SAP S/4HANA 1809 FPS01 Fully-Activated Appliance: Warehouse Inbound Processing from Supplier
Demo Guide
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Document History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>&lt;2019-04-15&gt;</td>
<td>Release for customer</td>
</tr>
</tbody>
</table>
1 Where Can This Script Be Used?

This demo script has been written for usage with the SAP S/4HANA 1809 Feature Package Stack 01 (FPS01) Fully-Activated Appliance (in short “appliance” in this script), hence you will need such an appliance to make use of this guide. The appliance can be brought up in two ways, and the demo scenario in this script is largely the same for both:

1. Via SAP Cloud Appliance Library (hosted on cloud providers)
   You need a cloud provider account at AWS, MS Azure, or GCP. With this, you can deploy the appliance within 1-2 hours from https://cal.sap.com > Solutions > SAP S/4HANA 1809 FPS01 Fully-Activated Appliance.

2. Via installing it on your own on-premise hardware.
   You need to provide your own hardware, and order & install the appliance as explained in SAP Note 2041140.

If you are new to the SAP S/4HANA Fully-Activated Appliance, introductory information can be found here: https://blogs.sap.com/2018/12/12/sap-s4hana-fully-activated-appliance-create-your-sap-s4hana-1809-system-in-a-fraction-of-the-usual-setup-time/

Important:
Before you start your demo, please read SAP S/4HANA Fully-Activated Appliance: Demo Scripts for information about necessary preparations, especially any post-deployment steps to ensure the full functionality of your appliance. Besides this, you will also find links to all demo scripts on this page.
# Demo Story: Warehouse Inbound Processing from Supplier

This demo describes the integration process of warehouse execution with procurement operations using the EWM functionality of basic inbound processing and the warehouse execution for Purchase Orders in SAP S/4HANA.

It enables you to synchronize the material flows between warehouse and procurement, and to improve inventory visibility and control as material movements are posted in real time in the warehouse.

The second part provides overview pages for the inventory manager and warehouse clerk. The focus of the analytical apps here is to ensure high throughput of the goods receipts and pickings with an uninterrupted inventory flow that creates for an optimal stock situation.

This demo describes the process where different goods received from suppliers are put away to final storage bins in the warehouse. For example, full pallets go to the high rack narrow aisle while cartons or pieces of the product would go to the mezzanine. Large parts are routed to the Bulk Storage. During Putaway, you might use a handover point due to the physical constraints of the high rack narrow aisle, where only a specialized high-level truck can reach all levels. The destination storage type for Putaway is partially determined by the PRODUCT & APO’s Putaway Control Indicator (PACI). If a product is missing the PACI or there is insufficient space in the storage type, it is moved to a clarification zone. You get full RF/mobile device support throughout the process.

## 2.1 Create Purchase Order

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
</table>
| Open the Fiori Launchpad.  
User: S4H_MM_DEM  
Password: Welcome1  
Navigate to the My Home section and choose the Create Purchase Order - Advanced app. | ![Create Purchase Order - Advanced app](image) |

Make the following entries:

- **Order Type:** Standard PO  
- **Vendor:** EWMS4-SU01  
- **Doc.date:** Current date  

If the Header data is not visible, choose **Expand Header**.

Choose the **Org.Data** tab.

Make the following entries:

- **Purchasing Org:** 1710  
- **Purchasing Group:** 002  
- **Company Code:** 1710  

Enter Data for the 1st Item.

- **Material:** EWMS4-40  
- **PO Quantity:** 36  
- **OUn:** CAR  
- **Plant:** 1710
### What to Do

<table>
<thead>
<tr>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage Location:</strong> 171D</td>
</tr>
<tr>
<td><strong>EWMS4-41</strong></td>
</tr>
<tr>
<td><strong>PO Quantity:</strong> 48</td>
</tr>
<tr>
<td><strong>OU:</strong> CAR</td>
</tr>
<tr>
<td><strong>Plant:</strong> 1710</td>
</tr>
<tr>
<td><strong>Storage Location:</strong> 171D</td>
</tr>
</tbody>
</table>

Choose *Enter*.
Check and correct the entries for error messages if there are any.
Choose *Save*.
Note down the standard PO for later use.

---

### 2.2 Purchase Order Processing in EWM

#### 2.2.1 Create EWM Inbound Delivery

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open the Fiori Launchpad.</td>
<td></td>
</tr>
<tr>
<td><strong>User:</strong> S4H_EWM_DEM</td>
<td></td>
</tr>
<tr>
<td><strong>Password:</strong> Welcome1</td>
<td></td>
</tr>
<tr>
<td>Navigate to the Warehouse Processing section and choose the Create Inbound Deliveries – Deliveries app.</td>
<td></td>
</tr>
</tbody>
</table>

Make the following entries and choose *Go*:

- **Vendor:** EWM17-SU01 |
- **Planned Dlv. Date:** <Yesterday’s Date> – <One Month from today’s date> |
Choose the purchase order you have created.
Make the following entry:

**ASN:** For example, **ASN-45-****** where **** are the last "significant" digits of the corresponding Purchase Order ID. Example: ASN-45-338

**Note**

Normally the ASN number comes from supplier.

Mark the check box on the left-hand side of column **Product**.

Choose button **Create Delivery**.

Note the ID of the Inbound Delivery on your ID sheet.

Note the ASN (Delivery Note) Number on your ID sheet.

### 2.2.2 Process Goods Receipt

A release at the order operation level results in the order and all its operations being released. The order and the operations receive the status REL (released).

**What to Do**

Open the Fiori Launchpad.

**User:** S4H_EWM_DEM  
**Password:** Welcome1

Navigate to the Warehouse Processing section and choose the Test RF Environment app.

A new browser tab/screen will open. Make the following entries and choose **Enter**:

- **Whse No:** 1710  
- **Resource:** YREC-1  
- **DefPresDvc:** YE00
### What to Do

Choose **03 Inbound Processes** > **04 Receiving of Handling Units** > **04 Rec. HU by ASN**

### What You Will See

**Choose 03 Inbound Processes > 04 Receiving of Handling Units > 04 Rec. HU by ASN**

**Enter the ASN number from above**

Choose **Enter** twice.

**Enter Goods Receipt Data for 4 PC of EWMS4-40**

Choose **F2 NewHU**.

Make the following entry:

- **Prod:** 9781592292868
- **ActQty:** 4
- **UoM:** PC

Choose **F1 Next**.

Note

Alternatively, you can enter the product ID **EWMS4-10**

Make the following entry for the packaging material:

- **New P.Mat.: EWMS4-PAL00**

Press **Enter**.

Note the HU ID (SSCC numbering) created by the system on your ID sheet.

**HU 112345678000001206**

Press **Enter**.

Choose **F2 PGr**.

---

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
</table>
| Choose **03 Inbound Processes** > **04 Receiving of Handling Units** > **04 Rec. HU by ASN** | **Enter the ASN number from above**

Choose **Enter** twice. |

| Enter Goods Receipt Data for 4 PC of EWMS4-40 | **Choose **F2 NewHU**.** Make the following entry:

- **Prod:** 9781592292868
- **ActQty:** 4
- **UoM:** PC

Choose **F1 Next**.** |

| Note | **Alternatively, you can enter the product ID **EWMS4-10**.

Make the following entry for the packaging material:

- **New P.Mat.: EWMS4-PAL00**

Press **Enter**.** Note the HU ID (SSCC numbering) created by the system on your ID sheet.** |

<p>| Press <strong>Enter</strong>. | <strong>Choose <strong>F2 PGr</strong>.</strong> |</p>
<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Choose F3 CrWT.</strong></td>
<td><img src="image1.png" alt="Image 1" /></td>
</tr>
</tbody>
</table>
| **Choose F4 Conf.**  | ![Image 2](image2.png)  
A new view opens. User must scan destination bin to confirm Putaway. |
| **Repeat steps 6 – 10 and create the 2nd HU for**  | ![Image 3](image3.png)  
**Product: EWMS4-41**  
**Quantity: 480 PC**  |
| **Press F7 three times to go back. Choose F1 Logoff. Choose F1 Save.** | ![Image 4](image4.png) |
2.3 Create Supplier Invoice with reference to PO

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open the Fiori Launchpad.</td>
<td></td>
</tr>
<tr>
<td><strong>User:</strong> S4H_MM_DEM</td>
<td></td>
</tr>
<tr>
<td><strong>Password:</strong> Welcome1</td>
<td></td>
</tr>
<tr>
<td>Navigate to the <strong>My Home</strong> section and choose the <strong>Create Supplier Invoice</strong> app.</td>
<td></td>
</tr>
</tbody>
</table>

In the **Create Supplier Invoice** view, in case of purchase orders created with local currency in your system, make the following entries:

- **Transaction:** Invoice
- **Company Code:** 1710
- **Gross Invoice Amount:** <XXX>
- **Currency:** USD
- **Invoice Date:** <Today>
- **Posting Date:** <Today>
- **Reference:** <xxx> (reference PO number)
- **Invoice Party:** EWM17-SU01
### What to Do

In **Purchase Order References** section, add the references. Make the following entries (use a PO you created previously).

**References Document Category:** **Purchase Order/ Scheduling Agreement**

**Purchase Order:** `<xxx>`

All items of the referenced Purchase Order are added to the Invoice Items section.

### What You Will See

![Invoice Items](image1)

Select the **Invoice Items** you want to create invoice for. You should see material items and delivery costs items, which refer to the entered purchase order document. Check if items for planned delivery costs have an item text.
What to Do | What You Will See
--- | ---
Check the **Amount**, the **Quantity**, the **Tax Code** (there may already be a tax code that was copied from the purchase order). The **Amount**, the **Quantity**, the **Tax Code** are consistent.

New Supplier Invoice

<table>
<thead>
<tr>
<th>Balance</th>
<th>Invoking Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 USD</td>
<td>SNM427-SU01</td>
</tr>
</tbody>
</table>

**General Information** | **Purchase Order**
--- | ---
Reference Document Category: | Purchase order:
Purchase Order/Scheduling Agreement | 450000001026 |

**Invoice Items**

<table>
<thead>
<tr>
<th>Invoice Item</th>
<th>Short Text</th>
<th>Purchase Order / Item</th>
<th>Amount</th>
<th>Quantity</th>
<th>Tax Code</th>
<th>Tax Jurisdiction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Product for Bulk Storage A Short Lane</td>
<td>45000000030/10</td>
<td>3.600 USD</td>
<td>36.000</td>
<td>I1</td>
<td>770000...</td>
</tr>
<tr>
<td>2</td>
<td>Product for Bulk Storage A Long Lane</td>
<td>45000000030/20</td>
<td>4.800 USD</td>
<td>48.000</td>
<td>I1</td>
<td>770000...</td>
</tr>
</tbody>
</table>

In the section *Tax*, check if there is tax code information and enter the tax amount if the tax code value is greater than zero. In the Tax area, you should see the same tax codes as in the items. If there is no tax, specify the tax code **I0**.
Choose the invoice item arrow on the right side of the item to navigate to the item details.

On the next view, set flag for **Manually Blocked**.

Choose **Check**.

The **Blocking Reasons** section shows the text **Manual**.

Choose **Back to Supplier Invoice**.

Unblock the item and then go back to the supplier invoice screen.

In the **G/L Account Items** tab, calculate the tax by choosing **Propose Tax**.

Check the balance (difference between the calculated amount and the gross Amount you entered in step 3).
**What to Do**

Choose *Simulate*.

**What You Will See**

### New Supplier Invoice

<table>
<thead>
<tr>
<th>General Information</th>
<th>Purchase Order References</th>
<th>GL Account Items</th>
<th>Tax</th>
<th>Payment</th>
<th>Unplanned Delivery Costs</th>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance: 0.00 USD</td>
<td>Purchase Order Numbers</td>
<td>GL Account Items</td>
<td>Tax</td>
<td>Payment</td>
<td>Unplanned Delivery Costs</td>
<td>Attachments</td>
</tr>
</tbody>
</table>

#### Purchase Order References

- **Reference Document Category**: Purchase Order/Scheduling Agreement
- **Purchase Order**: 450000003910

### Invoice Items

<table>
<thead>
<tr>
<th>Invoice Item</th>
<th>Short Text</th>
<th>Purchase Order / Item</th>
<th>Amount</th>
<th>Quantity</th>
<th>Tax Code</th>
<th>Tax Jurisdiction</th>
<th>Purchase Order History</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Product for Bulk Storage A, Short Lane</td>
<td>450000003910</td>
<td>3,600.00 USD</td>
<td>36.00</td>
<td>CAR</td>
<td>11</td>
<td>770000...</td>
</tr>
<tr>
<td>2</td>
<td>Product for Bulk Storage A, Long Lane</td>
<td>450000003910</td>
<td>4,800.00 USD</td>
<td>48.00</td>
<td>CAR</td>
<td>11</td>
<td>770000...</td>
</tr>
</tbody>
</table>

**Assignment Options**

### GL Account Items

**Click “+” to add a new item.**

### Tax

**Debit**

- 21130000 (Goods Received/Invoice Received) 3,600.00 USD 21100000 (Supplier GL / Atlanta GA 30344) 8,400.00 USD
- 21130000 (Goods Received/Invoice Received) 4,800.00 USD

**Credit**

Total 8,400.00 USD

#### Details

<table>
<thead>
<tr>
<th>Standard</th>
<th>Account Type</th>
<th>GL Account</th>
<th>Name</th>
<th>Amount</th>
<th>Tax Code</th>
<th>Company Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>K</td>
<td>21100000</td>
<td>EWM Supplier GL / Atlanta GA 30344</td>
<td>8,400.00 USD</td>
<td>11</td>
<td>1710</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>21120000</td>
<td>Goods Received/Invoice Received</td>
<td>3,600.00 USD</td>
<td>11</td>
<td>1710</td>
</tr>
<tr>
<td>3</td>
<td>S</td>
<td>21120000</td>
<td>Goods Received/Invoice Received</td>
<td>4,800.00 USD</td>
<td>11</td>
<td>1710</td>
</tr>
</tbody>
</table>

You can check the simulation results in *Simulation Overview* and *Simulation Details* area.
What to Do
Choose **Post**.

Confirmation message appears.

What You Will See

**Simulation Results**

<table>
<thead>
<tr>
<th>Company Code</th>
<th>Simulation Currency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1710</td>
<td>USD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Debit</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>21120000 (Goods Received/Invoice Received)</td>
<td>21120000 (Freight Supplier DL / Atlanta GA 3344)</td>
</tr>
<tr>
<td>3,600.00 USD</td>
<td>4,800.00 USD</td>
</tr>
</tbody>
</table>

**Total**
8,400.00 USD

**Details**

<table>
<thead>
<tr>
<th>Standard</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Account Type</td>
<td>G/L Account</td>
<td>Name</td>
<td>Amount</td>
<td>Tax Code</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>21100000</td>
<td>EPM Supplier DL / Atlanta GA 3344</td>
<td>-8,400.00 USD</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>21120000</td>
<td>Goods Received/Invoice Received</td>
<td>3,600.00 USD</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>S</td>
<td>21120000</td>
<td>Goods Received/Invoice Received</td>
<td>4,800.00 USD</td>
<td>1</td>
</tr>
</tbody>
</table>

**Success**

Invoice 5100000300/2019 posted.
Do you want to create a new supplier invoice?

[Yes] [No]
### 2.4 Post Outgoing Payment

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open the Fiori Launchpad.</td>
<td><img src="image1.png" alt="Image of Fiori Launchpad" /></td>
</tr>
<tr>
<td><strong>User:</strong> S4H_MM_DEM</td>
<td></td>
</tr>
<tr>
<td><strong>Password:</strong> Welcome1</td>
<td></td>
</tr>
<tr>
<td>Navigate to the My Home section and choose the Post Outgoing Payments app.</td>
<td><img src="image2.png" alt="Image of Post Outgoing Payments app" /></td>
</tr>
<tr>
<td>Make the following entries:</td>
<td><img src="image3.png" alt="Image of Payment Entry" /></td>
</tr>
<tr>
<td><strong>Company Code:</strong> 1710</td>
<td></td>
</tr>
<tr>
<td><strong>Vendor:</strong> EWM17-SU01</td>
<td></td>
</tr>
<tr>
<td><strong>Journal Entry date:</strong> &lt;today’s date&gt;</td>
<td><img src="image4.png" alt="Image of Journal Entry Details" /></td>
</tr>
<tr>
<td><strong>GL Account:</strong> 11001000</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 8,400 USD</td>
<td></td>
</tr>
<tr>
<td><strong>Currency:</strong> USD</td>
<td></td>
</tr>
<tr>
<td><strong>Value date:</strong> &lt;today’s date&gt;</td>
<td><img src="image5.png" alt="Image of Value Date" /></td>
</tr>
<tr>
<td>Choose Show Items.</td>
<td></td>
</tr>
<tr>
<td>Choose Clear and choose Post.</td>
<td><img src="image6.png" alt="Image of Clear and Post" /></td>
</tr>
</tbody>
</table>
What to Do | What You Will See
--- | ---
A **Success** dialog box displays.

### 2.5 SAP Fiori Analytical Apps for Inventory and Warehouse Management

**Purpose**

This scope item provides overview pages for the inventory manager and warehouse clerk. The focus of the analytical apps here is to ensure high throughput of the goods receipts and pickings with an uninterrupted inventory flow that creates for an optimal stock situation.

#### 2.5.1 Overview Inventory Processing

You have implemented the *Overview Inventory Management* App. With the following steps, you can test if the App is running in a correct way.

<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open the Fiori Launchpad. <strong>User:</strong> S4H_MMM_DEM <strong>Password:</strong> Welcome1</td>
<td></td>
</tr>
</tbody>
</table>

Navigate to the *Inventory Management Overview* section and choose the *Overview Inventory Processing* app.
In the Overview Inventory Processing view, make the following entry:

**Plant:** 1710

Check that the following cards are shown including content (exact names may vary):
- **Recent Inventory Counts**
- **Warehouse Throughput History**
- **Recent Material Documents**
- **Monitor purchase Order Items**
- **Overview Materials – GR Blocked Stock**

Additional fields can be added via **Adapt Filters** and choose **More Filters** in the pop up.

The content of the shown cards is filtered via corresponding fields in the Smart Filter Bar.

Choose the **User** button and choose **Manage Cards**.

Disable various cards via the toggle buttons in the popup and choose **OK**.
What to Do

In the same way, you can add Cards again to the Overview Page.

In addition, you can drag and drop the cards on the **Overview Inventory Processing** app.

After launching the **Overview Inventory Processing** app, investigate the cards and check that the data is shown properly.

Choose the header of the cards.

The corresponding apps should be started.

For example, **Material Documents Overview**

Make the following entries:

**Plant:** 1710

**Storage Location:** 171D

**Posting Date:** <today’s date>