Release Notes
Product Development and Manufacturing
SAP enhancement package 4 for SAP ERP 6.0



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General

Business Function Outsourced Manufacturing

LOG_MM_OM_1: Business Function Outsourced Manufacturing (New)

Use

As of ***SAP enhancement package 4 for SAP ERP 6.0 (SAP_APPL 604)***, you can use the business function ***Outsourced Manufacturing (LOG_MM_CI_1).*** This business function enables you to structure your subcontracting processes more efficiently.

In particular, brand manufacturers use subcontractors to produce their products. This SAP solution supports all of the essential aspects of you subcontracting process. Process steps are clearly represented through the integration of SAP Supply Network Collaboration (SNC) and SAP ERP Production Planning (PP), making it easier to monitor your production process.

The following functions are provide in this business function:

- Subcontracting Cockpit
  You can use this cockpit to process your subcontracting processes centrally. Here you find all necessary functions in one central location. You also have access to the corresponding follow-up documents. The user-friendly interface enables you to quickly obtain an overview of the current status of your subcontracting orders.
  For more information, see **LOG_MM_OM_1: Subcontracting Cockpit (New)**
- New Movement Types for Subcontracting
  The new movement types make it easier to track you subcontracting components. In addition, several business processes are combined.
  For more information, see **LOG_MM_OM_1: Stock in Transfer for Subcontractor and Customer Consignment (New)**
  and **LOG_MM_OM_1: One-Step Stock Transfer for Subcontracting (New)**
- Scrap Report
  You can use this report to gain an overview of the relationship between current subcontracting component consumption and planned consumption, and an overview of the corresponding scrap.
  For more information, see **LOG_MM_OM_1: Scrap Report for Subcontract Order (New)**
- Subcontract Orders and Production Orders in CO
  You can now link the subcontract order to the work order in SAP SNC, and to product cost controlling. You can use the component consumption history to monitor component consumption and your vendor's production in a timely manner. This gives you a consistent view and a correct valuation of your stock.
  For more information, see **LOG_MM_OM_1: Subcontract and CO Production Orders (New)**
- New Fields for Data Transfer
  For stock in transfer and batch individual stock, new fields are provided for the transfer of data from SAP ERP to SAP SNC.
  For more information, see **LOG_MM_OM_1: Fields for Data Transfer from SAP ERP to SAP SNC (New)**
- Transfer of AMPL with CIF
  You can now transfer data from the approved manufacturer parts list (AMPL) to

SAP SNC using the Core Interface (CIF).
For more information, see **LOG_MM_OM_1: Transfer of AMPL with Core Interface (CIF) (New)**

- Subcontracting Components in Inbound Deliveries
  During goods receipt, subcontractors can specify which components they have used in the production of a certain product. This enables brand manufacturers to track the components that are processed for their product at the component level and at the batch level.
  For more information, see **LOG_MM_OM_1: Subcontracting Components in Inbound Deliveries (New)**

Enhancements in Production Planning

The integration of production planning enables you to use WIP batches for outsourced operations, thereby enabling you to enjoy the benefits of timely cost calculation. In addition, you always have up-to-date information about your batches.
For more information, see **LOG_MM_OM_1: Enhancements in Production Planning (New)**

Effects on System Administration

If you want to use the joint production scenario with SAP SNC, you must also activate the ***Operations, Enterprise Services (LOG_ESOA_OPS_2) and Operations, Enterprise Services (ESOA_OPS01) business functions.***

If you want to use enhanced batch tracking for external production orders, you must activate the ***Work in Progress-Charge (LOG_PP_WIP_BATCH)*** business function. You must then set the relevant indicator in Customizing by choosing ***Logistics General -> Batch Management -> WIP Batches -> Activate WIP Batch.*** In Customizing for Production Control, you must also set up a confirmation profile, by choosing ***Operations -> Confirmation -> Define Single Screen Entry.*** To do this, you include the required fields in the WIP Batches area. You must either define the profile as a standard profile, or you must assign it to the users using the CORUPROF user parameter. For more information, see **Release Information for WIP Batches**.

Effects on Customizing

Business Add-Ins (BAdIs) are provided for customer-specific adjustments to some functions. For more information about Customizing settings, see the release information for the individual function areas.

LOG_MM_OM_1: Subcontracting Cockpit (New)

Use

As of ***SAP enhancement package 4 for SAP ERP 6.0 (SAP_APPL 604), business function Outsourced Manufacturing (LOG_MM_OM_1)***, the ***Subcontracting Cockpit*** is available.

The ***Subcontracting Cockpit*** user interface is clearly laid out, and makes it easier for you to control and monitor the subcontracting process. This single entry point provides direct access to the subcontracting processes.

For this purpose, additional functions have been added to the ***SC Stock Monitoring for Vendor*** transaction.

- You can either send your components directly to the subcontractor, or you can use the two-step procedure. The following movement types are available:
  - Default movement type 541
    Transfer of unrestricted-use stock to subcontracting stock
  - Movement type 30A
    Transfer of unrestricted-use stock to subcontracting stock in two steps – stock removal

  For more information about movement types, see **Description of Standard Movement Types**.
- Directly on the initial screen, you find an overview of the components that are currently in the subcontracting stock.
- You can change the shipping point for the outbound delivery, or change the batch number in the ***Create Delivery for Subcontract Order*** dialog box. These more flexible shipping activities enable you to, for example, make changes to the productive process flow at short notice.
- In the external processing scenario, you can now display for each purchase order item the production order, the number of the external operation, and the operation text . If you use process orders, these are also displayed.

The new design of this transaction enables you to create targeted outbound deliveries for a specified purchase order item. The outbound delivery then appears in the purchase order history of the respective item.

You can process the following documents in the ***Subcontracting Cockpit:***

- Purchase orders
- Purchase requisitions
- Outbound deliveries with open goods issues
- Reservations
- External deliveries (subcontracting components that are prepared by a third party)

The SC Stock Monitoring for Vendor transaction was changed to the Advanced List Viewer (ALV).

To access the ***Outsourcing Cockpit*** on the ***SAP Easy Access*** screen, choose ***Logistics -> Materials Management -> Purchasing -> Purchase Order -> Reporting.***

Effects on Existing Data

There are no significant effects on the dataset.

Effects on System Administration

You must activate the functions for ***Purchasing*** and ***Inventory Management*** in your ERP back-end system.

LOG_MM_OM_1: Stock in Transfer for Subcontractor and Customer Consignment (New)

Use

As of ***SAP enhancement package 4 for SAP ERP 6.0 (SAP_APPL 604)***, business function ***Outsourced Manufacturing (LOG_MM_OM_1)***, you can track the status of your components continuously.

Using the new movements types, you can, for example, define whether your components are already at the subcontractor's site or still on the way there. The following movement types are available:

- 30A Transfer of unrestricted-use stock to subcontracting stock in two steps – stock removal
  The transferred quantity is posted from the unrestricted-use stock in the issuing plant to the stock in transfer for the subcontractor.
- 30C Transfer of unrestricted-use stock to subcontracting stock in two steps – putaway
  The transferred quantity is posted from the stock in transfer for the receiving subcontractor to the unrestricted-use subcontracting stock. This movement is not valuated.
- 63A Transfer of unrestricted-use to customer consignment in two steps – stock removal (shipping)
  The transferred quantity is posted from the unrestricted-use stock to the consignment stock in transfer for the customer. This movement type can also be posted without shipping.
- 63C Transfer of unrestricted-use stock to customer consignment in two steps – putaway
  The transferred quantity is posted from the consignment stock in transfer for the customer to the customer's unrestricted-use stock.

Before you can post a consignment fill-up to stock in transfer for customer consignment, the movement type for the relevant schedule line category (E0 in the standard system) must be changed in Customizing. You define your settings under ***Sales and Distribution -> Sales -> Sales Documents -> Schedule Lines -> Assign Schedule Line Categories***.

Transaction MB5K ***Stock Consistency Check*** (report RM07KO01) has been converted to the SAP List Viewer (ALV). You can still call the non-ALV version of this report via program RM07KO01.

Effects on Existing Data

There are no significant effects on the dataset.

Effects on System Administration

You have activated the functions for ***Purchasing*** and ***Inventory Management*** in your ERP back-end system.

LOG_MM_OM_1: One-Step Stock Transfer for Subcontracting

Use

As of ***SAP enhancement package 4 for SAP ERP 6.0 (SAP_APPL 604***), business function ***Outsourced Manufacturing (LOG_MM_OM_1)***, you can transfer a stock order for a subcontractor from the supplying plant to the receiving plant in one step. You can choose a subcontractor directly in the stock transfer order. This transaction combines several business processes and can reduce the number of posting errors.

Effects on Existing Data

There are no significant effects on the dataset.

Effects on System Administration

You must activate the functions for ***Purchasing*** (MM_PUR) and ***Logistics Execution*** (LE-SHP)in your ERP back-end system.

Effects on Customizing

You can access Customizing for this function, by choosing ***Materials Management -> Outsourced Manufacturing ->*** **One-Step Stock Transfer for Subcontract Orders.**

LOG_MM_OM_1: Scrap Report for Subcontract Order (New)

Use

As of ***SAP enhancement package 4 for SAP ERP 6.0*** (SAP_APPL 604), business function ***Outsourced Manufacturing (LOG_MM_OM_1)***, you can obtain information about the relationship between planned component consumption and current component consumption.

If you do not record your planned scrap in the piece list, this report provides an overview of the average scrap for a specified vendor within a specified time period.

The scrap report compares the planned subcontracting component consumption with the current subcontracting component consumption. The material documents that are assigned to the respective vendor order are used as the basis for this comparison.

You can select the following criteria for the scrap analysis:

- Purchase order
- Vendor
- Plant
- Time periods
- To access the ***Scrap Quantity for Subcontract Orders*** on the ***SAP Easy Access*** screen, choose ***Logistics -> Materials Management -> Purchasing -> Purchase Order -> Reporting.***

LOG_MM_OM_1: Subcontract Orders and CO Production Orders (New)

Use

In earlier SAP ERP releases, you were able to use an integration of SAP ERP with SAP Supply Network Collaboration (SAP SNC) to mutually agree upon and process subcontract orders with your suppliers. As of SAP ECC 6.0, Enhancement Package 04 (SAP_APPL 604), Business Function ***Outsourced Manufacturing*** (LOG_MM_OM_1), you can use the following additional functions to integrate subcontract orders and product cost controlling in SAP ERP with the SAP SNC application:

- Linking of subcontract orders with work orders in SAP SNC and production orders in Product Cost Controlling (CO-PC)
- Timely monitoring of component consumption of the supplier in a component consumption history based on work orders

For data transfer from SAP SNC to SAP ERP, you use the new XML messages of the type `ManufacturingWorkOrderProductionProgressNotification`. With these XML messages, SAP SNC can automatically transfer to SAP ERP the data that the supplier has confirmed in SAP SNC in the work order regarding the production progress.

Note

To be able to use these functions, you must have additionally licensed and installed SAP Supply Network Collaboration (SAP SNC). In SAP ERP, you are using subcontract orders, the ***Inventory Management*** (MM-IM) component, and the ***Product Cost Controlling*** (CO-PC) component.

Effects on Existing Data

Effects on Goods Movement Posting

Previously in SAP ERP, component consumption of the subcontractor was posted in inventory management when you posted the goods receipt of the finished product. If you have activated the LOG_MM_OM_1 business function and selected the ***Timely Consumption Posting*** checkbox in the purchasing info record, the system operates as follows:

If your subcontractor confirms component consumption in SAP SNC in the work order, SAP SNC sends an XML message of the type `ManufacturingWorkOrderProductionProgressNotification` to SAP ERP. From the XML message data, SAP ERP calculates consumed quantities. This consumption is immediately posted in inventory management with the movement types 543 or 544, and not only upon goods receipt of the finished product. At the same time, SAP ERP records the consumption in the component consumption history with the consumption type ***C (Component Consumption)***.

For more information about posting upon goods receipt, see the documentation for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***Component Consumption History***.

New User Interface Elements

The following user interface elements are new:

Transaction	Program/Screen	UI Element
ME11	SAPMM06I	Checkbox ***Timely Consumption Posting***
ME12	SAPMM06I	Checkbox ***Timely***

Consumption Posting

ME13	SAPMM06I	Checkbox ***Timely***

Consumption Posting

ME14	SAPLSLVC_FULLSCREEN	Short Description

Timely Consumption Posting of Subcon. Components

MEMASSIN	SAPMMSDL	Field ***Timely***

Consumption Posting (EINE-CO_ORDER)

Effects on Data Transfer

To be able to use the integration of SAP SNC and SAP ERP, you must make the required settings for work orders in SAP SNC. For more information about the required settings for work orders, see the documentation for SAP SNC on SAP Help Portal at **http://help.sap.com** -> ***Work Order Collaboration***.

Effects on System Administration

You can use the MM_EKKO archiving object, which is already available in SAP ERP, to delete entries that are no longer required in the component consumption history.

Effects on Customizing

If you want to adapt the calculation of component consumptions of the supplier in SAP ERP, you can use the BAdI ICH_BIF_WO_IN. To do so, use the Customizing activity **BAdI: Change Calculated Component Consumptions**.

See also

For more information, see the main release note for the ***Outsourced Manufacturing*** business function and SAP Library under ***Subcontracting and Cost Object Controlling with Integrated Work Order Collaboration in SAP SNC***.

LOG_MM_OM_1: Fields for Data Transfer from SAP ERP to SAP SNC (New)

Use

As of SAP ECC 6.0, Enhancement Package 04 (SAP_APPL 604), Business Function ***Outsourced Manufacturing*** (LOG_MM_OM_1), and as of SAP Supply Network Collaboration (SAP SNC) 7.0, you can transfer the following additional information from SAP ERP to SAP SNC using the `ProductActivityNotification` XML message:

- Stock in transfer
  You can transmit stock in transfer from SAP ERP to SAP SNC. In SAP ERP, you create stock in transfer if you post a stock transfer between two plants or two storage locations using a two-step posting procedure. In addition, you can now transmit the subcontracting stock in transfer. Subcontracting stock in transfer is created when you move subcontracting components from your own stock to the subcontracting stock using a two-step posting procedure.
- Individual batch inventories
  You can transmit individual batch inventories for batch-managed inventories including batch classification.

The RSMIPROACT2, ROEMPROACT2, and RPRTPROACT reports, which serve to transfer inventory data from SAP ERP to SAP SNC, have been enhanced accordingly with new fields (see the *Effects on Existing Data* keyblock for more details).

Note

You need to have a licensed and installed SAP SNC to use this function.

Effects on Existing Data

The following user interface elements are new:

Program	UI Element
RSMIPROACT2	Checkbox ***Stock in Transfer: Storage Loc. to StorageLoc.***
RSMIPROACT2	Checkbox ***Stock in Transfer: Plant to Plant***
ROEMPROACT2	Checkbox ***Stock in Transfer: Storage Loc. to Storage Loc.***
ROEMPROACT2	Checkbox ***Stock in Transfer: Plant to Plant***
ROEMPROACT2	Checkbox ***Subcon. Stock in Transfer***
ROEMPROACT2	Checkbox ***Individual Batches***
RPRTPROACT	Checkbox ***Stock in Transfer: Storage Loc. to Storage Loc.***

RPRTPROACT	Checkbox ***Stock in Transfer: Plant to Plant***
RCMPROACT2	Checkbox ***Subcon. Stock in Transfer***
RCMPROACT2	Checkbox ***Individual Batches***

Effects on Data Transfer

The following new fields were added to the `ProductActivityNotification` XML message type, which is used to transmit inventory data from SAP ERP to SAP SNC:

- StockInTransferQuantity
  This field is used to transmit the total of stock in transfer between plants and stock in transfer between storage locations.
- SubcontractingStockInTransferQuantity
  This field is used to transmit subcontracting stock in transfer.

For batch-managed products, batch IDs were added. In addition, the message now can transmit characteristic values for a batch.

See also

For more information about the reports, see the SAP SNC documentation on SAP Help Portal at ***http://help.sap.com*** under the following topics:

- Data Transfer for Contract Manufacturing: New Reports
- Transfer of Demands and Stocks to SAP SNC (SMI, RP, DR)

For more information about the necessary Customizing and upgrade activities in SAP SNC, see Release Note ***Inventory in SMI and Outsourced Manufacturing (Enhanced)*** (technical name: SCM700_ICH_IMO_INV) in the SAP SNC system.

LOG_MM_OM_1: Transfer of AMPL with Core Interface (CIF) (New)

Use

As of SAP ECC 6.0, Enhancement Package 4 (SAP_APPL 604), Business Function ***Outsourced Manufacturing*** (LOG_MM_OM_1) you can transfer approved manufacturer parts list (AMPL) data for inventory-managed materials to SAP Supply Network Collaboration (SAP SNC) (standalone and as part of SAP SCM Server) using the Core Interface (CIF).

Note:

To be able to use these functions, you have must have additionally licensed and installed SAP Supply Network Collaboration (SAP SNC).

a) Effects on Existing Data

This development does not affect existing data.

The following user interface element is new:

Transaction	Program/Screen	UI Element
CFM1	SAPLCIFI/6996	***AMPL*** Checkbox

(I_T_AMPL)

This checkbox is only visible if the logical system of the integration model is an SAP SNC or SAP Advanced Planning and Optimization (SAP APO) system. If the logical system of the integration model is an SAP SCM Basis system, the AMPL checkbox is not displayed.

Effects on Data Transfer

This development enables transfer of AMPL data from SAP ERP to SAP SNC via CIF. Note, however, that you **cannot** transfer AMPL data back from SAP SNC to SAP ERP.

Effects on Customizing

You can modify the AMPL data being transferred by CIF, using the new Business Add-In (BAdI) **BAdI: Modify Approved Manufacturer Parts List Transfer**, in Customizing for SAP ERP under ***Integration with Other SAP Components*** -> ***Supply Network Collaboration*** -> ***BAdIs***.

See also

For more information, see SAP Library for SAP Supply Chain Management on **http://help.sap.com** under ***SAP Supply Chain Management (SAP SCM)*** -> ***SAP Supply Network Collaboration*** -> ***Purchase Order Collaboration*** -> ***Special Topics in Purchase Order Collaboration*** -> ***Manufacturer Part Number*** -> ***Master Data and Settings for MPN*** -> ***Integration of Approved Manufacturer Parts List with CIF***.

MM_LOG_OM_1: Subcontracting Components (New)

Use

As of SAP ECC 6.0, Enhancement Package 4 (SAP_APPL 604), Business Function *Outsourced Manufacturing in ERP* (LOG_MM_OM1), subcontractors can specify in the inbound delivery which component batches they used to produce a certain final product. The corresponding goods receipt can then be posted automatically using the correct batches without manual intervention. This ensures better batch traceability for brand manufacturers.

Effects on Existing Data

A *Subcontracting Components* pushbutton has been added to the user interfaces of transactions *ID Processing* (**VL60**), *Create Inbound Delivery* (**VL31N**), *Change Inbound Delivery* (**VL32N**), and *Display Inbound Delivery* (**VL33N**).

Effects on Data Transfer

To enable subcontractors to include component information in their Advanced Shipping Notification (ASN) messages, two new ASN interfaces are provided:

- The enterprise service Maintain Inbound Delivery based on Despatched Delivery Notification_V1, which is an updated version of the existing Maintain Inbound Delivery based on Despatched Delivery Notification service
- IDoc message DESADV with the new basic type DELVRY07

Effects on Customizing

The **Correlate Component Quantities with New Quantity of Inbound Delivery** BAdI is available as a new Customizing activity. For more information, see *Business Add-Ins in Shipping* under *System Modifications* in Customizing.

LOG_MM_OM_1: Enhancements in Production Planning (New)

Use

As of ***SAP ECC 6.0, Enterprise Extension SAP-APPL, Enhancement Package 4 (SAP-APPL 604), Business Function Outsourced Manufacturing***, functional enhancements for the external processing of operations together with the subcontracting of purchase orders are available.

The following developments are involved:

- In the case of externally processed operations in the production order, a material number is passed on to the purchase order instead of a short text. This is accomplished by using the Business Add-In (BAdI) **PP_OM_BD_BANF_HEADER_MATERIAL**.
  Via this BAdI, the header material or the relevant reference material of the production order is passed on to the purchase requisition.
- You can use WIP batches for externally processed operations (see **Release Note for WIP Batches**).
- Through implementation of the BAdI **ICH_BIF_WO_INF_IN**, you can have an externally processed operation to be confirmed automatically.

See also

See also SAP Note 1226182 regarding certain restrictions for ATP and MRP.

Production Planning

Business Function SAP LPO Integration

LOG_PP_LPO: Business Function Enhancements SAP LPO (new)

Use

As of ***SAP ECC 6.0***, ***Enhancement Package 4 (SAP_APPL 604)***, the business function ***SAP LPO Integration (LOG_PP_LPO)*** is available. This business function provides interfaces and Customizing settings that you can use to integrate ***SAP Lean Planning and Operations*** (SAP LPO) into the planning and execution processes of the SAP ERP system. This integration enhances the production planning and execution functionality of the SAP ERP system in the lean manufacturing environment.

When you activate this business function, the system creates two Customizing entries. The newly created programming interfaces use these entries to download and transfer data between SAP ERP and SAP LPO. Existing production planning and execution processes in ERP remain unchanged by the activation of this business function. To use the extended planning functionality of SAP LPO, you have to set up an integration landscape that includes ***SAP Manufacturing Integration and Intelligence*** (SAP MII) and SAP LPO. This landscape allows you to incorporate the data provided by the interfaces or to provide them with the required data. SAP ERP will only provide the interfaces to support these integrated planning processes. Within such an integration landscape, the user has to implement the production planning and execution processes to work with the new interfaces. SAP LPO Release 6.0 is required for the integration into ERP because it provides the appropriate tools and functions to set up the integration landscape.

SAP MII that is delivered along with SAP LPO is used as an integration layer in the appropriate integration scenario. A new application called LPO Integration Cockpit will be available with SAP LPO 6.0. This application enables the set-up, control and monitoring of the integration with SAP LPO. It enables you to select the relevant master data and transactional data from the SAP ERP system and transfer the same to the SAP LPO system. You can use SAP MII background jobs scheduled in the Integration Cockpit to transfer data from one system to another. During this process, the background jobs map the SAP ERP data formats to the SAP LPO data formats.

You can transfer the following master data:

- Plant
- Work center
- Material
- BOMs
- Material-to-work-center assignments

You can transfer the following transaction data:

- Production plan
  You transfer the planned orders created in LPO using the pacemaker algorithm to SAP ERP.
- Requirements
  You transfer the complete requirements situation of the relevant materials, such as planned independent requirements, customer requirements, forecast requirements, and dependent requirements.
- Stock data

- Production confirmation
- Confirmation quantities
  Confirmation quantities are transferred to SAP LPO after the ERP system has carried out the confirmation.
- Goods issue data
  The goods issue postings for finished products and components are transferred to SAP LPO.

Product Development

Business Function PLM iPPE Integration

/PLMU/IPPE_INT: PLM iPPE Integration (New)

Use

As of SAP ECC 6.0, Enterprise Extension Product Lifecycle Management, Enhancement Package 4 (EA-PLM 604), the business function /PLMU/IPPE_INT: PLM iPPE Integration is available. With this business function, you can use the following enhancements for integrated Product and Process Engineering (iPPE):

Geometric Instances
A geometric instance encapsulates geometric data (transformation matrix and bounding box) of an individual occurrence of a component within a product structure, for example, for DMU viewing of product structures or for creating product structures from a CAD structure using engineering desktop. Geometric instances can be assigned to the variant nodes *iPPE assembly item* and *component variant*.

Integration of Digital Mockup Viewing (DMU Viewing) in the iPPE Workbench
You use this function to integrate an ECL viewer in the iPPE workbench.

Integration of Collaboration Projects (cProjects) with iPPE
You use this function to connect iPPE and cProjects; you can link an iPPE object (node or variant) to a cProjects object (task or checklist item).

Effects on Customizing

You make the Customizing settings for this function in Customizing under ***Logistics - General*** -> ***Product Lifecycle Management (PLM)*** -> ***Basic Data*** -> ***Integrated Product Engineering*** -> ***Connection to cProjects*** or ***iPPE Product Structure Administration*** -> ***Geometric Instances***.

See also

For more information, see SAP Library under ***Business Function Sets and Business Functions*** -> ***Enterprise Business Functions*** -> ***Product Lifecycle Management***.

Business Function PLM Web User Interface

/PLMU/WEB_UI: PLM Web User Interface (New)

Use

As of SAP ECC 6.0, Enterprise Extension Product Lifecycle Management, Enhancement Package 4 (EA-PLM 604), the business function /PLMU/WEB_UI: PLM Web User Interface is available. With this business function, you can use the new PLM Web User Interface (PLM Web-UI), which provides the following features:

Web-based user interface for the following master data:

Material

Material BOM

Document

Change number

Classification objects (classes and characteristics)
Classification data is available on tab pages in the Web UI of an object.

Work center and control center
Work center and control center is the central entry point for the PLM Web UI. It contains functions such as a search, favorites, and worklists. Role-specific navigation between objects, search results, and the work center and control center is enabled by integration with the Object Navigator (CA-EPT-NAV).

Internet collaboration
You can give external parties Web access to the data in the SAP PLM back-end system through secure architecture. The PLM Web UI can be decoupled from the back-end system and installed in a demilitarized zone (DMZ) outside your corporate firewall.

Authorization and access control context
You can control access to data at context and user or role level. For example, not all users will be allowed to see all material BOMs, even though they have general authorization to display material BOMs.
With an access control context (ACC) or access control list (ACL) you can tailor user access to the objects in the PLM Web UI to your requirements.

Engineering desktop (E-desktop)
You can use the engineering desktop to transfer CAD structures to the PLM system, if you have an optional SAP CAD integration product installed. Afterwards you can create a material BOM or an iPPE product structure based on the CAD structure.

Product-Centric View (PCV)
Product-Centric View enables easy retrieval of product-related information from various internal data sources. It provides analytical applications which are embedded and operate in the business application the user is working in. PCV offers capabilities that enable customers and partners to include new data sources in PCV and to enhance standard business content with additional analytics.

Collection of PLM-relevant nodes in Customizing
You can now find all PLM-relevant entries in Customizing for the back-end system under ***Logistics - General*** -> ***Product Lifecycle Management (PLM)***. Existing paths are still valid.

Collection of PLM-relevant topics in SAP Library
You can now find all PLM-relevant topics in SAP Library under ***SAP ERP***

Central Component -> ***Logistics*** -> ***Product Lifecycle Management (PLM)***. Existing paths are still valid.

Effects on Customizing

You make the Customizing settings for this function in Customizing under ***Logistics - General*** -> ***Product Lifecycle Management (PLM)*** -> ***PLM Web User Interface***.

Business Function Display Changes in ACL

PLM_EDM70_DisplayChangeswithACL: BF *Display Changes to ACL* (New)

Use

As of *SAP ECC 6.0, Enhancement Package 4 (EA-APPL 604)* the business function *Display Changes to ACL* is available. With this business function, you can implement the ACL change report for SAP PLM Document Management (SAP PLM DMS). This report allows you to track the changes made to an access control list (ACL) of a document info record (DIR).

See also

For more information, see SAP Library under *Business Functions (SAP Enhancement Package 4 for SAP ERP 6.0) -> Introduction: Business Function Sets and Business Functions -> Enterprise Business Functions -> Logistics -> Product Lifecycle Management -> Display Changes to ACL*.

Manufacturing Execution

Business Function Batch History

LOG_PP_604_BATHIS: Batch History (new)

Use

As of ***SAP ECC 6.0***, ***Enhancement Package 4***, ***Business Function Batch History*** (***LOG_PP_604_BATHIS***), you can implement an integrated scenario in SAP ERP. Batch history enables you to obtain complete batch history considering all relevant batch-related object types stored in different SAP and Non-SAP systems.

Effects on Existing Data

- Master data is not changed using Batch History functionality.
- Transactional data is changed by the Follow-Up Actions functionality from the Batch History details screen such as changing a Batch-Related Object (BRO) type.

Effects on Data Transfer

An index table (*TOBJ_D_INDEX*) is used to store information relevant to all batch related object types and this is based on a pull principle. A report program (*RVBOBJTABUPD*) will collect data from various batch related object types. You must select the *Initial* run for the first update and subsequently use the *Delta* option. You can define the database tables related to a batch related object type, define the required fields for attributes and maintain in customizing settings which is used to update the index table.

Effects on Customizing

You make the following Customizing settings for this function in Customizing for *LO-BM*:

- You define the BRO types and parameters by choosing *Logistics-General -> Batch Management -> Batch Information Cockpit -> Batch History- >Batch-Related Object Types -> Define Batch-Related Object Types and Parameters*.
- You define the review activities for BRO types by choosing *Logistics-General -> Batch Management->Batch Information Cockpit -> Batch History -> Follow-Up Actions for BRO Type -> BAdI: Follow-Up Actions for Batch-Related Object Types*.

See also

For more information, see SAP Library under *SAP ERP Central Component->Logistics-General (LO) ->Batch Management (LO-BM) -> Batch Information Cockpit -> Batch History*.

Business Function Order Split

LOG_PP_PROD_ORD_SPLIT: Business Function Order Split (New)

Use

As of *SAP ECC 6.0, Enterprise Extension SAP_APPL, Enhancement Package 4 (SAP_APPL 604)* , the business function *Order Split* is available.

This business function provides you with enhanced functions for the order split that enable you to react to unforeseen events in production, changed customer requirements, or changes in priority of the production orders. The costs are allocated proportionally between the parent order and the child order, thus enabling a meaningful comparison of planned and actual costs.

To allocate the costs between the parent and child orders, you must specify a by-product at the time of the split, to which the costs of the parent order already occurred are transferred proportionally to the child order. The by-product must be a material that is subject to a batch management requirement and individually valuated.

There are three split methods:

- Split with same material
  The material of the parent and child orders is the same.
- Split with other material
  The materials of the parent and child orders differ.
- Split to warehouse
  The product that has arisen from work operations to date is placed in storage as a by-product.

You can also determine the split quantity via WIP batches, component batches, or planned independent requirements.

If there were problems involving the goods receipt of the by-product and it was not possible to post the goods receipt, the status of the order is set to 'Locked Through Splitting'. In this case, it is necessary to postprocess the split. You can use the function *Order -> Postprocessing -> Order Split* in the production order to repost the goods receipt of the by-product. To revoke the status 'Locked Through Splitting' and continue processing the order, you can use the function *Order -> Postprocessing -> Lock Status*.

BAdIs for customer-specific enhancements and for price calculation purposes are available for the order split in Customizing under ***Production -> Shop Floor Control -> Master Data -> Order -> Business Add-Ins (BAdIs) for the Order Split***.

Effects on Existing Data

The interfaces in the SAP menu for the order split have been adjusted to accommodate the enhanced order split functions:

- Selection of split method
- Depending on the split method specified, further fields are shown
  - Field for the by-product to which the costs incurred for the child order can be posted
  - Field for material if the latter differs from the material of the order
  - Pushbutton to determine the split quantity:
    This takes you to a further screen with a selection field with the possible ways of determining the split quantity.
- Enhancement of the *Order* menu in the production order through the addition of

the option *Order -> Postprocessing*.

See also

For more information, refer to the SAP Library under *SAP ERP Enhancement Packages -> Business Funtion Sets and Business Functions -> Logistics -> Production Planning and Control*.

Business Function Business Package for Production Supervisor

LOG_PP_PRSP: Business Function Business Package for Production Supervisor (New)

Use

As of ***SAP ECC 6.0, Enterprise Extension SCM, Enhancement Package 4 (EA-SCM 604)***, the business function ***Business Package for Production Supervisor*** is available. This business function enables you to use the role of the production supervisor in the portal.

As of this Release, the role of the production supervisor in this business package is enhanced by the addition of further industries. Previously, the role could only be used in discrete manufacturing. Now you can also use the business package for production control in the process industry and in repetitive manufacturing.

Employees assigned to the portal role ***production supervisor*** have easy access in the portal to comprehensive production information and functions for the monitoring and control of the production process. New worksets and new personal worklists optimize your way of working and a wide range of services simplify and accelerate your activities in production control.

On a web user interface, your production supervisors find these web applications in clearly structured new or extended work areas.

For more information, see the Release Note **Business Package for Production Supervisor**.

To be able to use all the functions of the production supervisor in the portal, you must activate the following business functions in addition to this one:

- LOG_PP_LMAN (EhP2)
- LOG_PP_MIS (EhP3)
- LOG_PP_SRN_CONF (EhP3)

See also

For more information, refer to the SAP Library under ***Business Function Sets and Business Functions --> Enterprise Business Functions --> Logistics --> Production Planning and Control --> Business Package for Production Supervisor***

LOG_PP_PRSP: Business Package for Production Supervisor (Changed)

Use

As of ***SAP ECC 6.0, Enterprise Extension SCM, Enhancement Package 4 (EA-SCM 604), the business function Business Package for Production Supervisor is available. If you wish to activate this business function and use the production supervisor portal content, you must install the Business Package for Production Supervisor 1.4.***

You can now also use the **role of the production supervisor** for production control in the process industry and repetitive manufacturing. Previously, the role could only be used in discrete manufacturing.

In the portal, there is just one role for all industries. In the backend system, on the other hand, the following individual roles are offered in the transaction PFCG:

- SAP_PRODUCTION_SUPERVISOR_PI Production Supervisor PI
- SAP_PRODUCTION_SUPERVISOR_PP Production Supervisor PP
- SAP_PRODUCTION_SUPERVISOR_REM Production Supervisor Repetitive Manufacturing

If you assign certain applications of the Production Supervisor role (OPS-PRSP-POWL-*) to one of the individual roles in the transaction **POWL_TYPER**, the user to whom this individual role is assigned sees only those object types that are relevant to his or her industry in the iViews in question.

The following new worksets and iViews are offered in the portal:

- **Workset Shift Reports**
  The new workset ***Shift Reports*** enables you to create and process shift reports. It also offers you the option of creating maintenance notifications, maintenance orders, and quality notifications, as well as to carry out a personnel evaluation. A key component of the workset is the new iView ***Shift Reports***. This iView provides an overview of already created shift reports. You can see at a glance whether you still have to sign a shift report. Using the appropriate function keys, you can create, invoke, print out, and sign shift reports.
- **Workset Planning Situation**
  The new workset ***Planning Situation*** gives the production supervisor an overview of problems that are already visible in the planning phase, enabling him or her to react accordingly to ensure trouble-free production.
  The ***Planning Situation*** workset consists of the following parts:
  - iView ***Alerts***
    The existing iView has been enhanced so that now also range-of-coverage alerts and alerts from SAP APO can be received and displayed.
    See also: **Example Implementation for Alerts for Production Planning**
  - iView ***Range-of-Coverage Overview***
    This new iView gives you an overview of the materials with a critical range of coverage (days' supply). The status is displayed in the form of traffic lights.
  - iView ***Capacity Overview***
    This new iView provides a tabular overview of the capactiy utilization and the available capacity of selected work centers.
  - iView ***Sales Orders Subject to Delay***
    In this iView, you can have a list showing sales orders subject to delay

generated. For each sales order, you get the expected number of days by which the sales order is delayed in comparison with the requirement date. In addition, you can determine the BOM levels at which the delay is occurring. The basis for this data is provided by the **report RMDMULTILEVELDELAY**, which determines the delay of the affected MRP elements on multiple levels and makes this data available to the business package.

The following existing worksets and iViews im the portal have been enhanced:

- **Workset Work Overview**
  The workset has been enhanced through the addition of the iView ***Capacity Utilization of Work Centers***, which is based on a BI evaluation.
  The already existing iView ***Worklist*** has been enhanced through the addition of the following evaluations:
  Previously you could create and display a personal worklist containing order operations awaiting confirmation that can be directly confirmed from here. This is now also possible for planned orders in repetitive manufacturing and for phases in process orders.
  Previously, you could also create a ***List of Operations***. This is now also possible for phases and PI sheets.
  You have the option of displaying the order details and results of the feasibility check for the operations to be confirmed.
  In addition, you can invoke information on production and process orders and on planned orders in repetitive manufacturing from the order info system.
  Another new feature is that you can display information from the ***production order info system*** such as predecessor/successor information in the evaluation of PP operations.
- **Workset Confirmation**
  This workset has been enhanced by the iView ***Create Confirmation for Process Orders***. You can confirm process orders in this iView.

The following worksets and iViews have been removed:

- The ***Shift Notes*** workset has been completely removed.
- The iViews ***Stock Quantity Overview*** and ***Stock Days' Supply Over Time*** have been removed from the ***Work Overview*** workset.

Effects on Customizing

Customizing for the production supervisor has been enhanced by the following new IMG activities:

- **Settings for Variant Selection for Object Types of the Info System**
- **Enhancements for Worklist** (BAdI COCF_WORKLIST)
- **Enhancements for Customers' Own Fields in the Portal Confirmation**(BAdI RMAN_PRSP_CUSTOM_FIELD)
- Make Settings for Shift Reports and Shift Notes

See also

More information is available in the central Release Note for the business function ***LOG_PP_PRSP: Business Function Business Package for Production Supervisor (New)*** and in the ***SAP Library*** under ***SAP ERP Central Component --> Business***

Packages (Portal Content) --> Business Package for Production Supervisor.

Business Function Functions for WIP Batches

LOG_PP_WIP_BATCH: Business Function Work In Process Batch (New)

Use

As of **SAP ECC 6.0, Enterprise Extension SAP_APPL, Enhancement Package 4 (SAP_APPL 604)**, the business function *Work-in-Process (WIP) Batch* is available.

With this batch, you can describe a product over the course of its manufacture (for example, after individual worksteps). In addition, you establish the link between the input batch and the goods receipt batch and thus ensure comprehensive batch tracing.

You can use WIP batches in production and process orders.

Create WIP Batches

WIP batch management is integrated in the following confirmation transactions:

- For production orders under *Production -> Shop Floor Control -> Confirmation -> Enter -> For Operation -> Time Ticket*
- For process orders under *Production - Process -> Process Order -> Confirmation -> Enter for Phase -> Time Ticket*

Here you can generate and process WIP batches for production or process orders.

Prerequisites

The following preconditions must be satisfied for WIP batch management:

- You must activate the WIP batch functionality in Customizing.
- You must also create a confirmation profile, in which you include the *WIP batches* area with the necessary fields, in Customizing for Shop Floor Control. You must either define the profile as a standard profile or assign it to the users with the aid of the user parameter CORUPROF.

A WIP batch is always automatically assigned to a production or process order. On completion of your production, you can then bequeath the characteristics of the WIP batches generated to new goods receipt batches.

Activate Inventory Management

During the production process, you can specify that a goods receipt is posted for WIP batches. To do so, you must set the ***Post Goods Receipt for WIP Batch*** indicator on the *Realization* tab page in Customizing for Production under ***Shop Floor Control -> Master Data -> Order -> Define Order-Type-Dependent Parameters*** . The goods receipt for a WIP batch is posted upon completion of a work operation. In the process, previous postings are reversed by the system in the background and on a document-neutral basis so that the number of WIP batches does not increase from one operation to the next.

Archiving of WIP batch where-used records

When you archive a production or process order, deletion flags are also set for the WIP batch where-used records. You can likewise archive the WIP batch where-used records. The archiving object PP_WIPCHVW is available for WIP batch where-used records.

Effects on Existing Data

An additional field ***Batch Type*** is displayed in the batch master record. This field is not ready to accept input. The batch type determines whether the batch is a finished product for a material or a WIP batch that describes the material during the individual processing steps in the production order. The value **WIP Batch** is set by the system

when the batch is confirmed as a WIP batch.

If you use the *Process Batch* functionality of the industry solution Mill Products (IS-MP) and wish to use the WIP batch as of this Release, you must run the report R_CONVERT_WIPBATCH.

Furthermore, you must then run the report R_SET_BATCHTYPE to include the ***Batch Type*** field in the batch master record.

The control key in the routing has been enhanced through the addition of the *WIP Batch* field. Here you can specify whether WIP batches are necessary, allowed, or not allowed for an operation.

Effects on Customizing

Activate the functionality in Customizing under ***Logistics General -> Batch Management -> WIP Batches -> Activate WIP Batch***.

Create a confirmation profile in Customizing for Shop Floor Control under ***Operations -> Confirmation -> Single-Screen Entry -> Define Single-Screen Entry***.

See also

For more information on WIP batches, refer to the SAP Library under *SAP ERP Central Component -> Logistics -> Logistics General -> Batch Management -> WIP Batches.*

See also Release Note **LOG_MM_OM_1: Enhancements in Production Planning** for more on the use of WIP batches.

Life-Cycle Data Management

Business Function Product Labeling in SAP PLM Recipe Management

PLM_RM_Product_Labeling: PLM-RM: Labeling (New)

Use

As of ***SAP ECC 6.0***, ***Enterprise Extension PLM***, ***Enhancement Package 4 for SAP ERP 6.0*** (***EA-PLM 604***), the business function ***PLM-RM: Labeling*** is available.

With this business function, you can activate the PLM-RM-LBL component. You use this component to create and manage label sets with which you can create print templates for labels, for example.

Effects on Customizing

To use labeling, edit the activities in Customizing for ***Labeling*** under ***Production Planning for Process Industries*** -> ***Master Data*** -> ***Recipe Management*** -> ***Labeling***.

Check the implementations of the BAdIs and adjust them as necessary.

See also

For more information, see SAP Library under ***Business Function Sets and Business Functions*** -> ***Enterprise Business Functions*** -> ***Product Lifecycle Management*** -> ***Recipe Management*** -> ***Labeling***.