Digitalization is revolutionizing our economy and business models. Customers are increasingly able to tell manufacturers directly – via the internet – exactly what they want and when. To address this challenge, manufacturers need to significantly reduce their time-to-market while massively increasing flexibility to enable individualized mass production, and reduce energy and resource consumption while doing so. Solutions to address this challenge are developed by initiatives such as the Internet of Things and Industry 4.0.

Siemens helps manufacturers become Digital Enterprises by enabling them to digitize and integrate their entire industrial value chain through product lifecycle management (PLM) solutions, manufacturing execution system (MES)/manufacturing operations management (MOM) solutions and Totally Integrated Automation (TIA) equipment. MES/MOM is the core element linking PLM to shop floor automation and providing manufacturers with a real-time industry software layer. Siemens MES, quality management system (QMS), advanced planning and scheduling (APS) and enterprise manufacturing intelligence (EMI) solutions are part of its MOM system, offering a holistic approach to improving manufacturing operations performance and consolidating the management of production execution, sequencing, nonconformance handling and end-to-end quality within one system.

Siemens MOM solutions standardize and optimize manufacturing processes to minimize lead times, optimize asset utilization, reduce global time-to-market and increase production visibility and responsiveness.

Benefits
- Enhance collaboration and visibility across company silos
  - Unique platform for data analytics for all manufacturing-related data
  - Data always accessible from everywhere
  - Always updated information
- Improve decision making
  - Faster and more accurate business and operational decisions
  - New insights to unknown data relationships
  - Get value from huge quantities of plant data that is not always meaningful

Answers to market demands
Digitalization is revolutionizing our economy and business models. Customers are increasingly able to tell manufacturers directly – via the internet – exactly what they want and when. To address this challenge, manufacturers need to significantly reduce their time-to-market while massively increasing flexibility to enable individualized mass production, and reduce energy and resource consumption while doing so. Solutions to address this challenge are developed by initiatives such as the Internet of Things and Industry 4.0.

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SIMATIC IT Unified Architecture Manufacturing Intelligence

Benefits continued
- Increase efficiency and productivity
  - Enable a continuous improvement strategy
  - Improve use of resources thanks to predictable behaviors
  - Effective and right-time measurements enable performance improvement
  - Flexible and scalable solution for new business requirements
- Ability to better decide upon make versus buy issues
- Ability to more accurately predict delivery times
- Ability to reduce the risk of product failure or delay

Features
- Uniform data platform for operational and enterprise data provides a common vision across the company
- Governance and data integration for MOM ecosystem
  - Manufacturing analytical data model based on standards (ISA-95)
  - Project management and automatic deployments capabilities
  - Out-of-the-box configuration enabling dedicated industry functionalities
- Self-service data management to fulfill new business needs and third-party data
  - Data model extension for any third-party data
  - Automatic data management; no IT skills required
- Self-service analytics allows everyone to analyze and discover new business values
  - Historical and near real-time data analysis
  - Provides tools to create web-based dashboards and reports accessible from different types of devices (laptops, tablets, and others)
- Dashboard and reporting with HTML5 user interface
- Key performance indicators definition and calculation
- Scalable solution from plant to enterprise

SIMATIC IT Unified Architecture Manufacturing Intelligence
SIMATIC IT Unified Architecture Manufacturing Intelligence (SIT UA Manufacturing Intelligence) is a modern enterprise manufacturing intelligence solution targeting the current and future transformational technologies that are shaping the future of data analytics for manufacturing: mobile internet, cloud computing and advanced analytics.

SIMATIC IT UA Manufacturing Intelligence connects, organizes and aggregates manufacturing data from disparate company sources into cohesive, intelligent and contextualized information in order to gain immediate and actionable insights. The information includes process data combined with business information, operations data and key performance indicators (KPIs) that affect manufacturing.

SIMATIC IT UA Manufacturing Intelligence gives the user a big-picture perspective of the information, providing tools to create web-based dashboards and reports accessible from everywhere, enabling self-service data exploration and allowing spot trends and other data relationships that otherwise may not be apparent when looking at different spreadsheets or reports.

Product overview
SIMATIC IT UA Manufacturing Intelligence extends the Siemens MOM solution by providing the capability to apply analytics and reporting techniques to operations and business data at the site, regional and global levels.

SIMATIC IT UA Manufacturing Intelligence integrates, connects and unifies data sources – such as laboratory information management system (LIMS), enterprise resource management (ERP), MES, QMS, APS and others – into one accessible analytical data model providing capabilities to explore and drill down into contextualized data.

SIMATIC IT UA Manufacturing Intelligence is used at the plant level to improve collaboration and data exchange between the plant floor and enterprise systems, and/or at the enterprise level to benchmark and compare production runs or predict various plant operations. As data from different sources are combined, they can be put into a new context or aggregated to provide users with a different and more complete perspective of operations regardless of where the data originated.

Siemens PLM Software
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