Tivoli® software

IBM

IBM Maximo Asset Configuration Manager

Highlights

- Automate asset life-cycle management in complex operational environments

- Leverage a rules-based configuration approach, for increased flexibility

- Better meet compliance reporting requirements for real-time asset configuration data

- Evaluate operational status more accurately

- Reduce costs and extend asset life by enabling more proactive maintenance planning

Essential asset accountability

In regulated industries with complex assets—such as transportation, aerospace and defense, nuclear and life sciences—management of asset configuration, component life accounting and equipment operational status is critical to the success of an operation.

The suite of asset and service management solutions from IBM provides a new method for managing the assets of these organizations. With a sharp focus on safety, reliability and availability of equipment, IBM Maximo® Asset Configuration Manager more accurately tracks the current status of and historical changes to the configuration of assets and their components. As a result, maintenance officers gain an automated asset life-cycle management solution that helps provide a real-time calculation of both an asset's build (from install/remove transactions) and a component's life (from install/remove and usage transactions), including the real-time application of cycle formulas. Maximo Asset Configuration Manager provides key capabilities needed by organizations managing aviation, aerospace and defense, rail, nuclear and pharmaceutical assets.

Active asset life-cycle management

With Maximo Asset Configuration Manager, IBM offers an industry solution focused on active management of the configuration of complex assets. There are three fundamental software building blocks required to provide more effective, automated asset life-cycle management in a complex operational environment. Maximo Asset Configuration Manager provides the following capabilities to address complex assets:

- Configuration management
- Component life accounting
- Operational status management

Rules-based configuration management

A build configuration management system manages the as-designed configurations of complex assets such as aircraft, locomotives and vessels, as well as associated roles, variants, missions and maintenance plans. Rules-based systems offer greater flexibility and power. Maximo Asset Configuration Manager's Logistics Support Analysis Record (LSAR) system is a rules-based configuration management system currently designed to help users comply with MIL-STD-1388-2B, a U.S. military standard that employs the LSAR.
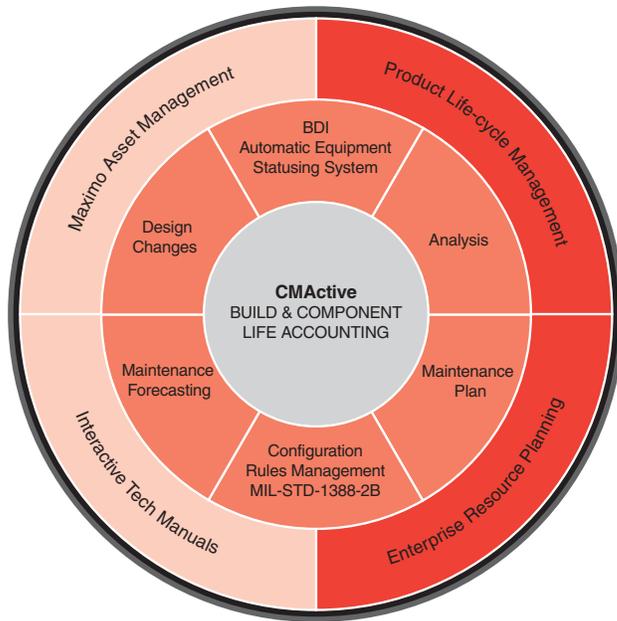
Key software modules of IBM Maximo Asset Configuration Manager include CMActive for component life accounting, Configuration Rules Management for build configuration management, and the Build Data Interpreter (BDI) for operational status management.

Component life accounting — beyond tracking

A successful life-cycle support strategy relies directly on an efficient underlying maintenance plan. In turn, the maintenance plan relies on the accurate accounting (and not simply the tracking) of component life. The Maximo Asset Configuration Manager CMActive system is unique in that it derives build and component life data from transactional logs, allowing conflict detection and resolution, unlimited backdated changes to install/remove and usage records, and on-the-fly historical at-the-time asset build and component life views. Additional benefits enabled by CMActive include high-tolerance data conversion, distributed data management, store-and-forward capabilities, advanced maintenance forecasting and flexible external system interfacing capabilities.

Operational status management

By comparing an asset's actual build to its intended configuration (or configurations) and by evaluating the current status of the asset's maintenance plan, an overall operational status can be calculated. Maximo Asset Configuration Manager refers to this complex evaluation process as "status interpretation," and it is performed in pseudo real time by the Build Data Interpreter (BDI).

The output of the BDI is used to drive a status board or other reporting or alert mechanism, providing a more accurate overall operational status.

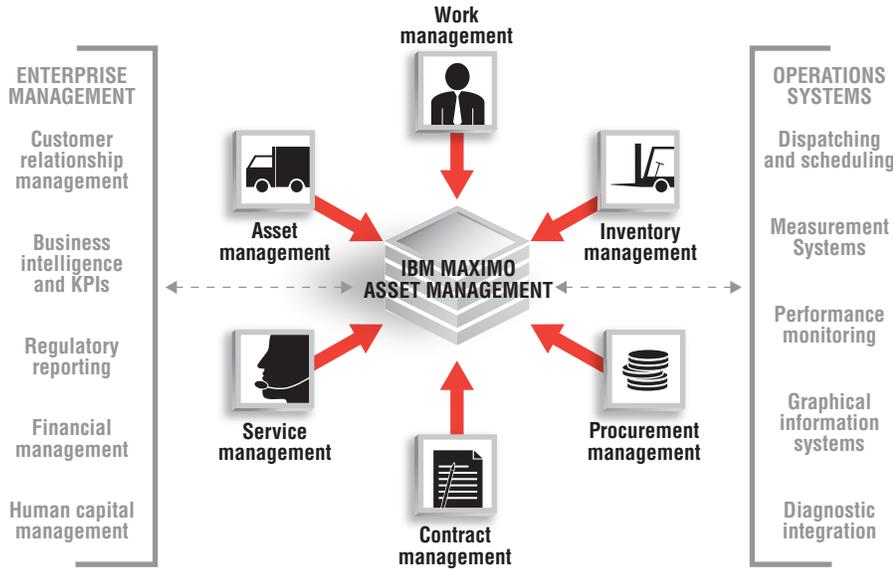## Leveraging efficient configuration management

Maximo Asset Configuration Manager enables the real-time calculation of both asset builds and component life. The ability to manage configurations efficiently throughout each asset's life cycle enables a wide range of benefits, including:

- Improved management and monitoring of compliance efforts
- More effective maintenance activities
- Reduced records management costs
- Improved supply chain sourcing

Architecture matters

Built entirely on a Java™ 2 Enterprise Edition (J2EE™) component–based Internet architecture, Maximo software integrates more easily into most existing business systems. Its service-oriented architecture (SOA) is truly open to better enable integration with enterprise resource planning (ERP), customer relationship management (CRM), performance monitoring, supply chain management (SCM) and many more applications.

IBM Maximo Asset Management

ENTERPRISE MANAGEMENT
- Customer relationship management
- Business intelligence and KPIs
- Regulatory reporting
- Financial management
- Human capital management

Work management

Asset management

Inventory management

IBM MAXIMO ASSET MANAGEMENT

Service management

Procurement management

Contract management

OPERATIONS SYSTEMS
- Dispatching and scheduling
- Measurement Systems
- Performance monitoring
- Graphical information systems
- Diagnostic integration

IBM Maximo Asset Management provides a single, unified platform that supports a wide range of asset and service management functions.

The underlying technologies within Maximo software make it easier to tailor without programming, allowing you to work the way you want to work and not be limited or constrained by the solution's capabilities. This exceptional level of flexibility helps you configure Maximo Asset Configuration Manager around your organization's key business requirements, better positioning you to adapt to changing business needs.

Part of a seamless asset management solution

Part of the IBM Tivoli® software portfolio, Maximo Asset Configuration Manager helps organizations maintain assets more efficiently, extend asset life, reduce operating costs and more effectively monitor and manage their efforts to meet compliance requirements. Maximo Asset Configuration Manager integrates seamlessly with other asset management and work management functions through IBM Maximo Asset Management. Maximo Asset Configuration Manager and Maximo Asset Management comprise an adaptable asset management solution based on an industry-standard, service-oriented, Internet-ready architecture.

For more information

To learn more about IBM Maximo Asset Configuration Manager, please contact your IBM representative or IBM Business Partner, or visit **ibm.com**/tivoli

About Tivoli software from IBM

Tivoli software provides a set of offerings and capabilities in support of IBM Service Management, a scalable, modular approach used to deliver more efficient and effective services to your business. Helping meet the needs of any size business, Tivoli software enables you to deliver service excellence in support of your business objectives through integration and automation of processes, workflows and tasks. The security-rich, open standards-based Tivoli service management platform is complemented by proactive operational management solutions that provide end-to-end visibility and control. It is also backed by world-class IBM Services, IBM Support and an active ecosystem of IBM Business Partners. Tivoli customers and business partners can also leverage each other's best practices by participating in independently run IBM Tivoli User Groups around the world — visit www.tivoli-ug.org

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