



SIMATIC IT Bundles
Solution Driven approach for MES

simatic IT BUNDLES



SIEMENS

According to this definition the corresponding three Entry Levels have been defined:

- **SIMATIC IT MIS**
- **SIMATIC IT Genealogy**
- **SIMATIC IT Orders Management**

They can be scaled to a higher level of functionality consisting in:

- **SIMATIC IT Tracking & Tracing:** Joins Data and Material Management
- **SIMATIC IT Basic Production Management:** Joins Order and Material Management

They can then converge into the bundle representing the entire SIMATIC IT proposition, called:

- **SIMATIC IT Production Suite.**

SIMATIC IT bundles enable a flexible and customized positioning. Each bundle consists of a series of scalable solutions that enable growing from an entry level up to the SIMATIC IT Production Suite bundle.

The bundles are scalable, in the sense that a bundle is an extension of a lower bundle. They can be "vertically" upgraded in any moment.

One specific entry level is dedicated to Data Management:

SIMATIC IT Historian: a Process Information Management System, used to collect, store and analyze process and production data with time orientation.

Bundle options

- **SIMATIC IT Unilab:** a Laboratory Information Management System.
- **SIMATIC IT Interspec:** a Product Specification Management System for the enterprise and its supply chain.

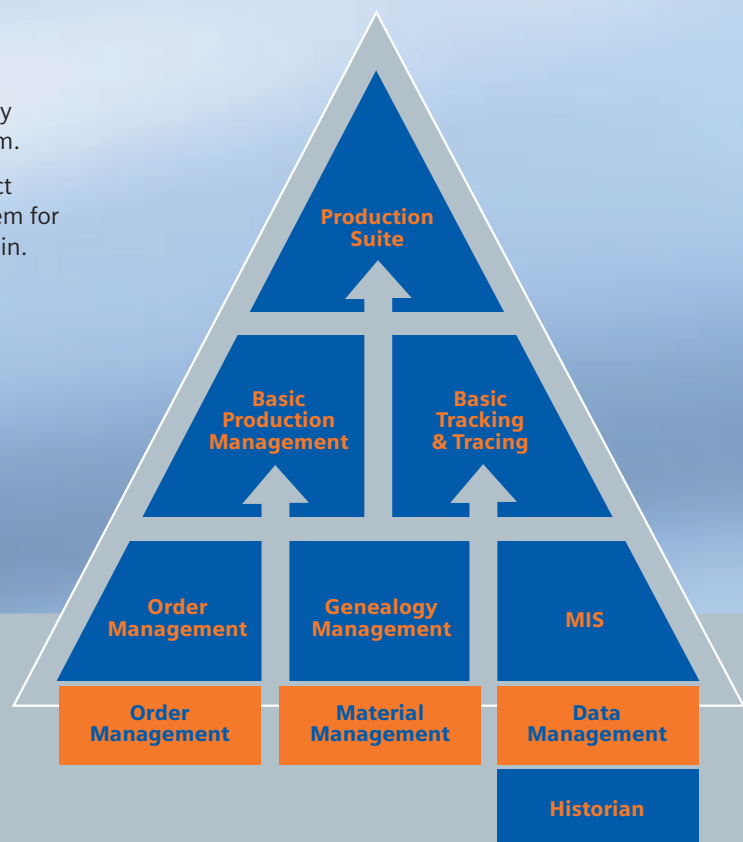
- **SIMATIC IT Report Manager:** a centralized reporting tool enabling easy report definition and distribution, through Intranet or Internet, still managing access levels and protection. Built in interface to SIMATIC IT components enables building reports with any combination of data sources, including Third Party data sources such as RDBs, Business Systems, OPC devices, etc.

SIMATIC IT Unilab and **SIMATIC IT Interspec** are components that can also be sold without any SIMATIC IT bundle (Independent Sellable Products).

Product Options

SIMATIC IT provides also Product Options, for fulfilling specific manufacturing requirements. Product Options can be installed when needed, on the compatible bundles.

SIMATIC IT OEE-DTM for managing and controlling Equipment Efficiency and registering and analyzing Downtime of an entire plant. It is compatible with the following bundles: Historian, MIS, Basic Tracking & Tracing and Production Suite.



SIMATIC IT MIS

SIMATIC IT MIS is the entry-level bundle for Data Management.

It is the bundle dedicated to compute calculation for evaluating Production Performance and Efficiency. SIMATIC IT MIS provides the capability of defining KPIs and associating them to elements defined in the Plant Model. SIMATIC IT MIS provides also all the necessary tools to display and analyze the stored data.

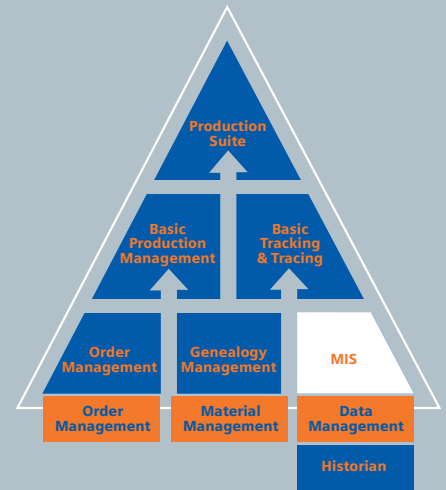
SIMATIC IT Report Manager is the native reporting tool associated to all the SIMATIC IT bundles, therefore it is included in SIMATIC IT MIS and a set of predefined (yet modifiable) reports is provided.

The key component that is the base of Data Management bundle is SIMATIC IT Plant Performance Analyzer.

SIMATIC IT MIS Composition:

- SIMATIC IT Services (including RTDS)
- SIMATIC IT Historian Standard (including SIMATIC IT Plant Performance Analyzer)
- SIMATIC IT Production Modeler Lite
- SIMATIC IT Business Process Modeler
- SIMATIC IT Production Operation Recorder
- SIMATIC IT Data Integration Service

One Client Connection included



SIMATIC IT Genealogy Management

SIMATIC IT Genealogy Management is the bundle dedicated to handle materials, oriented to calculate the Backward and Forward Genealogy of the products. SIMATIC IT Genealogy enables importing Material Master Data from the ERP, and in this way it is a real link between the ERP System and the execution level.

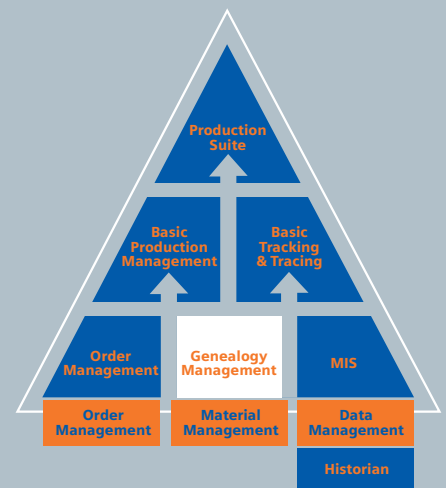
This integration enables also to feed back material consumptions and transforms to the ERP System, in order to keep the enterprise level consistently aligned with the production level. In addition SIMATIC IT Genealogy allows defining and handling production lots. SIMATIC IT Report Manager is also included, with a list of predefined reports that can be used as they are or freely customized according to user needs.

The key component that is the base of Material Management bundle is SIMATIC IT Material Manager.

SIMATIC IT Genealogy Management Composition:

- SIMATIC IT Services (including RTDS)
- SIMATIC IT Production Modeler Lite
- SIMATIC IT Business Process Modeler
- SIMATIC IT Production Operation Recorder
- SIMATIC IT Material Manager
- SIMATIC IT Data Integration Service

One Client Connection Included



SIMATIC IT Orders Management

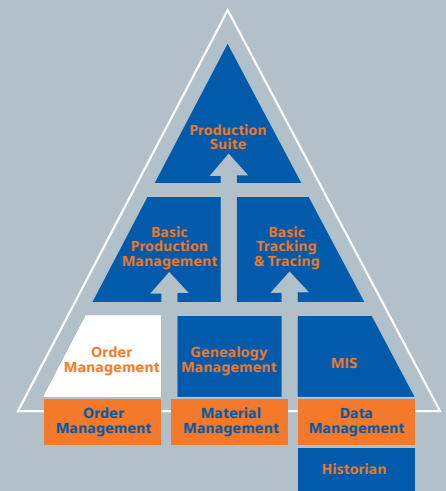
SIMATIC IT Orders Management is the bundle dedicated to *manage orders*, for their definition, sequence and dispatch. It provides the necessary features to handle orders' status, according to the execution.

Orders Management enables importing the scheduled orders list from the ERP, and is a real link between the ERP System and the execution level. Also in this case this integration enables also to feed back orders execution information to the ERP System, highlighting the feature of an MES System to represent the link between the Enterprise level with the Production level. Orders Management allows manual or automatic sequencing of orders and the relevant dispatching that, again, can be manual or automatic. Work in Progress (relevant to orders) is kept constantly updated, in order to provide an up-to-date picture of the current plant status. Dedicated interfaces are provided in order to display orders' status. SIMATIC IT Report Manager is also included with a list of predefined reports that can be used as they are or freely customized according to user needs. The key component that is the base of Orders Management is SIMATIC IT Production Order Manager.

SIMATIC IT Orders Management Composition:

- SIMATIC IT Services (including RTDS)
- SIMATIC IT Production Modeler
- SIMATIC IT Business Process Modeler
- SIMATIC IT Production Operation Recorder
- SIMATIC IT Production Order Manager
- SIMATIC IT Data Integration Service

One Client Connection included



SIMATIC IT Basic Tracking & Tracing

SIMATIC IT Basic Tracking & Tracing bundle summarizes the functionality of the lower level bundles MIS and Genealogy Management.

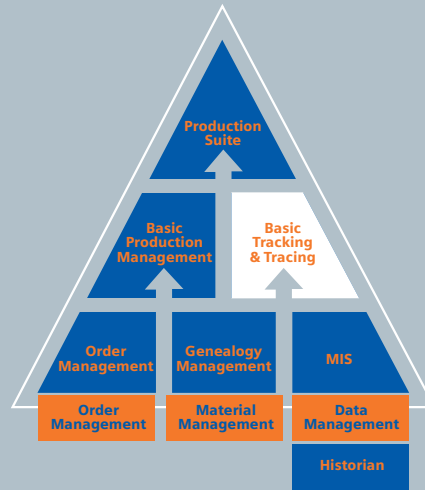
It leverages in particular the possibility of configuring *Production Data Tracking*, with internally calculated data or provided by external systems. It can also associate production data (alarms, operator activities, etc.) to materials.

The key components that are the base of Basic Tracking & Tracing are SIMATIC IT Plant Performance Analyzer and SIMATIC IT Material Manager.

SIMATIC IT Basic Tracking & Tracing Composition:

- SIMATIC IT Services (including RTDS)
- SIMATIC IT Production Modeler Lite
- SIMATIC IT Business Process Modeler
- SIMATIC IT Production Operation Recorder
- SIMATIC IT Personnel Manager
- SIMATIC IT Data Integration Service
- SIMATIC IT Historian Standard (including SIMATIC IT Plant Performance Analyzer)
- SIMATIC IT Material Manager

One Client Connection included



SIMATIC IT Basic Production Management

SIMATIC IT Basic Production Management bundle summarizes the functionality of the lower level bundles Orders Management and Genealogy Management.

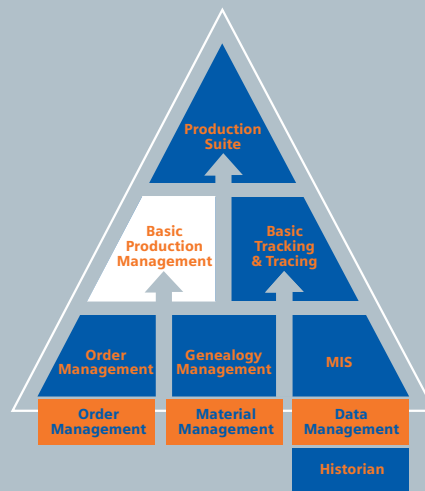
It basically fulfills ISA-95 requirements for Orders and Materials. It provides the possibility of fully handling orders information also in terms of materials. It enables a very consistent reporting, integrating orders data with material information.

The key components that are the base of Basic Production management are SIMATIC IT Production Order Manager and SIMATIC IT Material Manager.

SIMATIC IT Basic Production Management Composition:

- SIMATIC IT Services (including RTDS)
- SIMATIC IT Production Modeler
- SIMATIC IT Business Process Modeler
- SIMATIC IT Production Operation Recorder
- SIMATIC IT Data Integration Service
- SIMATIC IT Material Manager
- SIMATIC IT Production Order Manager

One Client Connection included



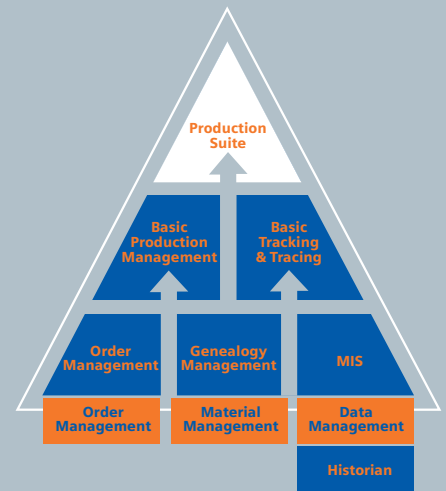
SIMATIC IT Production Suite

SIMATIC IT Production Suite is the bundle representing the entire functionality of SIMATIC IT. *It condenses all the functionalities provided by every bundle in a unique and complete proposition.* It leverages the entire ISA-95 proposition and provides all the features required by MES. The key components that are the base of SIMATIC IT Production Suite are SIMATIC IT Production Order Manager, SIMATIC IT Material Manager and SIMATIC IT Plant Performance Analyzer.

SIMATIC IT Production Suite Composition:

- SIMATIC IT Services (including RTDS)
- SIMATIC IT Production Modeler
- SIMATIC IT Business Process Modeler
- SIMATIC IT Production Operation Recorder
- SIMATIC IT Production Order Manager
- SIMATIC IT Material Manager
- SIMATIC IT Data Integration Service
- SIMATIC IT Personnel Manager
- SIMATIC IT Historian Standard (including SIMATIC IT Plant Performance Analyzer)

One Client Connection included



SIMATIC IT Cross-Industry Libraries

SIMATIC IT

- enables approaching virtually any industry sector
- supports standard functionality and consistent terminology
- is developed adopting ISA-95 (the International Standard for MES)

Nevertheless the real world of solutions is far more complex than the one described in the standard and to actively penetrate the market, the product must focus to resolve specific Industry Requirements. Still keeping the components' architecture flexible and fully matching ISA-95, SIMATIC IT provides not only products but also cross-industry applications:

- To be more efficient in developing Industry-Specific Libraries
- To save cost and time in developing the solution for Customers
- To be more consistent in estimating project time and cost

This is achieved through SIMATIC IT Cross-Industry Libraries that are preconfigured solutions to particular MES issues, applicable across many projects in many industries. Practically they are a set of:

- Graphical rules
- Web screens
- Reports

all configured with SIMATIC IT tools.

Partial list of the Cross-Industry Libraries available:

- OEE-DTM
- HACCP/In-Process-Test
- Weighing & Dispensing
- Electronic Work Instruction
- Batch Analysis
- Discrete Manufacturing
- Genealogy
- Material Management
- RFID integration
- Maintenance
- Workflow Management for Corrective Actions
- Compliance Services
- Many others continuously under development

Combining Cross Industry Libraries with a niche focus, SIMATIC IT meets the tactical requirements of Pragmatic End Users who still appreciate one technological approach versus another if it offers them tangible benefits.

And since Cross-Industry Libraries are developed on a common product platform, SIMATIC IT offers a far more strategic choice for customers who are planning to expand and combine their point solutions over time.

- Cross application and cross site standardization
- One-time investment in product licenses
- One-Stop-Shop for 24x7 product support
- Ultimately lower TCO

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