Master Guide
SAP® Extended Warehouse Management for Fashion Rel 1.0

Using SAP SCM-EWM, SAP IS-AFS and SAP NetWeaver 7.31

Target Audience
- Consultants
- Administrators
- Others

Public
Document version 1.02 – 31/10/2013

The following table provides an overview of the most important changes that were made in the latest versions.

<table>
<thead>
<tr>
<th>Master Guide Version</th>
<th>Important Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00 (December 2012)</td>
<td>Initial release</td>
</tr>
<tr>
<td>1.01 (September 2013)</td>
<td>Updated SAP SCM-EWM release information</td>
</tr>
<tr>
<td>1.02 (October 2013)</td>
<td>Updated SAP AFS release information</td>
</tr>
</tbody>
</table>
5.1 Fundamental Security Guides ...................................................... 29
6 References ..................................................................................... 30
7 Release Availability Information .................................................. 32
1 Getting Started

1.1 About this Document

Purpose
This Master Guide is the central starting point for the technical implementation of SAP Extended Warehouse Management for Fashion Release 1.0. It contains all the information for the implementation of SAP EWM for Fashion solution. To facilitate the installation, this document is organized by business processes. This document focuses on the business processes in SAP EWM that are enhanced for the IS-AFS industry. You can find cross-scenario implementation information as well as scenario-specific information in this guide.

Use the Master Guide to get an overview of SAP Extended Warehouse Management for Fashion, its software units, and its scenarios from a technical perspective. The Master Guide is a planning tool that helps you to design your system landscape. It refers you to the required detailed documentation, mainly:

- SAP Notes
- Configuration documentation
- SAP Library documentation

The Master Guide consists of the following main sections:

- Getting Started contains valuable information about using this document and related information (documentation and SAP Notes) crucial to the installation.
- SAP EWM for Fashion overview
  - The Software Component Matrix provides the information about which business processes use which component and whether the corresponding component is mandatory or optional.
  - System Landscape provides an overview of a possible system landscape and also provides installation information.
  - The chapters about SAP enhancement packages inform you about the enhancement package concept and the implementation of SAP enhancement packages.
- Integration between SAP EWM and SAP AFS contains the specific steps to install and implement the following:
  - Replication of Master Data and Batches from AFS into EWM
  - Replication of AFS Attributes on Delivery from AFS into EWM
  - Enhancements to EWM cross processes for batch managed products

Depending on the specific business process in SAP IS-AFS and SAP SCM-EWM, different installation guides, upgrade guides, and master guides are required during the business process implementation. In the Appendix, you can find an overview of all required documentation referenced in this Master Guide.

You can find the most current information about the technical implementation of SAP Extended Warehouse Management and Industry solution for Fashion and the latest installation and configuration guides for both these products as well as the latest technical implementation guides for SAP Extended warehouse management or Fashion on SAP Service Marketplace at http://service.sap.com/instguides. We strongly recommend that you use the documents available here. The guides are regularly updated.
Constraints

- The business scenario that is presented here serves as an example of how you can use SAP software in your company. Business scenarios are only intended as models and do not necessarily run the way they are described here in your customer-specific system landscape. Ensure to check your requirements and systems to determine whether these scenarios can be used productively at your site. Furthermore, we recommend that you test these scenarios thoroughly in your test systems to ensure they are complete and free of errors before going live.

- This Master Guide primarily discusses the overall technical implementation of SAP Extended Warehouse Management for Fashion, rather than its subordinate components. This means that additional software dependencies might exist without being mentioned explicitly in this document. You can find more information on component-specific software dependencies in the corresponding installation guides.
1.2 Related Information

1.2.1 Planning Information
For more information about planning topics not covered in this guide, see the following content on SAP Service Marketplace:

<table>
<thead>
<tr>
<th>Content</th>
<th>Location on SAP Service Marketplace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest versions of installation and upgrade guides</td>
<td><a href="http://service.sap.com/instguides">http://service.sap.com/instguides</a></td>
</tr>
<tr>
<td>SAP Business Maps - information about applications and business scenarios</td>
<td><a href="http://service.sap.com/businessmaps">http://service.sap.com/businessmaps</a></td>
</tr>
<tr>
<td>Sizing, calculation of hardware requirements - such as CPU, disk and memory resource - with the Quick Sizer tool</td>
<td><a href="http://service.sap.com/quicksizer">http://service.sap.com/quicksizer</a></td>
</tr>
<tr>
<td>Released platforms and technology-related topics such as maintenance strategies and language support</td>
<td><a href="http://service.sap.com/platforms">http://service.sap.com/platforms</a> To access the Platform Availability Matrix directly, enter <a href="http://service.sap.com/pam">http://service.sap.com/pam</a>.</td>
</tr>
<tr>
<td>Network security</td>
<td><a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a></td>
</tr>
<tr>
<td>High Availability</td>
<td><a href="http://www.sdn.sap.com/irj/sdn/ha">http://www.sdn.sap.com/irj/sdn/ha</a></td>
</tr>
<tr>
<td>Performance</td>
<td><a href="http://service.sap.com/performance">http://service.sap.com/performance</a></td>
</tr>
<tr>
<td>Information about Support Package Stacks, latest software versions and patch level requirements</td>
<td><a href="http://service.sap.com/sp-stacks">http://service.sap.com/sp-stacks</a></td>
</tr>
<tr>
<td>Information about Unicode technology</td>
<td><a href="http://www.sdn.sap.com/irj/sdn/i18n">http://www.sdn.sap.com/irj/sdn/i18n</a></td>
</tr>
</tbody>
</table>

1.2.2 Further Useful Links
The following table lists further useful links on SAP Service Marketplace:

<table>
<thead>
<tr>
<th>Content</th>
<th>Location on SAP Service Marketplace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information about creating error messages</td>
<td><a href="http://service.sap.com/message">http://service.sap.com/message</a></td>
</tr>
<tr>
<td>SAP Notes search</td>
<td><a href="http://service.sap.com/notes">http://service.sap.com/notes</a></td>
</tr>
<tr>
<td>SAP Software Distribution Center (software download and ordering of software)</td>
<td><a href="http://service.sap.com/swdc">http://service.sap.com/swdc</a></td>
</tr>
<tr>
<td>SAP Online Knowledge Products (OKPs) – role-specific Learning Maps</td>
<td><a href="http://service.sap.com/rkt">http://service.sap.com/rkt</a></td>
</tr>
</tbody>
</table>

1.2.3 Related Master Guides
This Master Guide is based on Master Guides for cross-industry applications. You can find more information about the relevant applications in the following documents:

- SAP Apparel and Footwear 6.5 Document version 1.0 March 2011 Material number 50101344
- SAP Apparel and Footwear 6.6 Document Version 1.0 – March 2011 Material Number 50110811
1.3 Important SAP Notes

- SAP SCM EWM 7.02
- SAP SCM - EWM 9.00

1.2.4 Related Operations Information
SAP Extended Warehouse Management for Fashion is based on an SAP AFS 6.5 or 6.6 and
SAP SCM EWM 7.02 or SAP SCM EWM 9.00 system.
Therefore, the general operations information for the following areas is covered in the
operations guide of SAP AFS 6.6 and SAP SCM EWM 9.00.
These can be found in the following link.
1. SAP AFS 6.5 - http://help.sap.com/afs65
2. SAP AFS 6.6 – http://help.sap.com/afs66
3. SAP SCM EWM 7.02 or SAP SCM EWM 9.00 – http://help.sap.com/ewm
For detailed information about Enhancement Packs and the Release packs see the section
1.3 Important SAP Notes.
For a complete list of the available SAP Operations Guides, see

1.3 Important SAP Notes
You must read the following SAP Notes before you start the installation. These SAP Notes
contain the most recent information on the installation, as well as corrections to the
installation documentation.
Make sure that you have the up-to-date version of each SAP Note, which you can find on

Notes necessary in the AFS system.

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1786595</td>
<td>Installation AFSIEWM on ERP 6.0</td>
<td>Describes the installation steps of FBS component relevant for installation on ERP 6.0 IS-AFS</td>
</tr>
<tr>
<td>1786596</td>
<td>Release strategy for ABAP Add-On AFSIEWM</td>
<td></td>
</tr>
<tr>
<td>1786597</td>
<td>AFSIEWM 605: Add-On Support Packages</td>
<td></td>
</tr>
<tr>
<td>1746659</td>
<td>Transfer of data from AFS to EWM</td>
<td>Deliver new objects in the Industry specific SAP Internal badis in CIF, necessary for the transfer of batches to EWM.</td>
</tr>
</tbody>
</table>

Notes necessary in the EWM system.

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1754011</td>
<td>Stock removal strategy: Prerequisites for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1786825</td>
<td>Installation EWMIAFS auf SCM 9.0</td>
<td></td>
</tr>
<tr>
<td>1786826</td>
<td>Releasestrategie für das ABAP Add-On EWMIAFS</td>
<td></td>
</tr>
</tbody>
</table>
### 1.3 Important SAP Notes

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1786827</td>
<td>EWMIAFS 702: Add-On Support Packages</td>
<td></td>
</tr>
<tr>
<td>1755445</td>
<td>/SCWM/EX_CORE_PTS_FILT_SORT not called for buffered data</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1755552</td>
<td>Sorting SAP add-ons</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1756936</td>
<td>Replenishment: Prerequisite for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1758597</td>
<td>/scwm/repl 023 message with incorrect no of warehouse tasks</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1759479</td>
<td>Fixed storage bin assignment: Prerequisite for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1762863</td>
<td>Fixed storage bin assignmt:Service for Cust. Specific Logic</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1762874</td>
<td>Putaway strategy: Prerequisite for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1778909</td>
<td>Putaway strategy: Enhancement for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1779432</td>
<td>Replenishment: Missing parameters add-on development</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1757596</td>
<td>Fixed bin storage assignment cannot be enhanced</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1765838</td>
<td>BAdI enhancements: Prerequisites for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1734114</td>
<td>New SAP internal MAPIN BAdIs</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
</tbody>
</table>
2 SAP Extended Warehouse Management for Fashion Overview

SAP Extended Warehouse Management for Fashion offers seamless integration between SAP Apparel and Footwear 6.5 and SAP Extended Warehouse Management (SAP EWM) 7.0, SAP’s best-of-breed warehouse management system. Without SAP Extended Warehouse Management for Fashion, AFS cannot be interfaced to Extended Warehouse Management (EWM) in SCM using the existing master data and transaction data interfaces because the material and batches in the AFS system are maintained with additional AFS-specific stock keeping unit (SKU) attributes in addition to the stock-differentiating attributes in the standard SAP ERP ECC system. Furthermore, without SAP Extended Warehouse Management for Fashion, it is not possible to transfer the AFS batches to EWM.

For example, to maintain AFS products with attributes like color and size, the batches for these products are maintained with grid value and stock category that form the stock keeping units of the AFS products. These attributes are unavailable in the standard EWM solution.

The SAP Extended Warehouse Management for Fashion solution adapts the AFS system so that master data and transaction data can be exchanged between the AFS and EWM systems. Thus the AFS batches are replicated into EWM with AFS SKU attributes, which are replicated as EWM batch characteristics. Additionally, the AFS deliveries are replicated with the SKU and value-added services information into EWM deliveries.

On the EWM side, warehouse internal processes like Putaway, Picking, Replenishment, and RF Syst-guided Counting are enhanced for batches.

2.1 Software Units of SAP Extended Warehouse Management for Fashion

The solution is delivered with two components.

1. Software Component for AFS System.
2. Software Component for EWM System.

2.2 Software Component Matrix

This section provides an overview of which business scenario of SAP Extended Warehouse Management for Fashion uses which software unit.

For the latest component version and patch level requirements, see the Important SAP Notes.

This Master Guide provides just one way to implement each business scenario. For other ways to implement business scenarios, see the Scenario & Process Component List in SAP Service Marketplace at http://service.sap.com/scl. The Scenario & Process Component List helps you to find realization alternatives for SAP solutions, business scenarios and processes. It shows you which application components are needed to realize a business scenario or process.
### 2.3 System Landscape

For building the scenarios with the focused business solution minimum two systems are required. The AFS ERP and the SCM-EWM should be deployed on two differed systems as represented graphically below.

#### Business Scenario

<table>
<thead>
<tr>
<th>Master data transfer AFS to EWM</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfer of SKU Attributes on the delivery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer of Value-added services information from AFS to EWM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enhancements to EWM cross processes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Software Units

<table>
<thead>
<tr>
<th>Software Units</th>
<th>AFS Software unit</th>
<th>EWM Software unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master data transfer AFS to EWM</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Transfer of SKU Attributes on the delivery</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Transfer of Value-added services information from AFS to EWM</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Enhancements to EWM cross processes</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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**We strongly recommend that you use a minimal system landscape for test and demo purposes only. For performance, scalability, high availability, and security reasons, do not use a minimal system landscape as your production landscape.**

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October 2013 11
2.4. Overall Implementation Sequence

Purpose
The following table describes the overall installation sequence for SAP Extended Warehouse Management for Fashion. This table contains all available software units. However, to implement a specific scenario, you only need a subset of available software units. Some are only required for special processes.
For the latest component version and patch level requirements, see installation notes listed in section 1.3 above.

Process
Implementation Sequence

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Remarks/Subsequent Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Installation of all notes for AFS and EWM</td>
<td>See section 1.3 Important SAP Notes</td>
</tr>
</tbody>
</table>
Overview
The integration between SAP AFS and SAP SCM-EWM is provided for the following business scenarios.

3.1 Replication of Master Data and Batches from AFS into EWM

The integration enables the replication of IS-AFS-specific attributes on batches from IS-AFS ERP onto the EWM batches as batch characteristics. The master grid on the product master, the EAN numbers, and the attributes of the master grid are replicated into EWM as well. The weight and volume information for each SKU are also replicated to EWM as batch characteristics.

The weight and volume information on batches is for information purpose only. For the business objects needing weight and volume information for various validations like capacity calculation for bins, weight and volume of handling units, and so on, the weight and volume information is taken from the EWM product master.

SAP Extended Warehouse Management for Fashion 1.0 does not calculate the capacity of bins, handling units, and so on from the weight/volume of batches in EWM.

The replication of batches from AFS into EWM is supported for both classified and non-classified materials. This means that, for replication of SKU attributes on batches, customers do not need to assign classification classes to the materials if those materials have not already had classes assigned.

On the EWM side, the batches replicated from AFS are always classified. The SAP Extended Warehouse Management for Fashion solution ensures that a batch of an unclassified AFS material will receive a default class when replicated into EWM.

For batches that are not classified on the AFS side, it is necessary to maintain a default classification class in the following configuration node: transaction SPRO → AFS Integration with Extended Warehouse Management → Master Data Configuration → Assignment of Default Class for Transfer of SKU Attributes to EWM.

Once you create the class, you should create characteristics and assign them to the class by following the procedures below.

Once the default class has been created and assigned in the above configuration node, create the SKU attributes that should be transferred to EWM as batch characteristics.

For distribution of the batch and material master, the CIF Integration models should be deployed.

### 3.1.1 Creation of Characteristics

1. Create the AFS-specific characteristics using transaction CT04 or accessing it via SAP Menu Cross-Application Components → Classification System → Master Data → Characteristics.

2. Enter the Characteristic Name and click the Create pushbutton. The characteristics can be created with the details below. The details not mentioned are optional and can be left blank.

<table>
<thead>
<tr>
<th>Characteristics name</th>
<th>Description</th>
<th>Chars Group</th>
<th>Status</th>
<th>Data Type</th>
<th>Number of Chars</th>
<th>Value Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWMIAFS_GRIDVA LUE</td>
<td>AFS Grid Value</td>
<td>Special Application</td>
<td>Released</td>
<td>Character Format</td>
<td>8</td>
<td>Multiple Values</td>
</tr>
</tbody>
</table>
### 3 Integration between SAP EWM and SAP AFS

#### Characteristics name | Basic Data
<table>
<thead>
<tr>
<th>Description</th>
<th>Chars Group</th>
<th>Status</th>
<th>Data Type</th>
<th>Number ofChars</th>
<th>Value Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWMIAFS_STOCKCATAGORY</td>
<td>AFS Stock Catagory</td>
<td>Special Application</td>
<td>Released</td>
<td>Character Format</td>
<td>16</td>
</tr>
<tr>
<td>EWMIAFS_SEASONS</td>
<td>Seasons</td>
<td>Special Application</td>
<td>Released</td>
<td>Character Format</td>
<td>3</td>
</tr>
<tr>
<td>EWMIAFS_THEME</td>
<td>Theme</td>
<td>Special Application</td>
<td>Released</td>
<td>Character Format</td>
<td>4</td>
</tr>
<tr>
<td>EWMIAFS_COLLECTION</td>
<td>Collection</td>
<td>Special Application</td>
<td>Released</td>
<td>Character Format</td>
<td>4</td>
</tr>
<tr>
<td>EWMIAFS_WEIGHT</td>
<td>SKU Weight</td>
<td>Special Application</td>
<td>Released</td>
<td>Numeric Format</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Characteristics name | Description
<table>
<thead>
<tr>
<th>Description</th>
<th>Language</th>
<th>Values</th>
<th>Additional Data Table Name – Field Name</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWMIAFS_GRIDVALUE</td>
<td>AFS Grid Value</td>
<td>EN</td>
<td>-</td>
<td>MCHA-J_3ASIZE</td>
</tr>
<tr>
<td>EWMIAFS_STOCKCATEGORY</td>
<td>AFS Stock Category</td>
<td>EN</td>
<td>-</td>
<td>MCHA-J_4KSCAT</td>
</tr>
<tr>
<td>EWMIAFS_SEASONS</td>
<td>AFS Seasons</td>
<td>EN</td>
<td>MCHA-J_3ASEAN</td>
<td></td>
</tr>
<tr>
<td>EWMIAFS_THEME</td>
<td>AFS Theme</td>
<td>EN</td>
<td>-</td>
<td>MCHA- /AFS/THEME</td>
</tr>
<tr>
<td>EWMIAFS_COLLECTION</td>
<td>AFS Collection</td>
<td>EN</td>
<td>-</td>
<td>MCHA- AFSEWMC</td>
</tr>
<tr>
<td>EWMIAFS_WEIGHT</td>
<td>AFS SKU Weight</td>
<td>EN</td>
<td>/AFS/MARM-NTGEW</td>
<td></td>
</tr>
</tbody>
</table>

#### Characteristics name | Basic Data
<table>
<thead>
<tr>
<th>Description</th>
<th>Chars Group</th>
<th>Status</th>
<th>Data Type</th>
<th>Number ofChars (Decimal Places)</th>
<th>Value Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWMIAFS_WEIGHT</td>
<td>SKU Weight</td>
<td>Special Application</td>
<td>Release d</td>
<td>Numeric Format</td>
<td>13 (3)</td>
</tr>
<tr>
<td>EWMIAFS_VOLUME</td>
<td>SKU Volume</td>
<td>Special Application</td>
<td>Release d</td>
<td>Numeric Format</td>
<td>13 (3)</td>
</tr>
</tbody>
</table>

#### Characteristics name | Description
<table>
<thead>
<tr>
<th>Description</th>
<th>Language</th>
<th>Values</th>
<th>Additional Data-Table Name – Field Name</th>
<th>Restrictions</th>
</tr>
</thead>
</table>
3. Integration between SAP EWM and SAP AFS

<table>
<thead>
<tr>
<th>Characteristics name</th>
<th>Description</th>
<th>Language</th>
<th>Values</th>
<th>Additional Data-Table Name – Field Name</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWMIAFS_WEIGHT</td>
<td>AFS SKU Weight</td>
<td>EN</td>
<td>-</td>
<td>/AFS/MARM-NTGEW</td>
<td></td>
</tr>
<tr>
<td>EWMIAFS_VOLUM</td>
<td>AFS SKU Volume</td>
<td>EN</td>
<td>-</td>
<td>/AFS/MARM-VOLUM</td>
<td></td>
</tr>
</tbody>
</table>

3. Click the Save pushbutton to store the data. This covers all the data necessary to define a characteristic, which can be assigned to a class, created in next step.

⚠️ Most important: Be sure to add the reference to table /AFS/MARM field NTGEW and the reference to table /AFS/MARM field VOLUM in the additional data tab.

### 3.1.2 Creation of Default Class to Transfer SKU Attributes as Batch Characteristics in EWM

This step describes the activity of creation of a Class in the AFS system for the replication of batch SKU attributes as batch characteristics in EWM. Please note that the class should be created with the identical name as in AFS system, in the EWM System as well. The automatic replication of Class from AFS into EWM System is not possible.

1. Go to SAP Menu → Cross Application component → Classification system → Master Data → CL02– Classification.
2. Choose a class name – for example, /AFSIEWM/CLASS.
3. Choose a class type: 022.
4. Define AFS Specific new Organizational Area Indicator by assigning object “Batch” to the Class Type “Batch”. We need this Indicator when transporting Data from ERP to EWM (SCM) to identify which Classes belong to our data and needed to be transport via CIF.
5. Access transaction via customizing SPRO → Cross-Application Components → Classification System → Classes → Maintain Object Types and Class Types.

⚠️ Because Class System is a generic tool that can be used by many objects, it is necessary to find the correct Object “Batch” (MCHA) to use and to add our own Organizational Area.

When defining Organizational Areas, remember the installation of your ERP/SCM system landscape.

In your ERP System you have to be sure to create your Organizational Area for Object Table MCHA.

Its important that you use Class Type 022 for your new entry.

5. In the SCM system you have to open the same customizing transaction, but you also have to define your Organizational Area for Object Table /SAPAPO/VERSKEY.

⚠️ Here its important that you use Class Type 230 when creating your entry. Assign the Characteristics created in the steps above.

In the AFS system, once the classification class is created, add the characteristics created in above section in the Tab “Char.” of the above class.
3.1.3 Assignment of Default Class for Replication of Batches from AFS into EWM if the Material Is Not Classified.

In this step you assign the default class for batches of non-classified materials in AFS, so that the SKU attributes on the AFS batches can be replicated as batch characteristics in EWM.

To do this navigate to transaction SPRO → AFS Integration with Extended Warehouse Management → Master Data Configuration → Maintain the SCM System type for the destination

Maintain following information.

1. EWM Logical destination – for example, YWACLNT100.
2. ERP Plant from which the batches have to be transferred – for example, 1000.
3. The default class name for the classification of batches in EWM if the AFS material is not classified, as in section 3.1.2 – for example, /AFSIEWM/CLASS.

3.1.4 Restricting Changes of Batches in EWM via User Authorization

AFS is the leading system for the creation and change of batches. The creation and change of batches in EWM is not supported. Thus, in the EWM system, users should be prohibited from changing the batches via the authorization control for each user.

Only the display activity for batches is allowed.

To do this, restrict the Change activity for Authorization object /SCWM/CHG for all the users in the EWM system. This can be done using transaction PFCG.

3.2 Replication of AFS Attributes on Delivery from AFS into EWM

The AFS-specific attributes from the delivery items (inbound and outbound deliveries) are sent to the EWM system via an enhancement, and they are stored as the EWM delivery item attributes.

These AFS-specific attributes in the EWM system can be used by customers in such customer-centric processes as the printing of labels, customer-specific putaway strategies, and more.

This feature is switchable on the EWM side via the configuration that can be done as described below.

Table /EWMIAFS/DLVAFS has to be maintained to ensure the delivery of data from AFS to EWM.

The data below is provided as an example only.

<table>
<thead>
<tr>
<th>MANDT</th>
<th>LGNUM</th>
<th>DOC_CAT</th>
<th>ITEM_CAT</th>
<th>FLG_ACTIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>WH01</td>
<td>IDR</td>
<td>DLV</td>
<td>X</td>
</tr>
<tr>
<td>100</td>
<td>WH01</td>
<td>ODR</td>
<td>DLV</td>
<td>X</td>
</tr>
</tbody>
</table>

Access the necessary customizing via transaction SPRO → Extended Warehouse Management → AFS Integration with Extended Warehouse Management (EWM) → AFS-EWM Delivery Integration → Encapsulation of AFS Delivery enhancements (Batch Attributes).

In AFS, the table /AFSIEWM/MAP_DEL has to be maintained to ensure the mapping of delivery data from EWM.

The data below is provided as an example only.
Access transaction via customizing SPRO → AFS Integration with Extended Warehouse Management → Delivery Enhancements AFS → EWM → Delivery Customising for AFS-EWM Integration.

- **AFS**
  
  `/AFSIEWM/AFS_EWM_CONFIG`: contains delivery customizing

- **EWM**
  
  `/EWMIAFS/AFS_EWM_CONFIG`: contains cross process customizing

The AFS-specific product information that comes from the AFS system is shown in a new screen on the delivery in EWM and contains the following information:

- Grid Value
- Stock category
- AFS Season Indicator
- Collection
- Theme

To access this information, navigate to a delivery and click an item, then click 'switch to form view' and scroll down to see the AFS Batch Attributes tab.

### 3.2.1 Inbound Delivery

An inbound delivery is created in SAP ERP-AFS. When this inbound delivery is saved in SAP ERP-AFS, the Standard Delivery Interface BAdI is called before transferring the data to SAP EWM. This BAdI is implemented on the SAP ERP-AFS side to fill a customer extension table of the Inbound Delivery Interface with the AFS specific data. The Inbound Delivery data, along with the additional AFS-specific data, will then be transferred to SAP EWM via the arc processing. On the SAP EWM side, a similar SAP EWM Standard Interface BAdI is implemented to extract the AFS-specific data from the extension table filled on the ERP side. The received AFS-specific data is saved in SAP EWM together with the standard inbound delivery data. AFS-specific fields are saved in a special AFS-specific append of the inbound delivery.

The following data is transferred from SAP ERP-AFS to SAP EWM and mapped into new fields of the EWM inbound delivery items.
Due to the fact that the proposed AFS fields do not exist in EWM, the existing standard EWM flow is not influenced at all. The AFS-specific data is moved into fields of the customer append.

### 3.2.1.1 Replication of Batches via the AFS Inbound Delivery

AFS does not support the creation of batches in the decentralized WMS, but rather in the centralized ERP system when the inbound delivery is created. Along the same lines, the creation of batches in EWM connected to an AFS system will not be allowed. This will be ensured via a central system configuration table /SCWM/TCTRLVERSS. If a new batch is created in the inbound delivery in the ERP system that does not yet exist in EWM, this batch will be replicated via the inbound delivery to the decentralized WMS. The SKU attributes will be also sent with the inbound delivery to EWM. In EWM these SKU attributes will be replicated as batch characteristics.

### 3.2.1.2 Batch Splits during the Inbound Delivery Processing in EWM

Batch splits during inbound delivery processing will not be supported in the integrated AFS-EWM system setup because the allocation run already creates delivery item splits for the inbound delivery. Thus these delivery items, once replicated in EWM, should not be changed at all.

### 3.2.2 Outbound Delivery

The outbound processing in AFS begins with the creation of a sales order in AFS ERP. The allocation run is an AFS-specific function that takes over the job of optimizing the available stock to open requirements. The output of the ARUN is then reservations of stock for the sales order schedule lines. The outbound delivery is created by ARUN (the allocation run transaction). For instances of decentralized warehouse management, the outbound delivery is replicated to the EWM system if the storage location in delivery is a EWM managed storage location. This is a standard processes in ERP-EWM as well as AFS-EWM.

When ARUN is run in AFS, the sales order item requirements are checked against the available stock and the optimised allocation leads to creation of outbound delivery. The outbound delivery inherits the details of sales order stock in terms of its SKU details. To each SKU, a unique batch is determined by the ERP system and the quantity allocation to each item is performed. As a result, the main item lines in the outbound delivery are split as per the ordered SKU details in order to cover the sales order item product and quantity. The sales order item lines are created as batch splits as per the material matrix taking care of the ordered combination of AFS Material SKU attributes (color, size, and so on).

To see the details of the AFS attributes, navigate to the AFS data. The two AFS attributes Grid Value and Stock Category will be sent to the EWM system along with the standard delivery item attributes to EWM. These two attributes on the EWM side can then be used by customers during their implementation project. Typical usage of the delivery attributes could include printing of labels, printing of picking lists, stock removal strategy specific to AFS attributes, and so on.

As these processes are very much customer-specific, these are not part of SAP Extended Warehouse Management for Fashion.

The following data is transferred from SAP ERP-AFS to SAP EWM and mapped into new fields of the EWM inbound delivery items.
3 Integration between SAP EWM and SAP AFS

<table>
<thead>
<tr>
<th>AFS_TABNAM</th>
<th>AFS_FNAM</th>
<th>EWM_FNAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIPS</td>
<td>J_3ASIZE</td>
<td>/EWMAIFS/J_3ASIZE</td>
</tr>
<tr>
<td>MCHA</td>
<td>/AFS/COLLECTION</td>
<td>/EWMAIFS/COLLECTION</td>
</tr>
<tr>
<td>MCHA</td>
<td>/AFS/THME</td>
<td>/EWMAIFS/THME</td>
</tr>
<tr>
<td>MCHA</td>
<td>J_3ASEAN</td>
<td>/EWMAIFS/J_3ASEAN</td>
</tr>
<tr>
<td>MCHA</td>
<td>J_4KSCAT</td>
<td>/EWMAIFS/J_4KSCAT</td>
</tr>
</tbody>
</table>

Due to the fact that the AFS fields do not exist in EWM, the existing standard EWM flow is not influenced at all. The AFS-specific data is moved into fields of the customer append (for example, /SCDL/INCL_EEW_DR_ITEM_STR). This structure is designed to be used for AFS- or customer-specific data in the EWM inbound delivery on the item level. For the transferred AFS data, the above fields should be provided in the customer append:

The enhancement of structure /SCDL/INCL_EEW_DR_ITEM_STR with AFS-specific attributes reflects the database enhancements for the inbound delivery as well as outbound delivery. This structure is common for both delivery documents hence has to be implemented only once.

3.2.2.1 Goods Issue to Outbound Delivery

A goods issue from EWM is a physical departure of products from the warehouse. The goods issue to a warehouse request (outbound delivery order) has following preprocessing steps:

1. Storage bin determination for stock removal
2. Stock removal
3. Packing
4. Loading

Posting the goods issue to the outbound delivery order or final delivery in EWM results in sending the goods movement message back to ERP. The goods movement message performs the posting in ERP corresponding to the ERP outbound delivery item and the stock information including the batch is updated.

3.2.2.2 Batch splits during the outbound delivery processing in EWM.

Due to the fact that the ARUN already does the planning and allocation of available quantities and the fact that the stock in EWM-managed storage location is synchronized in real time in the AFS ERP system, the warehouse cannot split the outbound delivery items for the ordered batches and thereby the SKUs. Thus outbound delivery item splits will not be supported in EWM analog to the AFS ERP-based warehouse management.

3.3 Replication of Value-added Services data from AFS into EWM

3.3.1 General

The integration provides support to replicate AFS VAS data to EWM. Value-added services on the AFS side can be maintained in the purchase order for vendors as well as in sales order for customers. VAS data in the purchase order is more information towards the vendor (for example, put a label on a shirt). VAS data in the sales order is more related to the processes before shipping to the customer (for example, before goods issue in the
warehouse a label has to be put on the shirt). In AFS, outbound deliveries are created based on the SD order and the inbound deliveries are created from purchase orders. Here the term delivery stands for both inbound and outbound delivery. During the replication of the delivery to the EWM side, the new development checks if the delivery from AFS and the related order contain VAS items. SAP EWM for fashion saves the VAS data in new database tables. This information is then available in the EWM system. AFS VAS data in EWM is for information purposes only. AFS is always the leading system for AFS VAS. Due to the fact that the billing processes of AFS-VAS is carried out after receiving the goods movement messages from decentral warehouse system, the connection of EWM to AFS does not change any process related to the VAS Billing in AFS.

The following customizing and master data settings are necessary to enable value-added services:

- Customer master
- Order type
- Item category
- Material master

AFS VAS data is passed from AFS to EWM. This is done during the delivery creation in AFS system and its replication in EWM (see chapter 3.2).

There are three classes of value-added services in the AFS system that are predefined in the system and cannot be changed:

- Ticketing/Labeling
- Packing
- Special service

To access this information, navigate to a delivery and click on an item. Then click 'switch to form view' and scroll down to see the AFS Batch Attributes tab or the VAS data tab.

### 3.3.2 Standard Customizing Settings for VAS

To learn more about how to set up VAS for standard AFS, visit [http://help.sap.com/afs](http://help.sap.com/afs).

#### Define VAS Types in AFS

Each value-added service has a certain type. These types can be defined in the customizing. One order item can only have one VAS of a certain class and type. In the SAP Easy Access Menu use transaction SPRO or navigate to Tools → Customizing → IMG → Execute Project. Then a new Session opens and click on the top left SAP Reference IMG. Navigate through Sales and Distribution → Basic Function → AFS Value-Added Services → VAS Types to:

1. Define ticketing/labeling types
2. Define ticketing/labeling text types
3. Define packing types
4. Define mix indicator groups for packing types
5. Define special service types

In order to define a type, execute one of the above mentioned activities and enter type and description. These VAS types will be shown in the delivery where the user enters the VAS data.

#### Define Condition Tables in AFS

Value-added services can also be linked to conditions that are technically stored in condition tables. The following screen shot shows the relevant customizing for VAS in the AFS system. In the SAP Easy Access Menu use transaction SPRO or navigate to Tools → Customizing → IMG → Execute Project. When a new session opens, click SAP Reference IMG. Navigate
through Sales and Distribution → Basic Function → AFS Value-Added Services → Control for VAS Determination to
1. Define field catalog
2. Define condition tables
3. Define access sequences
4. Define condition types
5. Define determination procedure

VAS can use standard condition technique. Value-added services are taken into account throughout the entire sales process. VAS data also uses the standard condition technique to maintain prices for VAS services. The price information for VAS services will not be passed to the EWMS system because prices are not relevant for EWM processes and the billing is done in AFS. Technically, VAS items are copied from order documents to corresponding delivery documents. VAS appear on invoices and influence pricing according to defined VAS conditions.

3.3.3 Display VAS data in EWM
There are three classes of value-added services in the AFS system that are predefined in the system and cannot be changed:
- Ticketing/Labeling
- Packing
- Special service

To access this information, navigate to a delivery and click an item. Then click 'switch to form view' and scroll down. There you can see the tabs 'VAS Ticketing/Labeling', 'VAS additional Text', 'VAS Packing', and 'VAS Service', which display the data transferred from AFS to EWM.

3.3.4 Example Implementation and Smart Forms
There is no direct connection between AFS VAS and EWM VAS. AFS VAS and EWM VAS are totally different from the process and technical point of view. Within SAP Extended Warehouse Management for Fashion, a development indicating the use of AFS-VAS in EWM VAS is demonstrated. Customers can build their VAS-related processes based on the concept.

3.3.4.1 Example Implementation
In a delivered example implementation, the AFS VAS data is integrated with the EWM VAS data.

The example implementation gives an idea of how AFS and EWM VAS can be combined.
1. Access the customizing transaction via SPRO → Business Add-Ins (BAdIs) for Extended Warehouse Management → Cross Process Settings → Value-Added Services. → Create a VAS Order → BAdl: Create Activities for a VAS order.
2. Select BAdl Implementation /EWMIAFS/VAS_ORDER_ACCTIVITY

Transaction /SCWM/VAS is used to display AFS VAS and EWM VAS data. If a package specification exists, the VAS data is displayed in this transaction in so called activities. Thus the AFS VAS data is read from the database tables and added to the transaction via activities.

In BAdl /SCWM/EX_VAS_CREATE_ACTIVITIES, enhancement Implementation /EWMIAFS/VAS_ORDER_ACTIVITIES, BAdl Implementation /EWMIAFS/VAS_ORDER_ADD_ACTIVITIES, the AFS VAS data is added.
3 Integration between SAP EWM and SAP AFS

3.3.4.2 Report to print VAS
A smartform is used to print VAS data. Therefore smartform /SCWM/VAS_ORDER is copied and added with AFS VAS data in the loop delivery of the Main Window. The name of the smartform is /EWMIAFS/PRINT_VAS. To access the smartform, execute transaction /SCWM/VAS.

3.4 Enhancements to EWM cross processes for batch managed products.
In EWM, the put away, picking, and replenishment functionality is enhanced by warehouse/entitled/product/batch settings, overriding the warehouse/entitled/product settings. Except for the maintenance functionality, all coding can be found in BAdIs and is called in the process of running EWM standard functionality.
For system-guided RF inventory counting, the standard logical transaction has been copied (Customizing) and enhanced (Coding) where necessary.
A list of APIs is provided that can be used in customer-coding in order to select AFS-EWM specific data.

3.4.1 Enhancements for batch-based put away, picking and replenishment
The enhancements for EWM are solely based on batches – that is, grid values and the like are not considered technically for the EWM processes supported by the EWM-AFS solution.
Assumptions:
- A fixed bin must be assigned to maximum one warehouse/entitled/product/batch at one time – that is, a fixed bin must have a maximum of one warehouse/entitled/product/batch in a program run.

**Warning**
Weight and volume for a batch are maintained for information purposes only. For the capacity calculation of a bin, handling unit, and so on, the weight and volume information is taken from the product. It is therefore recommended that you maintain the maximum weight and volume of all (SKU) batches in the product master.
The following description omits the "warehouse/entitled" part in "warehouse/entitled/product/batch" to allow for better readability.
Dynamic storage types/bins are those that are not fixed bins.

3.4.1.1 Transaction /EWMIAFS/MDPRBTCH
In this transaction you display, change, or create the product/batch-based settings for warehouse internal processes like putaway, picking, and replenishment that will override those from product.
This transaction also displays other AFS related data plus the packing specifications for the grid value, all assigned fixed bins for the product and the stock for the batch.
All settings are optional; if nothing is maintained for a value, the values from the product->Warehouse specific data->Putaway or Stock removal will be taken, if maintained here.
It is mandatory though that when product/batch-based settings are used, those in the product->Warehouse specific Data → Putaway or Stock Removal, are also maintained.
For example, put away Control Indicator (PACI):
- If maintained in product/batch and in product, PACI from product/batch is used.
- If not maintained in product/batch but in product, PACI from product is used.
- If nothing is maintained in product/batch nor in product, no PACI is determined – that is, no destination bin found.
Details on the fields in this transaction can be found in the application help.

3.4.1.2 Transaction /SCWM/BINMAT
This standard transaction needs to be used for any product that is not batch managed, and it must not be used for any product that is batch managed. An appropriate message is displayed upon usage of the transaction, but nothing else is provided to prevent a user from using it other than design. It is recommended that you provide layouts where the added fields are hidden (batch, batch GUID, minimum replenishment quantity).

3.4.1.3 Encapsulation
Basically the functionality is encapsulated by three tables. If respective fields/lines are not maintained, then the EWM-AFS processing is skipped. However, as some exits are called for by put away and picking but are not required for both, we also encapsulate by warehouse process type. But this setting is technical (control the BAdI contents) and cannot be used functionality.

3.4.1.4 Put away
Defined on product/batch overriding the settings on product:
- Put away control indicator (PACI)
- Storage section indicator (SSI)

Defined on product/batch level for dynamic storage types overriding the product/ storage type settings:
- Maximum number of bins per storage type

Enhancements for storage type/section/bin search:
- Put away control indicator and search sequence are determined and replace the one from the product.
- Storage Section Indicator is determined and replaces the one from the product.
- Storage section search is determined and replaced and re-run.
- For fixed bin storage type: fixed bin retrieval for batch; reject when not for the current batch.
- For dynamic storage type: get maximum number of bins per storage type on batch level and check.
- Near fixed bin strategy, get the starting bin: filter the list of fixed bins for material with the reference storage type by batch and take the first one left.

Enhancements when storage type/section/bin provided (by the user):
- Storage section search: re-run
- Fixed bin check: reject when not for the current batch
- For dynamic storage type: get maximum number of bins per storage type on batch level and check; reject if applicable

3.4.1.5 Picking
Defined on product/batch overriding the product settings:
- Stock Removal Indicator (SRI)

Enhancements for Storage type/section/bin search:
- Stock Removal Indicator and search sequence are determined and replace the one from the product
- Determine rough bin during delivery item creation/change
3 Integration between SAP EWM and SAP AFS

3.4.1.6 Replenishment
Defined on the product/batch level for fixed bin assignments overriding the product/storage type settings for fixed bin storage types:
- Minimum replenishment quantity

Remark: the overriding of the product/storage type settings for
- Maximum quantity.
- Minimum quantity.
by the fixed bin assignments is EWM standard.

Defined on the product/batch level for dynamic storage types overriding the product/storage type settings for dynamic bin storage types:
- Maximum quantity.
- Minimum quantity.
- Minimum replenishment quantity.

The units of measure in the maintenance transaction are used as follows:
- For dynamic bins all UoMs are in the warehouse UoM and cannot be changed by the user.
- For fixed bins, the logic is the same as in transaction /SCWM/BINMAT: The quantity displayed is in the UoM displayed (if different to the warehouse UoM) but stored in warehouse UoM on the database.

For the selection of bins to be replenished:
- Batch added to display in the replenishment report /SCWM/REPL.
- For fixed bins with fixed bin replenishment: get and change the minimum replenishment quantity, recalculate the replenishment quantity.
- For dynamic bins with storage type replenishment: replace the product/storage type line by all batches maintained for this combination; for each batch line now get all the replenishment parameters, calculate the replenishment quantity based on the stock per batch.

For actual replenishment:
- Move the batch from the extended replenishment structure to the task table (replenishment report) or determine batch from table /SCWM/BINMAT when fixed bin.

3.4.2 RF system-guided inventory counting (batches)
Compared to the standard logical transaction IVCOUN, there are two additions to the supported EWM-AFS logical transaction – for example, CDIVCG:

1. As soon as the product is verified (if customized so) the batch is displayed to the user on an additional screen. The user can confirm, in which case the transaction processes as in standard, or the user can reject, and the system proposes the empty bin indicator. The user can now either save to the database or leave the counting without saving. If the batch has been rejected, the user needs to organize the pick-up of the product from the counted bin to be transported to the respective clarification zone, where it will then be treated as product found.

2. During the counting process a new screen can be called (template function code: F2 SKU) that displays for the product/batch the SKU attributes and the SKU values.
3.4.3 EWM-AFS specific Customizing

3.4.3.1 Encapsulation of put away, picking and replenishment per warehouse process type

Table /EWMIAFS/ENC_WPT should hold all warehouse process types that are relevant for batch-based put away, picking, or replenishment. Examples are included in the software delivery and can be found in BC set /EWMIAFS/AFS_EWM_CONFIG:

<table>
<thead>
<tr>
<th>Warehouse Number/Warehouse Complex</th>
<th>Warehouse Process Type</th>
<th>AFS put away enhancement activation status</th>
<th>AFS removal strategy enhancement activation status</th>
<th>AFS replenishment enhancement activation status</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>1010</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0001</td>
<td>1011</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>0001</td>
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<tr>
<td>0001</td>
<td>9010</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.4.3.3 RF Framework: Define steps in logical transaction

For a new logical transaction – for example, CDIVCG – the following must be done to obtain the two features described above in section 3.4.2. All names are mandatory except for the name of the logical transaction (needs to be in customer namespace). No BC set is provided.

1. Define application parameters, both are used to pass the batch data to the new SKU screen 5901; for more details see their DDIC definition.
   a. YS_BATCH_CHAR, type /EWMIAFS/S_BATCH_CHARACTS
   b. YT_BATCH_CHAR, type /EWMIAFS/TT_BATCH_CHARACTS
2. Define steps: YSKUDT, Text "SKU Details"
   a. This defines the YSKUDT step for the new SKU attributes screen
3. Define function codes.
   a. YBTCHN for handling the rejection in the batch pop-up
   b. YSKUDT for handling the navigation to the new SKU attributes screen
4. Define the function code text for the YSKUDT fcode (it will be shown on the button)
   a. EN, ****, **, 8, "SKU" or anything applicable.
5. Define new logical transaction: Copy over logical transaction IVCOUN to CDIVCG with all lower-level items.
6. In the new logical transaction the following changes and additions are required:
   a. Define Logical Transaction Step Flow, step IVBIN: we replace the assigned function modules with the copied and enhanced ones
      i. Function Code BACKF module /EWMAFS/RF_BIN_IVBIN_PA
      ii. Function Code BIN module /EWMAFS/RF_BIN_IVBIN_PBO
      iii. Function Code BINENT module /EWMAFS/RF_BIN_IVBIN_PBO
      iv. Function Code ENTER module /EWMAFS/RF_BIN_IVBIN_PA
      v. Function Code EXCEPT module /EWMAFS/RF_BIN_IVBIN_PA
      vi. Function Code INIT module /EWMAFS/RF_BIN_IVBIN_PBO
      vii. Function Code LOCLI module /EWMAFS/RF_BIN_IVBIN_PA
      viii. Function Code MATDE module /EWMAFS/RF_BIN_IVBIN_PAI
      ix. Function Code REVERS module /EWMAFS/RF_BIN_IVBIN_PA
      x. Function Code SKIP module /EWMAFS/RF_BIN_IVBIN_PA
      xi. Function Code SKIPTE module /EWMAFS/RF_BIN_IVBIN_PA
      xii. Function Code UPDBCK module /EWMAFS/RF_BIN_IVBIN_PBO
   b. Define Logical Transaction Step Flow, step IVMOHV: we replace the assigned function modules with the copied and enhanced ones
      i. Function Code BACKF /EWMAFS/RF_MAT_IVMOHV_PA
      ii. Function Code CLSUM module /EWMAFS/RF_MAT_IVMOHV_PA
      iii. Function Code ENTER module /EWMAFS/RF_MAT_IVMOHV_PA
      iv. Function Code EXCEPT module /EWMAFS/RF_MAT_IVMOHV_PA
      v. Function Code FCCWCA module /EWMAFS/RF_MAT_IVMOHV_PA
      vi. Function Code HUCR module /EWMAFS/RF_MAT_IVMOHV_PA
      vii. Function Code MAT module /EWMAFS/RF_MAT_IVMOHV_PBO
      viii. Function Code MATDE module /EWMAFS/RF_MAT_IVMOHV_PAI
      ix. Function Code MATEMP module /EWMAFS/RF_MAT_IVMOHV_PA
      x. Function Code MATENT module /EWMAFS/RF_MAT_IVMOHV_PBO
      xi. Function Code NEWITM module /EWMAFS/RF_MAT_IVMOHV_PA
      xii. Function Code PGDN module /EWMAFS/RF_MAT_IVMOHV_PA
      xiii. Function Code PGUP module /EWMAFS/RF_MAT_IVMOHV_PA
      xiv. Function Code SAVE module /EWMAFS/RF_MAT_IVMOHV_PA
      xv. Function Code UPDBCK module /EWMAFS/RF_MAT_IVMOHV_PBO
   c. Define Logical Transaction Step Flow, step IVMOHV
      i. We add function code YBTCHN, module /EWMAFS/RF_MAT_IVMOHV_PBO, next step IVMOHV, foreground
      ii. We add function code YSKUDT, new module /EWMAFS/CP_MAT_BTCH_SKUDT_PBO, next step YSKUDT, foreground
   d. Define Logical Transaction Step Flow
      i. Add new step YSKUDT, function code BACKF, new module /EWMAFS/CP_MAT_BTCH_SKUDT_PA, next step IVMOHV, background, background fundate MAT (The only available function code on the new SKU screen is BACKF)
e. Define Function codes profile for CDIVCG, step IVMOHV
   i. A new record is introduced for Function code YSKUDT with the attributes: pushbutton 2, function key F2, shortcut 02.
   ii. These attributes are taken over from Function code NEWITEM and have to be cleared in that fcode (in case NEWITEM one is still required, any other button can be replaced)

f. Map logical transaction step to sub-screen
   i. New step YSKUDT, State ******, screen sequence 01, screen program /EWMIAFS/SAPLCP_INV_RF, screen number 5901

3.4.3.2 RF Framework: RF menu manager
No BC set is provided for the new menu item. Any RF setup can only be a template that can be used to code and customize customer-specific logical transactions. For example if you want to add another button to the inventory counting RF menu:
   1. From Menus and Logical Transaction, choose Main.
   2. In the menu hierarchy choose Internal Processes → Inventory Counting.
   3. Click Display selected hierarchy.
   4. Add an entry under the two existing counting options. Add “Inventory Counting Guided (Batches)” with logical transaction CDIVCG used as example in the previous section.

3.4.4 EWM-AFS specific authorizations
An additional authority is only required for the new maintenance transaction /EWMIAFS/MDPRBTCH. The authority object is /EWMIAFS/P with the following fields:
   ACTVT Activity
   APO_LOC Location
   APO_PROD Product number
   APO_VERS Planning version

3.4.5 APIs
The APIs listed are provided. Examples of how to call them can be found in report /EWMIAFS/TEST_AFS_API. Details on the APIs themselves can be found in the system after implementing the EWM-AFS solution.
   • Get batch characteristic for a product, function module /EWMIAFS/BATCHES_FOR_PRODUCT
   • Get all products for a grid value, function module /EWMIAFS/PRODUCTS_FOR_GRID_VAL
   • Get batch characteristic for a delivery item, function module /EWMIAFS/BATCH_FOR_DLV_ITEM
   • Get the batch SKU information for a handling unit item, function module /EWMIAFS/BATCHES_HU_READ

3.5 Technical System Landscape
For the technical system landscape, refer to the implementation guides for the AFS and EWM software components.
These details can be found at the following links:
   • For Industry solution AFS
     http://help.sap.com/afs
   • For SCM-EWM
     http://help.sap.com/ewm
4 Solution-Wide Topics

For the general installation information, Solution Manager content, and Netweaver-related topics please refer to the following SAP IS-AFS and SAP SCM-EWM documents:

- For IS-AFS  
  http://help.sap.com/afs

- For SCM-EWM  
  http://help.sap.com/ewm
5 Security Considerations

This section provides an overview of the security considerations that are specific to the SAP IS-AFS and SAP SCM-EWM solutions.

The FBS Extended Warehouse Management for Fashion is built on a SAP IS-AFS 6.6 and SAP SCM-EWM 7.02 system. Therefore, the corresponding security settings also apply to FBS Extended warehouse management for Fashion.

5.1 Fundamental Security Guides

For a complete list of the available SAP security guides, see SAP Security Guides on SAP Service Marketplace at http://service.sap.com/securityguide. The current version of the SAP NetWeaver security guide, which deals with general security issues, is also available via this quick link.

The security guides for the SAP AFS and SAP SCM EWM are applicable here.

Additional Information

For more information about specific security topics, see the following locations on SAP Service Marketplace as shown in the table below:

<table>
<thead>
<tr>
<th>Content</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security</td>
<td><a href="http://service.sap.com/security">http://service.sap.com/security</a></td>
</tr>
<tr>
<td>Security Guides</td>
<td><a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a></td>
</tr>
<tr>
<td>Released Platforms</td>
<td><a href="http://service.sap.com/platforms">http://service.sap.com/platforms</a></td>
</tr>
<tr>
<td>Network Security</td>
<td><a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a></td>
</tr>
<tr>
<td>Infrastructure Security</td>
<td><a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a></td>
</tr>
<tr>
<td>SAP Solution Manager</td>
<td><a href="http://service.sap.com/solutionmanager">http://service.sap.com/solutionmanager</a></td>
</tr>
</tbody>
</table>
# List of Documents

The following table lists all documents mentioned in this Master Guide.

<table>
<thead>
<tr>
<th>Title</th>
<th>Where to Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP Apparel and Footwear 6.6 Document Version 1.0 – March 2011 Material Number50110181</td>
<td><a href="https://websmp204.sap-ag.de/~sapidb/01100035870000272742011E">https://websmp204.sap-ag.de/~sapidb/01100035870000272742011E</a></td>
</tr>
<tr>
<td>SAP SCM - EWM 7.02</td>
<td><a href="https://websmp210.sap-ag.de/~form/sapnet?_SHORTKEY=01100035870000741720&amp;">https://websmp210.sap-ag.de/~form/sapnet?_SHORTKEY=01100035870000741720&amp;</a></td>
</tr>
<tr>
<td>SAP AFS 6.6 documentation</td>
<td><a href="http://help.sap.com/afs65">http://help.sap.com/afs65</a></td>
</tr>
<tr>
<td>SAP SCM EWM 7.02 documentation</td>
<td><a href="http://help.sap.com/ewm">http://help.sap.com/ewm</a></td>
</tr>
<tr>
<td>All SAP Operations Guides</td>
<td><a href="http://service.sap.com/instguides">http://service.sap.com/instguides</a></td>
</tr>
<tr>
<td>SAP Security Guides</td>
<td><a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a></td>
</tr>
</tbody>
</table>

# List of SAP Notes

The following table lists all SAP Notes mentioned in this Master Guide.

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1786595</td>
<td>Installation AFSIEWM on ERP 6.0</td>
<td>Describes the installation steps of FBS component relevant for installation on ERP 6.0 IS-AFS</td>
</tr>
<tr>
<td>1786596</td>
<td>Release strategy for ABAP Add-On AFSIEWM</td>
<td></td>
</tr>
<tr>
<td>1786597</td>
<td>AFSIEWM 605: Add-On Support Packages</td>
<td></td>
</tr>
<tr>
<td>1746659</td>
<td>Transfer of data to APO and EWM</td>
<td>Deliver new objects in the Industry specific SAP Internal badis in CIF, necessary for the transfer of batches to EWM.</td>
</tr>
<tr>
<td>1754011</td>
<td>Stock removal strategy: Prerequisites for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1786825</td>
<td>Installation EWMIAFS auf SCM 9.0</td>
<td></td>
</tr>
<tr>
<td>1786826</td>
<td>Releasestrategie für das ABAP Add-On EWMIAFS</td>
<td></td>
</tr>
<tr>
<td>1786827</td>
<td>EWMIAFS 702: Add-On Support Packages</td>
<td></td>
</tr>
<tr>
<td>1755445</td>
<td>/SCWM/EX_CORE_PTS_FILT_SORT not called for buffered data</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
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<td>Title</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------------------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>1755552</td>
<td>Sorting SAP add-ons</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1756936</td>
<td>Replenishment: Prerequisite for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1758597</td>
<td>/scwm/repl 023 message with incorrect no of warehouse tasks</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1759479</td>
<td>Fixed storage bin assignment:Prerequisite for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1762863</td>
<td>Fixed storage bin assignmt:Service for Cust.Specific Logic</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1762874</td>
<td>Putaway strategy: Prerequisite for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1765838</td>
<td>BAdI enhancements: Prerequisites for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1778909</td>
<td>Putaway strategy: Enhancement for add-on</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1779432</td>
<td>Replenishment: Missing parameters add-on development</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1757596</td>
<td>Fixed bin storage assignment cannot be enhanced</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
<tr>
<td>1734114</td>
<td>New SAP internal MAPIN BAdIs</td>
<td>Prerequisite Notes for FBS installation in EWM System</td>
</tr>
</tbody>
</table>
7 Release Availability Information

For more information about currently available releases for SAP Extended Warehouse Management for Fashion, and for each release, the SAP standard software required to install and use the solution, see http://www.service.sap.com/fbs/availability.