Release Notes for
SAP Supply Chain Management
Release SAP SCM 7.0
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<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>SAP SCM Monitoring with CCMS (Enhanced)</td>
<td>1</td>
</tr>
<tr>
<td>1.2</td>
<td>SCM-APO Advanced Planning and Optimization</td>
<td>3</td>
</tr>
<tr>
<td>1.2.1</td>
<td>Structure Changes in the IMG of SAP APO</td>
<td>3</td>
</tr>
<tr>
<td>1.2.2</td>
<td>SCM-APO-CA APO Cross-Application Components</td>
<td>6</td>
</tr>
<tr>
<td>1.2.2.1</td>
<td>Functions for APO Consignment Vendor-Managed Inventory (New)</td>
<td>6</td>
</tr>
<tr>
<td>1.2.2.2</td>
<td>SCM-APO-CA-CDP Characteristics-Dependent Planning</td>
<td>6</td>
</tr>
<tr>
<td>1.2.2.2.1</td>
<td>CDP: Integration of Orders via APO CIF (Enhanced)</td>
<td>6</td>
</tr>
<tr>
<td>1.2.3</td>
<td>SCM-APO-MD Master Data</td>
<td>7</td>
</tr>
<tr>
<td>1.2.3.1</td>
<td>SCM-APO-MD-PR Product</td>
<td>7</td>
</tr>
<tr>
<td>1.2.3.1.1</td>
<td>Requirements Strategy for Configurable Products (New)</td>
<td>7</td>
</tr>
<tr>
<td>1.2.4</td>
<td>SCM-APO-VS Vehicle Scheduling</td>
<td>8</td>
</tr>
<tr>
<td>1.2.4.1</td>
<td>SCM-APO-VS-INS Interactive VS</td>
<td>8</td>
</tr>
<tr>
<td>1.2.4.1.1</td>
<td>Splitting Stock Transport Requisitions (Enhanced)</td>
<td>8</td>
</tr>
<tr>
<td>1.2.5</td>
<td>SCM-APO-SNP Supply Network Planning (SNP)</td>
<td>9</td>
</tr>
<tr>
<td>1.2.5.1</td>
<td>Low-Level Code Determination (Enhanced)</td>
<td>9</td>
</tr>
<tr>
<td>1.2.5.2</td>
<td>Functions for APO Consignment Vendor-Managed Inventory (New)</td>
<td>10</td>
</tr>
<tr>
<td>1.2.5.3</td>
<td>SCM-APO-SNP-BF Basic Functions</td>
<td>10</td>
</tr>
<tr>
<td>1.2.5.3.1</td>
<td>Supply Network Planning (SNP) Queue Processing (Enhanced)</td>
<td>11</td>
</tr>
<tr>
<td>1.2.6</td>
<td>SCM-APO-SDM Multilevel Supply &amp; Demand Matching</td>
<td>12</td>
</tr>
<tr>
<td>1.2.6.1</td>
<td>SCM-APO-SDM-CTM Capable-to-Match</td>
<td>12</td>
</tr>
<tr>
<td>1.2.6.1.1</td>
<td>Capable-to-Match (CTM) (Enhanced)</td>
<td>12</td>
</tr>
<tr>
<td>1.2.7</td>
<td>SCM-APO-FCS Demand Planning</td>
<td>13</td>
</tr>
<tr>
<td>1.2.7.1</td>
<td>Forecast Release and Consumption with Configuration (New)</td>
<td>13</td>
</tr>
<tr>
<td>1.2.7.2</td>
<td>MLR Forecasting Using POS Data (New)</td>
<td>14</td>
</tr>
<tr>
<td>1.2.7.3</td>
<td>Forecasting Enhancements (Enhanced)</td>
<td>14</td>
</tr>
<tr>
<td>1.2.7.4</td>
<td>Definition of Configuration Schema (Enhanced)</td>
<td>15</td>
</tr>
<tr>
<td>1.2.7.5</td>
<td>SCM-APO-FCS-CFM Customer Forecast Management</td>
<td>16</td>
</tr>
<tr>
<td>1.2.7.5.1</td>
<td>Customer Forecast Management (New)</td>
<td>16</td>
</tr>
<tr>
<td>1.2.8</td>
<td>SCM-APO-SPP Service Parts Planning</td>
<td>17</td>
</tr>
<tr>
<td>1.2.8.1</td>
<td>Location Product Master Data for Service Parts Planning (Enhanced)</td>
<td>17</td>
</tr>
<tr>
<td>1.2.8.2</td>
<td>OEM-Managed Inventory (New)</td>
<td>18</td>
</tr>
<tr>
<td>1.2.8.3</td>
<td>Name of the SPP - Customer View (Internal View) Changed</td>
<td>19</td>
</tr>
<tr>
<td>1.2.8.4</td>
<td>User Interfaces for Service Parts Planning (Enhanced)</td>
<td>19</td>
</tr>
<tr>
<td>1.2.8.5</td>
<td>Worklists for Service Parts Planning (New)</td>
<td>20</td>
</tr>
<tr>
<td>1.2.8.6</td>
<td>Creating Users With SAP NetWeaver Identity Management (New)</td>
<td>22</td>
</tr>
<tr>
<td>1.2.8.7</td>
<td>SCM-APO-SPP-CPD Service Parts Forecast</td>
<td>23</td>
</tr>
<tr>
<td>1.2.8.7.1</td>
<td>Creation of the Demand History (Enhanced)</td>
<td>23</td>
</tr>
<tr>
<td>1.2.8.7.2</td>
<td>Simulations in Service Parts Planning (Enhanced)</td>
<td>24</td>
</tr>
<tr>
<td>1.2.8.8</td>
<td>SCM-APO-SPP-SFC Service Parts Forecast</td>
<td>25</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
<td>Page</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>1.2.8.8.1</td>
<td>Functions in Forecasting (Enhanced)</td>
<td>25</td>
</tr>
<tr>
<td>1.2.8.9</td>
<td>SCM-APO-SPP-SIP Service Parts Inventory Planning</td>
<td>25</td>
</tr>
<tr>
<td>1.2.8.9.1</td>
<td>Functions for Inventory Planning (Enhanced)</td>
<td>25</td>
</tr>
<tr>
<td>1.2.8.9.2</td>
<td>Functions in Surplus and Obsolescence Planning (Enhanced)</td>
<td>27</td>
</tr>
<tr>
<td>1.2.8.10</td>
<td>SCM-APO-SPP-SDR Distribution Requirements Planning for Service Part</td>
<td>28</td>
</tr>
<tr>
<td>1.2.8.10.1</td>
<td>Functions in Distribution Requirements Planning (DRP) (Enhanced)</td>
<td>28</td>
</tr>
<tr>
<td>1.2.8.11</td>
<td>SCM-APO-SPP-SDE Service Parts Deployment</td>
<td>31</td>
</tr>
<tr>
<td>1.2.8.11.1</td>
<td>Functions in Inventory Balancing (Enhanced)</td>
<td>32</td>
</tr>
<tr>
<td>1.2.8.11.2</td>
<td>Multi-Level Priority Tier Processing in Deployment (New)</td>
<td>33</td>
</tr>
<tr>
<td>1.2.8.11.3</td>
<td>Functions in Deployment (Enhanced)</td>
<td>34</td>
</tr>
<tr>
<td>1.2.8.12</td>
<td>SCM-APO-SPP-PWL Worklist</td>
<td>35</td>
</tr>
<tr>
<td>1.2.8.12.1</td>
<td>Roles for Service Parts Planning (Enhanced)</td>
<td>35</td>
</tr>
<tr>
<td>1.2.8.13</td>
<td>SCM-APO-SPP-SFA Service Fill Analysis</td>
<td>35</td>
</tr>
<tr>
<td>1.2.8.13.1</td>
<td>Functions in Reporting and Monitoring (Enhanced)</td>
<td>35</td>
</tr>
<tr>
<td>1.2.8.14</td>
<td>SCM-APO-SPP-INB Inbound Delivery Monitor</td>
<td>37</td>
</tr>
<tr>
<td>1.2.8.14.1</td>
<td>Functions in Reporting and Monitoring (Enhanced)</td>
<td>37</td>
</tr>
<tr>
<td>1.2.8.15</td>
<td>SCM-APO-SPP-SHA Shortage Analysis</td>
<td>39</td>
</tr>
<tr>
<td>1.2.8.15.1</td>
<td>Functions in the Alert Monitor (Enhanced)</td>
<td>39</td>
</tr>
<tr>
<td>1.2.8.15.2</td>
<td>Functions in Reporting and Monitoring (Enhanced)</td>
<td>40</td>
</tr>
<tr>
<td>1.2.8.15.3</td>
<td>Functions in Shortage Analysis</td>
<td>41</td>
</tr>
<tr>
<td>1.2.9</td>
<td>SCM-APO-PPS Production Planning and Detailed Scheduling</td>
<td>43</td>
</tr>
<tr>
<td>1.2.9.1</td>
<td>Order Scheduling for Block Changes (Enhanced)</td>
<td>43</td>
</tr>
<tr>
<td>1.2.9.2</td>
<td>PP/DS Enhancements for the Process Industry</td>
<td>44</td>
</tr>
<tr>
<td>1.2.9.3</td>
<td>SCM-APO-PPS-PPT Product Planning Table</td>
<td>48</td>
</tr>
<tr>
<td>1.2.9.3.1</td>
<td>PPT: Cross-location Planning Chart and Other Enhancements (Enhanced)</td>
<td>48</td>
</tr>
<tr>
<td>1.2.9.4</td>
<td>SCM-APO-PPS-HEU Heuristics</td>
<td>52</td>
</tr>
<tr>
<td>1.2.9.4.1</td>
<td>PP/DS Heuristics in Characteristics-based Cross-location Planning</td>
<td>52</td>
</tr>
<tr>
<td>1.2.9.4.2</td>
<td>PP/DS Deployment Heuristic (New)</td>
<td>54</td>
</tr>
<tr>
<td>1.2.10</td>
<td>SCM-APO-ATP Global Available-to-Promise</td>
<td>56</td>
</tr>
<tr>
<td>1.2.10.1</td>
<td>Backward Consumption (Enhanced)</td>
<td>56</td>
</tr>
<tr>
<td>1.2.10.2</td>
<td>ATP Category (Enhanced)</td>
<td>56</td>
</tr>
<tr>
<td>1.2.10.3</td>
<td>Adoption of Scheduling Results (Changed)</td>
<td>57</td>
</tr>
<tr>
<td>1.2.10.4</td>
<td>Subcontracting in MATP (Enhanced)</td>
<td>57</td>
</tr>
<tr>
<td>1.2.11</td>
<td>SCM-APO-OPT Optimization</td>
<td>58</td>
</tr>
</tbody>
</table>
1.2.11.1 SCM-APO-OPT-BF Basic Functions
1.2.11.1.1 Remote Control and Communication Framework (Changed)
1.2.12 SCM-APO-INT Interfaces
1.2.12.1 SCM-APO-INT-MD Master Data
1.2.12.1.1 SCM-APO-INT-MD-CLC Classes and Characteristics
1.2.12.1.1.1 Definition of Configuration Schema (Enhanced)
1.3 SCM-BAS SCM Basis
1.3.1 Structure Changes in the IMG of SCM Basis
1.3.2 SCM-BAS-INT Interfaces
1.3.2.1 SCM-BAS-INT-MD CIF Master Data
1.3.2.1.1 Initial Data Transfer via Core Interface (CIF) (Enhanced)
1.3.3 SCM-BAS-AMO Alert Monitor
1.3.3.1 Alert Monitor (Enhanced)
1.3.4 SCM-BAS-PSM Planning Service Manager
1.3.4.1 Functions for Planning Service Manager (PSM) (Enhanced)
1.3.5 SCM-BAS-TDL Transaction Data Layer
1.3.5.1 Triggers for Service Parts Planning (Enhanced)
1.3.6 SCM-BAS-MD Master Data
1.3.6.1 SAP SCM Basis Monitoring with CCMS (New)
1.3.6.2 SCM-BAS-MD-TL Transportation Lanes, TDL Profile and Planning Cost
1.3.6.2.1 Maintaining Means of Transport (Changed)
1.3.7 SCM-BAS-RCC Remote Control and Communication Framework
1.3.7.1 Remote Control and Communication Framework (Deleted)
1.4 SCM-EWM Extended Warehouse Management
1.4.1 Cross-Docking (Enhanced)
1.4.2 SAP Extended Warehouse Management: Create User (new)
1.4.3 Structure changes in the EWM IMG
1.4.4 Material Flow System (MFS)
1.4.5 Graphical Warehouse Layout (New)
1.4.6 Integration of Production Supply of EWM into Production Planning in ERP
1.4.7 Additional Functions in Radio Frequency (RF)
1.4.8 Additional Functions for Warehouse Order Processing
1.4.9 SCM-EWM-MON Monitoring
1.4.9.1 SAP EWM Monitoring with CCMS (New)
1.5 SCM-EM Event Management
1.5.1 Structure Changes in IMG for SAP Event Management
1.5.2 SAP Business Information Warehouse Interface (Changed)
1.5.3 SAP Object Event Repository Complies with EPCIS 1.0 Specification (New)
1.5.4 Other interfaces
1.5.5 EventCaptureNotification Service (Enhanced) 79
1.5.6 Poll Service (Enhanced) 79
1.5.7 Roles for SAP Object Event Repository (New) 81
1.5.8 Subscriptions (New) 81
1.5.9 Alternative Display Formats for URNs (Enhanced) 82
1.5.10 SCM-EM-MGR Event Manager 83
1.5.10.1 SCM-EM-MGR-EVP Event Processing 83
1.5.10.1.1 Web Interface (Enhanced) 83
1.6 SCM-ICH Supply Network Collaboration 84
1.6.1 Structure Changes in the IMG of SAP SNC 84
1.6.2 Quick View (New) 87
1.6.3 Selection Using Product Group and Product Group Type (New) 87
1.6.4 SCM-ICH-MD Master Data 88
1.6.4.1 Inventory Management (Changed) 88
1.6.4.2 Creating Users with Identity Management (New) 89
1.6.4.3 Location Product Status (Enhanced) 90
1.6.4.4 Roles (Enhanced) 91
1.6.4.5 User Administration (New) 92
1.6.5 SCM-ICH-REL Scheduling Agreement Release 93
1.6.5.1 New-Note Alerts for SA Releases (Changed) 93
1.6.6 SCM-ICH-PO Purchase Order and Replenishment Order 94
1.6.6.1 XML Messages for Delivery Collaboration (Enhanced) 94
1.6.6.2 Control of Actions for Purchase Order and Replenishment Order (Enhanced) 94
1.6.6.3 Purchase Order XML Messages (Enhanced) 96
1.6.6.4 Batches and Configuration in Purchase Order Collaboration (Enhanced) 97
1.6.6.5 Purchase Order Screens and Replenishment Order Screens (Enhanced) 100
1.6.6.6 Due Schedule Lines (Enhanced) 100
1.6.6.7 Manufacturer Part Number (New) 102
1.6.6.8 Price Confirmation (New) 102
1.6.6.9 Technical Basis for Web UI Screens (Enhanced) 103
1.6.6.10 Purchase Order Worklist (Enhanced) 104
1.6.7 SCM-ICH-ASN Advanced Shipping Notification 105
1.6.7.1 XML Messages for Delivery Collaboration (Enhanced) 105
1.6.7.2 Due Schedule Lines (Enhanced) 106
1.6.8 SCM-ICH-WO Work Order 107
1.6.8.1 Batches and Configuration in Work Order Collaboration
1.6.8.2 Sending Work Orders to Customer Back-End System (Enhanced) 107
1.6.8.3 Splitting of Deliveries (Enhanced) 110
1.6.8.4 Work Order Worklist (New) 111
1.6.9 SCM-ICH-IV Invoice 112
1.6.9.1 Invoice Alerts (New) 112
1.6.10 SCM-ICH-IMO Inventory Monitor 113
1.6.10.1 Inventory in SMI and Outsourced Manufacturing (Enhanced) 113
1.6.10.2 Data in the Min/Max Replenishment Monitor (Enhanced) 115
1.6.10.3 Data in the RR Monitor (Enhanced) 116
1.6.10.4 Functions in the RR Overview (Enhanced) 117
1.6.10.5 Configuring the Replenishment Monitor Overview (Enhanced) 118
1.6.10.6 Saving Planning Service Results in the Replenishment Monitors (Changed) 119
1.6.10.7 Refresh Concept (Enhanced) 119
1.6.10.8 Data Matrix (Enhanced) 120
1.6.10.9 Visibility of Location Products (Enhanced) 121
1.6.11 SCM-ICH-KNB Kanban 123
1.6.11.1 New Selection Parameter for the Kanban Web Screen (Enhanced) 123
1.6.12 SCM-ICH-SNI Supply Network Inventory 123
1.6.12.1 Inventory in SMI and Outsourced Manufacturing (Enhanced) 123
1.6.12.2 Inventory Overview (New) 126
1.6.12.3 Data Matrix (Enhanced) 127
1.6.12.4 Visibility of Location Products (Enhanced) 128
1.6.13 SCM-ICH-FCS Forecast 130
1.6.13.1 Visibility of Location Products (Enhanced) 130
1.6.14 SCM-ICH-NDC Net Requirements Calculation 132
1.6.14.1 Product Allocation (Enhanced) 132
1.6.14.2 Minimum and Maximum Lot Size (New) 133
1.6.14.3 Two-Level Rounding (New) 133
1.6.14.4 Safety Stock Planning (Enhanced) 134
1.6.15 SCM-ICH-PRO Promotion Planning 135
1.6.15.1 Determining the Promotion ID (Enhanced) 135
1.6.16 SCM-ICH-TLB Transport Load Builder 135
1.6.16.1 Product Allocation (Enhanced) 135
1.6.16.2 Minimum and Maximum Lot Size (New) 136
1.6.16.3 Transport Load Building (Enhanced) 137
1.6.17 SCM-ICH-DIO Inbound/Outbound Data Processing 138
1.6.17.1 SAP SNC Monitoring with CCMS (New) 138
1.6.17.2 Inventory in SMI and Outsourced Manufacturing (Enhanced) 138
1.6.17.3 Location Product Status (Enhanced) 141
1.6.18 SCM-ICH-AMO Alert Monitor 142
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6.18.1</td>
<td>Activation of Alert Types (Changed)</td>
<td>142</td>
</tr>
<tr>
<td>1.6.18.2</td>
<td>SAP SNC Monitoring with CCMS (New)</td>
<td>142</td>
</tr>
<tr>
<td>1.6.18.3</td>
<td>Control of Actions for Purchase Order and Replenishment Order (Enhanced)</td>
<td>143</td>
</tr>
<tr>
<td>1.6.19</td>
<td>SCM-ICH-ERP ERP-SNC Integration</td>
<td>144</td>
</tr>
<tr>
<td>1.6.19.1</td>
<td>Inventory in SMI and Outsourced Manufacturing (Enhanced)</td>
<td>144</td>
</tr>
<tr>
<td>1.6.19.2</td>
<td>Purchase Order XML Messages (Enhanced)</td>
<td>147</td>
</tr>
<tr>
<td>1.6.20.1</td>
<td>File Transfer (New)</td>
<td>148</td>
</tr>
</tbody>
</table>
1 SCM

Supply Chain Management

1.1 SAP SCM Monitoring with CCMS (Enhanced)

Use

As of SAP NetWeaver 7.0 including SAP enhancement package 1 and SAP Supply Chain Management (SAP SCM) 7.0, the predefined monitor set SAP SCM Monitor Templates in the monitoring architecture of the Computing Center Management System (CCMS) provides additional monitoring templates and monitoring tree elements. The CCMS Monitoring Architecture is a framework available in SAP NetWeaver into which monitoring and administration functions can be added.

The SAP SCM Monitor Templates monitor set includes the following:

- **APO Monitor (enhanced)**
  - The APO Monitor allows you to check the following:
    - SAP Core Interface (CIF)
    - qRFC consumption of planned independent requirements (PIR)
    - CIF queues with inbound and outbound CIF queues for transactional RFCs and queued RFCs
    - SNP Monitor for SNP master data and time series (new)

- **EWM Monitor (new)**
  - The EWM Monitor allows you to monitor inbound and outbound queues for external and internal message processing.

- **Event Manager Monitor**

- **F&R Monitor**

- **SCM Optimizer Monitor**

- **SNC Monitor (new)**
  - For each SAP SNC client of the system landscape, the SNC Monitor allows you to monitor inbound and outbound message processing of XML messages.

- **liveCache Monitor**

Effects on System Administration

To use the SCM Monitor Templates monitor set as a template for your own monitor, copy the desired monitor and adapt it to your needs. If you run CCMS from a central system to monitor your system landscape, set up system connections with your SAP SCM systems. For more information, see the SAP NetWeaver documentation on SAP Help Portal at [http://help.sap.com](http://help.sap.com) under SAP Library -> SAP NetWeaver Library -> SAP NetWeaver by Key Capability -> Solution Life Cycle Management by Key Capability -> Solution Monitoring -> Monitoring in the CCMS.
1.2 SCM-APO  

Advanced Planning and Optimization

1.2.1 Structure Changes in the IMG of SAP APO

Use

As of SAP SCM 7.0, the structure of the Implementation Guide (IMG) for SAP APO has changed. You must regenerate the project IMGs to transfer these changes.

New IMG Structure Nodes and IMG Activities

- IMG for Service Parts Planning (SPP)
  - Basic Settings -> Settings for User Interfaces -> Define User-Specific and Application-Specific Display of the BOD
  - Distribution Requirements Planning (DRP) -> Define Reasons for DRP Locks
  - Distribution Requirements Planning (DRP) -> Define Profile for Repairable Returns Forecast Based on Time Series
  - Distribution Requirements Planning (DRP) -> Define Profile for Repairable Returns Forecast Based on Time Series
  - Deployment -> Define Reasons for Deployment
  - Inventory Balancing -> Define Service Profile for Inventory Balancing of Unserviceable Products
  - Node under Monitoring: Overdue Orders and Schedule Lines
  - Monitoring -> Service Fill Monitor -> Select ATP Categories for the Service Fill Monitor
  - Monitoring -> Service Loss Analysis -> Define Processing Order for Overdue Service Loss Reasons
  - Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdI: Define Filter for BOD Display
  - Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Forecasting -> BAdI: Change Final Forecast
  - Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Inventory Planning -> BAdl: Safety Stock Adjustment at Parent Location for Push Deployment
  - Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Inventory Planning -> BAdl: Define Logic for Proposed Surplus Approval
  - Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Inventory Planning -> BAdl: Define Sorting for Surplus Disaggregation
  - Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Distribution Requirements Planning (DRP) -> BAdl: Determine Additional Quantities for Period-Based Planning
  - Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Distribution Requirements Planning (DRP) -> BAdl: Determination of Preferred Location of a VLCO
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Distribution Requirements Planning (DRP) -> BAdI: Definition of the Latest GR Time of Released Delivery Schedule Lines
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Distribution Requirements Planning (DRP) -> BAdI: Customizing of “External Procurement - Delivery Maintenance” Screen
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Deployment -> BAdI: Define Limits for Express Shipments
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Deployment -> BAdI: Determination of Parameters for the Time-Related Supply Limit
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Inventory Balancing -> BAdI: Define if Pull Deployment is a Valid Alternative to Inv. Balancing
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Inventory Balancing -> BAdI: Determine Excess and Shortage Quantities for Unserviceable Stock
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Inventory Balancing -> BAdI: Determine STR Quantities for Unserviceable Stock
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Inventory Balancing -> BAdI: Determine Sublocations and Versions for Unserviceable Stock in STRs
- Business Add-Ins (BAdIs) for Service Parts Planning (SPP) -> BAdIs for Monitoring and Reporting -> BAdI: Define System Behavior if Orders/Schedule Lines are Overdue
- Node under Business Add-Ins (BAdIs) for Service Parts Planning (SPP): BAdIs for Customer's Worklist
- IMG for Global Available-to-Promise (Global ATP)
- Node Influence RBA Substitutions for Requirement Groups under Enhancements -> Rules
- Node Confirmations under Enhancements
- Enterprise Services
  - Business Add-Ins (BAdIs) for Enterprise Services (APO) -> Service Parts Planning -> Service Part Order History -> BAdI for ProductActivityNotification_In
  - Node under Business Add-Ins (BAdIs) for Enterprise Services (APO) -> Service Parts Planning: BAdIs for Mapping Master Data in XML Messages
  - Business Add-Ins (BAdIs) for Enterprise Services (APO) -> Supply and Demand Matching -> Material Supply and Demand View
- IMG for Integration with SAP Components
  - Integration via APO Core Interface (CIF) -> Basic Settings for Data Transfer -> CIF Error Handling -> Activate CIF Incremental Load
  - Integration via APO Core Interface (CIF) -> Application-Specific Settings and
Enhancements -> Settings for Publication of Characteristics of Transactional Data -> Remove Configuration Before Transfer to ERP

- Integration via APO Core Interface (CIF) -> Application-Specific Settings and Enhancements -> Settings for Publication of Characteristics of Transactional Data -> BAdI: Adding Exception for Removing Configuration

- IMG for Demand Planning
  - Customer Forecast Management -> Define Profiles and Settings for Customer Forecast Management
  - Business Add-Ins (BAdIs) - Customer Forecast Management - BAdI: Data Release to Specified Destination
  - Business Add-Ins (BAdIs) - Customer Forecast Management - BAdI: Processing of Single Inbound Bucket

Changed IMG Activities

- IMG for Master Data
  - Classification and Configuration -> Define Configuration Schema (CDP or Variant Configuration)

- IMG for Basic Settings
  - Define Configuration Schema (CDP or Variant Configuration)

- IMG for Global Available-to-Promise (Global ATP)
  - General Settings -> Maintain Category
  - Product Allocation -> Maintain Product Allocation Group

- IMG for Supply Network Planning (SNP)
  - Basic Settings -> Maintain Global SNP Settings

- IMG for Service Parts Planning (SPP)
  - Deployment -> Define Service Profile for Deployment

Transferred IMG Activities

...

Deleted IMG Activities

- IMG for Service Parts Planning (SPP)
  - Distribution Requirements Planning (DRP) -> DRP Approval -> Define Management Approval
  Management approval can now be defined on the SAP Easy Access screen under Advanced Planning and Optimization -> Service Parts Planning (SPP) -> Planning -> Distribution Requirements Planning (DRP) -> DRP Approval.
1.2.2 SCM-APO-CA APO Cross-Application Components

1.2.2.1 Functions for APO Consignment Vendor-Managed Inventory (New)

Use

As of SAP SCM 7.0, the following new functions exist to support a consigned vendor-managed inventory scenario:

- **Consignment indicator**
  A new indicator is available on the Transport Load Builder user interface, which shows whether a consignment scenario is used for the procurement of the given TLB shipment items.

- **TLB shipment split**
  In the case of a parallel consigned and non-consigned scenario or multiple purchasing groups, a shipment split is executed during the TLB run.

- **Consignment stock in transit**
  A new key figure, Consignment Stock in Transit, has been created and added to the standard planning book 9AVMI. After posting the goods issue in ERP, the new ATP category EV is assigned to the stock in the SCM inbound process. This enables you to view intransit consignment stock data, and integrate it in the planning process.

1.2.2.2 SCM-APO-CA-CDP Characteristics-Dependent Planning

1.2.2.2.1 CDP: Integration of Orders via APO CIF (Enhanced)

Use
As of SAP SCM 7.0 you can determine whether the system sends in-house production orders and external procurement orders (that belong to the make-to-stock segment) to the ERP system with or without configuration.

Removing the configuration before the transfer of the orders to the ERP system allows you to plan with characteristics in the make-to-stock segment in SAP APO even if you do not use SAP for Discrete Industries and Mill Products (DIMP). You can use this function together with a Business Add-In (BAdI) to allow a restriction of orders per location and ATP category before the configuration is removed.

If you do not remove the configuration before the transfer, it is only possible to transfer the orders to the ERP system with configuration if you use DIMP.

**Effects on Customizing**

To remove the configuration before the transfer, use the Customizing activity Remove Configuration Before Transfer to ERP. For more information, see Customizing for Integration with SAP Components under Integration via APO Core Interface (CIF) -> Application-Specific Settings and Enhancements -> Settings for Publication of Characteristics of Transactional Data -> Remove Configuration Before Transfer to ERP.

To allow a restriction of orders per location and ATP category before the configuration is removed, use the Business Add-In BAdI: Addign Exception for Removing Configuration. For more information, see Customizing for Integration with SAP Components under Integration via APO Core Interface (CIF) -> Application-Specific Settings and Enhancements -> Settings for Publication of Characteristics of Transactional Data -> BAdI: Adding Exception for Removing Configuration.

**See also**

For more information about the integration of orders via CIF, see SAP Library for SAP Supply Chain Management on SAP Help Portal at [http://help.sap.com](http://help.sap.com) -> Overview of SAP Documentation -> SAP Business Suite -> SAP Supply Chain Management -> SAP SCM 7.0 -> Application Help EN -> SAP Supply Chain Management (SAP SCM) -> SAP Advanced Planning and Optimization (SAP APO) -> Production Planning and Detailed Scheduling (PP/DS) -> Planning with Characteristics -> Functions for Characteristics-Based Planning -> Transfer of In-House Orders with CDP Data to SAP ERP and Transfer of External Procurement Orders with CDP Data to SAP ERP.

1.2.3 SCM-APO-MD Master Data

1.2.3.1 SCM-APO-MD-PR Product

1.2.3.1.1 Requirements Strategy for Configurable Products (New)

Use

As of SCM 7.0, you can use a new standard requirements strategy for planning without final assembly for
configurable products. This requirements strategy 35 is assigned to the new planning segment Characteristics-Based Planning without Final Assembly.

Forecast data for variant configuration relevant products can be released to this new planning segment if the proposed requirements strategy of the location product is either 35, or it is a user-defined requirements strategy which is assigned to the planning segment Characteristics-Based Planning without Final Assembly.

**Effects on Customizing**

You can specify your own requirements strategy in Customizing for Master Data under Product -> Specify Requirements Strategies.

**See also**

Release Note Forecast Release and Consumption with Configuration (New)

1.2.4 SCM-APO-VS  

**Vehicle Scheduling**

1.2.4.1 SCM-APO-VS-INS  

**Interactive VS**

1.2.4.1.1 Splitting Stock Transport Requisitions (Enhanced)

**Use**

As of SAP SCM 7.0, you can split stock transport requisitions on the basis of split rules in Transportation Planning/Vehicle Scheduling (TP/VS).

The result of the split is a set of freight units for which you can then create shipments (either manually or by using VSR optimization).

In this process, you can make use of the TP/VS function for creating shipments for orders that have a common source location but different destination locations. These orders can be transported sequentially by the same resource in one shipment (multi-stop scenario).

After you have created the shipments, you have to convert them into TLB shipments by using the report /SAPAPO/VS_TLB_CONVERT. This report deletes the stock transport requisitions being delivered by the shipment and replaces them with new TLB shipments. The report creates one TLB shipment per freight unit and also updates the freight units. The TLB shipments are still linked to the shipments in TP/VS.

To enable you to run this report, a new pushbutton (Convert Shipments) has been added to the selection bar (shuffler) for shipments in transaction VS01. To ensure that this pushbutton is displayed in transaction VS01, you must activate the default implementation of Business Add-In (BAdI) /SAPAPO/VS_ADD_BUTTONS.
Alternatively, you can call the report on the SAP Easy Access screen by choosing Advanced Planning and Optimization -> Transportation Planning/Vehicle Scheduling -> Environment -> OLTP Interface -> Convert TP/VS Shipments into TLB Shipments.

The TLB shipments are automatically transferred via Core Interface (CIF) from SAP APO to the ERP system and the resulting stock transport orders are automatically returned to SAP APO. The TP/VS inbound controller supports the subsequent update of the TLB shipments with the stock transport orders.

You can continue with the standard transportation planning process in TP/VS (transportation service provider selection, releasing shipments, and so on). When you trigger delivery creation in the ERP system, the ERP system automatically creates one delivery for each stock transport order. As the final step, you can transfer your shipments to the ERP system.

1.2.5 SCM-APO-SNP  
Supply Network Planning (SNP)

1.2.5.1 Low-Level Code Determination (Enhanced)

Use

As of release SAP SCM 7.0, the low-level code determination process for Supply Network Planning (SNP) is enhanced by the following:

- You can run low-level code determination on a selected set of master data objects in transactions Supply Network Planning in the Background and Determine Low-Level Code.

- Low-level code determination for SNP is integrated in process chains. If you are working with a process chain, you can decide what you want the system to do if low-level code determination was not successfully finished.
In case the low-level code determination process fails, the system provides more detailed information about the reasons for failure, as well as information about the percentage of master data objects for which low-level codes have been calculated. Based on this information, you can decide whether or not to use the incomplete results by implementing BAdI method /SAPAPO/SNP_LLCC -> CHECK_RESULTS. You can use incomplete results only in process chains.

- It is possible to navigate from the application log to inconsistent master data object after the system has finished low-level code calculation.

1.2.5.2 Functions for APO Consignment Vendor-Managed Inventory (New)

**Use**

As of SAP SCM 7.0, the following new functions exist to support a consigned vendor-managed inventory scenario:

- **Consignment indicator**
  A new indicator is available on the Transport Load Builder user interface, which shows whether a consignment scenario is used for the procurement of the given TLB shipment items.

- **TLB shipment split**
  In the case of a parallel consigned and non-consigned scenario or multiple purchasing groups, a shipment split is executed during the TLB run.

- **Consignment stock in transit**
  A new key figure, Consignment Stock in Transit has been created and added to the standard planning book 9AVMI. After posting the goods issue in ERP, the new ATP category EV is assigned to the stock in the SCM inbound process. This enables you to view intransit consignment stock data, and integrate it in the planning process.
1.2.5.3 SCM-APO-SNP-BF  Basic Functions

1.2.5.3.1 Supply Network Planning (SNP) Queue Processing (Enhanced)

Use

As of release SAP SCM 7.0, master data queue processing in Supply Network Planning (SNP) has been enhanced by the following:

Performance Improvement and Background Processing
- The performance of SNP master data queue processing has been improved significantly, which leads to a shorter startup time of interactive Supply Network Planning and a runtime improvement of SNP planning reports and planning area initialization.
- To further improve the startup time of interactive Supply Network Planning, a new queue update method has been introduced that moves the queue processing into the background.

Monitoring in Computing Center Management System (CCMS)
- The monitoring of SNP master data queues is integrated into CCMS.
- You can monitor the runtime of the queue update process, the number of entries in level 1 and level 2 queues, the errors of background update processes, and the latest initialization date of planning areas for each planning version.
- You can specify that CCMS should issue alerts at certain thresholds, and also have the system notify the administrator of these alerts by email.
- You can navigate from CCMS to the relevant transactions to resolve the alerts.

Effects on Customizing

In customizing activity Maintain Global SNP Settings there are three new parameters that affect the processing of SNP master data queues:
- Queue processing method
- Maximum wait time for running queue update processes
- Setting whether the queue update should automatically update the timeseries in liveCache

For more information, see Customizing for Advanced Planning and Optimization under Supply Chain Planning -> Supply Network Planning (SNP) -> Basic Settings -> Maintain Global SNP Settings.

See also

For more information see SAP Library under SAP Supply Chain Management (SAP SCM) -> SAP Advanced Planning and Optimization (SAP APO) -> Supply Network Planning -> Master Data for Supply Network Planning -> Processing Master Data Queues in Supply Network Planning (SNP).
1.2.6 SCM-APO-SDM  Multilevel Supply & Demand Matching

1.2.6.1 SCM-APO-SDM-CTM  Capable-to-Match

1.2.6.1.1 Capable-to-Match (CTM) (Enhanced)

Use

Planning with Characteristics

Characteristics-Based Planning

As of SCM 7.0, CTM considers characteristic values of orders during planning and creates orders with corresponding characteristic values. CTM considers characteristics that are relevant for variant configuration or for characteristics-dependent planning (CDP). For this, you must fulfill the following prerequisites:

- You are planning with configurable products.
- In Customizing for Master Data under Define Configuration Schema (CDP or Variant Configuration), you set the configuration relevance or the default configuration relevance CDP or Variant Configuration.
- In the CTM profile on the tab page Strategies -> Planning Strategies, you choose the Consider Characteristics checkbox.

CTM considers characteristics with a numeric or alphanumeric data type.

Block Planning

If the products you are planning with are configured for CDP, CTM considers block definitions of resources and fixed blocks.

Forecast Data with Configuration

If the products you are planning with are configured for variant configuration, CTM considers forecast data with their configuration and creates orders with the relevant characteristic values accordingly.

Shelf-Life

As of SCM 7.0, CTM takes the following product master settings for shelf life into consideration:

- Shelf Life
- Maturation Time
- Req.Min.Sh.Life
- Req.Max.Sh.Life

PP/DS Production Data Structure (PP/DS PDS) for CTM

Parallel Operations

If you generate a PP/DS PDS for CTM from a production version that contains parallel operations in a
routing, only the longest of the parallel operations is considered in the PDS. As a result, the PDS contains a chain of linear operations. If more than one of the longest parallel operations have the same duration, the first of these operations is considered.

**Business Add-In (BAdI) /SAPAPO/CURTO_CREATE**

In the Business Add-In (BAdI) /SAPAPO/CURTO_CREATE, the method CREATE_CTM_PDS has been enhanced by the parameter EV_OPER_FINITE_RES. This parameter specifies that only the operations on finite resources are to be considered when the PP/DS PDS for CTM is generated.

Additionally, the parameter EV_TRUE of the method CREATE_CTM_PDS has been changed. If you use this parameter, the system now creates a PP/DS PDS for CTM even if the production version contains configurable products or object dependencies. In this case, a PP/DS PDS is generated for CTM, however, without the information regarding the configurable products or object dependencies.

**Object Dependencies, Variant Tables and Reference Characteristics**

CTM considers the following types of object dependencies in the PP/DS PDS for CTM:
- Selection condition
- Procedure

CTM considers the following operators for selection conditions and procedures: =, <>, AND, OR, NOT. For procedures CTM considers also the operator IF.

This is true if you assign a value to a variable in a selection condition or procedure. For example, colour = red, size > 10 AND size < 30. However, this is not true if you assign a value to value. For example, colour = colour2, size > size2 AND size < size3.

CTM also takes into consideration the following in the PP/DS PDS for CTM:
- variant tables
- reference characteristics which reference the QUANT field in the /SAPAPO/CULL_CFG_COMPONENT structure and the DURVAR field in the /SAPAPO/CULL_CFG_MODE_PRODUCE structure.

**1.2.7 SCM-APO-FCS Demand Planning**

**1.2.7.1 Forecast Release and Consumption with Configuration (New)**

**Use**

As of SCM 7.0, you can release forecast data of products with a configuration of their own from Demand Planning (DP) to Supply Network Planning (SNP). To do this, you must fulfill the following
prerequisites:
- The corresponding products are relevant for variant configuration.
- In Customizing for Master Data under Define Configuration Schema (CDP or Variant Configuration), you have set the configuration relevance or the default configuration relevance to variant configuration (VC) and selected the Release Forecast with Configuration checkbox.
- In the location-specific product master data of the corresponding products, you have specified for the products the requirements strategy 35 or a comparable user-defined requirements strategy that is assigned to the planning segment Characteristics-Based Planning without Final Assembly.
- You have assigned the products to a characteristics-based forecasting profile (CBF profile).
- You have assigned the products to a consumption group with CBF characteristics.
- In the location-specific product master data of the corresponding products, you have not selected the Assembly Planning checkbox.

See also
Release Notes Configuration Schema (Enhanced) and Requirements Strategy for Configurable Products (New)

1.2.7.2 MLR Forecasting Using POS Data (New)

Use
As of SCM 7.0, this forecasting method in Demand Planning (DP) enables you to use point of sale data (POS data) to create a short-term statistical forecast. This forecast, in contrast to other statistical forecasts, can achieve more exact results since it also considers, in addition to the deliveries in the past and the POS data, the customer’s inventory fluctuation.

You can make the relevant settings for this forecasting method in the MLR Profile.
1.2.7.3 Forecasting Enhancements (Enhanced)

Use

As of SCM 7.0, the forecasting methods in Demand Planning (DP) have been enhanced by the following functions:

- Reinitialization of forecast parameters
- Trend dampening

You can make reinitialization and trend damping settings globally for a planning area which will be applied to every univariate forecast made in this planning area. If you want to use different settings for a specific univariate forecast, you can change the settings in the corresponding univariate forecast profile.

Reinitialization

Forecasting methods based on the methods of exponential smoothing usually react very slowly to extreme structural changes in historical data. You can use reinitialization to adjust a forecast accordingly if it detects a structural interruption or a major change in trend in the historical data. For reinitialization, the forecast parameters basic value, trend value and seasonal indices are recalculated.

Trend dampening

Forecast algorithms often identify a strong upward trend and as a consequence create a very optimistic forecast for the future. To dampen the identified trend for long term forecast, you can do the following:

- Use a trend dampening profile
- Set an upper limit for the trend value
- Set an upper limit for the forecast
- Use the trend dampening factor Phi (applicable only for exponential smoothing methods)

1.2.7.4 Definition of Configuration Schema (Enhanced)

Use

As of SCM 7.0, you can define the configuration relevance for Characteristics-Dependent Planning (CDP) or variant configuration (VC) on client level or on product level. If you want to work with both configuration procedures in one client, in the Setting field, choose Configuration on Product Level, and in the Default for Config. field, choose the configuration procedure as a default that is relevant for
the characteristics you are using for your planning.

You can also define that your forecast data is to be released with a configuration of its own. Select the **Release Forecast with Configuration** checkbox, if you want to do the following:

- Release your forecast data from Demand Planning (DP) to Supply Network Planning (SNP) with a configuration of its own
- Transfer the orders with a configuration of their own back from SNP to DP.

For more information on the requirements for releasing forecast data with configuration, see the release note **Forecast Release and Consumption with Configuration**.

**Effects on Customizing**

You can make the settings as described above in Customizing for **Master Data** under Define Configuration Schema (CDP or Variant Configuration)

**1.2.7.5 SCM-APO-FCS-CFM  Customer Forecast Management**

**1.2.7.5.1 Customer Forecast Management (New)**

**Use**

In a standard vendor-managed inventory scenario, the customer regularly sends forecast data to the vendor's APO system, and this forecast serves as the basis for replenishment planning. Up to now, the forecast data has been immediately saved into **APO Demand Planning**, and it was not possible to analyze the data before making it available for the planning process.

As of SAP SCM 7.0, you can use the new component **Customer Forecast Management** (SCM-APO-FCS-CFM) to perform an analysis of the data before releasing it to **Demand Planning**.

- A new program is available for performing a forecast analysis on incoming customer forecast data. The forecast analysis can either be a background run, or can be implemented interactively by a pushbutton.
- New alert types are available for the forecast analysis run, and you can define an alert profile for a user specific alert display.
- A new forecast analysis user interface has been created with an authorization object to restrict data access to the relevant planner.
- A program is available to perform the release of customer forecast data based on the customer forecast release profile defined in customizing. You can release the data from the customer forecast management UI interactively, after checking and correcting (adjusting) the original customer forecast data.
- You can perform a waterfall analysis run on data according to predefined selection criteria, and download the results to an Excel file in a structured way.

- A new subtab is available on the Demand tab of the location product master data maintenance transaction to maintain customer forecast related settings.

Effects on Customizing

To define a forecast analysis profile and a forecast release profile, implement the IMG activity Define Profiles and Settings for Customer Forecast Management. You can also use this activity to make basic and other settings for customer forecast management, for example, compare key figures and assign these key figure comparisons to forecast analysis profiles.

By implementing the BAdI: CFM Data Release to Specified Destination, you can define a target other than Demand Planning for saving forecast data.

There is also a BAdI for specifying the conversion procedure for forecast quantities in inbound time buckets (BAdI: Processing of Single Inbound Bucket)

1.2.8 SCM-APO-SPP Service Parts Planning

1.2.8.1 Location Product Master Data for Service Parts Planning (Enhanced)

Use

Up to now, the following fields have only been available on product level. As of SAP SCM 7.0, these fields are also available on location product level and you can specify whether you want the system to use the values you specified on location product level or the values you specified on product level:

- **Product for Kit-to-Order**
  The system evaluates the value in this field for the KIT approval rule of distribution requirements planning (DRP).

- **Production Start Date**
  The system evaluates the value in this field for
  - The NEWPARTDUE approval rule of DRP
  - The selection of planning-relevant products in surplus and obsolescence planning
  - Phase-in planning

- **Retention Period**
  The system evaluates this value for the calculation of the surplus quantity with exponentially smoothed forecasting.
- **No Inventory Balancing**
  The system evaluates this value for the inventory balancing service.

- **Procure-to-Order**
  The system evaluates this value for checking the planning relevance for the destocking service in inventory planning.

### 1.2.8.2 OEM-Managed Inventory (New)

#### Use

As of SAP SCM 7.0, Service Parts Planning (SPP) contains a VMI variant, the OEM-managed inventory process.

As of SAP SCM 7.0, you, being an original equipment manufacturer (OEM) and owner of SPP, can plan the inventory of certain products for certain customers or dealers. In doing so, you can support these customers or dealers to optimize their planning and their inventory situation. The customers and dealers that you include in this process do not actively have to order service parts from you any more, but you as OEM trigger the stock transport to the customer's or dealer's location based on your planning.

The customer or dealer, whom you involve in the OEM-managed inventory process, saves his or her sales data and his or her stock data either in an SAP system or in an external system. He or she provides you with information about this data in a business-to-business (B2B) process. This B2B process is an XML-based process between business partners, which allows these business partners (especially smaller business partners, as your customers or dealers might be) to exchange XML documents.

SPP uses the sales data that you receive from your customer or dealer, to create a demand history for his or her location products. On the basis of this demand history, SPP continues the regular planning (including forecasting, inventory planning, distribution requirements planning, deployment, and so on) for the products at the customer's or dealer's location.

You can display all the planning results for products at your customer's or dealer's location on the SPP screens on which you also display the planning results of your OEM-locations.

Your customer or dealer can display the planning results that are relevant to him or her in the customer's worklist, which he or she can access using a Web browser. Additionally, he or she has the following opportunities to influence the planning:

- Agree or disagree to a stocking or destocking decision
- Approve and change stock transport orders to his or her location
  (This is optional. You do not have to allow your customer or dealer to approve and change stock transport orders, but you can also do this as part of your internal planning process.)
- Define, together with you, follow-on activities for excess stock at his or her location and execute these follow-on activities
  (This is optional. You do not have to provide the possibility to process excess stock.)

See also

For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under SAP Advanced Planning and Optimization (SAP APO) -> Service Parts Planning -> OEM-Managed Inventory.

1.2.8.3 Name of the SPP - Customer View (Internal View) Changed

Use

As of SAP SCM 7.0 the SPP - Customer View (Internal View) is called SPP - Planner View (Internal). The transaction code and the URL stay the same.

1.2.8.4 User Interfaces for Service Parts Planning (Enhanced)

Use

As of SAP SCM 7.0, there will be the following changes for user interfaces in Service Parts Planning (SPP):

- Display of the bill of distribution (BOD)
- Trigger events

Display of the BOD

As of SAP SCM 7.0, you can define a default display of the BOD for every combination of user and the following screens:

- Interactive Forecasting (/SAPAPO/SPPFCST)
You can define that a user either sees a filtered or the complete BOD by default. Nevertheless, the user can change the display of the BOD individually by using the new Show Filtered BOD or Show Complete BOD pushbutton. In the BAdI: Define Filter for BOD Display (SAPAPO/SPP_BOD_DISPLAY) Business Add-In (BAdI) that is available as of SAP SCM 7.0, you can define how the filter works and what the filtered BOD looks like. In the standard implementation of this BAdI, a filtered BOD means a BOD without non-OEM locations (that means without customer and dealer locations).

**Trigger events**

As of SAP SCM 7.0, the BAdI: Define Modifications and Enhancements for User Interfaces (SCF/UIMDL_APPCUST) BAdI contains the new method GET_EVENT. In this method, you can define events that the system triggers if a user chooses a certain pushbutton.

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### 1.2.8.5 Worklists for Service Parts Planning (New)

**Use**

As of SAP SCM 7.0, planners and customers (customers can be dealers, for example) can use worklists in Service Parts Planning (SPP). Planners and customers can use these worklists as a start page for their daily work.

A worklist consists of different queries. These queries either contain the actions required by the planner or customer or information that is useful for the planner or the customer. From some of the queries, a planner can navigate to other transactions of Service Parts Planning to gather additional information or to perform a required action. A customer, however, is not allowed to navigate to the (internal) transactions of Service Parts Planning. He or she can display the information relevant for him or her only directly in the worklist.

The worklists are based on the personal object worklist (POWL) technology of SAP NetWeaver. Selection criteria, queries, and layouts of a worklist can be changed and can be defined for each user.
There is one worklist for planners and one for customers. In the SAP standard, we deliver these worklists with the following queries:

**Note:**
You can modify, add, and delete queries to model the worklists according to your needs.

### Planner’s Worklist
- **Stocking / Destocking Approval** (category *Action Required*)
- **Stocking / Destocking** (category *Monitoring*)
- **STO Approval** (category *Action Required*)
- **STO** (category *Monitoring*)
- **Procurement Approval** (category *Action Required*)
- **Procurement** (category *Monitoring*)
- **Surplus Approval** (category *Action Required*)
- **Forecast Approval** (category *Action Required*)
- **Critical Products** (category *Monitoring*)
- **Supplier Overview of Critical Products** (category *Monitoring*)
- **Critical Sales Orders** (category *Monitoring*)
- **Alerts** (category *Based*) (category *Alerts*)
- **Alerts** (category *Product-Based*) (category *Alerts*)
- **Alerts** (category *Location-Based*) (category *Alerts*)

### Customer’s Worklist
- **Stocking / Destocking Agreement** (category *Action Required*)
- **Stocking / Destocking** (category *Monitoring*)
- **STO Approval** (category *Action Required*)
- **Excess** (category *Action Required*)
- **Supersession** (category *Monitoring*)

### See also
For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under *SAP Advanced Planning and Optimization (SAP APO)* -> *Service Parts Planning (SPP)* -> *Master*
1.2.8.6 Creating Users With SAP NetWeaver Identity Management (New)

Use

As of SAP NetWeaver 7.0 Enhancement Package 1 and SAP Service Parts Planning (SAP SPP) 7.0, you can generate users in SAP SPP automatically, using SAP NetWeaver Identity Management. The following use cases apply:

- **Creation of users and business partners for employees**
  A user administrator creates new employees in the Human Resources (HR) system. These employees work for the business partner running SAP SPP. The user creation in the HR system triggers the automatic creation of a new internal identity in the Identity Management system. A user administrator assigns a business role to this new identity. As a result, Identity Management triggers automatic user and business partner creation in SAP SPP for the employee.

- **Creation of users and business partners for external users**
  A user from an external business partner requests access to the SAP SPP system. The user administrator creates a new external identity in Identity Management for the external user. With SAP NetWeaver Identity Management, the new user of the external business partner is distributed to SAP SPP.

In all use cases, SAP NetWeaver Identity Management triggers the creation of a new user in SAP SPP as follows:

- Generation of a user in SAP SPP
- Generation of a business partner of type *Person* and with *Internet User* role, which is then assigned to the user
- Assignment of the business partner of type *Person* to a business partner of type *Organization* that represents the business partner the user belongs to

In addition, you can also change and delete users centrally with Identity Management.

Prerequisites

You can use this function only when the following applies, in addition to the standard SPP system setup:

- SAP NetWeaver Identity Management (as of release 7.1) is installed and connected to SAP SPP.
- For the use case *Creation of users and business partners for new employees*, an Employee Administration component of SAP ERP HCM (as of enhancement package 4 for SAP ERP 6.0) solution is installed.

Effects on System Administration

With the use of Identity Management, automatic creation of new users is triggered by the Identity
Management system, so there is no need to create users manually in SAP SPP. To be able to use Identity Management, you must make an initial load of all existing user IDs, roles, and business partner IDs from SAP SPP to the Identity Management system.

Effects on Customizing

To be able to use Identity Management, you must perform the following Customizing activities:

- You have defined which business partner of type Organization represents the leading business partner. The leading business partner is the customer in supplier collaboration or the supplier in customer collaboration. To do this, you use the Define Leading Business Partner for Identity Management Customizing activity.

- If there are multiple business partners of type Organization that represent the leading business partner in the system, you implement the /SCA/IDM_PARTNER_OWN Business Add-In (BAdI) with the BAdI: Determination of Leading Business Partner for Identity Management Customizing activity.

- You have mapped the form of address in Human Resources (HR) to the form of address of the business partner using the Assign HR Form of Address Key to Form of Address Keys of Business Customizing activity.

See also

For more information, see the documentation for SAP NetWeaver Identity Management.

1.2.8.7 SCM-APO-SPP-CPD Entry and Maintenance of Historical Data

1.2.8.7.1 Creation of the Demand History (Enhanced)

Use

As of SAP SCM 7.0, new functions exist for the creation of the demand history in the following areas:

- Simulation

- Realignment of the demand history in the case of calendar changes

Simulation

As of SAP SCM 7.0, you can simulate the planning services for the realignment of the demand history. Thus, you can check the planning results in a non-active version and, as a result, adjust parameters and settings if necessary.

To enable simulations of the realignment services of the demand history, there is new BI Content in the SAP SCM system.

Realignment of the demand history in the case of calendar changes

As of SAP SCM 7.0, the additional planning service SPP: Calendar Change Realignment (SPP_PDEM_CLD_RLG) for the realignment of the demand history exists. If you change, delete, or add periods in the calendar master data, this planning service scales the raw demand of the affected location products for the periods that have been changed, anew.
1.2.8.7.2 Simulations in Service Parts Planning (Enhanced)

Use

As of SAP SCM 7.0, it is possible to simulate the inventory balancing service and the planning services for the realignment of the demand history.

Simulation of the inventory balancing service

You can create and delete simulation versions for inventory balancing on the SPP Simulation (/SAPAPO/SPPSIM) screen. Additionally, you can simulate the inventory balancing service on this screen. You can display the results of the simulation on the Deployment and Inventory Balancing (/SAPAPO/SPPDEPL) screen.

Simulation of the planning services for the realignment of the demand history

You can create and delete simulation versions on the SPP Simulation (/SAPAPO/SPPSIM) screen and you can specify the InfoProviders that you want to use for the simulation on this screen. To simulate the planning services for the realignment of the demand history, however, you do not use the SPP Simulation screen, but you schedule the services in the Planning Service Manager (PSM).

For the simulation of the planning services for the realignment of the demand history, new BI Content exists in the Business Intelligence system of SAP SCM 7.0. The new BI Content objects are very similar to the already existing BI Content for the creation of the demand history. The only difference is that the new InfoSources and InfoProviders for the simulation contain the characteristic 9AVERSION. This characteristic enables you to capture raw data and to maintain the demand history specific to a version.

See also

For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under SAP Advanced Planning and Optimization (SAP APO) -> Service Parts Planning (SPP) -> Generating the Demand History -> Historical Data Maintenance -> Planning Services for Realignment of Demand History.
1.2.8.8 SCM-APO-SPP-SFC  Service Parts Forecast

1.2.8.8.1 Functions in Forecasting (Enhanced)

Use

As of SAP SCM 7.0, new functions exist for forecasting in the following areas:

- Forecast approval
- TPOP forecast

Forecast approval

Up to now, it was only possible to modify the final forecast for individual periods manually. As of SAP SCM 7.0, you can modify the final forecast for all planning periods on the basis of a formula defined by you in the Business Add-In (BAdI) BAdI: Change Final Forecast (/SAPAPO/FCST_APPR_CHG_FCST).

TPOP forecast

Up to now, you could specify in the forecasting service profile, whether you want to perform a TPOP forecast or a regular forecast. As of SAP SCM 7.0, there are separate planning services for TPOP forecasting. This means that if you want to create a TPOP forecast for your supplier, you can schedule the following new planning services in Planning Service Manager (PSM):

- SPP: Forecast Service (TPOP Selection) (SPP_FCS_SERVICE_TPOP)
- SPP: Forecast Service (StdDev. for TPOP) (SPP_FCS_SERVICE_MSE_TPOP)
- SPP: Forecast Approval Service (TPOP) (SPP_FCST_RELEASE_TPOP)
- SPP: Recalculation of FCST in Past (TPOP) (SPP_RECALC_HISTFCST_TPOP)

1.2.8.9 SCM-APO-SPP-SIP  Service Parts Inventory Planning

1.2.8.9.1 Functions for Inventory Planning (Enhanced)
Use

As of SAP SCM 7.0, new functions exist for inventory planning in the following areas:
- Stocking / destocking approval
- Historical data for stocking / destocking
- Safety stock at parent location
- EOQ period
- Target service level
- Additional safety stock

Stocking / destocking approval

Up to now, the system automatically changed the replenishment indicator of a location product according to the results of the stocking service and the destocking service. As of SAP SCM 7.0, you can decide whether you want the system to change replenishment indicators automatically or whether you want to approve replenishment indicators for which the stocking or destocking service has proposed a change. If you decide that you want to approve changes to the replenishment indicator, you can use the Stocking/Destocking Approval screen, which is newly available as of SAP SCM 7.0. On this screen, you get a lot of background information, based on which you can decide whether you want to approve the changed replenishment indicator or whether you want to change it yourself. Only when you have approved or when you have changed and approved a replenishment indicator for a location product, does the system save the new replenishment indicator and use it for further planning.

Historical data for stocking / destocking

As of SAP SCM 7.0, you can decide how many periods the system considers for the stocking decision and the destocking decision. Additionally, you can split the historical periods that the system considers in two parts and define a weighting factor for each of these two parts.

Safety stock at parent location

As of SAP SCM 7.0, the Business Add-In (BAdI) BAdI: Safety Stock Adjustment at Parent Location for Push Deployment (/SAPAPO/PINV_ADJUST_PARENT_SFT) is available. Since you do not put away goods at the parent location at push deployment but forward them straight to the relevant child location, the replenishment lead time is shortened. Therefore, you might want to adjust the safety stock, which is calculated depending on the replenishment lead time. If you want to use another logic to adjust the safety stock as implemented in the standard inventory planning process, you can use this BAdI to define an own logic or you can implement the logic that we deliver as the default implementation of the BAdI. This default logic takes a minimum and a maximum safety stock into account. The minimum safety stock is based on the lead time from the parent location to the door of the child location (or to the contract packager if a contract packager is involved). The maximum safety stock is based on the lead time from the parent location to the storage bin of the child location.

EOQ period

Up to now, you could get the EOQ period for a child location from the parent location. As of SAP SCM 7.0, the system can also take the minimum and maximum EOQ period of the child location into account when getting the EOQ period from the parent location.

Target service level
As of SAP SCM 7.0, you can define rules for the determination of the target service level on location level or on location product level in a more detailed way. Up to now, you could only specify rules for a certain location or a certain location product. As of SAP SCM 7.0, you can define rules for a location or a location product based on which level of the bill of distribution (BOD) the location is. That means you can define different rules for a location or a location product depending on whether the location is an entry location, an intermediate parent location, or a child location.

Additional safety stock

Up to now, you could specify an additional safety stock in days on location product level in location product master data. As of SAP SCM 7.0, you can also specify an additional safety stock when defining the target service level. This means that you can also specify an additional safety stock for a location product based on which level of the BOD the location is. This means you can specify the additional safety stock depending on whether the location is an entry location, an intermediate parent location, or a child location.

See also

For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under SAP Advanced Planning and Optimization (SAP APO) -> Service Parts Planning -> Inventory Planning.

1.2.8.9.2 Functions in Surplus and Obsolescence Planning (Enhanced)

Use

As of SAP SCM 7.0, new functions exist for surplus and obsolescence planning in the following areas:

- Proposal for surplus approval
- Lead times
- Additional sorting for surplus quantity disaggregation

Proposal for surplus approval

As of SAP SCM 7.0, the BAdI: Define Logic for Proposed Surplus Approval (/SAPAPO/SPP_SOR_UI) Business Add-In (BAdI) is available. In this BAdI, you can define logic according to which the system either recommends approval of a surplus quantity that needs to be manually approved or marks a surplus quantity that needs to be manually approved as critical. When your planners then access the Surplus and Obsolescence Approval screen and choose the Go pushbutton for their product selection, the system not only displays the surplus quantities that need to be manually approved, but it also sets the Approve or the Critical indicator for each surplus quantity.

Lead times

As of SAP SCM 7.0, you can choose which lead time scenario you want to use for surplus and
obsolescence planning. Additionally, surplus and obsolescence planning takes into account whether contract packagers are involved in the planning process when determining the lead time.

**Additional sorting for surplus quantity disaggregation**

As of now, you could only define a disaggregation strategy for surplus. You could define, for example, that the system sorts the locations according to their demand history quantity or their forecast quantity. As of SAP SCM 7.0, you can refine this disaggregation strategy for the surplus quantity. To refine the disaggregation strategy, you can either use the sorting methods delivered by us or you can define your own sorting method in the BAdI: Define Sorting for Surplus Disaggregation (/SAPAPO/SOR_DISAGG_SORT) BAdI that is available as of SAP SCM 7.0.

**1.2.8.10 SCM-APO-SPP-SDR Distribution Requirements Planning for Service Part**

**1.2.8.10.1 Functions in Distribution Requirements Planning (DRP) (Enhanced)**

**Use**

As of SAP SCM 7.0, new functions exist for distribution requirements planning (DRP) in the following areas:

- Repair or buy
- Reorder-point-based planning
- Supplier shutdown
- DRP horizons
- DRP Matrix
- Virtual locations for consolidated ordering
- DRP locks
- Fixed demands and fixed receipts
- Customizing of the *External Procurement - Delivery Schedule Maintenance* screen
- DRP approval rules
- Management approval
- Define latest goods receipt time of released delivery schedule lines
Repair or buy

- As of SAP SCM 7.0, you can perform the repairable returns forecast not only based on the demand forecast or on your own forecast, but also based on time series. To do so, you can define a profile for the repairable returns forecast based on time series in Customizing, in which you specify the time series that the system uses.

- Up to now, the repair-or-buy function could only plan with a one-to-one relationship of serviceable and unserviceable products. As of SAP SCM 7.0, it is also possible to specify that more than one unserviceable product is needed to restore the serviceable product. If you know, for example, that you need an average of two broken assemblies to cover the demand of one serviceable assembly, you can specify this in the bill of material of the assembly and the repair-or-buy function takes this information into account.

Reorder-point-based planning

Up to now, you could define additional demand and receipt quantities for products that you plan in the reorder-point-based planning mode in the BAdI: Determine Additional Quantities for Reorder-Point-Based Planning (/SAPAPO/ROP_ADDITIONAL_QTYS) Business Add-In (BAdI). As of SAP SCM 7.0, in this BAdI, you can distinguish between additional demand and receipt quantities for serviceable and for unserviceable products that you plan in the reorder-point-based planning mode.

Supplier shutdown

Up to now, the system did not take the lead time from the supplier to the entry location into account when planning a supplier shutdown that you have defined in the location product master data. As of SAP SCM 7.0, you can decide whether you want the system to take this lead time into account and, if yes, you can specify a profile ID for a supplier shutdown in the product specific transportation lane master data.

DRP horizons

As of SAP SCM 7.0, you can extend the freeze horizon for specific suppliers or specific products of specific suppliers. This means that if, over a period of time, you do not want the system to change delivery schedule lines or create new delivery schedule lines for this product and supplier, you can enter the end date of this time period as end date for the freeze horizon. If you have entered this end date, the system compares it with the date it has calculated as end date of the freeze horizon and chooses the later one as the actual end date for the freeze horizon.

DRP Matrix

As of SAP SCM 7.0, the DRP Matrix contains the new key figures described below:

- As of SAP SCM 7.0, the BAdI: Determine Additional Quantities for Period-Based Planning (/SAPAPO/PB_ADDITIONAL_QTYS) BAdI is available. In this BAdI, you can define additional quantities for serviceable and unserviceable products that the system plans period-based and that DRP is to take into account. If you define additional quantities in this BAdI, the system displays these additional quantities in the following new key figures of the DRP matrix:
  - Additional Demand (BAdI)
  - Additional Receipt (BAdI)
  - Additional Unserviceable Demand (BAdI)
  - Additional Unserviceable Receipt (BAdI)
As of SAP SCM 7.0, you can perform inventory balancing with unserviceable products. The system displays the results of this new process in the following new key figures of the DRP matrix:

- **Unserviceable Products Demand (STO)**
- **Unserviceable Products Receipt (STO)**
- **Unserviceable in Transit Stock (STO)**

As of SAP SCM 7.0, the following key figures are re-named:

<table>
<thead>
<tr>
<th>Name up to now</th>
<th>Name as of SAP SCM 7.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dependent Demand from Repairs</td>
<td>Dependent Demands</td>
</tr>
<tr>
<td>Serviceable Products Rcpt (Rep., Frozen)</td>
<td>Products Rcpt (Kit-to-Stk./Repair, Froz)</td>
</tr>
<tr>
<td>Serviceable Products Rcpt (Rep., Not Froz.)</td>
<td>Products Rcpt (Kit-to-Stk./Rep, Not Froz)</td>
</tr>
</tbody>
</table>

**Virtual locations for consolidated ordering**

Up to now, virtual locations for consolidated ordering could only consist of child locations. As of SAP SCM 7.0, you can also define virtual locations for consolidated ordering that consist of entry locations. Additionally, as of SAP SCM 7.0, the **BAdI: Determination of Preferred Location of a VLCO (/SAPAPO/SPP_VCOL_LEADING_LOC)** BAdI is available. In this BAdI you can define your own logic for how the system determines the preferred location of virtual locations for consolidated ordering that consist of child locations and of virtual locations for consolidated ordering that consist of entry locations.

**DRP locks**

Up to now, you could only define a lock period during which DRP did not take a certain location product into account in the planning. As of SAP SCM 7.0, you can also define reasons for DRP locks and assign these reasons to a lock period.

**Fixed demands and fixed receipts**

As of SAP SCM 7.0, on the **Fixed Demands and Fixed Receipts** screen, the system displays the users who have created and last changed a fixed demand or fixed receipt. Additionally, the system displays the date and time a fixed demand or a fixed receipt was created and last changed.

**Customizing of the External Procurement - Delivery Schedule Maintenance screen**

As of SAP SCM 7.0, the **BAdI: Customizing of "External Procurement - Delivery Maintenance" Screen (/SAPAPO/SPPDRPSB_CUST)** BAdI is available. In this BAdI, you can modify the Customizing settings for the **External Procurement - Delivery Schedule Maintenance** screen for each user.

**DRP approval rules**

As of SAP SCM 7.0, there is a new DRP approval rule that checks if a purchase order schedule line or a scheduling agreement release that DRP has planned, falls within a supplier shutdown. If this is the case, the system creates an alert of type 7891.

**Management approval**

As of SAP SCM 7.0, you can change the limit values for the DRP management approval in the productive system. Up to now, these limit values could only be defined and modified in Customizing. As of SAP
SCM 7.0, you can define these limit values in the *Define Management Approval* screen, which you can access on the *SAP Easy Access* screen.

**Define latest goods receipt time of released delivery schedule lines**

As of SAP SCM 7.0, the *BAdI: Definition of the Latest GR Time of Released Delivery Schedule Lines* (/SAPAPO/ORDER_SNAPSHOT) BAdI is available. In this BAdI, you can define the latest goods receipt time of released scheduling agreement delivery schedule lines (SASLs). You have to specify this point in time, for example, to define the release creation horizon if you do not release every SASL individually, but aggregate the SASLs that are to be released. Only then, a snapshot of the delivery schedule can be accurately and correctly created.

1.2.8.10.2 Kit to Stock in Distribution Requirements Planning (DRP) (New)

**Use**

As of SAP SCM 7.0, the kit-to-stock function is available in distribution requirements planning (DRP). Up to now, you could only plan the procurement of individual products. As of SAP SCM 7.0, you can also plan the procurement and creation of kits. A kit is a service part that is created out of several other service parts. You define the service parts a kit consists of in a bill of material for the kit in SAP ERP. In SAP SCM, you can decide for each combination of kit and location, whether you want to perform the kitting internally at your BOD location or externally at a subcontractor. When DRP determines demand for a kit, it reads the bill of material of the kit to determine and cover the dependent demands as well.

DRP also takes periods into account in which kit to stock is not possible for certain kits at certain locations. You can decide whether you allow external procurement of the kits during these periods.

**See also**

For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under *SAP Advanced Planning and Optimization (SAP APO)* -> *Service Parts Planning* -> *Distribution Requirements Planning (DRP)* -> *Kit to Stock.*
1.2.8.11 SCM-APO-SPP-SDE  Service Parts Deployment

1.2.8.11.1 Functions in Inventory Balancing (Enhanced)

Use

As of SAP SCM 7.0, new functions exist for inventory balancing in the following areas:

- Inventory balancing with unserviceable products
- Simulation of the inventory balancing service
- Stock in stock transport orders and intransit stock
- Manual confirmation of stock transport requisitions
- Use of pull deployment as an alternative to inventory balancing

Inventory balancing with unserviceable products

As of SAP SCM 7.0, there is a new planning service that performs inventory balancing with unserviceable products. If you are using the repair or buy function, customers might send unserviceable products to different locations of your bill of distribution (BOD) to have them repaired. Therefore, there can be excess stock at some locations (at which you possibly do not even repair products) and shortages at locations at which you repair unserviceable products. To balance these excesses and shortages, you can use the new planning service. You can schedule the planning service regularly in planning service manager (PSM); additionally, the planning service is triggered by distribution requirements planning (DRP) if there are not enough unserviceable products for the repair or buy process at a location.

Simulation of the inventory balancing service

As of SAP SCM 7.0, you can simulate the inventory balancing service to check your planning results and adjust parameters and settings if necessary.

Stock in stock transport orders and intransit stock

Up to now, inventory balancing only took stock in stock transport orders (STOs) and intransit stock into account if the STOs and the intransit stock were inside the shortage horizon. As of SAP SCM 7.0, you can specify that inventory balancing also takes stock from STOs and intransit stock into account that is outside the shortage horizon.

This makes sense, for example, if the inventory balancing service has created an STO to cover a shortage, but the STO is not inside the shortage horizon. Up to now, inventory balancing did not consider the stock in this STO in the next planning run and might have created another STO to cover the same shortage. That might lead to an excess at the location that originally had a shortage. As of SAP SCM 7.0, you can define that inventory balancing takes stock from all STOs and all intransit stock into account. Then, inventory balancing does not create a second STO to cover the same shortage.

Manual confirmation of stock transport requisitions

Up to now, you could either decide to manually confirm all stock transport requisitions that have been created by the inventory balancing service or none. As of SAP SCM 7.0, you do not have to globally make this decision any more but you can specify whether you want to confirm stock transport requisitions in the inventory balancing service profile. As you can define more than one inventory balancing service profile and include these service profiles in different planning profiles together with different selections,
you can, for example, decide for each product, whether you want to manually confirm stock transport requisitions.

**Use of pull deployment as an alternative to inventory balancing**

As of SAP SCM 7.0, the **BAdI: Define if Pull Deployment is a Valid Alternative to Inv. Balancing** (/SAPAPO/SPP_REDEPL_CHK_PULLDEP) Business Add-In (BAdI) is available. You can use this BAdI to check if pull deployment is a valid alternative to inventory balancing. The system calls this BAdI if there is a shortage at a location. Then, it decides if pull deployment from the parent is a valid alternative to inventory balancing.

**See also**

For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under SAP Advanced Planning and Optimization (SAP APO) -> Service Parts Planning (SPP) -> Inventory Balancing and Simulation in Service Parts Planning.

**1.2.8.11.2 Multi-Level Priority Tier Processing in Deployment (New)**

**Use**

Up to now, you could only use two-level priority tier processing in deployment. In two-level tier processing, deployment only took a location and its direct child locations into account when covering demands according to priority tiers. Demands of other locations below the child location were all considered to be in the same priority tier.

As of SAP SCM 7.0, you can also use multi-level priority tier processing in deployment. Multi-level priority tier processing considers the demands of all locations of the BOD that are in the appropriate priority tiers. When you use multi-level priority tier processing, deployment rolls up demands of the lower levels of the BOD to the second level of the BOD in a recursive algorithm to provide visibility of the demands that are assigned to a priority tier with high priority of the whole BOD. Thus, multi-level priority tier processing covers demands to which you have assigned high priority at lower levels of the BOD before it covers demands to which you have assigned a lower priority at higher levels of the BOD.

**See also**

For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under SAP Advanced Planning and Optimization (SAP APO) -> Service Parts Planning (SPP) -> Deployment -> Planning Demand Fulfillment According to Priority Tiers -> Planning Demand Fulfillment According to Multi-Level Tier Processing.
1.2.8.11.3 Functions in Deployment (Enhanced)

Use

As of SAP SCM 7.0, new functions exist for deployment in the following areas:
- Express shipment
- Stock in stock transport orders and intransit stock
- Determination of the time-related supply limit (TSL)
- Deployment locks

Express shipment

As of SAP SCM 7.0, you can define your own logic that the system uses to make an express shipment decision. You can define this own logic in the BAdI: Define Limits for Express Shipments (/SAPAPO/DEPL_EXPED_SHIP_LIMITS) Business Add-In (BAdI). The default implementation of this BAdI contains the logic that has been used up to now and that is still used unless you define another logic.

Stock in stock transport orders and intransit stock

Up to now, deployment only took stock in stock transport orders (STOs) and intransit stock into account if the STOs and the intransit stock were inside the lead time. As of SAP SCM 7.0, you can specify that deployment also takes stock from STOs and intransit stock into account that is outside the lead time.

This makes sense, for example, if the inventory balancing service has created an STO that is not inside the lead time to cover a shortage at a location. Up to now, deployment did not consider the stock in this STO and might have created another STO to cover the same demand. That might lead to an excess at the location in question. As of SAP SCM 7.0, you can define that deployment takes stock from all STOs and all intransit stock into account. Then, deployment also takes the STO created by the inventory balancing service into account, does not determine a demand, and thus does not create another STO.

Determination of the time-related supply limit (TSL)

As of SAP SCM 7.0, the BAdI: Determination of Parameters for the Time-Related Supply Limit (/SAPAPO/DEPL_TSL_PARAMETERS) BAdI is available. In this BAdI, you can define your own logic for how the system determines the parameters Maximum Gross Demand for TSL and Additional Gross Demand for TSL, on the basis of which deployment calculates the TSL.

Deployment locks

Up to now, you could only define a lock period during which you had to confirm stock transport orders manually. As of SAP SCM 7.0, you can also define reasons for deployment locks and assign these reasons to a lock period.

See also
For more information, see SAP Library of SAP Supply Chain Management (SAP SCM) under *SAP Advanced Planning and Optimization (SAP APO)* -> *Service Parts Planning (SPP)* -> Deployment.

### 1.2.8.12 SCM-APO-SPP-PWL Worklist

#### 1.2.8.12.1 Roles for Service Parts Planning (Enhanced)

**Use**

As of SAP SCM 7.0, the following new roles are available:

- **Service Parts Planner (Worklist)** (SAP_SCM_SPP_WORKLIST)
  
  With this role, you can access the worklist of a planner for Service Parts Planning (SPP). From this worklist, a planner can navigate to all transactions that he or she needs to complete his or her worklist.

- **Service Parts Customer (Worklist)** (SAP_SCM_SPP_WORKLIST)
  
  With this role, your customers or dealers can access his or her worklist to display, change and confirm data that is relevant to him or her.

As of SAP SCM 7.0, the following roles have been renamed:

<table>
<thead>
<tr>
<th>Old name</th>
<th>New name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Parts Monitoring (Customer)</td>
<td>Service Parts Monitoring (Planner)</td>
</tr>
<tr>
<td>Service Parts Monitoring (Customer): Administration and Master Data</td>
<td>Service Parts Monitoring (Planner): Administration and Master Data</td>
</tr>
<tr>
<td>Service Parts Monitoring (Customer): Expert</td>
<td>Service Parts Monitoring (Planner): Expert</td>
</tr>
</tbody>
</table>

**See also**

For more information, see SAP Library for SAP Supply Chain Management (SAP SCM) under *SAP Advanced Planning and Optimization (SAP APO)* -> *Roles for SAP APO* -> *Roles for Service Parts Planning (SPP)*.

### 1.2.8.13 SCM-APO-SPP-SFA Service Fill Analysis

#### 1.2.8.13.1 Functions in Reporting and Monitoring (Enhanced)
Use

As of SAP SCM 7.0, new functions exist for monitoring Service Parts Planning (SPP) in the following areas:

- Overdue documents
- ATP categories for the service fill monitor
- Service loss reason
- Supplier delivery performance rating

Overdue documents

As of SAP SCM 7.0, the planning service SPP_REP_DUE7 is available. This planning service determines if the following document types contain overdue schedule lines:

- Purchase orders
- TPOP purchase orders
- Scheduling agreement releases
- Subcontract orders
- Refurbishment orders
- Production orders
- Stock transport orders

You can specify if you want the system to check all these document types or only some of them. Additionally, you can specify the number of days after which a certain document is considered as overdue and, in the BAdI: Define System Behavior if Orders/Schedule Lines are Overdue (/SCMB/SPLREP_PROCESS_OVERDUE) Business Add-In, you can define the system behavior in case of overdue documents. In the standard implementation of the BAdI, the system creates an alert and requests a supplier confirmation if it determines a purchase order (standard purchase order, TPOP purchase order, or subcontracting purchase order) or a scheduling agreement release as overdue.

ATP categories for the service fill monitor

Up to now, the service fill monitor took only sales orders (ATP category BM) and deliveries (ATP category BR) into account. As of SAP SCM 7.0, you can specify which ATP categories meaning which requirements (customer orders, for example) and which fulfillment of these requirements (goods receipts, for example) you want the service fill monitor to take into account.

Service loss reasons and service loss categories

As of SAP SCM 7.0, the service loss reason Supplier Overdue is called Overdue Orders and Schedule Lines.

As of SAP SCM 7.0, you can define the order in which the system processes the overdue orders and schedule lines for this service loss reason and you can specify if the system groups these overdue orders and schedule lines into sub-reasons.

Although the service loss reason is enhanced, the Overview Service Loss due to Supplier Late / Overdue (0SPL_C33_Q0001) query and the Service Loss Due to Supplier Late / Overdue (0SPL_DS39_Q0001) query are still available and show the same results that they have shown up to
now. However, as of SAP SCM 7.0, the following new queries are available for the enhanced service loss reason:

- **Overview Service Loss Due to Overdue Orders or Overdue Schedule Lines** (OSPL_C33_Q0002)
- **Service Loss Due to Overdue Orders or Overdue Schedule Lines** (OSPL_DS39_Q0002)

**Supplier delivery performance rating**

As of SAP SCM 7.0, supplier delivery performance rating (SDPR) also considers subcontracting purchase orders when it rates the performance of your suppliers. In the respective objects of the Business Intelligence system, the system now differentiates between standard orders, TPOP orders, and subcontracting purchase orders.

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**1.2.8.14 SCM-APO-SPP-INB Inbound Delivery Monitor**

**1.2.8.14.1 Functions in Reporting and Monitoring (Enhanced)**

**Use**

As of SAP SCM 7.0, new functions exist for monitoring Service Parts Planning (SPP) in the following areas:

- Overdue documents
- ATP categories for the service fill monitor
- Service loss reason
- Supplier delivery performance rating

**Overdue documents**

As of SAP SCM 7.0, the planning service SPP_REP_DUE7 is available. This planning service determines if the following document types contain overdue schedule lines:

- Purchase orders
- TPOP purchase orders
- Scheduling agreement releases
- Subcontract orders
- Refurbishment orders
- Production orders
- Stock transport orders

You can specify if you want the system to check all these document types or only some of them. Additionally, you can specify the number of days after which a certain document is considered as overdue and, in the BAdI: Define System Behavior if Orders/Schedule Lines are Overdue (/SCMB/SPLREP_PROCESS_OVERDUE) Business Add-In, you can define the system behavior in case of overdue documents. In the standard implementation of the BAdI, the system creates an alert and requests a supplier confirmation if it determines a purchase order (standard purchase order, TPOP purchase order, or subcontracting purchase order) or a scheduling agreement release as overdue.

**ATP categories for the service fill monitor**

Up to now, the service fill monitor took only sales orders (ATP category BM) and deliveries (ATP category BR) into account. As of SAP SCM 7.0, you can specify which ATP categories meaning which requirements (customer orders, for example) and which fulfillment of these requirements (goods receipts, for example) you want the service fill monitor to take into account.

**Service loss reasons and service loss categories**

As of SAP SCM 7.0, the service loss reason Supplier Overdue is called Overdue Orders and Schedule Lines.

As of SAP SCM 7.0, you can define the order in which the system processes the overdue orders and schedule lines for this service loss reason and you can specify if the system groups these overdue orders and schedule lines into sub-reasons.

Although the service loss reason is enhanced, the Overview Service Loss due to Supplier Late / Overdue (0SPL_C33_Q0001) query and the Service Loss Due to Supplier Late / Overdue (0SPL_DS39_Q0001) query are still available and show the same results that they have shown up to now. However, as of SAP SCM 7.0, the following new queries are available for the enhanced service loss reason:

- **Overview Service Loss Due to Overdue Orders or Overdue Schedule Lines** (0SPL_C33_Q0002)
- **Service Loss Due to Overdue Orders or Overdue Schedule Lines** (0SPL_DS39_Q0002)

**Supplier delivery performance rating**

As of SAP SCM 7.0, supplier delivery performance rating (SDPR) also considers subcontracting purchase orders when it rates the performance of your suppliers. In the respective objects of the Business Intelligence system, the system now differentiates between standard orders, TPOP orders, and subcontracting purchase orders.
1.2.8.15 SCM-APO-SPP-SHA  Shortage Analysis

1.2.8.15.1 Functions in the Alert Monitor (Enhanced)

**Use**

As of SAP SCM 7.0, new functions exist for the Alert Monitor in the following areas:

- Statistical view
- Display of tab pages
- Alert types

**Statistical view**

As of SAP SCM 7.0, the statistical view of the alert monitor will be updated when an alert is deleted or confirmed and when one or more alert parameters change.

**Display of tab pages**

As of SAP SCM 7.0, only these tab pages are displayed on the Alert Monitor screen that are relevant for the selected alerts.

**Alert types**

As of SAP SCM 7.0, the following new alert types that are relevant for Service Parts Planning (SPP) will be available:

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Description</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>7891</td>
<td>Order Created During Supplier Shutdown</td>
<td>DRP Approval Rule</td>
</tr>
<tr>
<td>7892</td>
<td>Assignment of Calendar for Scaling to Location Changed</td>
<td>Hist. Data</td>
</tr>
<tr>
<td>7893</td>
<td>Header Data of Calendar for Scaling Changed</td>
<td>Hist. Data Maint.</td>
</tr>
<tr>
<td>7894</td>
<td>Calculation Rule of Calendar for Scaling Changed</td>
<td>Hist. Data Maint.</td>
</tr>
<tr>
<td>7897 Inventor Planning</td>
<td>Net Demand During Freeze Horizon for ROB / Kit to Stock DRP</td>
<td>DRP</td>
</tr>
<tr>
<td>81</td>
<td>PSM Service Failed During Execution</td>
<td>Planning Service Manager</td>
</tr>
<tr>
<td>82</td>
<td>PSM Finished with Errors</td>
<td>Planning Service Manager</td>
</tr>
</tbody>
</table>
1.2.8.15.2 Functions in Reporting and Monitoring (Enhanced)

Use

As of SAP SCM 7.0, new functions exist for monitoring Service Parts Planning (SPP) in the following areas:

- Overdue documents
- ATP categories for the service fill monitor
- Service loss reason
- Supplier delivery performance rating

Overdue documents

As of SAP SCM 7.0, the planning service SPP_REP_DUE7 is available. This planning service determines if the following document types contain overdue schedule lines:

- Purchase orders
- TPOP purchase orders
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You can specify if you want the system to check all these document types or only some of them. Additionally, you can specify the number of days after which a certain document is considered as overdue and, in the BAdI: Define System Behavior if Orders/Schedule Lines are Overdue (/SCMB/SPLREP_PROCESS_OVERDUE) Business Add-In, you can define the system behavior in case of overdue documents. In the standard implementation of the BAdI, the system creates an alert and requests a supplier confirmation if it determines a purchase order (standard purchase order, TPOP purchase order, or subcontracting purchase order) or a scheduling agreement release as overdue.

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for example) you want the service fill monitor to take into account.

**Service loss reasons and service loss categories**

As of SAP SCM 7.0, the service loss reason *Supplier Overdue* is called *Overdue Orders and Schedule Lines*.

As of SAP SCM 7.0, you can define the order in which the system processes the overdue orders and schedule lines for this service loss reason and you can specify if the system groups these overdue orders and schedule lines into sub-reasons.

Although the service loss reason is enhanced, the *Overview Service Loss due to Supplier Late / Overdue* (0SPL_C33_Q0001) query and the *Service Loss Due to Supplier Late / Overdue* (0SPL_DS39_Q0001) query are still available and show the same results that they have shown up to now. However, as of SAP SCM 7.0, the following new queries are available for the enhanced service loss reason:

- *Overview Service Loss Due to Overdue Orders or Overdue Schedule Lines* (0SPL_C33_Q0002)
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**Supplier delivery performance rating**

As of SAP SCM 7.0, supplier delivery performance rating (SDPR) also considers subcontracting purchase orders when it rates the performance of your suppliers. In the respective objects of the Business Intelligence system, the system now differentiates between standard orders, TPOP orders, and subcontracting purchase orders.

### 1.2.8.15.3 Functions in Shortage Analysis

**Use**

As of SAP SCM 7.0, new functions exist for the shortage analysis in the following areas:

- *SPP Cockpit*
- *Product Detail*
- *Shortage Overview, Shortage Monitor*, and *Supplier Overview*
- **Sales Order View** on the **Shortage Monitor** screen

**SPP Cockpit**

As of SAP SCM 7.0, the **SPP Cockpit** displays the following additional information:

- Replenishment indicator of the location product
- Information about the quantities and overdue quantities of unserviceable products, repaired products, and products that are part of the kit to stock process.

**Product Detail**

As of SAP SCM 7.0, the **Product Detail** screen contains several new fields and displays additional information, mainly about unserviceable products and kits.

- **Overview** tab page
  - As of SAP SCM 7.0, this tab page is structured into content areas (**Product**, **Location Product**, and **Forecast/Demand**, for example).
  - As of SAP SCM 7.0, this tab page contains information about forecasted values and demands as well as information about delivery schedules.
  - As of SAP SCM 7.0, this tab page also contains information about unserviceable products.

- **Product** tab page
  - As of SAP SCM 7.0, this tab page is structured into content areas.
  - As of SAP SCM 7.0, this tab page contains information about the SPP planners that are assigned to the product.
  - As of SAP SCM 7.0, this tab page contains information about alternative product numbers and product groups.
  - As of SAP SCM 7.0, this tab page contains information about the repair and return time for unserviceable products, for example the initial warehouse stock of unserviceable products and the intransit stock of unserviceable products.

- **External Procurement** tab page
  As of SAP SCM 7.0, this tab page contains information about whether an external procurement relationship is a subcontracting relationship.

- **EP Schedule** tab page
  - As of SAP SCM 7.0, this tab page contains information about whether an external procurement relationship is a subcontracting relationship.
  - As of SAP SCM 7.0, this tab page contains information about refurbishment orders and production orders.

- **Stock Transport Order** tab page
  As of SAP SCM 7.0, this tab page contains information about whether a stock transport order has been created for unserviceable products and whether a stock transport order is from an OEM location to a non-OEM location.

- **Fixed Demand** tab page
  As of SAP SCM 7.0, this tab page contains administrative information like who has created or changed a fixed demand.
- **Forecast and Inv. Planning** tab page
  As of SAP SCM 7.0, if you select a virtual child location, this tab contains information about the reorder point and the maximum stock level of the virtual child location.

- **Supersession** tab page
  As of SAP SCM 7.0, this tab page contains information about serviceable and unserviceable stock as well as about open quantities.

- **Stock** tab page
  As of SAP SCM 7.0, this tab page contains information about
  - Stock at the contract packager
  - Unsuitable and repaired stock
  - Kits
  - Excess stock

**Shortage Overview, Shortage Monitor, and Supplier Overview**

As of SAP SCM 7.0, the **Shortage Overview** screen, the **Shortage Monitor** screen, and the **Supplier Overview** screen display information about overdue quantities and order items of products that are part of the (internal or external) repair and kit to stock process.

**Sales Order View on the Shortage Monitor screen**

As of SAP SCM 7.0, you can decide whether you want to display the **Location Product View** and the **Sales Order View** on the **Shortage Monitor** screen or whether you want to display only the **Location Product View**. If you decide not to display the **Sales Order View**, the system does not display the selection criteria that are sales-order-specific either.

Additionally, as of SAP SCM 7.0, the **BAdI: Define Logic for Shortage Analysis** /SAPAPO/SPP_SHORTAGE_ANALYSIS Business Add-In (BAdI) contains the new method **HIDE_SALES_ORDER_VIEW**. In this method, you can define that certain users or business partners (suppliers, for example) cannot display the sales order view of the shortage analysis.

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**1.2.9 SCM-APO-PPS** Production Planning and Detailed Scheduling

**1.2.9.1 Order Scheduling for Block Changes (Enhanced)**

**Use**

As of SAP Supply Chain Management (SAP SCM) 7.0, you can execute automatic rescheduling of the orders in a block that you modify. Such an automatic rescheduling of orders is necessary to retain the link...
between the block and its orders where possible.

Order rescheduling is available for the Enhanced Block Maintenance heuristic (SAP_CDPBP_03) in cases where a block is shortened, lengthened, deleted, or moved.

**Lengthened Block**

If a block is lengthened using the Enhanced Block Maintenance heuristic, this function automatically reschedules its orders. It also reschedules the subsequent blocks and their orders.

The scheduled orders of the subsequent blocks are rescheduled to their original blocks.

**Shortened Block**

If a block is shortened using the Enhanced Block Maintenance heuristic, the function automatically reschedules subsequent blocks and their orders as well. You must choose from one of the following three options:

- Deallocate the non-fitting orders from the block
- Schedule the non-fitting orders infinitely within the block
- Schedule the non-fitting orders into another block according to the settings in the strategy profile

**Deleted Block**

If a block is deleted using the Enhanced Block Maintenance heuristic, the function reschedules the subsequent blocks as well.

The scheduled orders of the subsequent blocks are rescheduled to their original blocks. The dates of the orders in relation to the block limits remain the same as before the block deletion.

**Moved Block**

Moving blocks involves assigning the block a later end date. You cannot change the start date or other parameters.

In effect, when you move a block using the Enhanced Block Maintenance heuristic, the function overwrites any blocks scheduled until and including the new end date.

**Effects on Customizing**

You must set the Enhanced Block Maintenance heuristic to enable automatic order rescheduling to block changes. Choose SAP - Implementation Guide -> Advanced Planning and Optimization -> Supply Chain Planning -> Production Planning and Detailed Scheduling (PP/DS) -> Heuristics -> Maintain Heuristics -> SAP_CDPBP_03 (Enhanced Block Maintenance) -> Details and select the Enable Rescheduling indicator. Alternately, from the Detailed Scheduling Planning Board, choose Settings -> Heuristics -> SAP_CDPBP_03 Enhanced Block Maintenance, and select the Enable Rescheduling indicator.
1.2.9.2 PP/DS Enhancements for the Process Industry

Use

As of SAP Supply Chain Management (SAP SCM) 7.0, production planning for the process industry includes new master data and optimization functions.

You can now precisely model the production restrictions for consecutive operations in a simple manner. With the new resource networks, you define the permitted links between resources in a plant. In doing so, you define the actual production flow between the individual resources. This forms the basis for the creation of a feasible production plan.

When the material flow is defined in the recipe within the SAP ERP system and transferred to SAP APO, this data is created as a product storage definition in SAP APO. Using these you can assign multiple container resources to a product belonging to a production source of supply, such as PPM or PDS.

In planning with container resources, it is now possible to take the maximum volume of a container resource into account. The system was previously unable to take account of this restriction in the planning.

This new container planning is based on optimization. The optimization function has therefore been enhanced such that it can now process all requirements, sourcing alternatives, resource networks, and product storage definitions of the products to be planned. Optimization creates a feasible production plan on the basis of this data and creates new orders or changes existing orders for it.

Master Data

The following master data has been enhanced:

- **Product Master**

In the Product Master, the following new fields are available on the *Demand* tab screen under *Pegging*:

*Resource Network Name*: In this field, you specify the resource network with which the product can be manufactured.

*Resource Network Strategy*: In this field, you specify whether pegging must take account of the assigned resource network.

- **Resource**

Resources have been enhanced so that you can now also maintain storage characteristics for single-activity resources. Previously this was only possible for multiactivity resources.

The *Allow Multiple Products* checkbox has also been added to the tab screen for storage characteristics.

- **Resource Network**

The master data in PP/DS has been enhanced by the addition of resource networks; you can create, change, display, or delete these. To access resource networks, in the *SAP Easy Access* menu, choose *Advanced Planning and Optimization -> Master Data -> Resource -> Resource Network*. Alternately, use the /SAPAPO/RESNET transaction directly.

A new BAdI for resource networks, /SAPAPO/BADI_RESNET, has also been introduced. You can use this BAdI to implement customer-specific changes for resource networks.
- **Product Storage Definition**

With the product storage definition, you can assign the source of supply of a product to components and container resources. It is possible to assign several alternative resources. You can create the product storage definition manually or have this done automatically at the time of the CIF transfer of the PPM or PDS data.

To access product storage definitions, in the *SAP Easy Access* menu, choose **Advanced Planning and Optimization -> Master Data -> Product Storage Definition -> Product Storage Definition**. Alternately, use the transaction /SAPAPO/STORDEF.

You could earlier transfer the data for the product flow created in SAP ERP to SAP APO only if using PPM. As of SCM 7.0, you can now also transfer the product flow data to SAP APO if you work with PDS.

A new BAdI for product storage definition, /SAPAPO/BADI_PSD_DEFS, has also been introduced. This BAdI enables you to change the product storage definition if required.

**Optimization**

- **Optimization Profile**

The *Resource Processing* tab screen has been enhanced by the addition of the following fields:

- Consider Resource Networks
- Lowest Resource Network Priority
- Consider Storage Properties
- Finiteness Level

In addition, the *Order Creation* tab screen has been added. Here you specify whether optimization must create new orders for certain location products. The following options are available:

- No order creation: Optimization only reschedules existing orders.
- Automatic location product selection: Order creation is active. All location products that can be produced on the selected resources are selected for order creation.
- Location product selection profile: Order creation is active. The location products for order creation are defined by the given selection profile.

- **New Optimization Functions**

The optimization process has been enhanced by the addition of the following new functions:

- **Container Planning**
  You can now also use optimization to carry out container planning. You set up container planning in the Consider Storage Properties field in the optimization profile. Optimization can take the following settings from the resource into account:
  - Maximum Stock Level
  - Set Remaining Fill Level to Zero
  - Allow Multiple Products
  For more information on restrictions, see SAP Note 1171154.

- **Optimization with Resource Networks**
  Resource networks are considered by the optimization process. You can use the Consider
Resource Networks field in the optimization profile to specify whether resource networks must be taken into account within an order or between orders, or in both cases.

**Restriction:**
The *Self-Reference* indicator in the resource network master data is not considered by the optimization process. Since this indicator is always set for optimization, the sequence of operations on the same resource is always allowed.

- **Order Creation**
  Optimization can now create new orders and adjust or delete existing ones. You make the settings for these functions on the *Order Creation* tab screen in the optimization profile. For more information on restrictions, see SAP Note 1155421.

**Effects on System Administration**

**Dependencies and Restrictions in Optimization**

- The current functionality is designed for buffer processes between different production stages as well as simple mixing scenarios. The functionality in the optimizer cannot be used for reactor processes or chemical conversions (reactions) in container resources.

- Master data attributes of container resources, such as minimum fill level or replenishment level, are not considered.

- Each order should use any container resource only once. Each violation of this rule can result in violations of the maximum fill level.

- Deallocation of late operations is not compatible with container resource planning as the deallocated operations can cause missing amounts in the storage balance. Such a deallocation is automatically disabled if you activate the container resource planning. Deallocation on the right horizon and due to validity periods is still possible, but with resulting storage violations in the last postprocessing step, when operations are shifted backward and deallocated.

- Dependencies between orders: Any dependencies between orders besides pegging have a big impact on the container planning in performance and quality of the solution. Shelf life and maximum earliness are automatically disabled during the optimization run. You must avoid any external constraints, fixing of sequences, or prioritizations in your storage scenarios.

- The decomposition is automatically deactivated if you activate the planning of storages.

- Lot sizes: Lot sizes that are too large cause infeasibilities in the container planning. The optimizer tries to reduce such infeasibilities. To achieve good planning quality, the lot sizes should match with the storage capacities. One possible solution for this is the creation of orders with the optimizer.

- Campaign planning: Container planning cannot be combined with campaign optimization on bottleneck resources. If there are already existing campaigns that should be considered together with storage constraints, the optimizer tries to achieve the uninterruptedness of campaigns but cannot guarantee it. Interruption of campaigns is not reported during optimization.
Selection of resources and horizons: If you plan a container resource, the optimizer must have the orders that produce into storage and orders that consume from storage inside the optimization problem. No other valid solution is possible.

Continuous material flow is not supported in connection with container resource planning. All continuous material flows affecting container resources are handled as discrete for optimization.

Time-dependent storage definitions or time-dependent storage usage parts of PPMs are not supported.

For detailed information and additional restrictions, see SAP Note 1171154.

1.2.9.3 SCM-APO-PPS-PPT Product Planning Table

1.2.9.3.1 PPT: Cross-location Planning Chart and Other Enhancements (Enhanced)

Use

As of SAP Supply Chain Management (SAP SCM) 7.0, the Product Planning Table (PPT) has been enhanced to include cross-location planning and to improve the capabilities of characteristics handling. Various other enhancements have also been made to improve general usability and functioning in the work area.

Constraints

The following charts cannot be loaded multiple times:

- Product view (Single elements)
- Pegging Overview
- Product view (Quantity Graphic)

When the filter criteria consist of multiple values or ranges, only the output nodes are filtered. Input nodes such as stock transport orders are not filtered. This limitation is due to the design of the underlying liveCache function /SAPAPO/OM_PEGID_GET_IO. The same behavior is seen when you use Select via Characts in the /SAPAPO/RRP3 transaction.

The above limitation is not applicable to VC orders. In case of VC, only iPPE orders can be filtered. This is due to the design of the underlying function module MMRP_ORDER_FILTER.

The following features have not been included in this release:

- A separate transaction to access the Cross-location view: Periodic chart
- Capability to define additional rows using a BAdI (analogous to /SAPAPO/PPT_INFROW)
- Capability to define additional columns using a BAdI.
- The *Product View: Periodic* chart's capability to display only orders for selected sales order items in case of MTO.

## Features

### Cross-location Planning Chart

The PPT now includes a *Cross-location view: Periodic* chart that has cross-location planning capability. You access this chart using the standard PPT transaction /SAPAPO/PPT1.

This new chart takes the distribution relationships into account and works at a product level, that is, aggregated across all locations. You can drill down on product and location levels. It contains the following key figures:

- Available Quantity
- Days' Supply
- Safety Stock
- Total Requirements
- Total Receipts
- ATD Issues (read-only)
- ATD Receipts (read-only)

The *Total Requirements* and *Total Receipts* figures are aggregated from various subordinate requirement or receipt quantities, which are also displayed in the chart.

A new tab screen in the user settings for allows you to define settings for the chart. Choose *Settings -> User Settings* and enter the required settings in the *Cross Location View* tab screen. Here you can define whether:

- *Total Requirements* values are displayed aggregated or disaggregated
- *Distribution Demands* values are displayed aggregated or disaggregated
- *Total Receipts* values are displayed aggregated or disaggregated
- *Total Distribution Receipts* values are displayed aggregated or disaggregated
- *In-house Production* values are displayed aggregated or disaggregated
- *External Procurement* values are displayed aggregated or disaggregated
- *Stock Transfer Orders (Demand)* values are displayed or not.
- *Stock Transfer Orders (Receipt)* values are displayed or not.
- *Scheduling Agreement Schedule Lines and Releases* values are displayed if only orders exist.
- Values for *ATD Issues* and *ATD Receipts* are displayed
- Advanced Shipping Notification (ASN) is displayed

You can run PP/DS deployment for a selected product and location from the chart by clicking the *Deployment* button. You can also define the settings for deployment, for example, the deployment horizon, or whether stock transfer requisitions must be reduced.

To run the Demand Propagation heuristic directly, click *Variable Heuristic* above the chart, make the
required settings, and choose *Heuristics*.

**Filters for Characteristics**

The PPT now includes a filter that displays only those orders that match selected characteristics. This filter is applicable to the following charts:

- *Product view: Single elements*
- *Product View: Periodic*
- *Pegging Overview*

This filter allows you to define ranges and multiple values for the characteristics, as well as to save the characteristics and their values as variants if necessary. To use this filter, choose the *Filter by Characteristics* button.

You can get a proposal for the characteristics from a sales order by specifying a sales order profile, a sales order, and an item. The system fills the characteristics from the sales order profile and reads the values for those characteristics from the sales order item.

The sales order profile must define which characteristics from the sales order must be applied to the filter and which tolerances for the values must be applied (that is, the value of the sales order minus or plus a defined delta).

The following restrictions apply to the filter:

- Since not more than 5 characteristics can be maintained in the sales order profile, the filter also considers a maximum of 5 characteristics.
- Certain I/O nodes are not filtered by LiveCache.

**Production Output**

You can display the production output in a separate chart within *Resource view: Periodic*; this chart is read-only.

You can make the following new settings by choosing *Settings -> User Settings -> Resources* tab screen:

- Selecting the *Display Total Output* indicator displays a row for total output in the chart.
- In the *Unit of Measurement* field, choose the base unit of measurement for the production output quantities.

**Filter for Configurations**

The *Product View: Periodic* chart of the PPT displays characteristic values if the product is configuration-relevant and if the requirements strategy is make-to-order. The characteristic values are displayed as green triangles with links to the details.

If forecasts with configurations are used, you can apply a filter for the configurations that has the following features:

- You can filter according to the configuration defined in characteristic-based forecasting (CBF) for the forecasts.
- You can release forecasts with variant configuration (VC) to a planning segment.
- Characteristics are displayed as defined in the consumption group. However, you can sort by or change the sequence of the characteristics.
Display of Availability Date of Orders
You can now view the availability date of in-house production orders and external procurement orders either inclusive or exclusive of the duration for goods receipt. This feature is available for the following charts:
- Product view: Periodic
- Product view: Single elements
- Product view: Quantity Graphic
- Cross-location view: Periodic

By default, the availability date is inclusive of the goods receipt duration. Click the AV button in the toolbar to display the planned orders' availability date exclusive of the goods receipt duration. The system also replaces AV with a GR button, which you can click to return to the default setting.

Expanding and Collapsing Period Columns
You can now expand and collapse period columns without selecting the columns themselves. This feature is applicable only when the period category defined in the user settings is either SAP001, SAP002, SAP003, SAP004, or SAP006.

Multiple Loading for Different Location Products
You can now load the same chart multiple times for different location products. If you lock a particular chart using the Fix Chart button and select materials from the navigation tree, the chart is loaded with the same selected materials every time. A maximum of three charts can be loaded in this manner.

This feature is only available for the following charts:
- Product view: Periodic
- Cross-location view: Periodic
- Resource view: Periodic
- Production view: Periodic

Revoking Status of Processed Products
Using the Processed button, you can manually revoke the Processed status of a product if a new planning file entry is created.

Display of Sales Order
In the navigation tree to the left, click the Group button and select Sales Order. If you select a sales order from the list, the system displays all orders that have the same account. This function applies only to sales orders with a make-to-order requirements strategy.

Order Display (Make-to-Order)
The Product view: Periodic chart displays only the orders for the selected sales order items in case of the make-to-order requirements strategy. Unlike in the Product view: Single Elements chart, the displayed orders are not restricted to the selected order item.

Restricted Selection of Products with Alerts
You can now make a restricted selection of only products with alerts. The alert profile as maintained in the PPT settings must be used for this selection. For performance reasons, you must apply the restricted
selection criteria before selecting all products.

**Selection of Components with Requirements**

You can now opt to select only the components with requirements and not the output products. In this context, components refer to the input nodes of the operations on the resource.

This option only applies to selection by resources. For performance reasons, you must apply the selection change before selecting the output products.

**Extended Selection**

You can now extend the selection to output products and components with requirements. This option only applies to selection by resources.

**Display of Current Stock**

The current stock is now displayed in the *Group* menu in the navigation tree. You can define in the user settings whether or not the stock should be displayed; choose *Settings -> User Settings* and enter the required settings in the *Navigation Tree* tab screen.

**Effects on Customizing**

Sales order profiles can be defined and maintained in a new Customizing setting. In Customizing, choose *Advanced Planning and Optimization -> Supply Chain Planning -> Production Planning and Detailed Scheduling (PP/DS) -> Product Planning Table -> Maintain Sales Order Profile*.

**1.2.9.4 SCM-APO-PPS-HEU Heuristics**

**1.2.9.4.1 PP/DS Heuristics in Characteristics-based Cross-location Planning (Enhanced)**

**Use**

As of SAP Supply Chain Management (SAP SCM) 7.0, you can carry out characteristics-based cross-location planning. To enable this, the following new heuristics are available:

**Heuristic for Interactive Sourcing Profiles** *(JJ_INT_SRC)*

This heuristic allows you to interactively choose the sources of supply from which to source procurement proposals. You can choose from the displayed key resources and key components for each source location.

You must maintain interactive sourcing profiles *(VC_PROF)*.

**Demand Propagation Heuristic** *(SAP_PP_022)*

This heuristic can be used in external procurement scenarios to derive the dependent demands for a
product in a source location, by propagating the demands for the product in all target locations in the supply chain network. It can be executed for one level or across all levels in the supply chain network.

**Delete Dependent Orders Heuristic (SAP_PP_026)**

You can use this heuristic to delete all pegged dependent orders across BOM levels. This includes all sub-assemblies and purchase requisitions that are pegged to the selected order. The heuristic can be executed only at the order level.

**Shelf-Life Propagation Heuristic (SAP_PP_025)**

This heuristic enables you to propagate the minimum and maximum required shelf life values across the pegging network. This ensures that the required shelf life dates from the independent demands are propagated to dependent demands throughout the pegging network.

The heuristic propagates the required shelf life values one level downward. To propagate the shelf life across a network that includes in-house production orders or external procurement orders, this heuristic must be invoked from within the MRP heuristic (SAP_MRP_001).

**Propagation of Descriptive Characteristics (SAP_PP_023)**

This heuristic allows you to propagate the descriptive characteristic values associated with a demand element to the dependent demand or stock transfer requirement of the receipt element (planned order or stock transfer order) pegged to it.

**Enhanced Heuristics**

The following PP heuristics have been enhanced with an option to enable interactive sourcing:

- SAP_PP_001
- SAP_PP_002
- SAP_PP_003
- SAP_PP_004

When executed after enabling interactive sourcing, these heuristics display the interactive sourcing dialog. You can here choose the source of supply for the procurement proposals based on key resource and component availability. The interactive sourcing dialog displays the utilization, capacity, and available capacity for resources and the product availability and stock for components.

The following service heuristics have been enhanced to reschedule stock transfer requisitions and deployment confirmed stock transfer requisitions:

- SAP_PP_008 (Rescheduling: Bottom up for Conti-I/O)
- SAP_PP_009 (Rescheduling: Bottom Up)
- SAP_PP_010 (Rescheduling: Top Down)

**Constraints**

The capability of branching to the display of batches from the stock display has not been implemented in this release.
1.2.9.4.2 PP/DS Deployment Heuristic (New)

Use

As of SAP Supply Chain Management (SAP SCM) 7.0, the new PP/DS Deployment Heuristic, SAP_PP_024, allows you to select the process to be executed for stock transfers during PP/DS deployment. On deployment, the system reads the orders for the selection from LiveCache and the master data.

After production is complete, deployment determines which demands can be fulfilled by the existing supply. If there are insufficient quantities available to fulfill the demand or if the quantities available exceed the demand, PP/DS deployment makes adjustments to the plan created by the PP/DS planning run.

The deployment heuristic invokes the PP/DS deployment algorithm, which generates deployment stock transfers based on the PP/DS stock transfers that were created during the PP/DS planning run. The Transport Load Builder (TLB) then uses these deployment stock transfers to create transport loads, thus generating TLB shipments. The PP/DS deployment also enables characteristic-based deployment.

Distribution Plans

You can use this heuristic to create a distribution plan for one product at one location. Real-time deployment does not take place. If the available quantities are insufficient to fulfill the demand, the system uses fair share rules to determine the distribution plan. Only pull deployment is applicable in PP/DS.

Quantity Confirmation within Order Segments

PP/DS deployment can now confirm quantities in order segments, such that the same document flow as for (Make-to-stock) MTS orders is followed. The planning runs separately for each order segment.

Processing of Stock Transfers

PP/DS deployment has capabilities similar to Supply Network Planning (SNP) deployment. It confirms quantities that can be transferred and changes the planned stock transfers accordingly. You can opt for either of the following procedures on the planned PP/DS stock transfers:

- Delete: Enables the creation of deployment stock transfers and deletes all PP/DS stock transfers that fall within the planning period, regardless of whether or not they could be confirmed during the deployment run.
- Change: Enables the creation of deployment stock transfers and reduces the PP/DS stock transfers accordingly.
- No Processing: Ensures that the system does not create any deployment stock transfers and does not reduce the existing PP/DS stock transfers. This option is for simulation purposes only. You can view the results in the log.

ATD quantity is calculated based on the ATI and ATR categories.

Deployment Horizon
The deployment horizon setting allows you to define the number of days the system must consider during the deployment calculation. Unless you process the deployment run in batch mode, using the background job scheduling function, the current date is taken as the start date for the run. This horizon is shorter than the SNP horizon since SNP is the input for deployment planning.

The existing SNP deployment function has been incorporated into a standard PP/DS heuristic, SAP_PP_024. This approach provides the following capabilities for PP/DS deployment:
- The heuristic can be called from the PP/DS Product View or started from the background.
- The heuristic fits into the Process Chain tool just like any other standard heuristic.

PP/DS deployment is different from SNP deployment in the following areas:
- Only pull distribution is allowed
- Fair share situations can only be resolved with Fair Share A and Fair Share X options
- The planning run uses only the new standard Planning Book 9APPDS_DEP which defines:
  - A long-term daily bucket structure
  - Macros relevant for this scenario only
- Categories of confirmed stock transfers can be seen at PP/DS Global Settings

Master Data Changes

The following new fields have been added to the PP/DS tab screen of the Product Master:
- Depl. Char. Prof.
- Fair Share Rule
- Pull Deployment Horizon
- Push Deployment Horizon
- SNP Checking Horizon

Effects on Customizing

Heuristic

Based on the /SAPAPO/HEU_PPDS_DEPLOYMENT algorithm, a new PP/DS Deployment Heuristic, SAP_PP_024, has been added. You use this heuristic to define the settings for the deployment horizon and the processing of stock transfers, both of which are described above; in Customizing, choose Advanced Planning and Optimization -> Supply Chain Planning -> Production Planning and Detailed Scheduling (PP/DS) -> Heuristics -> Maintain Heuristics -> SAP_PP_024 to carry out these settings.

Deployment Characteristic Profiles
You can maintain PP/DS deployment characteristic profiles within the system. In Customizing, choose Advanced Planning and Optimization -> Supply Chain Planning -> Production Planning and Detailed Scheduling (PP/DS) -> Deployment -> Maintain PP/DS Deployment Characteristics Profile.

1.2.10 SCM-APO-ATP  Global Available-to-Promise

1.2.10.1 Backward Consumption (Enhanced)

Use

As of SAP SCM 7.0, you can specify the period consumption strategy. This strategy defines the sequence in which periods are to be consumed by product allocation during backward consumption.

Effects on Customizing

You specify the strategy in Customizing for SAP SCM under Advanced Planning and Optimization -> Global Available-to-Promise (Global ATP) -> Product Allocation -> Maintain Product Allocation Group.

1.2.10.2 ATP Category (Enhanced)

Use

As of SAP SCM 7.0, you can specify an SAP category as a reference category. The system copies attributes, such as the following, from the referenced category to a non-SAP category:

- Backorder processing allowed
- OLTP object type
- No ATP check allowed
- ATP check of open or confirmed quantity

This enables you to configure non-SAP categories to act like the referenced SAP categories.
Effects on Customizing

You can specify a reference category in Customizing for SAP SCM under *Advanced Planning and Optimization* -> *Global Available-to-Promise (Global ATP)* -> *General Settings* -> *Maintain Category*.

### 1.2.10.3 Adoption of Scheduling Results (Changed)

**Use**

As of SAP SCM 7.0, the system reuses the scheduling results from the ATP check in the batch backorder processing and sends them to the OLTP system. This leads to a better system performance.

**Effects on Existing Data**

If you change the confirmation, you have to delete the scheduling results if you use one of the following user exits:

- EXIT_/SAPAPO/SAPLBOP_051
- EXIT_/SAPAPO/SAPLBOP_052

If you do not delete the scheduling results, they differ in the OLTP system from the confirmation situation.

For more information, see the user exit documentation.

### 1.2.10.4 Subcontracting in MATP (Enhanced)

**Use**

As of SAP SCM 7.0, you can activate subcontracting for the multilevel ATP check (MATP) in the integrated rule maintenance. Subcontracting is a form of procurement, in which the product to be procured is manufactured by a supplier.

**Effects on Existing Data**

If you activate subcontracting, the system automatically sets the Stock transfer indicator and sets the StartProduction field to *Production Directly*.
1.2.11 SCM-APO-OPT  

**Optimization**

1.2.11.1 SCM-APO-OPT-BF  

**Basic Functions**

1.2.11.1.1 Remote Control and Communication Framework (Changed)

**Use**

In SAP SCM 7.0, the Remote Control and Communication Framework (RCCF) in SCM Basis has been moved into SAP Business Suite Foundation 7.01 (SAP_BS_FND 701). (RCCF replaces the Optimizer Framework of SAP Advanced Planning and Optimization (SAP APO)). In SAP APO, the previous transaction codes and IMG activities are still available, but they now refer to the new user interfaces.

For more information, see the corresponding release note in SAP Business Suite Foundation 7.01.

1.2.12 SCM-APO-INT  

**Interfaces**

1.2.12.1 SCM-APO-INT-MD  

**Master Data**

1.2.12.1.1 SCM-APO-INT-MD-CLC  

**Classes and Characteristics**

1.2.12.1.1.1 Definition of Configuration Schema (Enhanced)

**Use**

As of SCM 7.0, you can define the configuration relevance for Characteristics-Dependent Planning (CDP) or variant configuration (VC) on client level or on product level. If you want to work with both configuration procedures in one client, in the Setting field, choose Configuration on Product Level, and in the Default for Config. field, choose the configuration procedure as a default that is relevant for the characteristics you are using for your planning.
You can also define that your forecast data is to be released with a configuration of its own. Select the **Release Forecast with Configuration** checkbox, if you want to do the following:

- Release your forecast data from Demand Planning (DP) to Supply Network Planning (SNP) with a configuration of its own
- Transfer the orders with a configuration of their own back from SNP to DP.

For more information on the requirements for releasing forecast data with configuration, see the release note Forecast Release and Consumption with Configuration.

### Effects on Customizing

You can make the settings as described above in Customizing for *Master Data* under Define Configuration Schema (CDP or Variant Configuration).

### 1.3 SCM-BAS SCM Basis

#### 1.3.1 Structure Changes in the IMG of SCM Basis

**Use**

As of SAP SCM Basis 7.0, the structure of the Implementation Guide (IMG) has changed. You must regenerate the project IMGs to transfer these changes.

**New IMG Structure Nodes and IMG Activities**

- IMG for Planning Service Manager (PSM)
  - Assign Selection Types to Application
- IMG for Master Data Layer
  - Master Data Layer -> BAdI: Modify Generated Partner ID
- IMG for Integration
  - Integration -> Basic Settings for Data Transfer -> Activate CIF Incremental Load
  - Integration -> Basic Settings for Creating the System Landscape -> Define SLD Data of Business Systems
- IMG for Master Data
  - Location -> Configuration for Alternative Location Identifiers
  - Enterprise Services -> Business Add-Ins (BAdIs) -> Product Data Maintenance ->
Material -> BAdI for MaterialSCMSimpleByIdentifyingElementsQueryResponse

Changed IMG Activities

... 

Transferred IMG Activities

... 

Deleted IMG Activities

- In the area of *Routing Guide*
  - *Define Transportation Zone Hierarchy*
- The whole area *Remote Control and Communication Framework* has been deleted including the following IMG activities:
  - *Edit Destinations*
  - *Make Settings for Experts*
- Under *Enterprise Services*, the IMG activity *Configure Idempotent Services* has been deleted. Instead, this IMG activity and other IMG activities for enterprise services are now available under *Cross-Application Components -> Processes and Tools for Enterprise Applications -> Enterprise Services*.

1.3.2 SCM-BAS-INT Interfaces

1.3.2.1 SCM-BAS-INT-MD CIF Master Data

1.3.2.1.1 Initial Data Transfer via Core Interface (CIF) (Enhanced)

Use

As of release SAP SCM 7.0 you can improve the effectiveness of initial data transfer via Core Interface (CIF) by activating incremental data transfer in Customizing. The incremental data transfer is valid for the following master data objects:

- Product master data
- Location product master data
- Production data structure (PDS) (in SAP APO only)
If you do not activate the incremental data transfer, the initial data transfer stops in the event of an error during the processing of a queue even if the error only affects one of the objects in the queue. If the data transfer is scheduled in a background job, then the background job is canceled. You must correct the error and start the transfer of all objects again.

If you activate the incremental data transfer, the system transfers all blocks of correct master data objects in a CIF queue so that you only have to retransfer blocks with errors. Due to the lower volume of objects to be processed again, the retransfer becomes more effective.

To be able to use incremental data transfer, you must activate the Enhanced Initial Data Transfer (CA_CIF_INILOAD_01) business function. This business function is available as of Enhancement Package 4 for SAP ECC 6.0.

Effects on Customizing

To activate the incremental data transfer, use the Customizing activity Activate Incremental Data Transfer. For more information, see Customizing for SCM Basis under Integration -> Basic Settings for Data Transfer -> Activate Incremental Data Transfer.

See also

For more information about the initial data transfer via CIF, see SAP Library for SAP Supply Chain Management on SAP Help Portal at http://help.sap.com -> Overview of SAP Documentation -> SAP Business Suite -> SAP Supply Chain Management -> SAP SCM 7.0 -> Application Help EN -> SAP Supply Chain Management (SAP SCM) -> SAP Advanced Planning and Optimization (SAP APO) -> Integration via Core Interface (CIF) -> Technical Integration -> Core Interface (CIF) -> Data Transfer -> Initial Data Transfer.

1.3.3 SCM-BAS-AMO Alert Monitor

1.3.3.1 Alert Monitor (Enhanced)

Use

As of release SAP SCM 7.0, to simplify and improve the usability of alert profile maintenance, the Alert Monitor provides a new user interface that allows you to configure profiles, create new profiles, or select existing profiles and modify, delete or transport them.

Application-specific and overall profiles are maintained in separate group boxes, which illustrates the relationships between the two types of profiles.

In order to control access to alert profiles, the Alert Monitor checks authorization before the requested action is performed. The user administrator can specify which users are allowed to work with the Alert Monitor, as well as the actions they can perform, and the profiles they are allowed to create, modify,
delete or transport.

The processing of type *Order in Past* Production Planning and Detailed Scheduling (PP/DS) alert types is moved to liveCache in order to improve the performance of the alert determination process.

**Effects on System Administration**

To maintain the alert profiles the user needs to have adequate authorization. The profile maintenance authorization is checked against authorization object C_APO_APRF, which enables the system administrator to control maintenance activities on the alert profile level.

**1.3.4 SCM-BAS-PSM Planning Service Manager**

**1.3.4.1 Functions for Planning Service Manager (PSM) (Enhanced)**

**Use**

As of SAP SCM Basis 7.0, the following new functions will exist for the Planning Service Manager (PSM):

- Alerts for the PSM
- Display and selection of planning profiles

**Alerts for the PSM**

If a planning service failed or has been finished with errors, you could only display information about the failure and the errors in the PSM application log. As of SAP SCM Basis 7.0, the system creates an alert if a planning service fails or has been ended with errors so that a planner is immediately informed and can correct the errors.

**Display and selection of planning profiles**

Up to now, you could only display planning profiles on the *Define Planning Profile* screen by selecting one of the existing planning profiles. As of SAP SCM Basis 7.0, there is a new screen for displaying planning profiles. On this new *Display Planning Profile* screen, you can not only enter specific planning profiles, but you can also search for planning profiles by entering certain selection criteria as a service profile or a trigger group.
1.3.5 SCM-BAS-TDL  Transaction Data Layer

1.3.5.1 Triggers for Service Parts Planning (Enhanced)

Use

As of SAP SCM 7.0, the following new triggers are available for Service Parts Planning (SPP):

- **SPP: Calendar Period Change (SPP_CLD_CHG)**
  This trigger triggers the realignment service for calendar changes if the calendar master data has been changed.

- **SPP: Anticipated Demand Coverage for Seasonal Product (SPP_SEASONAL_PROD)**
  This trigger triggers the anticipated demand coverage if the forecast of a seasonal product has been changed.

- **Not Enough Unserviceable Stock (SPP_UNSRV_INSUFF)**
  This trigger triggers inventory balancing with unserviceable products if not enough unserviceable products are available to cover the demand for unserviceable products.

- **STO with Unserviceable Stock Created (SPP_UNSRV_STO_CRTD)**
  This trigger triggers distribution requirements planning (DRP) if the inventory balancing with unserviceable stock service has created a stock transport order with unserviceable stock.

- **STO Creation with Unserviceable Stock Failed (Cap. Constraints) (SPP_UNSRV_STO_NO_CAP)**
  This trigger is set for inventory balancing with unserviceable stock if no stock transport order could be created due to capacity constraints.

1.3.6 SCM-BAS-MD  Master Data

1.3.6.1 SAP SCM Basis Monitoring with CCMS (New)

Use

As of SAP NetWeaver 7.0 including SAP enhancement package 1 and SAP SCM Basis 7.0, you can use the predefined monitor set **SAP SCM Basis Monitor Templates** in the monitoring architecture of the Computing Center Management System (CCMS). The CCMS Monitoring Architecture is a framework...
available in SAP NetWeaver into which monitoring and administration functions can be added.

The *SAP SCM Monitor Templates* monitor set includes the following:

**CIF Master Data Queue Monitor**
The CIF Master Data Queue Monitor allows you to monitor inbound and outbound queues for the SAP Core Interface (CIF).

**Effects on System Administration**
To use the *SAP SCM Basis Monitor Templates* monitor set as a template for your own monitor, copy the desired monitor and adapt it to your needs. If you run CCMS from a central system to monitor your system landscape, set up system connections with your SAP SCM systems. For more information, see the SAP NetWeaver documentation on SAP Help Portal at [http://help.sap.com](http://help.sap.com) under *SAP Library -> SAP NetWeaver Library -> SAP NetWeaver by Key Capability -> Solution Life Cycle Management by Key Capability -> Solution Monitoring -> Monitoring in the CCMS.*

**1.3.6.2 SCM-BAS-MD-TL**

**Transportation Lanes, TDL Profile and Planning Cost**

**1.3.6.2.1 Maintaining Means of Transport (Changed)**

**Use**
In SCM Basis 7.0, the Customizing activity for maintaining means of transport has been changed:

- The field *External Means of Transport* (/SAPAPO/TR_EXTTTYPE_FLG) has been renamed to *Multiresource*.
- The field *Number of External Vehicle Resources* (/SAPAPO/TR_EXTTTYPE_NUM ) has been renamed to *Number of Individual Resources*.

For more information, see the Customizing for SCM Basis under *Master Data -> Transportation Lane -> Maintain Means of Transport.*
1.3.7 SCM-BAS-RCC  Remote Control and Communication Framework

1.3.7.1 Remote Control and Communication Framework (Deleted)

Use

As of SAP SCM Basis 7.0, the Remote Control and Communication Framework (RCCF) is available in SAP Business Suite Foundation 7.01 (SAP_BS_FND 701). Therefore, this function (including the transactions in the area menu and the Customizing activities) has been deleted in SAP SCM Basis.

For more information, see the corresponding release note in SAP Business Suite Foundation 7.01.

1.4 SCM-EWM  Extended Warehouse Management

1.4.1 Cross-Docking (Enhanced)

Use

As of Release 7.0, you can use new processes in the area of cross-docking to execute a planned or opportunistic cross-docking.

- In the area of planned cross-docking, you can use merchandise distribution alongside the existing transportation cross-docking. If you want to use merchandise distribution, a prerequisite is that you use SAP enhancement package 4 for SAP ERP 6.0 with business function Retail, CD/FT_EWM Integration, and your system is defined as an SAP Retail system.

For a planned cross-docking, the decision for whether cross-docking has to be performed is made before the goods arrive at the warehouse. You can use merchandise distribution to plan and manage the flow of merchandise from a vendor to a warehouse, and then on to the store or customer.

Merchandise distribution supports push and pull processes, and allows you to carry out cross-docking in the warehouse.

Various processes are used to distribute the goods to the recipients, for example, merchandise cross-docking, recipient -driven flow-through, or product-driven flow-through.

You can manually start a quantity adjustment for the flow-through processing methods. From the SAP Easy Access menu, choose Extended Warehouse Management -> Delivery Processing -> Inbound Delivery -> Merchandise Distribution: Maintain Quantity Adjustment (Flow-Through).

In a recipient-driven flow-through process, you can use a business add-in (BAdI) to automatically
unpack the higher-level handling unit at the pick point work center.

- In the area of opportunistic cross-docking, you can use an opportunistic cross-docking, which is triggered by Extended Warehouse Management (EWM), alongside the existing push-deployment or pick from goods receipt. The decision for whether cross-docking has to be performed is made in the warehouse during warehouse task creation, that is, after the arrival of the incoming goods or release of the outbound delivery order. Opportunistic cross-docking, which is triggered by EWM, supports push and pull processes, and also allows you to carry out cross-docking in the warehouse.

- You can use work center determination for cross-docking. On the SAP Easy Access screen, choose Extended Warehouse Management - > Master Data - > Work Center - > Determine Work Center for Cross-Docking.

**Effects on Customizing**

- If you want to use merchandise distribution, you maintain the required IMG activities in Customizing for EWM as described under Basic Settings for Merchandise Distribution.

- If you want to modify the quantity calculation for the quantity adjustment in the flow-through scenario, you use the BAdI: Quantity Adjustment BAdI.

- If you want to automatically unpack the higher-level handling unit at the pick point work center in a recipient-driven flow-through process, you use the BAdI: Unpack Higher-Level Handling Unit at Warehouse Task Confirmation BAdI.

- If you want to use opportunistic cross-docking, which is triggered by EWM, you do the following:
  - Maintain the required IMG activities in Customizing for EWM as described under Basic Settings for EWM-Triggered Opportunistic Cross-Docking.
  - Activate and adjust the inbound-driven process using the BAdI: Activate and Adjust Inbound-Driven Cross-Docking Process BAdI.
  - Activate and adjust the outbound-driven process using the BAdI: Activate and Adjust Outbound-Driven Cross-Docking Process BAdI.

**See also**


### 1.4.2 SAP Extended Warehouse Management: Create User (new)

**Use**

As of enhancement package 1 of SAP NetWeaver 7.0 the system can automatically create a user, create a business partner, and assign authorizations (roles) to the user in SAP Extended Warehouse Management (SAP EWM). You can distinguish between the following use cases:
SAP ERP Human Capital Management (SAP HCM) is part of your system landscape and you have activated labor management in SAP EWM

SAP HCM is part of your system landscape and you have not activated labor management in SAP EWM

In the first use case, you can transfer the data of your employees from SAP HCM to SAP NetWeaver Identity Management. Here, the system creates identities for the employees. These identities are then provisioned to SAP EWM. Before provisioning them the system administrator must do the following:

- The system administrator must assign SAP EWM roles that are used for labor management to the business roles in SAP NetWeaver Identity Management. The system administrator then assigns the identities to the business roles and provisions the identities to SAP EWM.
  - Note that the SAP EWM roles must have been assigned a warehouse number at an organizational level that is relevant for labor management for the identities to be used in labor management.

When the system administrator provisions the identities to SAP EWM, the system creates a user with the respective SAP EWM role, a business partner (BP) with a Processor business partner role, and a Central Person that manages the user ID, the personnel number, and the BP data.

In the second use case, the system administrator can assign any SAP EWM role to the business role in SAP NetWeaver Identity Management. When the system administrator provisions the data to SAP EWM, the system only creates a user with the respective SAP EWM role. The system does not create a BP.

Prerequisites

- You are using SAP NetWeaver Identity Management 7.1 under license.
- To allow a background user to access SAP EWM from SAP NetWeaver Identity Management, a system administrator must assign the /SCWM/IDM_EWM_INTEGRATION role to the background user. In addition, the system administrator should assign the SAP_BC_SEC_IDM_COMMUNICATION role the background user to allow user management and role assignment through SAP NetWeaver Identity Management.

1.4.3 Structure changes in the EWM IMG

Use

As of SAP EWM 7.0, the structure of the implementation guide (IMG) of SAP EWM has changed. To transfer these changes to the project IMGs, you must regenerate the project IMGs.

Deleted IMG Activities

- In the area Master Data -> Shipping & Receiving
- Prerequisites for Using Goods Receipt and Shipping
- In the area Goods Issue Process -> Outbound Delivery
- Define EWM-Specific Settings for Item Types

**New IMG Structure Nodes**
- In the area Master Data ->
  - Production Supply
- In the area Goods Issue Process -> Outbound Delivery ->
  - Production Supply
- In the area Cross-Process Settings -> Warehouse Task ->
  - Define Storage Groups for Layout-Oriented Storage Control
- In the area Cross-Process Settings -> Cross-Docking (CD) ->
  - Planned Cross-Docking with the Merchandise Distribution subnode
  - Opportunistic Cross-Docking with the EWM-triggered opportunistic Cross-Docking subnode
- In the area Cross-Process Settings -> Resource Management ->
  - Control Data
- In the area Monitoring ->
  - Graphical Warehouse Layout
- In the area Business Add-Ins (BAdIs) for Extender Warehouse Management -> Internal Warehouse Processes -> Resource Management ->
  - Resource Execution Constraints (REC) Control
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Cross-Process Settings ->
  - Cross-Docking (CD) with the Planned Cross-Docking subnode and the Opportunistic Cross-Docking subnode
  - Under the Planned Cross-Docking subnode the Merchandise Distribution subnode
  - Under the Opportunistic Cross-Docking subnode the EWM-triggered opportunistic Cross-Docking subnode
  - Under the EWM-triggered opportunistic Cross-Docking subnode the EWM-triggered opportunistic Cross Docking Inbound subnode and the EWM-triggered opportunistic Cross Docking Outbound subnode
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Monitoring ->
  - Graphical Warehouse Layout (GWL)

**New IMG Activities**
- In the area Master Data -> Production Supply ->
  - Maintain Product Group Type for PSA Assignment
- In the area Goods Issue Process -> Outbound Delivery -> Production Supply ->
  - Maintain Settings for Aut. Goods Issue for Production Supply
  - Post Goods Issue for Consumption Posting
- In the area Cross Process Settings -> Cross-Docking (CD) -> Planned Cross-Docking ->
  Merchandise Distribution ->
  - Basic Settings for Merchandise Distribution
  - Define Adjustment Profile
  - Define Adjustment Method
  - Define Merchandise Distribution Process for Warehouse Process Type
- In the area Cross Process Settings -> Cross-Docking (CD) -> Opportunistic Cross-Docking ->
  EWM-triggered opportunistic Cross-Docking ->
  - Basic Settings for EWM-triggered opportunistic Cross-Docking
  - Activate EWM-triggered opportunistic Cross-Docking
- In the area Cross-Process Settings -> Resource Management ->
  - Define Queue Types
- In the area Cross-Process Settings -> Resource Management -> Control Data ->
  - Define Resource Execution Constraints (REC)
  - Assign Resource Execution Constraints to REC Storage Group
- In the area Monitoring -> Graphical Warehouse Layout ->
  - Define GWL Object Category
  - Define GWL Object
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Master Data ->
  Product
  - BAdI: Search Help for Entitled
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Master Data ->
  Work Center -> Adjust User Interface for Work Center ->
  - BAdI: Method called After Save
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Goods Receipt
  Process -> Putaway Strategies ->
  - BAdI: Filter and Sort Possible Storage Bins
  - BAdI: Near to Fixed Bin: Determine Fixed Bin
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Internal Warehouse
  Processes -> Resource Management -> Resource Executions Constraints (REC) Control ->
  - BAdI: Handle Situation if Storage Group in not Accessible for Resource
  - BAdI: Calculate Resource Leaving Time from REC Storage Group
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Internal Warehouse Processes -> Resource Management -> Processing ->
  - BAdI: RF: Resource Management Task Interleaving
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Cross-Process Settings -> Warehouse Task -> Confirmation of Warehouse Task ->
  - BAdI: Unpack Higher-Level Hauling Unit at Warehouse Task Confirmation
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Cross-Process Settings -> Cross-Docking (CD) -> Planned Cross-Docking -> Merchandise Distribution ->
  - Notes on Implementation
  - BAdI: Quantity Adjustment
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Cross-Process Settings -> Cross-Docking (CD) -> Opportunistic Cross-Docking -> EWM-triggered opportunistic Cross-Docking -> EWM-triggered opportunistic Cross Docking Inbound ->
  - Notes on Implementation
  - BAdI: Activate and Adjust Inbound Driven Cross Docking Process
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Cross-Process Settings -> Cross-Docking (CD) -> EWM-triggered opportunistic Cross-Docking -> EWM-triggered opportunistic Cross Docking Outbound ->
  - Notes on Implementations
  - BAdI: Activate and Adjust Outbound Driven Cross Docking Process
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Monitoring -> Graphical Warehouse Layout (GWL) ->
  - Notes on Implementation
  - BAdI: Extend Context Menu
  - BAdI: Change Display of GWL
  - BAdI: Function on Mouse Click
  - BAdI: Define Additional Marker
- In the area Cross-Process Settings -> Shipping & Receiving -> General Settings
  - Activate Parallel Processing for Unloading WTs
- In the area Cross-Process Settings -> Goods Movement for Delivery ->
  - BAdI: Select and Sort Stock for Consumption Posting Delivery
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Interfaces -> ERP Integration
  - BAdI: Generation of PSA Name to be Used in EWM
- In the area Business Add-Ins (BAdIs) for Extended Warehouse Management -> Interfaces -> ERP Goods Movement Interface ->
- **BAdI Enhancement of the ERP Stock ID Mapping**

- In the area **Master Data -> Shipping & Receiving**
  - **Define Means of Transport**

- In the area **Material Flow System (MFS) -> BAdIs for the Material Flow System**
  - **BAdI: Accept Wrongly Located HU at Communication Point (CP)**

### Reassigned IMG Activities

- **IMG of Cross-Docking**
  You can find the following IMG activity in the IMG for EWM under **Cross-Docking (CD) -> Planned Cross-Docking ->**
  - **Basic Settings for Transportation Cross-Docking (TCD)**
    This IMG activity was previously located directly under **Cross-Docking (CD)**. This structure node was enhanced with the **Planned Cross-Docking** subnode.

  You can find the following IMG activity in the IMG for EWM under **Cross-Docking (CD) -> Opportunistic Cross-Docking ->**
  - **Basic Settings for PD and Pick From GR**
    This IMG activity was previously located directly under **Cross-Docking (CD)**. This structure node was enhanced with the **Opportunistic Cross-Docking** subnode.

- **IMG of Maintain Transportation Mode**
  You can find the following IMG activities in the IMG for EWM under **Master Data -> Shipping & Receiving**
  - **Maintain Transportation Mode**
    This IMG activity was previously located under **SCM Basis -> Master Data -> Transportation Lane**. This structure node is still available.

### 1.4.4 Material Flow System (MFS)

#### Use

As of SCM 7.0, MFS allows you to do the following:

- Specify an MFS server group on which the MFS processes can run
- Track and trace the execution of the MFS action function modules provided by SAP using the application log
- Reuse the example implementations offered by SAP to achieve an equal distribution of products in aisles of an automatic high rack during putway. Additionally, the status of the resources is taken into account during putaway and picking in these example implementations. The BAdIs and example implementation classes are as follows:

  - BAdI /SCWM/EX_CORE_PTS_FILT_SORT, method FILT_SORT, example implementation class /SCWM/CL_EI_CORE_PTS_FILT_SORT
  - BAdI /SCWM/EX_MFS_ACT_WT_CONF, method NEW_DEST, example implementation class /SCWM/CL_EI_MFS_ACT_WT_CONF
  - BAdI /SCWM/EX_CORE_RMS_DETERMINE, method DETERMINE, example implementation class /SCWM/CL_EI_CORE_RMS_DETERMINE

**1.4.5 Graphical Warehouse Layout (New)**

**Use**

As of Release 7.0, you can use the graphical warehouse layout (GWL) in the warehouse. You can use the GWL to display Customizing and master data of the warehouse and the status of warehouse activities. It also provides users with intuitive application menus, and allows users to check both the Customizing and the warehouse activity data, changing it if required. For example, users can check the data consistency of master data.

**Effects on System Administration**

If you use the GWL standard objects, you must have installed a SAP Graphical User Interface (SAP GUI) 7.10 or higher. For more information, see the SAP Service Marketplace under http://service.sap.com/patches.

**Effects on Customizing**

If you want to define own GWL objects and GWL object categories, you make the following settings in Customizing for EWM under **Monitoring -> Graphical Warehouse Layout**:

- Define GWL Object Category
- Define GWL Object

**See also**
For more information, see the Customizing for EWM under Monitoring -> Graphical Warehouse Layout.

For more information, see SAP Library for Extended Warehouse Management under Monitoring -> Graphical Warehouse Layout.

1.4.6 Integration of Production Supply of EWM into Production Planning in ERP

Use

As of SCM 7.0, you can use SAP Extended Warehouse Management in connection with an ERP system to store and stage products used for production by transporting them to a production supply area (PSA). The products have to be picked in the warehouse and moved to the PSA. After transporting the products to the PSA, the stock can be consumed on the basis of a production order.

There are several ways to provide components that are required for a manufacturing order:

- **Pick parts/release order parts**: The products that are needed as components for an individual order (pick parts) or for multiple orders (release order parts) have to be staged in the PSA in time and in the required quantity.

- **Crate parts/kanban**: Products that are often used in the production area are provided independently from the existing orders. The warehouse is responsible for filling containers when requested by the production.

The following functions are available for EWM 7.0 and ERP EHP4:

- Maintaining the new object production supply area (PSA) in EWM to stage products
- Staging of pick parts from EWM for process and production orders in ERP
- Staging of release order parts from EWM for process and production orders in ERP
- Staging of crate parts. This process is initiated in EWM
- Consumption (goods issue) of staged components in EWM
- Canceling goods issue (GI) of staged components from ERP
- Staging with Kanban via stock transfer from EWM
- Staging with Kanban via external procurement and goods receipt (GR) into EWM
- Staging with Kanban via in-house production and GR into EWM
- Staging with Kanban via consumption to cost center from EWM
- GR for repetitive manufacturing from ERP into EWM
- Document-related cancellation for repetitive manufacturing into EWM
- Document-neutral cancellation for repetitive manufacturing into EWM
See also

- For more information about Extended Warehouse Management, see SAP Library under Extended Warehouse Management --> Goods Issue --> Production Supply.
- For more information about the ERP system, see SAP Library under SAP ERP --> SAP ERP Enhancement Packages --> Business Function Sets and Business Functions --> Enterprise Business Functions --> Logistics --> Production Planning and Control --> EWM Integration into Manufacturing.

1.4.7 Additional Functions in Radio Frequency (RF)

Use

As of SCM 7.0, you have the following additional functions in your RF transactions:

- **Query for HU Stock Overview**: This transaction provides an opportunity to display the content of the whole HU at a glance.

- **Pick Point Process**: The pick point process at a work center is now RF-supported. You can create pick-handling units, send the pick-handling units to the next location, such as the goods issue area, and send the stock HU back to a storage type. To assist you in identifying the correct packaging material, you can have a workload overview of your current distribution group.

- **System-guided processing**: Within the system-guided processing you now have the following additional options:
  - Using **semi-system-guided processing**, the selected warehouse order is not assigned to the resource. The system sends the worker to a bin and allows him or her to select any HU.
  - Using **task interleaving** helps you to increase efficiency by reducing the travel time of the resources in general and the travel time without load.

- **Resource Execution Constraints (REC)**: With this function, you can limit the number of working resources per resource type. This prevents the collision (disturbing) of different resources in the warehouse area.
1.4.8 Additional Functions for Warehouse Order Processing

Use

As of SCM 7.0, you can also do the following in warehouse order processing:

- Use process-oriented storage control for internal movements
- Add a validity time frame and user-specific settings for application logs
- **HU Denial:**
  - Make exceptions for bin denial at HU level, if a source HU has been defined
  - Pick from alternative HUs in the same bin
- Change the stock ID in the packing screen of the inbound delivery
- Use the report /SCWM/DLV_CONF_UPG_XPRA to move the document types and item types from the old database tables (SAP EWM 2007) to the new database tables (EWM 7.0).
- Use the following **monitor enhancements:**
  - **Block storage bins in the warehouse monitor:**
    Block storage bins for putaway and stock removal with a single method
    Remove block on storage bins for putaway and stock removal with a single method
  - **Selection criterion for empty HUs:**
    Within node Stock and Bin -> Storage Bin -> HUs in the monitor, there is an additional selection criterion "empty", enabling a user to select empty HUs only
  - **There are three new methods in the monitor node Stock and Bin -> Storage Bin -> HUs:**
    Delete HU: Delete an HU including its sub-HUs; stock will be unpacked
    Create warehouse task for HU: Navigate to the transaction /SCWM/ADHU
    Quit storage control: Only works for storage processes for internal movements
- Use new BAdI methods:
  - **Extension in Putaway Strategy Near Fixed Bin:**
    New BAdI method to select and sort the fixed bins that are to be taken as reference for the new reserve bin (including an example implementation)
  - **Extension in Work Center:**
    New BAdI method to change data after saving for HUs
1.4.9 SCM-EWM-MON  Monitoring

1.4.9.1 SAP EWM Monitoring with CCMS (New)

Use

As of SAP NetWeaver 7.0 including SAP enhancement package 1 and SAP Extended Warehouse Management (SAP EWM) 7.0, the predefined monitor set SAP EWM Monitor Templates in the monitoring architecture of the Computing Center Management System (CCMS) provides additional monitoring templates and monitoring tree elements. The CCMS Monitoring Architecture is a framework available in SAP NetWeaver into which monitoring and administration functions can be added.

The SNC Monitor Templates monitor set includes the following:

- CIF Master Data Queue Monitor
  The CIF Master Data Queue Monitor allows you to monitor inbound and outbound queues for the SAP Core Interface (CIF).

- EWM Monitor
  The EWM Monitor allows you to monitor inbound and outbound queues for external and internal message processing.

Effects on System Administration

To use the EWM Monitor Templates monitor set as a template for your own monitor, copy the desired monitor and adapt it to your needs. If you run CCMS from a central system to monitor your system landscape, set up system connections with your EWM system. For more information, see the SAP NetWeaver documentation on SAP Help Portal at http://help.sap.com under SAP Library -> SAP NetWeaver Library -> SAP NetWeaver by Key Capability -> Solution Life Cycle Management by Key Capability -> Solution Monitoring -> Monitoring in the CCMS.

1.5 SCM-EM  Event Management

1.5.1 Structure Changes in IMG for SAP Event Management

Use

As of SAP Event Management 7.0, the structure of the Implementation Guide (IMG) for SAP Event Management has changed. To copy these changes to the project IMGs, you must regenerate the project IMGs.

New IMG Structure Nodes
- Settings for SAP Object Event Repository
  - Business Add-Ins (BAdIs)
    The two BAdIs BAdI: Pre- or Postprocess EPCIS EPCISDocument Messages and BAdI: Pre- or Postprocess EPCIS Poll Messages have been moved to the new BAdI node.

**Renamed IMG Nodes**

- The IMG node Settings for SAP Object Event Repository (SAP OER) is now called Settings for SAP Object Event Repository.

**New IMG Activities**

- Settings for SAP Object Event Repository
  - Define EPCIS Extensions
  - Define Number of Allowed Subscriptions
  - Maintain Allowed Destinations for EPCIS Subscriptions
  - Define Number of Tries for Callback
  - Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess EPCIS Get Query Names Messages
  - Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess EPCIS Get Standard Version Messages
  - Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess EPCIS Get Subscription IDs Messages
  - Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess EPCIS Get Vendor Version Messages
  - Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess EPCIS Subscribe Messages
  - Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess EPCIS Unsubscribe Messages

**Renamed IMG Activities**

- The IMG activity Settings for SAP Object Event Repository -> Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess EventCaptureNotification Messages is now called BAdI: Pre- or Postprocess EPCIS EPCISDocument Messages.
- The IMG activity Settings for SAP Object Event Repository -> Business Add-Ins (BAdIs) -> BAdI: Pre- or Postprocess BAdI: Pre- or Postprocess EventQuery Messages is now called BAdI: Pre- or Postprocess EPCIS Poll Messages.
1.5.2 SAP Business Information Warehouse Interface (Changed)

Use

As of Release 7.0, you can define an optional external document type for each BI data collection group available for the data in the SAP object event repository. This document type, which corresponds to the business transaction type in the EventCaptureNotification, is then used by the system for each report.

If you do not specify an external document type, the system automatically uses the first business transaction type that is sent in an event capture notification for a specific ID as default.

For more information, see Customizing under Event Management -> Setting for SAP Object Event Repository -> SAP Business Information Warehouse Interface -> Make Settings for BI Data Collection Groups.

1.5.3 SAP Object Event Repository Complies with EPCIS 1.0 Specification (New)

Use

As of Release 7.0, SAP object event repository complies with the "EPC Information Services (EPCIS) Version 1.0 Specification" provided by EPCglobal Inc.

To be compliant with this specification, you must use managed web services through SAP NetWeaver Process Integration (SAP NetWeaver PI).

1.5.4 Other interfaces

Use

As of Release 7.0, the following EPCIS services are available:
- GetQueryNames
- GetStandardVersion
- GetVendorVersion

1.5.5 EventCaptureNotification Service (Enhanced)

Use

As of Release 7.0, the EventCaptureNotification Service supports quantity events for SAP object event repository in SAP Event Management. Quantity events can be used, for example, to report inventory levels of a product.


EventCaptureNotification supports UIIs and custom-defined IDs.

You can use a managed web service through SAP NetWeaver PI to execute an EventCaptureNotification Service.

As of Release 7.0, the Capture Interface fully supports the EPCIS extension concept. You have to maintain Customizing settings for every extension field that is to be supported. For more information about EPCIS extensions, see Customizing under Event Management -> Settings for SAP Object Event Repository -> Define EPCIS Extensions.

1.5.6 Poll Service (Enhanced)

Use

EPCIS: SimpleEventQuery (Enhanced)
As of Release 7.0, the SimpleEventQuery supports the following new parameters:
- WD_readPoint
- WD_bizLocation
- HASATTR_fieldname
- EQATTR_fieldname_attrname
- MATCH_epcClass
- EQ_quantity
- GT_quantity
- GE_quantity
- LT_quantity
- LE_quantity

As of Release 7.0, the SimpleEventQuery supports EPC patterns. The following parameters support not only pure identity format for the value, but also the pure identity pattern format:
- MATCH_epc
- MATCH_parentID
- MATCH_anyEPC

As of Release 7.0, SimpleEventQuery supports Unique Item Identifiers (UIIs) and custom-defined IDs.

**EPCIS: SimpleMasterDataQuery (New)**

As of Release 7.0, a new query called SimpleMasterDataQuery is available. It is based on the same interface, which is the Poll Interface, as the SimpleEventQuery, and supports the following query parameters:
- vocabularyName
- includesAttribute
- includeChildren
- attributeNames
- EQ_name
- WD_name
- HASATTR
- EQATTR_attrname
- maxElementCount

**Web Service**

You can use a managed web service through SAP NetWeaver Process Integration (SAP NetWeaver PI) to execute a SimpleEventQuery or SimpleMasterDataQuery.

**EPCIS: Sending Poll Queries to other systems**
SAP object event repository can execute an on-demand Poll Query to another SAP object event repository through SAP NetWeaver PI. It can also execute a web service-based on-demand Poll Query to an external EPCIS system through SAP NetWeaver PI.

**EPCIS Extensions**

As of Release 7.0, the Poll Interface fully supports the EPCIS extension concept. You have to maintain Customizing settings for every extension field that is to be supported.

**Effects on Customizing**

You have to define EPCIS extensions in Customizing under *Event Management -> Settings for SAP Object Event Repository -> Define EPCIS Extensions.*

1.5.7 Roles for SAP Object Event Repository (New)

**Use**

As of Release 7.0, there are two new roles for SAP object event repository:

- **SAP_EM_OER_USER**: for unrestricted use of EPCIS services
- **SAP_EM_OER_PARTNER**: for restricted use of EPCIS services

In the standard, both roles are authorized to call all EPCIS services.

1.5.8 Subscriptions (New)

**Use**

As of Release 7.0, SAP object event repository supports subscriptions for existing queries. You can now register for the Simple Event Query via subscription, and receive periodic results via the EPCIS Query Callback Interface.

To this effect, the following three methods and synchronous message interfaces have been added to the EPCIS Query Control Interface:
- subscribe
- unsubscribe
- getSubscriptionIDs

You can define the number of allowed subscriptions and the number of tries for callback.

The Query Callback Interface is the path by which an EPCIS service delivers standing query results to a client.

SAP object event repository only supports HTTP and HTTPS binding. AS2 binding is not supported.

**SAP NetWeaver Process Integration**

The Event Capture Interface in SAP NetWeaver Process Integration (SAP NetWeaver PI) can now deal with subscriptions.

There are separate message interfaces and proxies for each query control method. The message interfaces are based on new external definitions that are available on PI using the original XML schemas provided by EPCIS. The fault message types that are related to the subscription are provided as external definitions and are used in the appropriate message interfaces.

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**1.5.9 Alternative Display Formats for URNs (Enhanced)**

### Use

As of Release 7.0, in the web interface (ABAP WebDynpro) you can display the different components or available master data attributes of a URN instead of the URN of the location.

Example: You can display the master data attributes of a business location, for example site sublocation (SSL) or site sublocation type attribute (SLLTA), instead of the URN.

As of Release 7.0, alternative display formats for URNs in the web interface are configured for the following attributes of the PTA visibility process:

- Business location
- Outbound delivery number
- Ship-from location
- Ship-to location
Effects on Customizing

As of Release 7.0, ID mapping types 07 (Map Internal Format to Descriptive Format) and 08 (Map Internal Format to Descriptive Format (Description)) are available in Customizing under SAP Event Management -> Event Messages, Status Queries, and Web Interface -> Web Interface -> Configure Fields For User Profiles.

1.5.10 SCM-EM-MGR Event Manager

1.5.10.1 SCM-EM-MGR-EVP Event Processing

1.5.10.1.1 Web Interface (Enhanced)

Use

As of SAP Event Management 7.0, several enhancements are available in the Web interface (Web Dynpro ABAP). In general, the Web interface (Web Dynpro ABAP) now supports almost all the functions that are available for the Web interface (classic). The Web interface (classic) will not be developed further, but is still supported. We recommend that you use the Web interface (Web Dynpro ABAP). In the following, you can find the most important enhancements of the Web interface (Web Dynpro ABAP):

- On the SAP Easy Access screen, you can choose a fast entry that displays the available services but does not offer an option to query data. For example, a carrier only needs to report back actual events and should not be able to query data.

You can generate a URL link and use it for one of the following:

- To log on to the Web interface (Web Dynpro ABAP)
- To display a specific event handler without first logging on to the Web interface (Web Dynpro ABAP).

You can use a direct link option to access the details of an event handler without logging on to SAP Event Management. When you send event messages, you sometimes want SAP Event Management to create an alert that relates to data for a certain event handler. In this case, you can use a direct link to allow the recipient of the alert to easily access the data for the event handler without logging on to SAP Event Management.

- If you assign a selection, a display and, an event message profile to a user profile and have set the Document Flow indicator, you have to check if you need to maintain different user profiles. For more information, see Define User Profiles.

- You can define the sequence in which the Web interface is to display the status values of an status attribute.
Effects on Customizing

- If you want to use the direct link option, you maintain a hyperlink that appears in the alert in Customizing for SAP Event Management under Define Alert Framework Integration to SAP Event Management.

- If necessary, maintain different user profiles in Customizing for SAP Event Management under Define User Profiles.

- If you want to define the sequence in which the Web interface is to display the status values of a status attribute, you maintain the sequence in Customizing for SAP Event Management under Define Status Attributes.

See also

For more information about the Alert Framework, see Customizing for SAP Event Management under Reactions to Event Messages -> Define Alert Framework Connection -> Define Alert Framework Integration to SAP Event Management.


1.6 SCM-ICH Supply Network Collaboration

1.6.1 Structure Changes in the IMG of SAP SNC

Use

As of SAP Supply Network Collaboration 7.0 (SAP SNC 7.0), the structure of the Implementation Guide (IMG) has changed. You must regenerate the project IMGs to transfer these changes.

Reassigned IMG activities

- Purchase Order
  The following IMG activities that were under Purchase Order -> Approval Process -> Approval Process without Tolerances are now part of the Make General Purchase Order Settings IMG activity under Purchase Order:
    - Create Approval Profiles
    - Assign Approval Profiles
  The organisational activity Set Up Approval Process under Purchase Order -> Approval Process is now under Purchase Order.

Deleted IMG activities
- Purchase Order
  The Purchase Order -> Approval Process node has been deleted.
  The Purchase Order -> Approval Process -> Approval Process without Tolerances node has been deleted.

New IMG activities
- Exceptions
  The IMG activity Activate Alert Types under Exceptions -> Alert Type Activation is new.
- URL Determination
  The IMG activity Determining URLs under Basic Settings -> URL Determination is new.
- Quick View
  The IMG activity Configure Quick View under Basic Settings -> User Interfaces is new.
- User Administration
  The following IMG activities under Master Data -> User Administration are new:
  - Configure User Administration
  - Maintain Welcome E-Mail Texts
  - Maintain E-Mail Texts for Password Re-Set Notifications
  The following IMG activities under Business Add-Ins (BAdIs) for SAP SNC -> Master Data -> User Administration are new:
  - BAdI: Enhance Logic After New User Creation
  - BAdI: Create User Name for New User
  - BAdI: Set Validity for New User
- Identity Management
  The IMG activities under Master Data -> Integration with Identity Management are new.
  The IMG activity under Business Add-Ins (BAdIs) for SAP SNC -> Master Data -> BAdI: Determination of Leading Business Partner for Identity Management is new.
- Promotion
  The IMG activity Define Expected Promotion IDs under Demand -> Promotion is new.
- File Transfer
  The following IMG activities under Tools -> File Transfer are new:
  - Make Settings for Global Constants
  - Define Default User for a Download Profile
  - Determine Accepted E-Mail Addresses for File Upload
  - Maintain E-Mail Texts
  - Determine E-Mail Texts
  - Determine Error Control of the File Upload
  - Maintain Job Scheduling
  The following IMG activities under Business Add-Ins (BAdIs) for SAP SNC -> Tools -> File Transfer are new:
- **BAdI: Read Inbound E-Mail**
- **BAdI: Purchase Order Interface**
- **BAdI: ASN Publish Control**
- **BAdI: Due List for Purchasing Documents**
- **BAdI: Due List for Planned Receipts**
- **BAdI: Order Forecast Collaboration Interface**
- **BAdI: SMI Planned Receipt**

- **Processing Inbound and Outbound Messages**
  The following IMG activities under Business Add-Ins (BAdIs) for SAP SNC -> Basic Settings
  -> BAdIs for Message Interfaces (Outbound XML Messages) are new:
  - **BAdI for ManufacturingWorkOrderOrderProductionProgressNotification_Out**
  - **BAdI for PurchaseOrderERPRequest_V1_Out**

  The following IMG activity under Business Add-Ins (BAdIs) for SAP SNC -> Basic Settings
  -> BAdIs for Message Interfaces (Inbound XML Messages) is new: **BAdI for PurchaseOrderERPReplenishmentOrderCollaborationNotification_In**

  The following IMG activity under Business Add-Ins (BAdIs) for SAP SNC -> Basic Settings
  -> Processing Inbound and Outbound Messages -> BAdI: Validation of the Message Header (Inbound).

- **Visibility**
  The following IMG activity under Basic Settings -> Visibility is new: **Assign Partner-Dependent Selection Modes to Applications**.

- **Purchase Order**
  The IMG activity Make General Settings for Purchase Orders under Purchase Order is new.
  The IMG activity BAdI: Modify Approved Manufacturer Parts List Transfer under Business Add-Ins (BAdIs) for SAP SNC -> Master Data is new.

**Renamed and Changed IMG activities**

- **Projected Stock, SNI**
  The IMG activity Define Profiles for the Projected Stock has been renamed to Define Profiles for the Projected Stock and the SNI Demand.

- **Exceptions**
  The IMG activity Update the Quantities and Statuses of ROs and ASNs has been changed and renamed to Configure Processing of Inbound ProductActivityNotification Data. In addition, the IMG activity has been moved from Exceptions -> Data Import Controller to Supply Network Collaboration -> Basic Settings -> Processing Inbound Outbound Messages.
1.6.2 Quick View (New)

Use

As of Supply Network Collaboration (SAP SNC) 7.0, you can use the quick view as your entry screen to the SAP SNC Web applications. The quick view displays application-specific key figures. The key figures indicate tasks you need to complete for various order documents, for example purchase orders that need to be confirmed. On the quick view, the system groups key figures into building blocks. Each building block contains key figures that are relevant to a particular application. The system splits the key figures by a specific split criterion that breaks the key-figure bars into segments, for example, by age, last change date, and so on. You can personalize the quick view so that it displays the building blocks on a global, business partner, or user level.

To complete daily tasks, you can navigate from a key-figure bar on the quick view to the relevant SAP SNC Web application.

In the standard system, we deliver building blocks and key figures for the following supplier collaboration scenario applications:

- Purchase Order
- Advanced Shipping Notification
- Invoice
- Scheduling Agreement Release
- Work Order

To access the quick view, on the SAP SNC Web UI, choose Exceptions -> Quick View.

Effects on Customizing

If you want to configure the quick view in a different way from the default that we deliver, you can assign building blocks at a global, business partner, or user level in Customizing for SAP Supply Network Collaboration under Basic Settings -> User Interfaces -> Configure Quick View.

1.6.3 Selection Using Product Group and Product Group Type (New)

Use
As of SAP Supply Network Collaboration (SAP SNC) 7.0, the Product Group and Product Group Type selection fields were added to the following Web screens:

- Forecast Overview
- Forecast Parameters
- Short-Term Forecasting
- Forecast Details
- Sales Forecast Details - Product View
- Promotion Planning
- Create Promotions
- Replenishment Order Overview
- Replenishment Order History
- ASN Overview
- ASN History
- Product Extension
- Location Product Extension
- Location Product Status
- Assign Rounding Unit to Product

1.6.4 SCM-ICH-MD Master Data

1.6.4.1 Inventory Management (Changed)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, inventory management has been enhanced: All location products are now stored with a new key for the batch number.

In addition, the reports for creating and deleting inventory data ( /SCA/DM_INV_CREATION, /SCA/DM_DELETE_INV) have been enhanced as follows:

- A new field for batch numbers has been added.
You can select the new **Query (Batch Aggregation)** option. In this case, the system displays the inventory data of location products according to your selection criteria. In the display of the results screen, however, it aggregates all the inventory that differs with regard to the batch number, but for which all other keys are the same.

### 1.6.4.2 Creating Users with Identity Management (New)

**Use**

As of SAP NetWeaver 7.0 Enhancement Package 1 and SAP Supply Network Collaboration (SAP SNC) 7.0, you can generate users in SAP SNC automatically using SAP NetWeaver Identity Management. The following use cases apply:

- **Creation of users and business partners for employees**
  A user administrator creates new employees in the Human Resources (HR) system. These employees work for the business partner running SAP SNC or, if SAP SNC is hosted by a third party, the employees work for the leading business partner in SAP SNC collaboration. The user creation in the HR system triggers the automatic creation of a new internal identity in the SAP NetWeaver Identity Management system. A user administrator assigns a business role to this new identity. As a result, SAP NetWeaver Identity Management triggers automatic user and business partner creation in SAP SNC for the employee.

- **Creation of users and business partners for external users**
  A user from an external business partner requests access to the SAP SNC system. The user administrator creates a new external identity in SAP NetWeaver Identity Management for the external user. Using SAP NetWeaver Identity Management, the new user of the external business partner is distributed to SAP SNC.

In all use cases, SAP NetWeaver Identity Management triggers the creation of a new user in SAP SNC as follows:

- Generation of a user in SAP SNC
- Generation of a business partner of type *Person* and with *Internet User* role, which is then assigned to the user
- Assignment of the business partner of type *Person* to a business partner of type *Organization* that represents the business partner to whom the user belongs
- Assignment of a visibility profile to the user (optional)

In addition, you can also change and delete users centrally with SAP NetWeaver Identity Management.
Prerequisite

You are using the SAP NetWeaver Identity Management 7.1 product under license.

Effects on System Administration

With the use of SAP NetWeaver Identity Management, automatic creation of new users is triggered by the SAP NetWeaver Identity Management system, so there is no need to create users manually in SAP SNC.

To be able to use SAP NetWeaver Identity Management, you must make an initial load of all existing user IDs, roles, visibility profiles, and business partner IDs from SAP SNC to the SAP NetWeaver Identity Management system.

Effects on Customizing

To be able to use SAP NetWeaver Identity Management, you must make the following settings in Customizing:

- You have defined which business partner of type Organization represents the leading business partner. The leading business partner is the customer in supplier collaboration or the supplier in customer collaboration. To do this, you use the Customizing activity Define Leading Business Partner for Identity Management.

- If there a multiple business partners of type Organization that represent the leading business partner in the system, you implement the Business Add-In (BAdI) /SCA/IDM_PARTNER_OWN with the Customizing activity BAdI: Determination of Leading Business Partner for Identity Management.

- You have mapped the form of address in Human Resources (HR) to the form of address of the business partner using the Customizing activity Assign HR Form of Address Key to Form of Address Keys of Business Partner.

See also


1.6.4.3 Location Product Status (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, functions for the location product status have been enhanced as follows:

- Automatic changes to the location product status can be customized.

- Maintenance of the location product status has been enhanced.

Automatic Change of the Location Product Status

In previous releases, SAP SNC automatically set the location product status from Active to Inactive or
from *Inactive* to *Discontinued* when the following conditions were met during inbound processing:

- The 2_MISSING_EAN/UPC validation check is active.
- The *ProductActivityNotification* message does not contain any data for this location product.

As of SAP SNC 7.0, you can determine in Customizing whether SAP SNC automatically sets the status to *Inactive* or *Discontinued* when the above conditions are met.

**Maintenance of the Location Product Status**

In previous releases, you could only maintain the status of single location products one at a time on the *Location Product Status* Web screen. As of SAP SNC 7.0, you can create, change, or delete the status of multiple location products in a mass maintenance. Moreover, on the *Location Product Status* Web screen, you can now search for location products by product group and by product group type.

**Effects on Customizing**

To prevent SAP SNC from automatically setting the location product status to *Inactive* or *Discontinued*, in Customizing, select the *No Inactive Status* checkbox. For more information, see Customizing for Supply Network Collaboration under Basic Settings -> Processing Inbound and Outbound Messages -> Configure Processing of Inbound ProductActivityNotification Data. In the standard system, the *No Inactive Status* checkbox is not selected, that is, inbound processing behaves as in previous releases.

**1.6.4.4 Roles (Enhanced)**

**Use**

As of SAP Supply Network Collaboration (SAP SNC) 7.0, you can use the following new roles:

- Purchase Order Processing (Supplier)
- Dynamic Replenishment (Supplier)
- ASN Maintenance (Supplier)
- Invoice Maintenance (Supplier)
- Replenishment Processing (Supplier)
- Release and Kanban Processing (Supplier)
- Outsourced Manufacturing: Planning (Supplier)
- Outsourced Manufacturing: Planning (Customer)
- Outsourced Manufacturing: Order Processing (Supplier)
- Outsourced Manufacturing: Order Processing (Customer)
- Supplier Collaboration: Superuser and Administrator (Supplier)
- Supplier Collaboration: Superuser (Customer)
- Supplier Collaboration: Administrator (Customer)
- Forecast Collaboration (Customer)
- Forecast Collaboration (Supplier)

In addition, the **Responsive Replenishment: Planner** role has been enhanced to incorporate all new **Responsive Replenishment** Web screens.

### 1.6.4.5 User Administration (New)

**Use**

As of SAP Supply Network Collaboration (SAP SNC) 7.0, you can use the application user administration on the SAP SNC Web UI to maintain users in the supplier and customer collaboration scenarios of SAP SNC. User administration facilitates the maintenance of users in the SAP SNC system, and offers a better overview of existing users and the roles they have been assigned.

You can create, change, delete, and assign roles to users on the following SAP SNC Web screens:

- **User Administration (Power Administrator)**  
  The **User Administration (Power Administrator)** Web screen allows a power administrator to maintain users for the business partner to whom he or she is assigned, as well as for the business partner with whom he or she is working.

- **User Administration (External Administrator)**  
  The **User Administration (External Administrator)** Web screen allows an external administrator to maintain users only for the business partner to whom he or she is assigned.

User administration sends automatically generated e-mails to communicate user-specific information, such as logon details and passwords. We deliver default e-mail texts for the e-mails. If you do not want to use the default e-mail texts, you can create e-mail texts with special reports.

**Effects on System Administration**

To run user administration, you must create and assign a power administrator to the business partner that runs the SAP SNC system. The power administrator is responsible for the user administration of the

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*SAP AG*
business partner who runs SAP SNC, as well as for creating external administrators, who maintain users for other business partners. You must also determine a mail administrator, for example the power administrator, who administers all automatically generated outbound e-mails, as well as inbound e-mails that relate to error messages from unsent e-mails.

You can use the following reports to create e-mail texts for the automatically generated e-mails:

- Welcome e-mail: Create Welcome E-Mails /SCA/PUM_WELCOME
- Password re-set e-mail: Create Password Re-Set E-Mails /SCA/PUM_PSWRESET

Effects on Customizing

To run user administration, you must first make the following settings in Customizing for SAP Supply Network Collaboration under Master Data -> User Administration.

In the Customizing activity Configure User Administration, you make the following settings:

- Assign roles at a global, business partner, or user level
- Determine a mail administrator
- Determine the e-mail texts of the automatically generated e-mails

In Customizing for SAP Supply Network Collaboration under Basic Settings -> URL Determination -> Determine URLs, you determine the URLs for user administration.

The following Business Add-Ins (BAdIs) are available in Customizing for SAP Supply Network Collaboration under Business Add-Ins (BAdIs) for SAP SNC -> Master Data -> User Administration:

- Enhancing the Logic After New User Creation
- Creating a User Name for a New User
- Setting the Validity for a New User

See also

User Administration in SAP Library for SAP Supply Network Collaboration under Master Data.

1.6.5 SCM-ICH-REL  Scheduling Agreement Release

1.6.5.1 New-Note Alerts for SA Releases (Changed)

Use

When you create a note for a scheduling agreement release or for a scheduling agreement confirmation, SAP Supply Network Collaboration (SAP SNC) can create an alert (alert type 7059). Previously, new-note alerts were generated by the Post Processing Framework (PPF), using the /SCA/BOL_REL_NEW_NOTES PPF action (/SCA/ICH_NOTES application, /SCA/BOL_REL_NOTES action profile).
As of SAP SNC 7.0, the standard system creates new-note alerts directly in the background (that is, without using PPF). The SCONF_NEW_NOTE_DIRECT validation check, which is active in the standard delivery, controls whether new-note alerts are created directly or by the PPF.

Effects on Customizing

If you want to continue using the previous method (alert generation by PPF), you must deactivate the validation check in Customizing for Validation.

1.6.6 SCM-ICH-PO  Purchase Order and Replenishment Order

1.6.6.1 XML Messages for Delivery Collaboration (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the DespatchDeliveryNotification XML message type has been enhanced with the following fields:

- ManufacturerParty
- ManufacturerID

This enhancement allows manufacturer part number data to be transferred as part of an advanced shipping notification.

1.6.6.2 Control of Actions for Purchase Order and Replenishment Order (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, validation checks can trigger the generation of the following alerts in the background.
Purchase Order Alerts

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Alert ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchase Order Rejected</td>
<td>7036</td>
</tr>
<tr>
<td>Purchase Order Item rejected</td>
<td>7037</td>
</tr>
<tr>
<td>Partially Confirmed Purchase Order Item</td>
<td>7053</td>
</tr>
<tr>
<td>Late Confirmation of Purchase Order Item</td>
<td>7054</td>
</tr>
<tr>
<td>Manual Approval of Confirmation Required</td>
<td>7055</td>
</tr>
<tr>
<td>Manual Approval of Component Requirement required</td>
<td>7056</td>
</tr>
<tr>
<td>Confirmation Rejected</td>
<td>7057</td>
</tr>
<tr>
<td>Component Requirement Rejected</td>
<td>7058</td>
</tr>
<tr>
<td>New Note for Purchase Order</td>
<td>7059</td>
</tr>
</tbody>
</table>

Replenishment Order Alerts

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Alert ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmation of Replenishment Order Item Was Rejected</td>
<td>7126</td>
</tr>
<tr>
<td>Partially Confirmed Replenishment Order Item</td>
<td>7124</td>
</tr>
<tr>
<td>Too-Late Confirmation of Replenishment Order Item</td>
<td>7125</td>
</tr>
</tbody>
</table>

The system can also connect to the supplier delivery performance rating (SDPR) in the background based on the PPF configuration.

To generate these alerts and to connect to SDPR in the background, you must deactivate the following validation checks:

- For purchase orders: PO_PPF_EXEC
- For replenishment orders: RO_PPF_EXEC.

If you have specified that the system generates these alerts in the background, you can still deactivate each alert individually or deactivate the SDPR connection by selecting the Inactive checkbox in the PPF for the relevant PPF action.

Effects on Customizing

You activate and deactivate these validation checks in Customizing for Supply Network Collaboration by choosing Basic Settings -> Validation -> Own Settings -> Maintain Settings in Validation Profiles.

You can make PPF settings in Customizing for Supply Network Collaboration by choosing Tools -> Actions (Post Processing Framework) -> Define Action Profiles and Definitions and editing the
1.6.6.3 Purchase Order XML Messages (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, new XML messages are available for sending and receiving purchase order data. In addition, the existing XML messages include new fields that support the new processes in purchase order collaboration.

New XML Messages

Previously, SAP SNC could only use the following XML messages for the processes in purchase order collaboration:

- ReplenishmentOrderNotification for receiving a new or changed purchase order from the customer back-end system
- ReplenishmentOrderConfirmation for sending a purchase order confirmation to the customer back-end system
- ReplenishmentOrderNotification for sending a changed purchase order to the customer back-end system

As of SAP SNC 7.0, you can send and receive the following XML message types for purchase order collaboration instead:

- PurchaseOrderERPReplenishmentOrderCollaborationNotification for receiving a new or changed purchase order from the customer back-end system
- PurchaseOrderERPRequest_V1 for sending a changed purchase order to the customer back-end system

The new XML messages provide integration with a customer's SAP ERP back-end system that is enhancement package 4 for SAP ERP. If you want to use the new XML messages, you must deactivate the PO_PURORDERPREQ_SEND validation check. Note, that the ReplenishmentOrderConfirmation XML message is still used for receiving and sending purchase order confirmations.

New Fields in the existing XML Messages

As of SAP SNC 7.0, the following existing XML message types have been enhanced with the following fields:

- ReplenishmentOrderNotification
  - ManufacturerParty
  - ManufacturerID
  - ConfigurationPropertyValuation
1.6.6.4 Batches and Configuration in Purchase Order Collaboration (Enhanced)

Use

The customer batch number was already available previously in purchase orders, as follows:

- For the product at item level
- For the subcontracting components at component level

The customer creates a customer batch in his or her back-end system and sends the customer batch number in the purchase order to SAP Supply Network Collaboration (SAP SNC). On the Web screens for the purchase order, the customer batch number was previously called "batch number". When the supplier creates a purchase order confirmation in SAP SNC, he or she can specify a different customer batch number for a subcontracting component. (The batch number of a subcontracting component is, however, not subject to an approval by the customer. In purchase order collaboration with approval process, if the system copies the confirmation data of the supplier to the request schedule lines, it also copies the customer batch number.)

As of SAP SNC 7.0, the following enhancements exist for purchase orders:

- The customer can transfer characteristic values in the purchase order for a customer batch or for a configurable product.
  You can display the characteristic values on the Purchase Order Details Web screen on the new Batches and Characteristics tab page.

- In the purchase orders, the supplier batch number now exists as well. The customer can transmit the supplier batch number in the purchase order to SAP SNC. (In SAP ERP, the corresponding batch number at PO item level is called "vendor batch number").

- To differentiate easily between the supplier batch number and the customer batch number previously called "batch number", the term "batch number" was changed to "customer batch number".
Note that the purchase order in SAP ERP can only save the batch number and the characteristic values for the product configuration at item level. The characteristic values for the batch classification are not saved in the purchase order. Further restrictions for the data that an SAP ERP system can send to SAP SNC are the result of certain IDocs (see the IDocs section). If you want to send characteristic values for batch classification from an SAP ERP back-end system to SAP SNC, you have to use the new XML message PurchaseOrderERPReplenishmentOrderCollaborationNotification (see below).

IDocs

In the standard SAP ERP system, the following IDocs (which are mapped in the standard to the ReplenishmentOrderNotification XML message) can send characteristic values for product configuration at item level (but no batch and no characteristic values for the batch classification):
- ORDERS.ORDERS05 (IDoc for a new purchase order)
- ORDCHG.ORDERS05 (IDoc for a changed purchase order)

Note that these IDocs cannot transmit the format of a characteristic (such as numeric format or date format). They transmit a characteristic value as character string. Therefore, also the ReplenishmentOrderNotification XML message to which these IDocs are mapped only contains the character string for a characteristic. (The ReplenishmentOrderNotification itself, however, can transmit the format.) Upon receipt of the ReplenishmentOrderNotification, SAP SNC determines the format information from the characteristic master data.

The following IDocs, which you use for purchase order collaboration with approval process, can send batches but no characteristic values:
- PORDCH.PORDCH02
- PORDCR1.PORDCR102

These IDocs can send the customer batch and supplier batch at item level, and the customer batch at component level.

XML Message ReplenishmentOrderNotification

The XML message ReplenishmentOrderNotification (RON), which you could previously use to send purchase orders to SAP SNC, was enhanced accordingly: As of SAP SNC 7.0, the RON contains new fields with which you can use to send characteristic values for the customer batch or product configuration to SAP SNC for a product at item level or for a subcontracting component. In the standard system, SAP SNC interprets the characteristic values for an item or subcontracting component in a ReplenishmentOrderNotification as follows:
- If a batch is specified for a product, SAP SNC interprets the characteristic value as batch classification.
- If no batch is specified, SAP SNC interprets the product as configurable product and the characteristic values as product configuration data.

XML Message PurchaseOrderERPReplenishmentOrderCollaborationNotification

As of enhancement package 4 for SAP ERP, an SAP ERP back-end system can create the XML message PurchaseOrderERPReplenishmentOrderCollaborationNotification (POERPROCN) for a purchase order and send it directly to SAP SNC via XI (in other words, without IDoc or mapping).

The new XML message contains fields at item level for a batch and for characteristic values. It can therefore send characteristic values at item level for the product configuration or for the batch
classification. In SAP ERP, the purchase order does not contain any characteristic values for batch classification, therefore the new service writes characteristic values for batch classification directly into the XML message.

In the standard system, SAP SNC interprets the characteristic values in an item of the POERPROCN as follows:

- If a batch is specified, SAP SNC interprets the product as a product subject to a batch management requirement, and the characteristic values as batch classification.
- If no batch is specified, SAP SNC interprets the product as configurable product and the characteristic values as product configuration data.

On component level, the XML message can transmit the batch and the batch classification for a subcontracting component (but no characteristic values for the product configuration).

SAP-SNC-Internal Management of Batches and Characteristics

The XML messages send the data at item level, and SAP SNC displays the data on item level. Internally, however, SAP SNC manages the data at schedule line level.

Master Data

For SAP SNC to be able to process the characteristics of a classified batch-managed product or of a configurable product (for example, display the characteristics description dependent on language), the characteristics and classes to which the characteristics belong must exist in the SAP SNC system (class type 300 for a configurable product, class type 232 for a batch-classified product). In addition, you must assign the class to the product. You can create classes and characteristics manually in SAP SNC in the classification system.

Integration of Classes and Characteristics with SAP ERP

If you are using an SAP ERP system as your back-end system, you can transfer ERP master data, in particular, materials, classes and characteristics, to SAP SNC via Core Interface. (For configurable materials in SAP ERP, you use classes of class type 300. For classified batch-managed materials, you use classes of class type 023.)

Up to now, batch classes and classified batch-managed materials were integrated as follows:

- When you transfer a class of class type 023 and its characteristics to an SCM system, the class is automatically created in the SCM system with the class type 230.
- When you transfer a batch-classified material (a class of batch class type 023 is entered in the material master) to an SCM system, the material is created in the SCM system as a non-classified product. In other words, the class type 230 is not entered in the product master.

As of SAP SNC 7.0, batch classes and classified batch-managed materials are integrated as follows, if SAP SNC is installed in the system instance:

- When you cif a class of class type 023 and the assigned characteristics to the SCM system, a class of class type 230 is created in the SCM system with the characteristics assigned to it. (A class of class type 230 is needed by SAP APO only). In addition, a class of class type 232 is created for use in SAP SNC. The class type 232 is assigned the class type 230 as reference class type. Using the class type 230 as reference class type, a relationship is established between the SAP SNC class type 232 and the SAP ERP class type 023.
- When you cif a batch-managed classified material to the SCM system, a classified product is created which is assigned the class with the class type 232.
1.6.6.5 Purchase Order Screens and Replenishment Order Screens (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the layouts of the following purchase order screens and replenishment order screens have been enhanced:

- Purchase Order Details
- Create Replenishment Order
- Replenishment Order History
- Purchase Order History

The screens are divided into areas that correspond to the structure of a purchase order.

1.6.6.6 Due Schedule Lines (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the system can calculate an ASN-based due quantity for the confirmation schedule lines (type Confirmed) of a purchase order item. This enables the customer and supplier to see the quantity of the purchase order that has been confirmed by the supplier but has not yet been covered by advanced shipping notifications. The ASN-based due quantity for the confirmation schedule lines can be displayed in the due list for purchasing documents. The system can copy the ASN-based due quantity from either the request schedule line, the confirmed schedule line, or from the due list for purchasing documents.
Enhancements to the Due List for Purchasing Documents

Previously, the Due List for Purchasing Documents screen showed the ASN-based due quantity for the request schedule lines. As of SAP SNC 7.0, you can specify in Customizing whether the Due List for Purchasing Documents screen shows the ASN-based due quantity from the request schedule lines or from the Confirmed schedule lines. In addition, you can also decide whether request or confirmed schedule lines are the source of the displayed manufacturer part number data and batch information. The default setting is that data from the request schedule lines is displayed.

Enhancements to ASN Creation

When the supplier creates an advanced shipping notification (ASN) for a purchase order item, the system fills the data in the ASN, such as due quantity, manufacturer part number data, and batch information, considering the relevant schedule line type set in Customizing. When you specify in Customizing that the relevant schedule line type is the Confirmed schedule line type, the system fills the data in the ASN as follows:

- Creating an ASN for a purchase order item on the PO Details screen
  The system copies the ASN-based due quantity, manufacturer part number data, and batch information from the due confirmation schedule line to the ASN if the ASN-based due quantity is stored in the confirmation schedule line. If no ASN-based due quantity is available in the confirmation schedule line, the data from the due request schedule line is used. If no confirmation schedule line of type Confirmed exists, then the ASN uses the data from the due request schedule line.

- Creating an ASN for a purchase order schedule line on the PO Details screen
  The system copies the ASN-based due quantity, manufacturer part number data, and batch information from the selected schedule line to the ASN. The system does this regardless of the Customizing setting for relevant schedule line types.

- Creating an ASN for a purchase order item on the Due List for Purchasing Documents screen
  The system copies the ASN-based due quantity, manufacturer part number data, and batch information that is displayed on the Due List for Purchasing Documents screen to the ASN.

Effects on Existing Data

If you have existing purchase orders that are open or partially delivered, you can update the ASN-based due quantity for the confirmation schedule lines by running the Calculate ASN-Based Due Quantity in Confirmed Schedule Lines of PO (/SCA/PO_ASNDUEQTY_CONF_CALC) report.

Effects on Customizing

You specify whether the due list for purchasing documents and the creation of ASNs triggered from this screen should use data from the confirmation schedule line or from the request schedule line, in the Customizing activity Determine Due Schedule Line Quantities.
1.6.6.7 Manufacturer Part Number (New)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, a customer can request a specific manufacturer part number (MPN) and manufacturer in a purchase order to procure a particular product. This means that if the supplier procures a product from various manufacturers, the customer can specify the preferred manufacturer and manufacturer part number for the product in a purchase order. A supplier can confirm manufacturer part data in a purchase order confirmation and advanced shipping notification (ASN) as is or by using a different approved manufacturer and manufacturer part number.

To ensure that only manufacturer part data approved by the customer is used for the product, a customer can maintain an approved manufacturer parts list (AMPL) on the SAP SNC Web UI or on the SAP Easy Access screen. This list specifies which manufacturers and manufacturer part numbers are acceptable for a given period and for a combination of customer location, supplier, ship-from location, and product.

When a supplier confirms purchase order items or schedule lines, and when he or she creates advanced shipping notifications, he or she can only use manufacturer part data that is entered in the AMPL and that is valid for the purchase order being confirmed.

Integration with an SAP ERP Back-End System

You can transfer data from an AMPL in SAP ERP to SAP SNC using the Core Interface (CIF). AMPL integration is available when using enhancement package 4 for SAP ERP, with the Outsourced Manufacturing business function activated.

Effects on Customizing

To use manufacturer part number confirmations, you must make settings for purchase orders and/or ASNs depending on your requirements. You make these settings in Customizing for Supply Network Collaboration under Purchase Order -> Make General Settings for Purchase Orders by creating and assigning an approval profile that contains your MPN confirmation settings.

1.6.6.8 Price Confirmation (New)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, a supplier can confirm a price that differs from the requested price in a purchase order item. A customer can specify tolerances within which the confirmed price can lie, and the system uses deviation analysis to check that these tolerances are not
breached. The system can call deviation analysis to check the confirmed price by using a validation check. For this purpose, a consensus profile, rule, and permissible class are available in the standard system. In Contract Manufacturing scenarios, SAP SNC can copy the confirmed price to the requested price of a purchase order item and send a purchase order update to the back-end system.

Effects on Customizing

To use price confirmations, you must activate price confirmations in Customizing for Supply Network Collaboration under Purchase Order -> Make General Settings for Purchase Orders by creating and assigning an approval profile that contains an active price confirmation setting.

To use deviation analysis, you must create a price profile in Customizing for Supply Network Collaboration under Basic Settings -> Consensus Finding -> Consensus Profiles -> Maintain Consensus Price Profiles, and assign this to a consensus rule in Customizing for Supply Network Collaboration under Basic Settings -> Consensus Finding -> Maintain Consensus Rules.

1.6.6.9 Technical Basis for Web UI Screens (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0 the following screens on the Web user interface (Web UI) have been converted to Web Dynpro technology:

- Create Replenishment Order
- Purchase Order - Details (Supplier View)
- Purchase Order - Details (Customer View)
- Purchase Order - Details (Goods Recipient)
- Purchase Order - Details History (Supplier View)
- Purchase Order - Details History (Customer View)
- Replenishment Order - Details (Supplier View)
- Replenishment Order - Details (Customer View)
- Replenishment Order - Details History (Supplier View)
- Replenishment Order - Details History (Customer View)
- Purchase Order - Details (Supplier View)
- Purchase Order - Details (Customer View)
- Replenishment Order - Details History (Supplier View)
1.6.6.10 Purchase Order Worklist (Enhanced)

**Use**

In the previous release, the supplier created confirmation schedule lines (type *Confirmed*) in the *To Be Confirmed* query. The supplier then published confirmation schedule lines in the *To Be Published* query. The supplier was able to confirm the complete quantity and date as requested in a schedule line by selecting the *CCQ (Confirm Complete Quantity)* checkbox for a schedule line.

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the following features are available:

- The supplier can use the *Confirmation Due List* query to create and publish purchase order confirmations for purchase order items with a confirmation-based due quantity greater than 0 as follows:
  - If a purchase order item only contains a maximum of one request schedule line and one confirmation schedule line (type *Confirmed*), the supplier can edit purchase order confirmation data at item level.

The following screens display data based on personal object worklists (POWL):

- *Due List for Purchasing Documents*
- *Receipts and Requirements List*

Pre-configured queries are delivered with these new POWL screens. Both the due list for purchasing documents and the receipts and requirements list have a default query for the initial overview, in addition to a query as a default navigation target when the user navigates from the *Quick View* screen to the list.
- If a purchase order item contains multiple schedule lines, the supplier can edit confirmation data at schedule line level by calling up a pop-up window.

- The supplier can choose to confirm all confirmable data (such as price, date, MPN, and quantity) as requested for an item or schedule line by selecting the Confirm As Requested checkbox before saving.

- The supplier can reject items by selecting the Reject checkbox for an item before saving.

- The supplier can use the Change Confirmation List query to change and publish purchase order confirmations that have already been published. The options available in this query are the same as for the Confirmation Due List query.

- The supplier saves and publishes purchase order confirmation data at item level in one step using the Save & Publish pushbutton in the Confirmation Due List query and Change Confirmation List query.

Effects on Customizing

If you want to continue using a two-step method for saving and publishing purchase order confirmation data (as in SAP SNC 5.1), you must make this setting in Customizing for Supply Network Collaboration under Purchase Order -> Make General Settings for Purchase Orders. Furthermore, on the SAP SNC Web UI, you must define a new query for publishing saved purchase order confirmations. For more information see the documentation for this Customizing activity and the application help for Purchase Order Worklist.

1.6.7 SCM-ICH-ASN Advanced Shipping Notification

1.6.7.1 XML Messages for Delivery Collaboration (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the DespatchDeliveryNotification XML message type has been enhanced with the following fields:

- ManufacturerParty
- ManufacturerID

This enhancement allows manufacturer part number data to be transferred as part of an advanced shipping notification.
1.6.7.2 Due Schedule Lines (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the system can calculate an ASN-based due quantity for the confirmation schedule lines (type Confirmed) of a purchase order item. This enables the customer and supplier to see the quantity of the purchase order that has been confirmed by the supplier but has not yet been covered by advanced shipping notifications. The ASN-based due quantity for the confirmation schedule lines can be displayed in the due list for purchasing documents. The system can copy the ASN-based due quantity from either the request schedule line, the confirmed schedule line, or from the due list for purchasing documents.

Enhancements to the Due List for Purchasing Documents

Previously, the Due List for Purchasing Documents screen showed the ASN-based due quantity for the request schedule lines. As of SAP SNC 7.0, you can specify in Customizing whether the Due List for Purchasing Documents screen shows the ASN-based due quantity from the request schedule lines or from the Confirmed schedule lines. In addition, you can also decide whether request or confirmed schedule lines are the source of the displayed manufacturer part number data and batch information. The default setting is that data from the request schedule lines is displayed.

Enhancements to ASN Creation

When the supplier creates an advanced shipping notification (ASN) for a purchase order item, the system fills the data in the ASN, such as due quantity, manufacturer part number data, and batch information, considering the relevant schedule line type set in Customizing. When you specify in Customizing that the relevant schedule line type is the Confirmed schedule line type, the system fills the data in the ASN as follows:

- Creating an ASN for a purchase order item on the PO Details screen
  The system copies the ASN-based due quantity, manufacturer part number data, and batch information from the due confirmation schedule line to the ASN if the ASN-based due quantity is stored in the confirmation schedule line. If no ASN-based due quantity is available in the confirmation schedule line, the data from the due request schedule line is used. If no confirmation schedule line of type Confirmed exists, then the ASN uses the data from the due request schedule line.

- Creating an ASN for a purchase order schedule line on the PO Details screen
  The system copies the ASN-based due quantity, manufacturer part number data, and batch information from the selected schedule line to the ASN. The system does this regardless of the Customizing setting for relevant schedule line types.

- Creating an ASN for a purchase order item on the Due List for Purchasing Documents screen
  The system copies the ASN-based due quantity, manufacturer part number data, and batch
information that is displayed on the *Due List for Purchasing Documents* screen to the ASN.

**Effects on Existing Data**

If you have existing purchase orders that are open or partially delivered, you can update the ASN-based due quantity for the confirmation schedule lines by running the *Calculate ASN-Based Due Quantity in Confirmed Schedule Lines of PO* (/SCA/PO ASNDUEQTY_CONF_CALC) report.

**Effects on Customizing**

You specify whether the due list for purchasing documents and the creation of ASNs triggered from this screen should use data from the confirmation schedule line or from the request schedule line, in the Customizing activity Determine Due Schedule Line Quantities.

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**1.6.8 SCM-ICH-WO Work Order**

**1.6.8.1 Batches and Configuration in Work Order Collaboration (Enhanced)**

**Use**

Previously, the following batch numbers were available in the work order:

- **Customer batch number**
  This batch number is relevant for the primary product of the work order. The work order copies the customer batch number from the purchase order item for which the work order was created. You cannot change the customer batch number in SAP Supply Network Collaboration (SAP SNC).

- **Component batch number**
  This batch number is relevant for input components. Using the component batch number, the customer can propose in a planned phase input which component batch the supplier is to use to produce the finished product. When the supplier reports actual data for an input component, he or she can enter the component batch number that he or she actually used.
  The work order can copy the component batch from the subcontract order for which the work order was created (provided the subcontract order transmits the batch number for the component, which was not possible previously with an SAP ERP back-end system). In SAP SNC, the customer can enter the component batch number manually in the work order.

Batch usage data, batch characteristic values, or characteristic values for a configurable product were not available in the work order. As of SAP Supply Network Collaboration (SAP SNC) 7.0, the work order was enhanced as described in the following sections.

**Batch Numbers**

The batch numbers were enhanced as follows:

- **Customer batch number and component batch number**
The component batch number is now called "customer batch number". As of SAP SNC 7.0, "customer batch number" is the general term for a batch number that the customer uses to identify a particular batch of a subcontracting component, a primary product, or a co-product.

- Supplier batch number
  In addition to the customer batch number, a Supplier Batch Number field is now available for a finished product (primary product or co-product). In this field, the supplier can enter the batch number that he or she uses for a particular finished-product batch.

Previously, the Component Batch Number field was ready for input and the customer or supplier could enter any batch number for a component. As of SAP SNC 7.0, the field for the customer batch number for a component is only ready for input if the component is batch-managed. (A product is batch-managed if the customer has selected the Batch Mgmt Req checkbox in the product master of SAP SNC.) The same applies to the fields for the supplier batch number for finished products: Only if a finished product is batch-managed and the customer has selected the Batch Mgmt Req checkbox in the product master of SAP SNC, are the fields for the supplier batch number ready for input. Note that the customer batch number for a co-product or primary product is never ready for input.

Mandatory Batch Numbers
As of SAP SNC 7.0, the customer can determine whether the supplier must specify batches when reporting actual data for a batch-managed product. To do so, the customer uses the following checkboxes in work order configuration:

- Supplier Batch for Primary Product
- Supplier Batch for Co-Product
- Customer Batch for Component

When the customer selects a checkbox, the corresponding batch number field is mandatory for the supplier when reporting actual data. Otherwise, the corresponding batch number is optional. Note that the checkboxes do not impact work order confirmations or the customer's planned work order data. For work order confirmations or planned work order data, batch numbers are always optional.

Customer Batches Available for Components
As of SAP SNC 7.0, the customer must determine in the work order configuration which component batches are available for use in the work order. The batches can come from the following sources:

- Subcontract order
- Work order
- Inventory data that the customer or the supplier sent from their back-end system to SAP SNC

The SAP ERP back-end reports for outsourced manufacturing were enhanced accordingly.

The customer and the supplier are only allowed to use these batches for the work order components. If the customer does not make settings in the work order configuration, the customer and the supplier can not enter customer batches for components in the work order.

Batch Numbers in XML Messages
A supplier can also provide work order confirmations or actual data by sending an XML message from the supplier back-end system to SAP SNC. To make sure that the supplier provides the mandatory batch numbers and that he or she only uses allowed component batches, the customer must activate the
corresponding validation checks. For more information, see the Effects on Customizing section.

**Characteristic Values for Batch Classification and Product Configuration**

The work order can now handle the characteristic values for a configurable primary product, a batch-classified primary product, or a batch-classified component. The customer transmits the characteristic values in the purchase order to SAP SNC. During work order creation, the work order adopts the characteristic values from the purchase order.

In SAP SNC, you cannot change the characteristic values of a configurable primary product or a batch-classified component. However, when reporting actual data for a batch-classified finished product (primary product), the supplier can provide characteristic values for the supplier batch. To handle characteristics, the relevant classes and characteristics must be available in SAP SNC. For more information about master data, see the Release Note Batches and Configuration in Purchase Order Collaboration (Enhanced).

Note that for a historic version of the work order the work order history only displays the characteristic values that currently exist in SAP SNC for a particular batch or for a configurable product. SAP SNC likewise does not archive the batch classification or the configuration.

**Batch Usage**

When reporting actual data for a component batch, the supplier can specify the finished-product batches that use that component batch.

**XML Message Enhancements**

The XML messages for work order collaboration were enhanced by the fields that are required for the new features described above. For an input component, the XML messages include fields for the following data:

- Batch usage
- Batch characteristic values

For an output component, the XML messages include fields for the following data:

- Batch characteristic values
- Configuration characteristic values

Note: The data that the customer back-end system can actually send to SAP SNC depends on the customer back-end system, the messages used, and the mapping.

**Effects on System Administration**

If you have previously used batches for a product, do the following after the upgrade:

- If the product was not batch-managed before, select the Batch Mgmt Req (Batch Management Requirement) checkbox in the product master. Otherwise the batch fields are not ready for input in the work order after the upgrade.

- In the work order configuration, determine which component batches are allowed for the work order.

Note for work orders that you created before the upgrade: When determining the batches available for a work order after the upgrade, the system does not consider the batch numbers that were entered in the work order before the upgrade.

**Effects on Customizing**
As of SAP SNC 7.0, the following validation checks are available for XML messages that the supplier uses to send work order confirmations or actual data to SAP SNC:

- **Batch Number Is Valid** *(WO_BATCH_ID_INVALID)*
  This validation check checks if the batch number for a batch-managed component is valid. A batch number is valid if it is included in the list of component batches that are available for use in the work order.

- **Batch Number Is Specified** *(WO_BATCH_ID_MISSING)*
  This validation check checks if the work order confirmation provided a batch number for a batch-managed product for which the batch number is mandatory according to the work order configuration.

The validation checks are active in the standard system. You can check the settings for validation in Customizing for *Supply Network Collaboration* by choosing *Validation*.

Note that the validation checks are not relevant for batch numbers that the supplier enters on the work order Web screens: On the Web screens, the supplier can only ever enter a valid batch for a batch-managed subcontracting component. Additionally, the supplier is always requested to enter a batch number if work order configuration requires a batch number.

See also

- Release Note *Batches and Configuration in Purchase Order Collaboration (Enhanced)*
- Release Note *Sending Work Orders to Customer Back-End System (Enhanced)*
- Release Note *Inventory in SMI and Outsourced Manufacturing (Enhanced)*

### 1.6.8.2 Sending Work Orders to Customer Back-End System (Enhanced)

#### Use

When the customer publishes a work order in SAP Supply Network Collaboration (SAP SNC), SAP SNC can automatically send the work order to the customer back-end system and to the supplier back-end system. To send the work order to a customer back-end system, SAP SNC previously used the work order information, which was transmitted using a *ManufacturingWorkOrderInformation* XML message type. An SAP ERP system could not receive that message.

As of SAP SNC 7.0, an additional message is available to update the customer back-end system: the production progress notification (PPN). In contrast to a work order information a production progress notification only transmits delta quantities for the actual phase inputs or phase outputs (actual PIOs) of the work order. The delta quantity for an actual PIO is the quantity by which the actual PIO quantity has changed since the last PPN was sent. The customer back-end system can use the data to track the production progress. SAP SNC transmits the message using the new XML message type *ManufacturingWorkOrderProductionProgressNotification*.

**Integration with an SAP ERP System**

As of enhancement package 4 for SAP ERP 6.0, an SAP ERP system can receive PPNs (provided that you have activated the *Outsourced Manufacturing* (LOG_MM_OM_01) business function in the SAP ERP
Sending Options

In the work order configuration of SAP SNC, you can determine whether and when the system automatically creates and sends a PPN to the customer back-end system. The following options are available to you:

- The PPN can never be created or sent, neither automatically nor manually.
- The system creates the PPN when the supplier or the customer reports that a phase has been completed.
- The system creates the message each time the supplier or customer creates or changes an actual phase input or phase output and saves the work order.

To improve the performance and save database space, in SAP SNC 7.0 the same configuration options were made available for work order information messages in the work order configuration.

Phase Completion

The ManufacturingWorkOrderInformation XML message can now transmit the information that a phase was completed (CompletedIndicator field). The new ManufacturingWorkOrderProductionProgressNotification XML message includes a CompletedIndicator field at header level that indicates that the work order is completed.

Effects on Customizing

For the message interface ManufacturingWorkOrderProductionProgressNotification_Out, the Business Add-In (BAdI)/SCA/BIF_O_WORKORD_P is available. You can use this BAdI to change or extend data transferred via the message interface in outbound message processing. You can call up the BAdI in Customizing for Supply Network Collaboration under Business Add-Ins (BAdIs) for SAP SNC -> Basic Settings -> Processing Inbound and Outbound Messages -> BAdIs for Message Interfaces (Outbound XML Messages) -> BAdI for ManufacturingWorkOrderProductionProgressNotification_Out.

1.6.8.3 Splitting of Deliveries (Enhanced)

Use

Using the Split Delivery negotiation function in the delivery overview, you could previously split a delivery into two deliveries (depending on the business partner role in two request deliveries or two confirmation deliveries). As of SAP Supply Network Collaboration (SAP SNC 7.0), you can split a delivery into multiple deliveries.
1.6.8.4 Work Order Worklist (New)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, you can use the new work order worklist if you want to report actual data for multiple work orders and phases simultaneously. You call up the work order worklist in the Web application menu for SAP SNC under Work Order.

1.6.9 SCM-ICH-IV

1.6.9.1 Invoice Alerts (New)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the following alert types are available:

- **Exception in Invoice Validation (7130)**
  This alert indicates an exception in the validation of an invoice.

- **Payment Past Due (7131)**
  This alert indicates that the due date for payment of an unpaid published invoice has passed. This alert is generated by the Generate Alerts for Invoices (/SCA/INVOICE_ALERT) report.
  When a payment notification is received in SAP SNC, the system deletes any Payment Past Due alert that exists for the corresponding invoice.

You view invoice-relevant alerts in the new Invoice alert category of the Alert Monitor.
Effects on System Administration

To generate alerts for payments past due, the system administrator must regularly run the Generate Alerts for Invoices (/SCA/INVOICE_ALERT) report.

1.6.10 SCM-ICH-IMO Inventory Monitor

1.6.10.1 Inventory in SMI and Outsourced Manufacturing (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0 and enhancement package 4 for SAP ERP 6.0, the following enhancements are available:

- You can transmit stock in transfer from SAP ERP to SAP SNC and consider it in Supply Network Inventory (SNI) and Supplier Managed Inventory (SMI). 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, which is relevant for SNI only. 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. To support these stock types in SAP SNC, the relevant functions and objects were enhanced as described below.

- You can transmit individual batch inventories for batch-managed inventories including batch classification.

ProductActivityNotification (PROACT)

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 (internal batch ID, supplier batch ID, and customer batch ID). In addition, the message now can transmit characteristic values for a batch.

Reports for Data Transfer from SAP ERP to SAP SNC

The reports for transferring data from SAP ERP to SMI or SNI were enhanced as follows:

- **Report for data transfer to SMI**
  The Data Transfer from ERP to SNC for SMI, RP, DR (RSMIPROACT2) report includes selection parameters for stock in transfer between plants and stock in transfer between storage locations. (Note that the ProductActivityNotification XML message only transmits the total stock in transfer.)
- Reports for data transfer to SNI
  The following reports include selection parameters for stock in transfer between plants, stock in transfer between storage locations, and for subcontracting stock in transfer.
  - Data Transfer for Contract Manufacturing (Own Data) (ROEMPROACT2)
  - Data Transfer for Contract Manufacturing (Partner Plant) (RPRTPROACT)

  Note that you can select stock in transfer between plants or between storage locations individually. However, the ProductActivityNotification XML message transmits the total of these stock types.

  The report Data Transfer for Contract Manufacturing (Partner Data) (RCMPROACT2) report contains a selection parameter for subcontracting stock in transfer.
  If you want to use these report enhancements, you must activate the SAP ERP business function Outsourced Manufacturing (LOG_MM_OM_1).

Transfer of Individual Batches

The following reports for data transfer to SNI now include an Individual Batches checkbox:
  - Data Transfer for Contract Manufacturing (Own Data) (ROEMPROACT2)
  - Data Transfer for Contract Manufacturing (Partner Data) (RCMPROACT2)

  If you select the checkbox, the reports transmit the individual batches including batch number and batch classification values for a batch-managed material. Previously, you could only transmit the aggregated batch quantity for a selected batch-managed material (without batch numbers or classification values).

  If you want to use these report enhancements, you must activate the SAP ERP business function Outsourced Manufacturing (LOG_MM_OM_1).

  Note: If you have transmitted inventory previously and you now want to use the new option and transmit individual batches, you must first reset the inventory in SAP SNC, using the Reset Inventory to Zero report (/SCA/DM_RESETINV) report. This is to prevent stock values for a batch-managed material from existing twice in SAP SNC (aggregated value and values for the individual batches).

Changes on the Web Screens of the SMI Monitor and SNI Monitor

  In the SMI Monitor, the following stock types are displayed:
  - Stock in transfer
  - Consignment stock in transfer

  In the SNI Monitor, the following stock types are displayed:
  - Stock in transfer
  - Consignment stock in transfer
  - Subcontracting stock in transfer
  - Consignment subcontracting stock in transfer

  Stock in transfer and subcontracting stock in transfer are included on the new Inventory Overview screen for SNI, for example.
Stock on Hand and Projected Stock

As of SAP SNC 7.0, the following enhancements are available:

- Calculating the stock on hand
  The stock on hand is part of the default formula for calculating the projected stock. The default stock on hand in the projected stock formula for SMI, Responsive Replenishment, and Delivery Control Monitor now also includes the stock in transfer and the consignment stock in transfer. The default coding for the Business Add-In (BAdI) Calculation of Stock on Hand (/SCA/ICH_STOCKONHAND) was enhanced accordingly.

- Defining own profiles for projected stock
  You can add the new stock types to your projected stock profiles in Customizing for Projected Stock if needed.

- Standard profiles for the projected stock
  The following SAP standard profiles for calculating the projected stock (listed in the Customizing activity Display Standard Profiles for Projected Stock) now also include the stock in transfer and the subcontracting stock in transfer:
  - ASN
  - RODP
  - RODP_ASN
  - ROP
  - ROP_ASN

1.6.10.2 Data in the Min/Max Replenishment Monitor (Enhanced)

Use

Previously, the Details screens of the Min/Max Replenishment Monitor displayed the Firm Receipts (Published - Due) key figure. This key figure indicates the total due quantity (quantity not covered by ASNs) from published replenishment orders. As of SAP Supply Network Collaboration (SAP SNC) 7.0, the Details screen shows an additional key figure: The Firm Receipts (Unpublished - Due) key figure is related to unpublished replenishment orders that have a due quantity.
1.6.10.3 Data in the RR Monitor (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the Responsive Replenishment Monitor (RR Monitor) displays new data.

New Key Figures on the RR Details Screen

Previously, the Firm Receipts (Due) key figure was available on the Details screen. The Firm Receipts (Due) key figure indicates the due quantity (quantity not covered by ASNs) of unpublished and published replenishment orders. In SAP SNC 7.0, this key figure was replaced by the following new key figures that are related to unpublished and published replenishment orders:

- Firm Receipts (Unpublished - Due)
- Firm Receipts (Published - Due)

In addition, the following new key figures are available to you:

- Projected Stock (Firm)
  This key figure represents a projected stock that only considers firm receipts, that is, published replenishment orders. The firm projected stock does not take into account unpublished replenishment orders or planned replenishment orders (planned receipts).

- Days' Supply (Firm)
  This key figure indicates how many days the firm projected stock (Projected Stock (Firm) key figure) suffices to cover the demand of the subsequent periods (Demand key figure).

New Data on the RR Overview Screen

As of SAP SNC 7.0, new columns are available on the RR Overview screen. They are related to the firm days' supply and to TLB-related quantities, as follows:

- Firm days' supply
  Two new columns are available that indicate the firm days' supply at the end of the aggregation horizon and at the end of the lead time.

- Aggregated replenishment demand and shipment sizing quantity
  Replenishment demand and shipment sizing quantity are TLB-related quantities. During the TLB run, the system determines the replenishment demand and the shipment sizing quantity at the level of a single TLB shipment and saves it in the TLB shipment. The replenishment demand of a TLB shipment is the quantity that served as the initial input for the TLB shipment (before the TLB performed upsizing or downsizing). The shipment sizing quantity is the quantity by which the TLB increased (+) or decreased (-) the replenishment demand for the TLB shipment during shipment sizing. The RR Overview screen displays the total replenishment demand and the total shipment sizing quantity for particular horizons. Nine columns are available for both the replenishment demand and the shipment sizing quantity, as well as for other quantities on the RR Overview screen that were
available previously. Each column represents the aggregation with respect to a particular horizon (display horizon, lead time, and aggregation horizon) and replenishment order date (order processing date, shipping date, and availability date in the customer location).

In the standard system, the RR Overview screen does not display these fields. If you want to display these fields, you must use a Business Add-In (BAdI). For more information, see the Release Note Configuring the Replenishment Overview (Enhanced).

1.6.10.4 Functions in the RR Overview (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, new navigation functions and configuration options are available for the Overview screen of the Responsive Replenishment Monitor.

Call Up the Receipts and Requirements List

Using the Receipts/Requirements List pushbutton, you can call up the receipts and requirements list for selected location products. This list shows replenishment orders.

Display the Planned Replenishment Orders for the PR AD AH Column

The PR AD AH column (Planned Receipts Based on Availability Date (Aggregation Horizon)), which was already available previously, displays the total quantity of all planned replenishment orders whose availability date lies in the aggregation horizon. The quantity is displayed as a link. Previously, by using the link you left the RR Overview screen and called up the Replenishment Objects screen. As of SAP SNC 7.0, the link opens a dialog box but keeps the RR Overview screen in the background. The dialog box displays the planned replenishment orders that contribute to the quantity value. In the dialog box, you can create, change, or delete planned receipts for the product under consideration or for another product. When you save the changed data in the dialog box and close it, you return to the RR Overview screen that displays the updated data. You can return to the previous display mode for the replenishment objects (leaving the RR Overview screen and opening a new screen) by using a BAdI. For more information, see the Customizing section.

Call Up the TLB Screen

In the RR Overview screen, nine columns for the unpublished replenishment quantity were already available previously, which display the total quantity of all unpublished replenishment orders whose key date is within a particular horizon. (For example, the UnpubRQ AD AH column (Unpublished Replenishment Quantity Based on Availability Date (Aggregation Horizon)) displays the total quantity of all unpublished replenishment orders whose availability date is within the aggregation horizon.) As of SAP SNC 7.0, a link is available for the quantity value in each of these columns.

In the standard system, the link opens a dialog box while keeping the RR Overview screen in the
The dialog box displays unpublished replenishment orders and TLB shipments that contribute to the quantity. The dialog box offers the same functions as the regular TLB Shipments screen (for example, for creating or changing planned receipts or TLB shipments). When you save the changed data and close the window, you return to the RR Overview screen that displays the updated data. Using a Business Add-In (BAdI), you can determine that the link leads to the regular TLB Shipments full screen instead. For more information, see the Customizing section.

Effects on Customizing

If you want the quantity links on the RR Overview screen to lead to the regular Replenishment Objects or TLB Shipments screen, you must use the BAdI Modification of Replenishment Monitor Overview (/SCF/REPL_OVW). You find the BAdI in Customizing for Supply Network Collaboration under Business Add-Ins (BAdIs) for Supply Network Collaboration -> Replenishment -> Replenishment Monitor.

See also

Release note Configuring the Replenishment Monitor Overview (Enhanced)

1.6.10.5 Configuring the Replenishment Monitor Overview (Enhanced)

Use

Previously, you could already use the Business Add-In (BAdI) Modification of Replenishment Overview (/SCF/REPL_OVW) to change certain properties of the Overview screen for a replenishment monitor. You can, for example, display columns in the replenishment monitor that are hidden in the standard delivery. In SAP Supply Network Collaboration (SAP SNC) 7.0, the default implementation was enhanced. Based on the default implementation, you can create your own implementations to do the following:

- Hide services
  You can, for example, hide the following:
  - Buttons that you use to navigate to a related screen, such as the ASN screen
  - Planning services in the value help for the Services field, such as the Run TLB service
- Set the display mode for the target window of the quantity links on the RR Overview screen (dialog box or screen)

You can change the properties depending on the view type (customer view or supplier view) and on the type of replenishment monitor (SMI Monitor, Min/Max Replenishment Monitor, or Responsive Replenishment Monitor).

For more information about hidden columns and display modes, see the following Release Notes:

- Data in the RR Overview (Enhanced)
Effects on Customizing

As of SAP SNC 7.0, you can call up the BAdI in Customizing for Supply Network Collaboration under Business Add-Ins (BAdIs) for Supply Network Collaboration -> Replenishment -> Replenishment Monitor.

1.6.10.6 Saving Planning Service Results in the Replenishment Monitors (Changed)

Use

Various planning services are available on the overview screen and on the detail screens of the replenishment monitors. In SAP Supply Network Collaboration (SAP SNC) 5.1, the system automatically saves the results of a planning service run. As of SAP SNC 7.0, the results are saved as follows in the replenishment monitors:

- **Detail screen**
  In the supplier view of the detail screens, the supplier must choose the **Save** pushbutton to save the results of a planning service run. In the customer view, the customer **cannot** save the results of a planning service run. (Note: In the replenishment monitors, the customer is only allowed to perform simulative planning. Therefore, the **Save** pushbutton is **not** available in the customer view.)

- **Overview screen**
  In the supplier view of the overview screen, the system automatically saves the results of a planning service run. In the customer view, the system does **not** save the results of a planning service run. (Note that the **Save** pushbutton is not available in either view on the overview screen.)

1.6.10.7 Refresh Concept (Enhanced)

Use
As of SAP Supply Network Collaboration (SAP SNC) 7.0, SAP SNC automatically refreshes the transactional data in the overview screens of the replenishment monitors when you save data on their corresponding details screens and navigate to the overview screen via the SAP SNC menu or by using the backwards navigation pushbutton.

1.6.10.8 Data Matrix (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, data matrix configuration has been changed as follows:

- Disabling of key figures, services, and dependencies
  In SAP SNC 5.1, you could select key figures, services, or dependencies and decide not to take them into account for data matrix configuration by selecting the *Delete from Standard* checkbox in Customizing. As of SAP SNC 7.0, the *Delete from Standard* checkbox has been renamed to *Disabled*. In addition, as of SAP SNC 7.0, key figures for the SNI Monitor that are not needed are disabled by default. You can adopt the standard Customizing with disabled key figures. You can also enable key figures again by deselecting the *Disabled* checkbox for those key figures. For more information about disabled key figures in the standard system, see the *Effects on Customizing* section.

- Deselecting time aggregation for key figures
  Key figures on the user interface (UI) of SAP SNC can appear with different time periods than in time series data management (TSDM). For example, the data matrix might return key figure values in weekly or monthly time periods, whereas in time series data management, the key figures might be stored in daily periods. Therefore, the system maps TSDM periods to UI periods. This kind of mapping is called time aggregation. As of SAP SNC 7.0, you can de-select time aggregation for key figures if you do not need it.

These changes to the data matrix help you to improve system performance for data-matrix-based applications in SAP SNC, such as the SMI Monitor or the SNI Monitor.

Effects on Existing Data

For the SNI Monitor, standard Customizing of the data matrix has been changed: Per default, key figures that are based on Order Document Management (ODM) are disabled as dependencies of key figures Firm Demand (*ALLFIRMDEMAND*), In-Transit Quantity (*INTRANSIT*) and Firm Receipts (*ORDER*) at the All Keys (*LOCFRODSRC*) aggregate level. Affected ODM-based key figures include the following:

- ALLORDER
- FIRMDEMANDWO
These ODM-based key figures are now excluded from the dependency chain of key figures. On the Web screens, this has the following consequences: In SAP SNC 5.1, the ODM-based key figures did not count towards the displayed key figures of editable grid arrangements. As of SAP SNC 7.0, ODM-based key figures do not count towards the displayed key figure values on all SNI Monitor screens, including non-editable grid arrangements.

Effects on Customizing

To change the standard data matrix configuration, use the Customizing activity Configure Data Matrix.

1.6.10.9 Visibility of Location Products (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the visibility concept of location products on Web screens for SAP SNC has been enhanced. This includes the following new features:

- New and enhanced selection modes for the SNI Monitor
- New selection mode for the Partner-Dependent Network Filter
- User- and partner-dependent assignment of selection modes to applications
- Deletion report for buffered user data for visibility profiles

New and Enhanced Selection Modes for the SNI Monitor

The TSDM_INV_C selection mode has been enhanced with the following new features:

- Retrieval of specified key figures only
  The system only retrieves and evaluates data for the key figures that you have specified in the Customizing activity Create Selection Modes. Default key figures are specified.
- Retrieval of data for specified time periods only
  The system only retrieves data if the key figure quantities have changed within a time period that you can specify. If no time period is specified, the system uses default values. For more information, see the Customizing documentation for Create Selection Modes.

As of SAP SNC 7.0, you can also use the following new selection modes for SNI:

- TSDM_C
  This selection mode works like TSDM_INV_C, but it only reads data from TSDM.
- INV_C
  This selection mode works like TSDM_INV_C, but it only reads inventory data.
New Selection Mode for the Partner-Dependent Network Filter
The new PDNF_NEW selection mode works like the existing PNF selection mode, but with improved performance. The selection mode controls data visibility on the basis of the user's business partner, the location of this business partner, and the transportation lanes to locations of a different business partner.

User- and Partner-Dependent Assignment of Selection Modes to Application IDs
In previous releases, you could assign selection modes to application IDs. These assignments were valid irrespective of business partners or users. As of SAP SNC 7.0, you can assign selection modes to application IDs for each business partner or user.

Effects on Existing Data
The standard selection mode PDNF has been changed to PDNF_NEW for the following applications:
- Collaborative Sales Forecasting
- Order Forecast Monitor
- TPOP Forecast
- SMI Monitor
- Delivery Control Monitor
- Min/Max Replenishment Monitor
- Responsive Replenishment Monitor
- Replenishment Order
- Transport Load Builder
- Template Monitor
- History Comparison
- Audit Trail
- Master Data, such as:
  - Location
  - Product
  - Partner-Dependent Data
  - Packaging
  - Number Ranges
Note that the following applications still use PDNF:
- Statistical Forecasting
- Short-Term Forecasting
- Promotions
Effects on System Administration

The system saves the relevant location products for a visibility profile in a buffer table for each user. As of SAP SNC 7.0, you can use the Delete Buffered User Data (Visibility Profile) (/SCF/TSDM_INV_C_SHMA_RESET) report to delete such data from the buffer table. This is necessary, for example, in the following cases:

- New location products have been created.
- Existing location products have been changed or deleted.
- A user has been reassigned to another business partner.

The report is run automatically in the background when you change a visibility profile. Note that the report is only relevant if you use the SNI Monitor with the TSDM_INV_C or the INV_C selection modes.

Effects on Customizing

The Customizing view /SCF/SELOBJ has been replaced by the new /SCF/SELOBJ_CFG view cluster.

Use the Customizing activity Create Selection Modes if you want to do the following:

- Replace standard selection modes with one of the new selection modes
- Display and change the default time periods for retrieving data for TSDM_C and TSDM_INV_C
- Display and change the default key figure assignment to TSDM_C and TSDM_INV_C

Use the Customizing activity Assign Partner-Dependent Selection Modes to Applications if you want to assign selection modes to application IDs depending on individual business partners or users.

1.6.11 SCM-ICH-KNB Kanban

1.6.11.1 New Selection Parameter for the Kanban Web Screen (Enhanced)

Use

As of Supply Network Collaboration (SAP SNC) 7.0, you can use the Supplier field in the selection area of the Kanban (Customer View) Web screen to filter by supplier when you search for kanbans.
1.6.12 SCM-ICH-SNI Supply Network Inventory

1.6.12.1 Inventory in SMI and Outsourced Manufacturing (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0 and enhancement package 4 for SAP ERP 6.0, the following enhancements are available:

- You can transmit stock in transfer from SAP ERP to SAP SNC and consider it in Supply Network Inventory (SNI) and Supplier Managed Inventory (SMI). 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, which is relevant for SNI only. 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. To support these stock types in SAP SNC, the relevant functions and objects were enhanced as described below.

- You can transmit individual batch inventories for batch-managed inventories including batch classification.

ProductActivityNotification (PROACT)

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 (internal batch ID, supplier batch ID, and customer batch ID). In addition, the message now can transmit characteristic values for a batch.

Reports for Data Transfer from SAP ERP to SAP SNC

The reports for transferring data from SAP ERP to SMI or SNI were enhanced as follows:

- **Report for data transfer to SMI**
  The *Data Transfer from ERP to SNC for SMI, RP, DR (RSMIPROACT2)* report includes selection parameters for stock in transfer between plants and stock in transfer between storage locations. (Note that the ProductActivityNotification XML message only transmits the total stock in transfer.)

- **Reports for data transfer to SNI**
  The following reports include selection parameters for stock in transfer between plants, stock in transfer between storage locations, and for subcontracting stock in transfer.
  
  - *Data Transfer for Contract Manufacturing (Own Data) (ROEMPROACT2)*
  
  - *Data Transfer for Contract Manufacturing (Partner Plant) (RPRTPROACT)*

Note that you can select stock in transfer between plants or between storage locations individually.
However, the ProductActivityNotification XML message transmits the total of these stock types.

The report Data Transfer for Contract Manufacturing (Partner Data) (RCMPROACT2) report contains a selection parameter for subcontracting stock in transfer.

If you want to use these report enhancements, you must activate the SAP ERP business function Outsourced Manufacturing (LOG_MM_OM_1).

Transfer of Individual Batches

The following reports for data transfer to SNI now include an Individual Batches checkbox:

- Data Transfer for Contract Manufacturing (Own Data) (ROEMPROACT2)
- Data Transfer for Contract Manufacturing (Partner Data) (RCMPROACT2)

If you select the checkbox, the reports transmit the individual batches including batch number and batch classification values for a batch-managed material. Previously, you could only transmit the aggregated batch quantity for a selected batch-managed material (without batch numbers or classification values).

If you want to use these report enhancements, you must activate the SAP ERP business function Outsourced Manufacturing (LOG_MM_OM_1).

Note: If you have transmitted inventory previously and you now want to use the new option and transmit individual batches, you must first reset the inventory in SAP SNC, using the Reset Inventory to Zero report (/SCA/DM_RESETINV) report. This is to prevent stock values for a batch-managed material from existing twice in SAP SNC (aggregated value and values for the individual batches).

Changes on the Web Screens of the SMI Monitor and SNI Monitor

In the SMI Monitor, the following stock types are displayed:

- Stock in transfer
- Consignment stock in transfer

In the SNI Monitor, the following stock types are displayed:

- Stock in transfer
- Consignment stock in transfer
- Subcontracting stock in transfer
- Consignment subcontracting stock in transfer

Stock in transfer and subcontracting stock in transfer are included on the new Inventory Overview screen for SNI, for example.

Stock on Hand and Projected Stock

As of SAP SNC 7.0, the following enhancements are available:

- Calculating the stock on hand
  The stock on hand is part of the default formula for calculating the projected stock. The default stock on hand in the projected stock formula for SMI, Responsive Replenishment, and Delivery Control Monitor now also includes the stock in transfer and the consignment stock in transfer. The default coding for the Business Add-In (BAdI) Calculation of Stock on Hand

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(\$IC\$/I\$C\$/\$ST\$/\$C\$/\$O\$/\$C\$/\$H\$/\$A\$/\$N\$/) was enhanced accordingly.

- Defining own profiles for projected stock
  You can add the new stock types to your projected stock profiles in Customizing for projected stock if needed.

- Standard profiles for the projected stock
  The following SAP standard profiles for calculating the projected stock (listed in the Customizing activity Display Standard Profiles for Projected Stock) now also include the stock in transfer and the subcontracting stock in transfer:
  - ASN
  - RODP
  - RODP_ASN
  - ROP
  - ROP_ASN

1.6.12.2 Inventory Overview (New)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, an inventory overview is available for Supply Network Inventory (SNI). On the Inventory Overview Web screen, you can see detailed inventory data for different stock types. This includes the following data:

- Batch inventory on batch level
- Stock in transfer
- Subcontracting stock in transfer

For configurable products and batch-managed, classified products you can drill down to the associated characteristics.

The inventory overview displays inventory data that the customer and the supplier have transmitted from their back-end systems to SAP SNC using ProductActivityNotification XML messages. A special view is available that shows inventory data at the level of the individual business partners who provided the data (data-providing partners). This way, the inventory overview provides a snapshot of the inventory situation in the back-end systems of different business partners and enables you to compare the data down to the batch level.
1.6.12.3 Data Matrix (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, data matrix configuration has been changed as follows:

- Disabling of key figures, services, and dependencies
  In SAP SNC 5.1, you could select key figures, services, or dependencies and decide not to take them into account for data matrix configuration by selecting the *Delete from Standard* checkbox in Customizing. As of SAP SNC 7.0, the *Delete from Standard* checkbox has been renamed to *Disabled*. In addition, as of SAP SNC 7.0, key figures for the SNI Monitor that are not needed are disabled by default. You can adopt the standard Customizing with disabled key figures. You can also enable key figures again by deselecting the *Disabled* checkbox for those key figures. For more information about disabled key figures in the standard system, see the *Effects on Customizing* section.

- Deselecting time aggregation for key figures
  Key figures on the user interface (UI) of SAP SNC can appear with different time periods than in time series data management (TSDM). For example, the data matrix might return key figure values in weekly or monthly time periods, whereas in time series data management, the key figures might be stored in daily periods. Therefore, the system maps TSDM periods to UI periods. This kind of mapping is called time aggregation. As of SAP SNC 7.0, you can de-select time aggregation for key figures if you do not need it.

These changes to the data matrix help you to improve system performance for data-matrix-based applications in SAP SNC, such as the SMI Monitor or the SNI Monitor.

Effects on Existing Data

For the SNI Monitor, standard Customizing of the data matrix has been changed: Per default, key figures that are based on Order Document Management (ODM) are disabled as dependencies of key figures *Firm Demand* (ALLFIRMDemand), *In-Transit Quantity* (INTRANSIT) and *Firm Receipts* (ORDER) at the *All Keys* (LOCPRODSRC) aggregate level. Affected ODM-based key figures include the following:

- ALLORDER
- FIRMDEMANDWO
- INTRANSITOR
- VGORDER2
- WORDER

These ODM-based key figures are now excluded from the dependency chain of key figures. On the Web
screens, this has the following consequences: In SAP SNC 5.1, the ODM-based key figures did not count towards the displayed key figures of editable grid arrangements. As of SAP SNC 7.0, ODM-based key figures do not count towards the displayed key figure values on all SNI Monitor screens, including non-editable grid arrangements.

Effects on Customizing

To change the standard data matrix configuration, use the Customizing activity Configure Data Matrix.

1.6.12.4 Visibility of Location Products (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the visibility concept of location products on Web screens for SAP SNC has been enhanced. This includes the following new features:

- New and enhanced selection modes for the SNI Monitor
- New selection mode for the Partner-Dependent Network Filter
- User- and partner-dependent assignment of selection modes to applications
- Deletion report for buffered user data for visibility profiles

New and Enhanced Selection Modes for the SNI Monitor

The TSDM_INV_C selection mode has been enhanced with the following new features:

- Retrieval of specified key figures only
  The system only retrieves and evaluates data for the key figures that you have specified in the Customizing activity Create Selection Modes. Default key figures are specified.

- Retrieval of data for specified time periods only
  The system only retrieves data if the key figure quantities have changed within a time period that you can specify. If no time period is specified, the system uses default values. For more information, see the Customizing documentation for Create Selection Modes.

As of SAP SNC 7.0, you can also use the following new selection modes for SNI:

- TSDM_C
  This selection mode works like TSDM_INV_C, but it only reads data from TSDM.

- INV_C
  This selection mode works like TSDM_INV_C, but it only reads inventory data.

New Selection Mode for the Partner-Dependent Network Filter

The new PDNF_NEW selection mode works like the existing PDNF selection mode, but with improved performance. The selection mode controls data visibility on the basis of the user's business partner, the location of this business partner, and the transportation lanes to locations of a different business partner.
User- and Partner-Dependent Assignment of Selection Modes to Application IDs

In previous releases, you could assign selection modes to application IDs. These assignments were valid irrespective of business partners or users. As of SAP SNC 7.0, you can assign selection modes to application IDs for each business partner or user.

Effects on Existing Data

The standard selection mode PDNF has been changed to PDNF_NEW for the following applications:

- Collaborative Sales Forecasting
- Order Forecast Monitor
- TPOP Forecast
- SMI Monitor
- Delivery Control Monitor
- Min/Max Replenishment Monitor
- Responsive Replenishment Monitor
- Replenishment Order
- Transport Load Builder
- Template Monitor
- History Comparison
- Audit Trail
- Master Data, such as:
  - Location
  - Product
  - Partner-Dependent Data
  - Packaging
  - Number Ranges

Note that the following applications still use PDNF:

- Statistical Forecasting
- Short-Term Forecasting
- Promotions

Effects on System Administration

The system saves the relevant location products for a visibility profile in a buffer table for each user. As of SAP SNC 7.0, you can use the Delete Buffered User Data (Visibility Profile) (/SCF/TSDM_INV_C_SHMA_RESET) report to delete such data from the buffer table. This is necessary,
for example, in the following cases:

- New location products have been created.
- Existing location products have been changed or deleted.
- A user has been reassigned to another business partner.

The report is run automatically in the background when you change a visibility profile. Note that the report is only relevant if you use the SNI Monitor with the TSDM_INV_C or the INV_C selection modes.

Effects on Customizing

The Customizing view /SCF/SELOBJ has been replaced by the new /SCF/SELOBJ_CFG view cluster. Use the Customizing activity Create Selection Modes if you want to do the following:

- Replace standard selection modes with one of the new selection modes
- Display and change the default time periods for retrieving data for TSDM_C and TSDM_INV_C
- Display and change the default key figure assignment to TSDM_C and TSDM_INV_C

Use the Customizing activity Assign Partner-Dependent Selection Modes to Applications if you want to assign selection modes to application IDs depending on individual business partners or users.

1.6.13 SCM-ICH-FCS Forecast

1.6.13.1 Visibility of Location Products (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the visibility concept of location products on Web screens for SAP SNC has been enhanced. This includes the following new features:

- New and enhanced selection modes for the SNI Monitor
- New selection mode for the Partner-Dependent Network Filter
- User- and partner-dependent assignment of selection modes to applications
- Deletion report for buffered user data for visibility profiles

New and Enhanced Selection Modes for the SNI Monitor

The TSDM_INV_C selection mode has been enhanced with the following new features:

- Retrieval of specified key figures only
  The system only retrieves and evaluates data for the key figures that you have specified in the Customizing activity Create Selection Modes. Default key figures are specified.

- Retrieval of data for specified time periods only
  The system only retrieves data if the key figure quantities have changed within a time period that you can specify. If no time period is specified, the system uses default values. For more information, see the Customizing documentation for Create Selection Modes.
As of SAP SNC 7.0, you can also use the following new selection modes for SNI:

- **TSDM_C**
  This selection mode works like TSDM_INV_C, but it only reads data from TSDM.

- **INV_C**
  This selection mode works like TSDM_INV_C, but it only reads inventory data.

**New Selection Mode for the Partner-Dependent Network Filter**

The new PDNF_NEW selection mode works like the existing PDNF selection mode, but with improved performance. The selection mode controls data visibility on the basis of the user's business partner, the location of this business partner, and the transportation lanes to locations of a different business partner.

**User- and Partner-Dependent Assignment of Selection Modes to Application IDs**

In previous releases, you could assign selection modes to application IDs. These assignments were valid irrespective of business partners or users. As of SAP SNC 7.0, you can assign selection modes to application IDs for each business partner or user.

**Effects on Existing Data**

The standard selection mode PDNF has been changed to PDNF_NEW for the following applications:

- Collaborative Sales Forecasting
- Order Forecast Monitor
- TPOP Forecast
- SMI Monitor
- Delivery Control Monitor
- Min/Max Replenishment Monitor
- Responsive Replenishment Monitor
- Replenishment Order
- Transport Load Builder
- Template Monitor
- History Comparison
- Audit Trail
- Master Data, such as:
  - Location
  - Product
  - Partner-Dependent Data
  - Packaging
  - Number Ranges

Note that the following applications still use PDNF:

- Statistical Forecasting
- Short-Term Forecasting
- Promotions

**Effects on System Administration**

The system saves the relevant location products for a visibility profile in a buffer table for each user. As of SAP SNC 7.0, you can use the *Delete Buffered User Data (Visibility Profile)* (/SCF/TSDM_INV_C_SHMA_RESET) report to delete such data from the buffer table. This is necessary, for example, in the following cases:

- New location products have been created.
- Existing location products have been changed or deleted.
- A user has been reassigned to another business partner.

The report is run automatically in the background when you change a visibility profile. Note that the report is only relevant if you use the SNI Monitor with the TSDM_INV_C or the INV_C selection modes.

**Effects on Customizing**

The Customizing view /SCF/SELOBJ has been replaced by the new /SCF/SELOBJ_CFG view cluster.

Use the Customizing activity Create Selection Modes if you want to do the following:

- Replace standard selection modes with one of the new selection modes
- Display and change the default time periods for retrieving data for TSDM_C and TSDM_INV_C
- Display and change the default key figure assignment to TSDM_C and TSDM_INV_C

Use the Customizing activity Assign Partner-Dependent Selection Modes to Applications if you want to assign selection modes to application IDs depending on individual business partners or users.

**1.6.14 SCM-ICH-NDC Net Requirements Calculation**

**1.6.14.1 Product Allocation (Enhanced)**

*Use*

In SAP Supply Network Collaboration (SAP SNC), you can use the product allocation check from Global Available-to-Promise (Global ATP) in SAP Advanced Planning and Optimization (SAP APO). Using the product allocation check, you can make sure that the replenishment quantities for a product that are provided by a particular ship-from location do not exceed product allocations and are restricted correspondingly.

As of SAP SNC 7.0, you can extend the field catalog for VMI product allocation with customer-specific fields. The additional fields are available for the product allocation group. (This means that you can...
choose the fields from the value help for the *Characteristics* field in the Customizing activity *Maintain Product Allocation Group.*

The field catalog is contained in the `/SAPAPO/VMIALLOC` structure. If you want to add customer-specific fields to the field catalog, create a structure that contains these fields. Using the SE11 transaction, you add the structure to the `/SAPAPO/VMIALLOC` structure.

Using the BAdI `VMI Product Allocation: Values for Field Catalog` (/SAPAPO/VMIALLOCVALS), which was already available previously, you can determine the values for the customer-specific fields.

Note that you can only use product allocation in an SCM server installation. In the SAP SCM system, you define product allocation groups in Customizing for *Advanced Planning and Optimization* under *Global Available-to-Promise* (Global ATP) -&gt; *Product Allocation* -&gt; *Maintain Product Allocation Group.*

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### 1.6.14.2 Minimum and Maximum Lot Size (New)

**Use**

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the replenishment service and the TLB service can consider the minimum and the maximum lot size from the location product master for a customer location product. The minimum lot size and the maximum lot size are product parameters that restrict the quantity of a planned receipt for the customer location product (time-series-based planned receipt or a planned replenishment order). The replenishment service only generates planned receipts whose quantities are between the minimum lot size and the maximum lot size.

A subsequent TLB run creates TLB shipments based on the planned receipts. During shipment upsizing and downsizing, the TLB respects the minimum lot size and the maximum lot size as well. The product quantity of all TLB shipments in one period must not violate the minimum lot size and maximum lot size.
1.6.14.3 Two-Level Rounding (New)

Use

As of SAP Supply Network Collaboration (SAP SNC 7.0), two-level rounding is available for replenishment planning. Two-level rounding is a rounding method that considers two different rounding values and a threshold value. It chooses the rounding value to be applied depending on the quantity to be rounded and the threshold value. The system first divides the quantity by the large rounding value. The remaining quantity is handled in a special way: It is first rounded up with respect to the small rounding unit. The replenishment service only rounds up the rounded remaining quantity to the large rounding value as well if the rounded remaining quantity exceeds the threshold.

Effects on Customizing

If you want the replenishment service to use two-level rounding for a customer location product instead of normal one-value rounding, you must assign the location product a rounding profile with two levels. You define rounding profiles in Customizing for SCM Basis under Master Data -> Product -> Maintain Rounding Profiles.

See also


1.6.14.4 Safety Stock Planning (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, you can use the safety stock planning method SM to build up safety stock. The safety stock method SM, considers safety stock derived using the existing safety stock methods SZ and SB. As a final safety stock, it takes the maximum derived from methods SZ and SB as the safety stock. In addition, the system takes the minimum safety stock into consideration when planning safety stock.
1.6.15 SCM-ICH-PRO  Promotion Planning

1.6.15.1 Determining the Promotion ID (Enhanced)

Use

Previously, in the promotion planning process of a Responsive Replenishment scenario, SAP Supply Network Collaboration (SAP SNC) determined the promotion ID as follows:

- Using the external promotion ID that was transmitted as the promotion ID in the DemandInfluencingEventNotification XML message.
- Creating a promotion ID by combining the three letter string XML and the creation time stamp of the DemandInfluencingEventNotification XML message.

The system did not consider the internal promotion ID of the XML message.

As of SAP SNC 7.0, the following enhancements are available:

- SAP SNC can also consider the internal promotion ID transmitted in the DemandInfluencingEventNotification XML message when it determines a promotion ID.
- The following Web screens now display the Internal Promotion ID field:
  - Promotions - XML Draft Promotion
  - Promotions - Promotion Planning

Effects on Customizing

To determine a promotion ID using the internal promotion ID and, or, the external promotion ID, you must make settings in Customizing for SAP Supply Network Collaboration in the Customizing activity Define Expected Promotion IDs.

1.6.16 SCM-ICH-TLB  Transport Load Builder

1.6.16.1 Product Allocation (Enhanced)

Use

In SAP Supply Network Collaboration (SAP SNC), you can use the product allocation check from Global...
Available-to-Promise (Global ATP) in SAP Advanced Planning and Optimization (SAP APO). Using the product allocation check, you can make sure that the replenishment quantities for a product that are provided by a particular ship-from location do not exceed product allocations and are restricted correspondingly.

As of SAP SNC 7.0, you can extend the field catalog for VMI product allocation with customer-specific fields. The additional fields are available for the product allocation group. (This means that you can choose the fields from the value help for the Characteristics field in the Customizing activity Maintain Product Allocation Group.)

The field catalog is contained in the /SAPAPO/VMIALLOC structure. If you want to add customer-specific fields to the field catalog, create a structure that contains these fields. Using the SE11 transaction, you add the structure to the /SAPAPO/VMIALLOC structure.

Using the BAdI VMI Product Allocation: Values for Field Catalog (/SAPAPO/VMIALLOCVALS), which was already available previously, you can determine the values for the customer-specific fields.

Note that you can only use product allocation in an SCM server installation. In the SAP SCM system, you define product allocation groups in Customizing for Advanced Planning and Optimization under Global Available-to-Promise (Global ATP) -> Product Allocation -> Maintain Product Allocation Group.

1.6.16.2 Minimum and Maximum Lot Size (New)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the replenishment service and the TLB service can consider the minimum and the maximum lot size from the location product master for a customer location product. The minimum lot size and the maximum lot size are product parameters that restrict the quantity of a planned receipt for the customer location product (time-series-based planned receipt or a planned replenishment order). The replenishment service only generates planned receipts whose quantities are between the minimum lot size and the maximum lot size.

A subsequent TLB run creates TLB shipments based on the planned receipts. During shipment upsizing and downsizing, the TLB respects the minimum lot size and the maximum lot size as well. The product quantity of all TLB shipments in one period must not violate the minimum lot size and maximum lot size.
1.6.16.3 Transport Load Building (Enhanced)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, the following enhancements are available:

- **New fields on the TLB Shipments screen**
  
The following columns have been added to the TLB Shipments Details area of the TLB Shipments screen:
  
  - **Replenishment Demand**
    
The replenishment demand is the quantity that served as the initial input for the TLB shipment (before the TLB performed upsizing or downsizing).
  
  - **Shipment Sizing Quantity**
    
The shipment sizing quantity is the quantity by which the TLB increased (+) or decreased (-) the replenishment demand for the TLB shipment during shipment sizing.

- **Consideration of minimum and maximum lot size**
  
  During shipment upsizing and downsizing, the TLB respects the minimum lot size and the maximum lot size from the location product master of the customer location product. The product quantity of all TLB shipments in one period must not violate the minimum lot size or maximum lot size.

- **New BAdI for integrating an external load builder**
  
  Using the new Business Add-In (BAdI) External Transport Load Building (/SCA/EXT_LOAD_BUILD), you can integrate an external load builder. With an active BAdI implementation, the TLB service calls up the external load builder instead of the Transport Load Builder of SAP SNC. The TLB service only provides the TLB settings and the demands to the BAdI. Based on this data, the external load builder can build loads and return them to the TLB service. For these loads, the TLB service creates the TLB shipments and the replenishment orders.

Effects on Customizing

You can call up the BAdI in Customizing for Supply Network Collaboration, by choosing Business Add-Ins (BAdIs) for SAP SNC -> Replenishment -> Transport Load Builder -> BAdI: External Transport Load Building.

See also

Release Note *Minimum and Maximum Lot Size (New)*
1.6.17 SCM-ICH-DIO  Inbound/Outbound Data Processing

1.6.17.1 SAP SNC Monitoring with CCMS (New)

Use

As of SAP NetWeaver 7.0 Enhancement Package 01 and SAP Supply Network Collaboration (SAP SNC) 7.0, you can use the predefined monitor set **SNC Monitor Templates** in the monitoring architecture of the Computing Center Management System (CCMS). The CCMS Monitoring Architecture is a framework available in SAP NetWeaver into which monitoring and administration functions can be added.

The **SNC Monitor Templates** monitor set includes the following:

- **CIF Master Data Queue Monitor**
  The CIF Master Data Queue Monitor allows you to monitor inbound and outbound queues for the SAP Core Interface (CIF).

- **SNC Monitor**
  For each SAP SNC client of the system landscape, the SNC Monitor allows you to monitor inbound and outbound message processing of XML messages.

Effects on System Administration

To use the **SNC Monitor Templates** monitor set as a template for your own monitor, copy the desired monitor and adapt it to your needs. If you run CCMS from a central system to monitor your system landscape, set up system connections with your SAP SNC systems. For more information, see the SAP SNC documentation on SAP Help Portal at [http://help.sap.com](http://help.sap.com) under **SAP SNC Monitoring with CCMS**.

Effects on Customizing

Check the settings in the Customizing activity Restrict Alerts in Customizing for **Supply Network Collaboration** under **Basic Settings -> Processing Inbound and Outbound Messages**. You need to make sure that the alerts for the message types that you want to monitor are not deactivated.

1.6.17.2 Inventory in SMI and Outsourced Manufacturing (Enhanced)

Use
As of SAP Supply Network Collaboration (SAP SNC) 7.0 and enhancement package 4 for SAP ERP 6.0, the following enhancements are available:

- You can transmit stock in transfer from SAP ERP to SAP SNC and consider it in Supply Network Inventory (SNI) and Supplier Managed Inventory (SMI). 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, which is relevant for SNI only. 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. To support these stock types in SAP SNC, the relevant functions and objects were enhanced as described below.

- You can transmit individual batch inventories for batch-managed inventories including batch classification.

**ProductActivityNotification (PROACT)**

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 (internal batch ID, supplier batch ID, and customer batch ID). In addition, the message now can transmit characteristic values for a batch.

**Reports for Data Transfer from SAP ERP to SAP SNC**

The reports for transferring data from SAP ERP to SMI or SNI were enhanced as follows:

- **Report for data transfer to SMI**
  The Data Transfer from ERP to SNC for SMI, RP, DR (RSMIPROACT2) report includes selection parameters for stock in transfer between plants and stock in transfer between storage locations. (Note that the ProductActivityNotification XML message only transmits the total stock in transfer.)

- **Reports for data transfer to SNI**
  The following reports include selection parameters for stock in transfer between plants, stock in transfer between storage locations, and for subcontracting stock in transfer.

  - **Data Transfer for Contract Manufacturing (Own Data)** (ROEMPROACT2)
  - **Data Transfer for Contract Manufacturing (Partner Plant)** (RPRTPROACT)

Note that you can select stock in transfer between plants or between storage locations individually. However, the ProductActivityNotification XML message transmits the total of these stock types.

The report Data Transfer for Contract Manufacturing (Partner Data) (RCMPROACT2) report contains a selection parameter for subcontracting stock in transfer.

If you want to use these report enhancements, you must activate the SAP ERP business function Outsourced Manufacturing (LOG_MM_OM_1).
Transfer of Individual Batches

The following reports for data transfer to SNI now include an Individual Batches checkbox:
- Data Transfer for Contract Manufacturing (Own Data) (ROEMPROACT2)
- Data Transfer for Contract Manufacturing (Partner Data) (RCMPROACT2)

If you select the checkbox, the reports transmit the individual batches including batch number and batch classification values for a batch-managed material. Previously, you could only transmit the aggregated batch quantity for a selected batch-managed material (without batch numbers or classification values).

If you want to use these report enhancements, you must activate the SAP ERP business function Outsourced Manufacturing (LOG_MM_OM_1).

Note: If you have transmitted inventory previously and you now want to use the new option and transmit individual batches, you must first reset the inventory in SAP SNC, using the Reset Inventory to Zero report (/SCA/DM_RESETINV) report. This is to prevent stock values for a batch-managed material from existing twice in SAP SNC (aggregated value and values for the individual batches).

Changes on the Web Screens of the SMI Monitor and SNI Monitor

In the SMI Monitor, the following stock types are displayed:
- Stock in transfer
- Consignment stock in transfer

In the SNI Monitor, the following stock types are displayed:
- Stock in transfer
- Consignment stock in transfer
- Subcontracting stock in transfer
- Consignment subcontracting stock in transfer

Stock in transfer and subcontracting stock in transfer are included on the new Inventory Overview screen for SNI, for example.

Stock on Hand and Projected Stock

As of SAP SNC 7.0, the following enhancements are available:
- Calculating the stock on hand
  The stock on hand is part of the default formula for calculating the projected stock. The default stock on hand in the projected stock formula for SMI, Responsive Replenishment, and Delivery Control Monitor now also includes the stock in transfer and the consignment stock in transfer. The default coding for the Business Add-In (BAdI) Calculation of Stock on Hand (/SCA/ICH_STOCKONHAND) was enhanced accordingly.
- Defining own profiles for projected stock
  You can add the new stock types to your projected stock profiles in Customizing for Projected Stock if needed.
- Standard profiles for the projected stock
  The following SAP standard profiles for calculating the projected stock (listed in the Customizing
activity *Display Standard Profiles for Projected Stock*) now also include the stock in transfer and the subcontracting stock in transfer:
- ASN
- RODP
- RODP_ASN
- ROP
- ROP_ASN

1.6.17.3 Location Product Status (Enhanced)

**Use**

As of SAP Supply Network Collaboration (SAP SNC) 7.0, functions for the location product status have been enhanced as follows:
- Automatic changes to the location product status can be customized.
- Maintenance of the location product status has been enhanced.

**Automatic Change of the Location Product Status**

In previous releases, SAP SNC automatically set the location product status from *Active* to *Inactive* or from *Inactive* to *Discontinued* when the following conditions were met during inbound processing:
- The 2_MISSING_EAN/UPC validation check is active.
- The *ProductActivityNotification* message does not contain any data for this location product.

As of SAP SNC 7.0, you can determine in Customizing whether SAP SNC automatically sets the status to *Inactive* or *Discontinued* when the above conditions are met.

**Maintenance of the Location Product Status**

In previous releases, you could only maintain the status of single location products one at a time on the *Location Product Status* Web screen. As of SAP SNC 7.0, you can create, change, or delete the status of multiple location products in a mass maintenance. Moreover, on the *Location Product Status* Web screen, you can now search for location products by product group and by product group type.
Effects on Customizing

To prevent SAP SNC from automatically setting the location product status to *Inactive* or *Discontinued*, in Customizing, select the *No Inactive Status* checkbox. For more information, see Customizing for *Supply Network Collaboration* under *Basic Settings -> Processing Inbound and Outbound Messages -> Configure Processing of Inbound ProductActivityNotification Data*. In the standard system, the *No Inactive Status* checkbox is not selected, that is, inbound processing behaves as in previous releases.

1.6.18 SCM-ICH-AMO Alert Monitor

1.6.18.1 Activation of Alert Types (Changed)

Use

Previously, all alert types relevant to SAP Supply Network Collaboration (SAP SNC) were active in the standard system. As of SAP SNC 7.0, all SAP SNC alert types in the standard system are not active. You must activate the alert types relevant to the SAP SNC applications you want to run. In addition, you can determine whether you want alert types to be archived into the alert history tables. You do this to increase the performance speed of the following processes:

- Alert creation
- Reading of alerts
- Deletion and subsequent archiving of alerts into the alert history tables

Effects on Customizing

You activate alert types in Customizing for *SAP Supply Network Collaboration* under *Exceptions -> Alert Type Activation -> Activate Alert Types*.

1.6.18.2 SAP SNC Monitoring with CCMS (New)

Use

As of SAP NetWeaver 7.0 Enhancement Package 01 and SAP Supply Network Collaboration (SAP SNC) 7.0, you can use the predefined monitor set *SNC Monitor Templates* in the monitoring architecture of
the Computing Center Management System (CCMS). The CCMS Monitoring Architecture is a framework available in SAP NetWeaver into which monitoring and administration functions can be added.

The SNC Monitor Templates monitor set includes the following:

- **CIF Master Data Queue Monitor**
  The CIF Master Data Queue Monitor allows you to monitor inbound and outbound queues for the SAP Core Interface (CIF).

- **SNC Monitor**
  For each SAP SNC client of the system landscape, the SNC Monitor allows you to monitor inbound and outbound message processing of XML messages.

**Effects on System Administration**

To use the SNC Monitor Templates monitor set as a template for your own monitor, copy the desired monitor and adapt it to your needs. If you run CCMS from a central system to monitor your system landscape, set up system connections with your SAP SNC systems. For more information, see the SAP SNC documentation on SAP Help Portal at [http://help.sap.com](http://help.sap.com) under SAP SNC Monitoring with CCMS.

**Effects on Customizing**

Check the settings in the Customizing activity Restrict Alerts in Customizing for Supply Network Collaboration under Basic Settings -> Processing Inbound and Outbound Messages. You need to make sure that the alerts for the message types that you want to monitor are not deactivated.

### 1.6.18.3 Control of Actions for Purchase Order and Replenishment Order (Enhanced)

**Use**

As of SAP Supply Network Collaboration (SAP SNC) 7.0, validation checks can trigger the generation of the following alerts in the background.

**Purchase Order Alerts**

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Alert ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchase Order Rejected</td>
<td>7036</td>
</tr>
<tr>
<td>Purchase Order Item rejected</td>
<td>7037</td>
</tr>
<tr>
<td>Partially Confirmed Purchase Order Item</td>
<td>7053</td>
</tr>
<tr>
<td>Late Confirmation of Purchase Order Item</td>
<td>7054</td>
</tr>
</tbody>
</table>
Manual Approval of Confirmation Required 7055
Manual Approval of Component Requirement required 7056
Confirmation Rejected 7057
Component Requirement Rejected 7058
New Note for Purchase Order 7059

Replenishment Order Alerts

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Alert ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirmation of Replenishment Order Item Was Rejected</td>
<td>7126</td>
</tr>
<tr>
<td>Partially Confirmed Replenishment Order Item</td>
<td>7124</td>
</tr>
<tr>
<td>Too-Late Confirmation of Replenishment Order Item</td>
<td>7125</td>
</tr>
</tbody>
</table>

The system can also connect to the supplier delivery performance rating (SDPR) in the background based on the PPF configuration.

To generate these alerts and to connect to SDPR in the background, you must deactivate the following validation checks:

- For purchase orders: PO_PPF_EXEC
- For replenishment orders: RO_PPF_EXEC.

If you have specified that the system generates these alerts in the background, you can still deactivate each alert individually or deactivate the SDPR connection by selecting the Inactive checkbox in the PPF for the relevant PPF action.

**Effects on Customizing**

You activate and deactivate these validation checks in Customizing for Supply Network Collaboration by choosing Basic Settings -> Validation -> Own Settings -> Maintain Settings in Validation Profiles.

You can make PPF settings in Customizing for Supply Network Collaboration by choosing Tools -> Actions (Post Processing Framework) -> Define Action Profiles and Definitions and editing the /SCA/BOL_ORDER action profile within the /SCA/ICH application.

**1.6.19 SCM-ICH-ERP ERP-SNC Integration**

**1.6.19.1 Inventory in SMI and Outsourced Manufacturing (Enhanced)**
Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0 and enhancement package 4 for SAP ERP 6.0, the following enhancements are available:

- You can transmit stock in transfer from SAP ERP to SAP SNC and consider it in Supply Network Inventory (SNI) and Supplier Managed Inventory (SMI). 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, which is relevant for SNI only. 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. To support these stock types in SAP SNC, the relevant functions and objects were enhanced as described below.

- You can transmit individual batch inventories for batch-managed inventories including batch classification.

**ProductActivityNotification (PROACT)**

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 (internal batch ID, supplier batch ID, and customer batch ID). In addition, the message now can transmit characteristic values for a batch.

**Reports for Data Transfer from SAP ERP to SAP SNC**

The reports for transferring data from SAP ERP to SMI or SNI were enhanced as follows:

- **Report for data transfer to SMI**
  The Data Transfer from ERP to SNC for SMI, RP, DR (RSMIPROACT2) report includes selection parameters for stock in transfer between plants and stock in transfer between storage locations. (Note that the ProductActivityNotification XML message only transmits the total stock in transfer.)

- **Reports for data transfer to SNI**
  The following reports include selection parameters for stock in transfer between plants, stock in transfer between storage locations, and for subcontracting stock in transfer.

    - **Data Transfer for Contract Manufacturing (Own Data)** (ROEMPROACT2)
    - **Data Transfer for Contract Manufacturing (Partner Plant)** (RPRTPROACT)

Note that you can select stock in transfer between plants or between storage locations individually. However, the ProductActivityNotification XML message transmits the total of these stock types.

The report **Data Transfer for Contract Manufacturing (Partner Data)** (RCMPROACT2) report contains a selection parameter for subcontracting stock in transfer.

If you want to use these report enhancements, you must activate the SAP ERP business function
Outsourced Manufacturing (LOG_MM_OM_1).

Transfer of Individual Batches

The following reports for data transfer to SNI now include an Individual Batches checkbox:
- Data Transfer for Contract Manufacturing (Own Data) (ROEMPROACT2)
- Data Transfer for Contract Manufacturing (Partner Data) (RCMPROACT2)

If you select the checkbox, the reports transmit the individual batches including batch number and batch classification values for a batch-managed material. Previously, you could only transmit the aggregated batch quantity for a selected batch-managed material (without batch numbers or classification values).

If you want to use these report enhancements, you must activate the SAP ERP business function Outsourced Manufacturing (LOG_MM_OM_1).

Note: If you have transmitted inventory previously and you now want to use the new option and transmit individual batches, you must first reset the inventory in SAP SNC, using the Reset Inventory to Zero report (/SCA/DM_RESETINV) report. This is to prevent stock values for a batch-managed material from existing twice in SAP SNC (aggregated value and values for the individual batches).

Changes on the Web Screens of the SMI Monitor and SNI Monitor

In the SMI Monitor, the following stock types are displayed:
- Stock in transfer
- Consignment stock in transfer

In the SNI Monitor, the following stock types are displayed:
- Stock in transfer
- Consignment stock in transfer
- Subcontracting stock in transfer
- Consignment subcontracting stock in transfer

Stock in transfer and subcontracting stock in transfer are included on the new Inventory Overview screen for SNI, for example.

Stock on Hand and Projected Stock

As of SAP SNC 7.0, the following enhancements are available:
- Calculating the stock on hand
  The stock on hand is part of the default formula for calculating the projected stock. The default stock on hand in the projected stock formula for SMI, Responsive Replenishment, and Delivery Control Monitor now also includes the stock in transfer and the consignment stock in transfer. The default coding for the Business Add-In (BAdI) Calculation of Stock on Hand (/SCA/ICH_STOCKONHAND) was enhanced accordingly.
- Defining own profiles for projected stock
  You can add the new stock types to your projected stock profiles in Customizing for Projected Stock if needed.
- Standard profiles for the projected stock
The following SAP standard profiles for calculating the projected stock (listed in the Customizing activity *Display Standard Profiles for Projected Stock*) now also include the stock in transfer and the subcontracting stock in transfer:

- ASN
- RODP
- RODP_ASN
- ROP
- ROP_ASN

### 1.6.19.2 Purchase Order XML Messages (Enhanced)

#### Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, new XML messages are available for sending and receiving purchase order data. In addition, the existing XML messages include new fields that support the new processes in purchase order collaboration.

**New XML Messages**

Previously, SAP SNC could only use the following XML messages for the processes in purchase order collaboration:

- *ReplenishmentOrderNotification* for receiving a new or changed purchase order from the customer back-end system
- *ReplenishmentOrderConfirmation* for sending a purchase order confirmation to the customer back-end system
- *ReplenishmentOrderNotification* for sending a changed purchase order to the customer back-end system

As of SAP SNC 7.0, you can send and receive the following XML message types for purchase order collaboration instead:

- *PurchaseOrderERPReplenishmentOrderCollaborationNotification* for receiving a new or changed purchase order from the customer back-end system
- *PurchaseOrderERPRequest_V1* for sending a changed purchase order to the customer back-end system

The new XML messages provide integration with a customer’s SAP ERP back-end system that is
enhancement package 4 for SAP ERP. If you want to use the new XML messages, you must deactivate the PO_PURORDERPREQ_SEND validation check. Note, that the ReplenishmentOrderConfirmation XML message is still used for receiving and sending purchase order confirmations.

New Fields in the existing XML Messages

As of SAP SNC 7.0, the following existing XML message types have been enhanced with the following fields:

- ReplenishmentOrderNotification
  - ManufacturerParty
  - ManufacturerID
  - ConfigurationPropertyValuation
  - ProductManufacturerID
  - ClassificationPropertyValuation

- ReplenishmentOrderConfirmation
  - ManufacturerParty
  - ManufacturerID
  - ProductManufacturerID

1.6.20 SCM-ICH-FTR File Transfer

1.6.20.1 File Transfer (New)

Use

As of SAP Supply Network Collaboration (SAP SNC) 7.0, you can use the file transfer application on the SAP SNC Web UI to download and upload files from SAP SNC, to process their data offline. File transfer converts data from SAP SNC applications into Comma Separated Values (CSV) files. In the standard system, we deliver files for the following supplier collaboration applications:

- Purchase orders
  - Download purchase orders requiring confirmation
- Upload purchase order confirmations
- Due list and advanced shipping notifications for purchasing documents
  - Download due list for purchasing documents
  - Upload advanced shipping notifications for purchasing documents
- Due list and advanced shipping notifications for planned receipts
  - Download due list for planned receipts
  - Upload advanced shipping notifications for planned receipts
- Order forecast monitor
  - Download forecast
  - Upload supplier firm receipts
- Supplier managed inventory
  - Download demand
  - Upload planned receipts

**Web Screens**

The following Web screens are available for file transfer on the SAP SNC Web UI:

- **Download Center**
- **Download History**
- **Upload Center**
- **Upload History**

For every file transfer Web screen, there is a **Power User** view and an **External User** view, as follows:

- The **Power User** view is designed for a user who creates download and upload profiles for the external business partners of the business partner that is leading a collaboration process of SAP SNC. The Web screens display all files that are being or have been downloaded or uploaded by the external business partners of the leading business partner.
- The **External User** view of the file transfer Web screens is designed for a user who is assigned to an external business partner. The Web screens display files that belong to the business partner of the logged-on user.

You can download files from the **Download Center** Web screen. You can pick up downloaded files from the **Download Center** Web screen, or file transfer can deliver files that you download by means of an e-mail. In the standard system, we deliver templates for the e-mail text that notify the user that a file is ready for download. You can also create your own e-mail texts. After processing a file offline, you can upload it back into the SAP SNC system. You can do that as follows:

- You can send an e-mail containing the file to the system.
- You can upload the file manually on the **Upload Center** Web screen.

**Archiving**

You can archive a download or upload profile if it is no longer active. We deliver the following archiving
objects for file transfer:
- ICH_FTRD
- ICH_FTRU

Effects on Data Transfer

The standard e-mail texts we deliver for the notification e-mails are SAPscript objects. To be able to use the e-mail texts, you need to transport them from client 000. For more information, see SAP Note 3355.

Effects on System Administration

For each file download or upload you need download and upload profiles. Run the Delete File Transfer Profiles (/SCA/FTR_DELETE) report if you want to delete the profiles without archiving them. To create a standard e-mail text, run the Create E-Mail Texts for File Download Notifications (/SCF/FTR_CREATE_MT) report. You must set up number ranges for the upload profile numbers and the download profile numbers. To set up number ranges, you use the Number Ranges (SRNO) transaction.

Effects on Customizing

To use file transfer, you must make the necessary settings in Customizing for SAP Supply Network Collaboration under Tools -> File Transfer.

For file transfer the following Business Add-Ins (BAdIs) are available in Customizing for SAP Supply Network Collaboration under Business Add-Ins (BAdIs) for SAP SNC -> Tools -> File Transfer:

- BAdI: Read Inbound E-Mail
- BAdI: Purchase Order Interface
- BAdI: ASN Publish Control
- BAdI: Due List for Purchasing Documents
- BAdI: Due List for Planned Receipts
- BAdI: Order Forecast Collaboration Interface
- BAdI: SMI Planned Receipt

See also

File Transfer in SAP Library for SAP Supply Network Collaboration under Cross-Applications Functions -> File Transfer.