Simplifying Manufacturing Across Your System Landscape

Emixa SAP-Siemens Integration

The Emixa SAP-Siemens Integration seamlessly connects your organization's Product Lifecycle Management (PLM) and Enterprise Resource Planning (ERP) systems. As cloud-based solutions become increasingly popular, standardization across platforms is essential. Our Integration delivers a single source of -truth for all product and production process data, ensuring consistency and accuracy throughout your operations.

SAP offers a robust software platform with solutions tailored for various types of organizations and processes. However, for companies in manufacturing, their core business often relies on both ERP and PLM systems. Emixa enhances this connection by delivering a standardized integration between the two platforms through the Emixa SAP-Siemens Integration.

In the fast-paced manufacturing environment, access to accurate data streams is crucial, especially as we transition toward Industry 4.0.

EMIXA

To achieve this, an end-to-end integration between your ERP and PLM systems is required. This ensures a single source of truth for all product and process-related data, which supports the engineering-based manufacturing of the future.

SAP and Siemens recognized the importance of this integration and formalized their partnership in July 2020, with the goal of standardizing and enhancing the connection between their platforms. A roadmap has been developed to further refine and expand integration capabilities.

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> Bringing together expertise from SAP and Siemens to offer Industry 4.0-enabled business processes allows enterprises to create a digital thread for the entire product and asset lifecycle.
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> - Thomas Saueressig
> SAP Head of Product Engineering

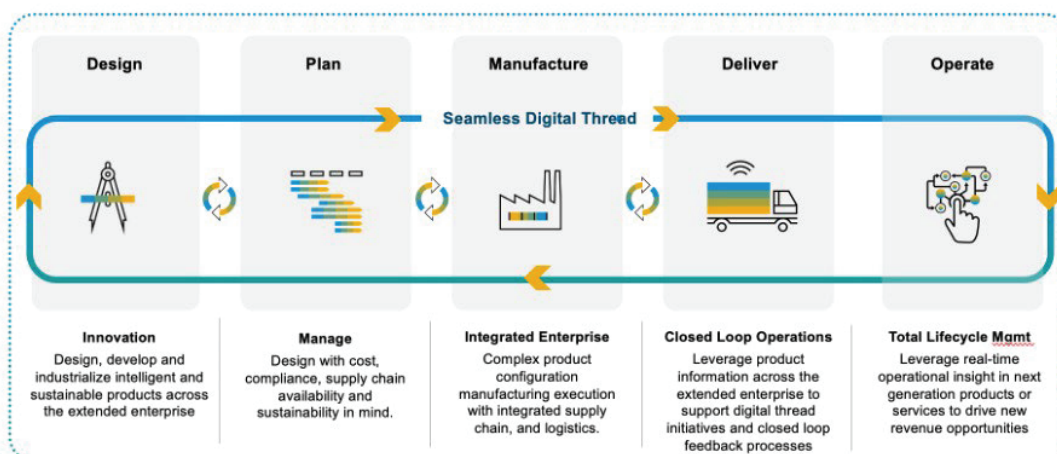## Evolution of Integration Techniques

Historically, different integrations between SAP and Siemens utilized IDocs to transmit information between systems. The new SAP-Siemens integration significantly improves upon this approach by eliminating manual processing steps. Instead, it employs change documents that automatically encompass all modifications in master data, which are created and sent to SAP or Siemens when changes occur.

This automation not only speeds up the synchronization of core systems but also minimizes errors, ensuring all employees have consistent access to accurate information, whether for logistics or design.

The Emixa Group consists of both SAP and Siemens partners (Emixa Enterprise Solutions and Emixa Industry Solutions), each with extensive experience in their respective domains and in facilitating integration. This expertise allows us to assist your organization effectively, whether your focus is on PLM or ERP.

Digital Product Data is a critical success factor nowadays
Make to Stock, Configure to Order, Engineer to Order

Design	Plan	Manufacture	Deliver	Operate
Innovation	**Manage**	**Integrated Enterprise**	**Closed Loop Operations**	**Total Lifecycle Mgmt**
Design, develop and industrialize intelligent and sustainable products across the extended enterprise	Design with cost, compliance, supply chain availability and sustainability in mind.	Complex product configuration manufacturing execution with integrated supply chain, and logistics.	Leverage product information across the extended enterprise to support digital thread initiatives and closed loop feedback processes	Leverage real-time operational insight in next generation products or services to drive new revenue opportunities

Seamless Digital Thread

How It Works

The Emixa SAP-Siemens Integration employs **Change Objects** to relay updates in product or process data. These change objects can be transmitted from SAP to Teamcenter (e.g. when a material becomes unavailable) or from Teamcenter to SAP (e.g., when a bill of materials is updated to reflect a new design).

Key Manufacturing Data Items Communicated Include:

- Material Master
- Bill of Materials (BOM)
- Production Planning Routing
- Variant Configuration
- Designs (Drawings)

Our integration can be customized to support your unique manufacturing processes, ensuring a comprehensive digital thread from initial design in PLM to financial closure in ERP, regardless of whether your focus is Teamcenter or SAP.

An example of this process is the Configure-To-Order (CTO) procedure, where a general bill of materials is created within the PLM system. This general bill of materials is then transferred to SAP along with the relevant variant configuration logic.

Based on specific customer orders in SAP, the final bill of materials can be generated and utilized for production.

The Emixa SAP-Siemens Integration can be quickly established thanks to the standardized interface. We can configure the integration for both SAP S/4 Public Cloud and Private Cloud. After the initial setup, we will collaborate with you to tailor the standard data model to specify exactly which items to integrate and in what format.

Our Implementation Process

To facilitate your implementation of the Emixa SAP-Siemens Integration, we follow a structured process that begins with an exploration phase to identify your specific needs. From there, we work collaboratively through discovery, go-live, and hypercare phases.

Want to see how SAP-Siemens Integration can simplify and boost your manufacturing processes?

Talk to our experts today! Contact us at info.es@emixa.com.