

Objectives

Solution

Benefits

Quick Facts

SAP Solution Brief

SAP Solutions for Enterprise Information Management | SAP Master Data Governance,
Enterprise Asset Management Extension by Utopia

Optimize **Enterprise Asset Productivity** with Comprehensive Master Data Governance

THE BEST RUN





Maintain a **unified view** of master data across the enterprise

For asset-intensive enterprises – including utilities, mill products, mining, and travel and transportation – equipment and plant availability and productivity are paramount. More than ever, organizations like yours need accurate, up-to-the-minute data to manage complex assets throughout the lifecycle, maximize uptime, and improve responsiveness to changing circumstances.

Master data is at the core of digital business and critical processes, and asset-oriented industries depend on reliable information to enable productivity and enhance decision-making for managing equipment, plants, spare parts, and fleets. To help keep assets – and the business – running efficiently, you need to strategically govern master data, the ways it is owned and originated across the organization, and how it is consumed through software and analytics. In doing so, you can become an intelligent enterprise.

With unified information management, you can boost visibility and control of master data creation and change and maintain a single version of the truth. You can tap the potential of Big Data and the Internet of Things content for insights. Eliminating manual information updates across disparate applications reduces omissions, inaccuracies, and delays while promoting safety and compliance across maintenance, repair, and operations processes.

Maintain a unified view of master data across the enterprise



Enable intelligent master data governance

With the SAP® Master Data Governance application, enterprise asset management extension by Utopia, you can create and control master data and enable effective asset lifecycle management and maintenance. You can unify the management of master data related to plant and equipment assets, safeguard enterprise information, and automate processes with machine learning capabilities.

The enterprise asset management extension allows you to deliver a single version of correct, complete master data to all users, base maintenance plans on dependable information, and reduce costs and support informed decision-making. It speeds the transition between build and operational phases for assets and helps keep them up and running.

The extension for SAP Master Data Governance provides a comprehensive solution for all your domains and processes and supports centralized and distributed ownership models of governance. Preconfigured, domain-specific support for master data governance allows you to centrally create, change, and distribute or consolidate master data across your complete enterprise system landscape. Centralized data-creation processes allow users to author new data based on governance policies, while the application supports consolidating, cleansing, enriching, merging, and syndicating data from disparate source systems.

Enable intelligent master data governance

Create a predefined master data model for enterprise assets

Streamline data maintenance and empower business users

Gain insights and enhance visibility with powerful reporting

Control and customize access and track changes to data

Take a proactive approach and get ahead of the curve



Create a predefined master data model for enterprise assets

Standardization is crucial for reliable and consistent information, ensuring the right input for all of your business processes and supporting increased productivity. The enterprise asset management extension provides a predefined model for standard data objects used in enterprise asset management. It helps keep asset master data accurate and up to date throughout the asset lifecycle, from design through construction, operation, and maintenance to decommission. You can define a multilevel functional and equipment hierarchy within your environment using relevant master data objects, such as equipment and functional location master data – a key requirement in asset-heavy industries.



Control and coordinate all processes for managing your master data, starting with the point of creation.

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Streamline data maintenance and **empower** business users

The extension makes master data maintenance faster and more intuitive. With a few clicks, you can view the entire list of master data for enterprise asset management and drill down to specific data objects. You can work on individual data objects or select a range of information for updating. Define business rules to validate data input, helping ensure data accuracy and completeness, and set up authorizations to enforce security and workflows across your business. With the flexible and intuitive interface, you can customize user screens – or define your own – to suit particular business requirements or end-user preferences.

This helps make the data maintenance process as straightforward and efficient as possible, saving time and minimizing errors.

With the extension for SAP Master Data Governance, you can share, visualize, compare, modify, review, and approve asset data among systems of record. These include plant maintenance functionality in SAP S/4HANA®, content management systems such as the SAP Extended Enterprise Content Management (SAP Extended ECM) application by OpenText, geographic information systems, and engineering design systems.

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The extension takes advantage of strengths of the SAP Asset Information Workbench application by Utopia for SAP S/4HANA and integrates with SAP Asset Intelligence Network to provide direct access to equipment data and related information. Integration with SAP Asset Intelligence Network helps you access external and internal information sources more efficiently and enrich data for propagation to internal systems, including system control and data acquisition functions and document management systems. And thanks to its integration with SAP Extended ECM, you can maintain a central repository of asset-related content including engineering drawings and product manuals and videos.



Maintain a single view of master data across the enterprise and **make timely decisions** based on accurate, real-time information.

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Gain insights and **enhance visibility** with powerful reporting

To help ensure that master data is reliable throughout its lifecycle, the enterprise asset management extension enables you to continuously monitor and manage master data quality in line with business process metrics. Reliable, accurate, and standardized master data supports and improves processes for maintenance budgeting, predictive maintenance, and benchmarking.

Sophisticated analytics functionality powers detailed reporting, including time-dependent and period-dependent versioning, and helps you analyze multiple time periods simultaneously. For example, you can produce a report on the master data of a particular piece of equipment used during two consecutive quarters to see what metrics have changed. Clear reporting provides transparency and traceability across all your asset management operations, and it supports informed decision-making in important areas such as maintenance planning.

Enable intelligent master data governance

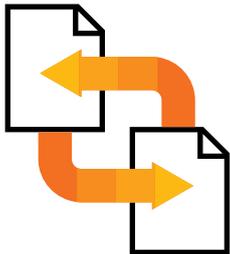
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Continuously monitor and manage master data quality in line with business process metrics, and **ensure master data is trusted** throughout its lifecycle.



Control and customize access and **track changes** to data

With the enterprise asset management extension, you can help ensure that no changes are made to asset management master data without valid business reasons, and that people who make changes have the required clearance. You can configure the change authorization processes to suit your needs, keep detailed records of who makes changes and when, and empower managers with better control over the master-data change process. A verifiable audit trail supports data governance and supports compliance with regulations such as ISO14224.



Maintain **consistent data control** throughout your organization.

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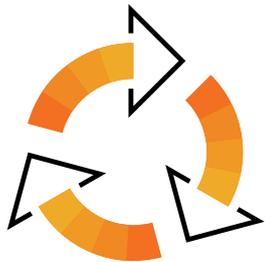
Take a proactive approach and get ahead of the curve



Take a proactive approach and **get ahead** of the curve

The enterprise asset management extension enables you to establish a standard data model across asset management operations. This means you need to change only one set of data, rather than update multiple applications, for increased data consistency and accuracy – and to help ensure all stakeholders are accessing the most recent and accurate information. The exten-

sion for SAP Master Data Governance allows you to manage your enterprise asset management information on the same platform that you use to manage master data for finance, materials management, and supplier and customer relations. By linking and coordinating all master data, you can standardize and streamline data governance processes across the enterprise.



Unify master data creation and maintenance while allowing data to be reliably used and reused throughout your enterprise.

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Inform your intelligent enterprise and enhance performance

The extension bridges master data across cloud and on-premise applications and services and facilitates the smooth exchange of trusted master data with business partners and with mobile apps and devices. With clean master data, you can ensure that downstream client applications collect and deliver accurate and complete transactional information.

With all your asset management applications using full and up-to-date information from the beginning of the build phase, you can minimize delays caused by information gaps revealed when applications become operational. Once assets are up and running, the extension helps ensure

that they stay productive by avoiding shutdowns caused by insufficient or untimely maintenance or missing parts.

Better maintenance planning reduces spares and parts expenses, while advanced scheduling eliminates the need for costly expedited delivery. Increased visibility into maintenance requirements helps you ensure that nothing is missed, enhancing safety across your operations and eliminating the need for time-consuming walk-down audits prior to turnarounds. Your governance strategy can now also extend without configuration to key industries such as utilities and defense and security.

**Inform your intelligent enterprise
and enhance performance**



Summary

Master data powers intelligent enterprises and provides the foundation for digital business. The SAP® Master Data Governance application, enterprise asset management extension by Utopia, unifies and streamlines your data governance processes for enterprise asset management. With better master data governance and accurate and complete information, you can improve maintenance planning, reduce asset downtime, and increase productivity and profits while supporting compliance and safety.

Objectives

- Eliminate data inaccuracies and omissions and improve data quality across the asset lifecycle
- Speed the transition between build and operational phases for assets
- Reduce downtime due to maintenance issues

Solution

- Creation and maintenance of asset master data from within asset management solution processes
- Flexible functionality and configurable data model and user interface
- Business rule enforcement through approval workflows and data validation functionality

Benefits

- Keep master data consistent, up to date, and accurate across the organization
- Increase productivity by keeping assets up and running
- Reduce costs through more-efficient spares and parts management
- Improve safety through more-accurate equipment data

Learn more

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Studio SAP | 32324enUS (18/12)

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