

Feature Scope Description | PUBLIC
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PLM System Integration for SAP ERP
Feature Scope Description

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1 About This Document

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2 About PLM System Integration for SAP ERP

PLM System Integration for SAP ERP helps you streamline your product development processes in a diverse system landscape.

> **i** Note
>
> SAP ERP is a prerequisite for using PLM system integration for SAP ERP. SAP ERP requires separate licenses.

High-Level Business Background

The PLM system integration for SAP ERP add-on enables seamless integration of product-relevant data to realize process integration between SAP ERP and an external PLM system. You can transfer data without the need for additional middleware as well as monitor and troubleshoot the data transfer, both at a technical level, as well as the business level. Mapping settings can be adapted without coding.

3 Business Background and Key Features

This chapter outlines the key features of the PLM system integration for SAP ERP add-on and the related business backgrounds.

> **i** Note
>
> In order to integrate your SAP system successfully with an external PLM system, you also need to procure and install the respective technical non-SAP components. The joint installation of these components is a mandatory prerequisite in order to realize the integration and support the business backgrounds as described in this document.

Business Background

Change management integration triggered by engineering in an external PLM system

Key Feature	Use
Receive business entities for an approved change notice from an external PLM system in the SAP system.	When a change notice is created and approved in an external PLM system, related business entities of the respective type are created, updated within the SAP system, and linked to the respective SAP engineering change master.
Create and maintain a change master with valid-from date effectivity, based on an engineering change notice from an external PLM system.	You can create and maintain SAP engineering change masters, based on incoming data from an external PLM system.

Business Background

Document Version Management: Synchronizing document management data from an external PLM system to the SAP system

Key Feature	Use
Create and update document info records based on objects from an external PLM system and their business semantics and receive files.	Document info records can be received from an external PLM system. The files are transferred and stored as SAP originals, linked to the corresponding SAP document info record.

Key Feature	Use
Receive attributes and additional data from engineering to the extended supply chain.	You can receive various attributes and additional data. This enables the engineering department and extended supply chain stakeholders to work on a shared set of information.
Option to replicate files from an external PLM system into an SAP content repository	Files sent from an external PLM system can be uploaded to the SAP Content Server for further use.
Extensibility Options	You can map extension fields that are sent from an external PLM system to selected standard fields or classifications in the SAP system.

Business Background

Product Version Management: Ability for product developers to create material masters in the SAP system based on business semantics

Key Feature	Use
Maintain product (material master) data within SAP ERP or SAP Product Lifecycle Management based on business semantics.	When a ProductVersion is received in an external PLM system and sent to the SAP system for creation, a corresponding material master is created in the SAP system. If document links are provided as part of the product structure transfer, links are created between the SAP material master and SAP document info records.
Alignment of product revisions between SAP ERP or SAP Product Lifecycle Management and an external PLM system	You can receive product revision data from an external PLM system in SAP ERP. The data is mapped to an SAP material master and SAP material master revision level.
Receive attributes and additional data from engineering to the extended supply chain.	You can receive various attributes and additional data from an external PLM system. This enables the engineering department and extended supply chain stakeholders to work on a shared set of information.
Receive classification values assigned to a product version from an external PLM system.	You can receive classification values assigned to a product version from an external PLM system. This enables the engineering department and extended supply chain stakeholders to work on a shared set of information. As a prerequisite, the class schema must exist in both systems (manually created).
Use of template materials	If a template product (material) has been maintained for this specific product version type, this template product (material) is used as a reference product (material) in the SAP system.
Effectivity management from the external PLM system to the SAP system	You can receive date effectivity data for products from an external PLM system to the SAP system.
Extensibility Options	You can map extension fields that are sent from an external PLM system to selected standard fields or classifications in the SAP system.

Business Background

Structure Version Management: Receive bills of material in SAP ERP or SAP Product Lifecycle Management

Key Features

Key Feature	Use
Receive product structures (bill of material) from an external PLM system in the SAP system, including updates.	You can receive product structures from an external PLM system in SAP ERP. The product structure is mapped to a classic SAP bill of material (BOM). The system creates or updates these objects in SAP ERP under date effectivity control.
Receive attributes and additional data from engineering to the extended supply chain.	You can receive various attributes and additional data. This enables the engineering department and extended supply chain stakeholders to work on a shared set of information.
Extensibility Options	You can map extension fields that are sent from an external PLM system to selected standard fields in the SAP system.

Business Background

Data Federation

Key Features

Key Feature	Use
Cross-system data federation within an external PLM system	You can enable an external PLM system to show data of the integrated system for material master and document info record, to access business data in the context of a leading object.

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