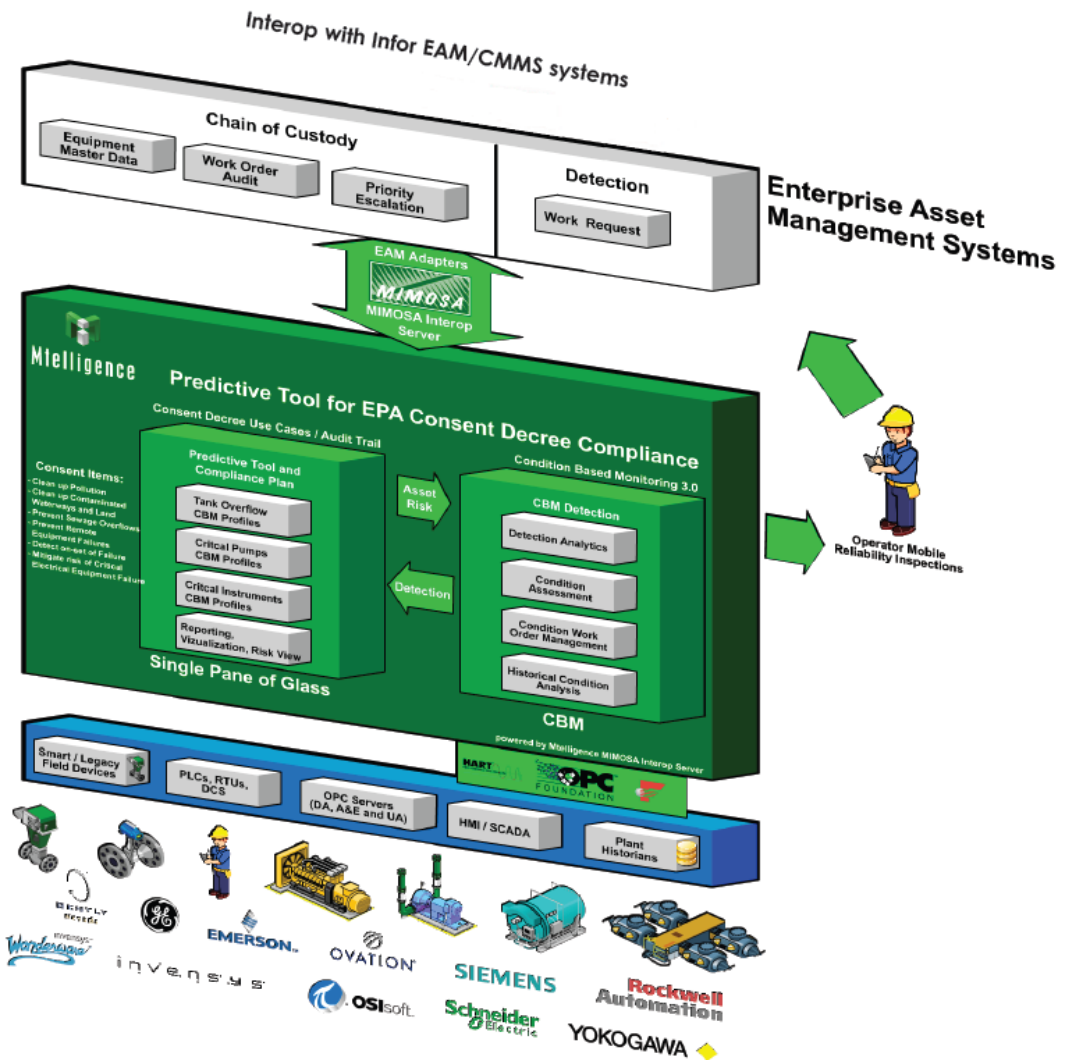


Asset Health Analysis

- Asset Health Analyzer can perform statistical analysis on historian tag trends and correlate with CMMS work order history to generate rules for condition-based monitoring. This provides actionable intelligence to your maintenance planners as well as operators.

- Asset Health Analyzer allows users to perform historical “what-if” analyses, to analyze equipment condition data over time. It also enables users to view trend data from preventive maintenance, corrective maintenance, and asset health profiles defined by the CBM Configurator.





Infor and Mtelligence's CBM Solution Diagram

About Our Partner

Mtelligence delivers greater visibility and greater returns on asset performance through the Maintenance Intelligence™ platform including the MIMOSA Interop Server™. Mtelligence solutions enable customers to maintain the right equipment at the right time, leveraging real-time plant data to prioritize and optimize maintenance resources. The company is a recognized thought leader in Open O&M and MIMOSA open standards, breaking down barriers to reliability by connecting plant and business, enabling increased availability, improved coordination between operations and maintenance, and reduced maintenance costs.