SAP S/4HANA 1809 FPS01 & FPS02 Fully-Activated Appliance
July 2019 (V1.0)
English

SAP S/4HANA 1809 FPS01 & FPS02 Fully-Activated Appliance:
Extensibility with Custom Fields & Custom Applications
Demo Guide
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<th>Revision</th>
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<tr>
<td>1.0</td>
<td>&lt;2019-04-15&gt;</td>
<td>Release for customer</td>
</tr>
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</table>
1 Where Can This Script Be Used?

This demo script has been written for usage with the SAP S/4HANA 1809 FPS01 & FPS02 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 & FPS02 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.
2 Demo Guide: Extensibility with Fiori

2.1 Background Information

This scenario describes how customers & partners can extend SAP S/4HANA.

Two sub-scenarios are explained:
1. Adding a custom field in a Fiori app, e.g. in case SAP does not deliver necessary customer-specific fields as part of the standard product.
2. Creating a custom application on the SAP Cloud Platform that is accessing data in SAP S/4HANA and shows up in the Fiori launchpad.

2.2 Custom Fields in a Fiori App

Business scenario:
We want to add custom fields (free text, checkbox) to the master data sheets of our product portfolio. The fields should indicate that a product needs special care during handling to avoid risks for the staff, and list further information e.g. risk details or mitigation.

At the time of publishing this document, only a select set of Fiori apps have been enabled for extensibility. The Manage Product Master Data app is one of them.

For more information on the Fiori extensibility, please see https://help.sap.com/doc/61634ead9e5144b89e7eca2b1d4b8bce/1809.000/en-US/UITECH_OP1809.pdf (chapter 7).

This page can also be reached via navigating to https://help.sap.com/viewer/p/SAP_S4HANA_ON-PREMISE → UI Technology Guide.

2.2.1 Remove/Reposition Standard Fields in the Manage Product Master Fiori App

To begin, open the Fiori Launchpad in your browser with user S4H_EXT, password Welcome1.


<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
</table>
| Open the Fiori Launchpad.  
User: S4H_EXT  
Password: Welcome1 | ![Manage Product Master Data app in Fiori Launchpad] |
<p>| Choose the Manage Product Master Data app from the My Home group. |  |</p>
<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td>Search for <strong>bike</strong> and choose <strong>Go</strong>. Choose the product line of <strong>C900 Bike</strong>.</td>
<td><img src="image1" alt="Image of SAP Manage Product Master Data screen" /></td>
</tr>
</tbody>
</table>

In the **Product** view for **C900 BIKE**, you see two custom fields (visible for all products) with data entered (specific to the C900 BIKE).

| ![Image of SAP Manage Product Master Data screen](image2) |

Choose the **User** button.

Choose **Adapt UI**.

**Note:** These changes will be visible to all users of the app, and therefore should only be done by key users with special roles and authorizations.

See the documentation above how to provide these authorizations. In the appliance, the corresponding custom role is **ZSAP_BCR_CORE_EXTENSIBILITY**.
The buttons above display that you are in the extensibility mode for this app.

You can now move the existing fields via Drag & Drop. Move the mouse over an existing field (for example, Batch Management Required) and drag it to its new place at the bottom of the column.

You can also right-click on fields to adapt the app.
<table>
<thead>
<tr>
<th>What to Do</th>
<th>What You Will See</th>
</tr>
</thead>
<tbody>
<tr>
<td>You can remove or add existing fields (custom and SAP-defined). Right-click on a field and choose Remove.</td>
<td><img src="image1.png" alt="Right-click to remove" /></td>
</tr>
<tr>
<td>Afterwards, reinsert it. Right-click on the desired place in the UI spot and choose Add: Field. Search for custom and choose the two entries. Choose OK.</td>
<td><img src="image2.png" alt="Right-click to add" /></td>
</tr>
<tr>
<td>Choose Save &amp; Exit.</td>
<td><img src="image3.png" alt="Save &amp; Exit" /></td>
</tr>
<tr>
<td>This saves your changes, and they are now visible for all entities in the Product Master app (for example, other bike models).</td>
<td></td>
</tr>
<tr>
<td>You can undo changes or reset all your changes (going back to the SAP standard delivery) by using the respective icons.</td>
<td></td>
</tr>
<tr>
<td>The added fields can now be used like other regular fields.</td>
<td><img src="image4.png" alt="C900 Bike" /></td>
</tr>
<tr>
<td>In the Product app for the C900 Bike, choose Edit.</td>
<td><img src="image5.png" alt="Edit" /></td>
</tr>
</tbody>
</table>
## What to Do
Make the following entries and choose **Save**:
- **Custom Field: High Risk**: <check>
- **Custom Field: Risk Reason**: <your comment>
- **Custom Field: Risk Mitigation**: <your comment>

## What You Will See
![Image of product with custom fields](image)

The standard Fiori fields have additional fields and filled with data.

### 2.2.2 Creating Your Own Custom Fields

In this step, you create your custom field.

The screenshots below take the example of the Risk Mitigation field that you saw in the previous exercise, but you can create your own fields.
### What to Do

Open the Fiori Launchpad.

*User:* S4H_EXT  
*Password:* Welcome!

Choose the **Custom Fields & Logic** app.

### What You Will See

#### Existing custom fields are listed.  
Choose the (+) **Add** button.

#### As Business Context choose **Master Data: Product General** (this will determine in what apps you can see these fields).

Set your preferences regarding the other fields.

Choose **Create and Edit**.
Choose the **UIs and Reports** tab and choose **Enable Usage** and the checkbox for the **Search Relevance** category for the app areas where you want the custom field visible. For example, **Product Basic Data**.

Choose **Save**.

**Note:** This will take several minutes until the status changes to **Published**.
What to Do | What You Will See
---|---
A new custom field in the Product Master app is available.

### 2.3 Custom Application on SAP Cloud Platform

The appliance is suited to connect to the SAP Cloud Platform (SCP) and create a customer application on SCP using e.g. the WebIDE.

For this scenario, you need a (trial) account on the SAP Cloud Platform. Since this cannot be delivered as part of the appliance and since there are many tutorials in the Internet for SCP extensibility, we will not describe this scenario in detail in this guide. Instead, we will describe what has been prepared in the appliance (e.g. a cloud connector) and refer to the respective tutorials (most of them are mentioning the appliance as a potential S/4HANA backend system if you don’t have one yet).

#### 2.3.1 Components Needed for the SCP Extensibility

<table>
<thead>
<tr>
<th>Component</th>
<th>Where to get it</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP S/4HANA backend system</td>
<td>Use the appliance (or any other S/4HANA on-premise system)</td>
</tr>
<tr>
<td>SAP Cloud Platform account</td>
<td>Use an existing SCP account or get a free trial account on <a href="https://cloudplatform.sap.com/try.html">https://cloudplatform.sap.com/try.html</a> (use a Neo Trial)</td>
</tr>
<tr>
<td>SAP Cloud Connector</td>
<td>Serves as “reverse proxy” for securely connecting SCP and S/4HANA. Install a new one or use the one embedded into the appliance (<a href="https://vhcals4hcs.dummy.nodomain:8443">https://vhcals4hcs.dummy.nodomain:8443</a>, Administrator / manage)</td>
</tr>
</tbody>
</table>
2.3.2 Tutorials

Here are two recommendations to get you started:

   - A detailed explanation how to create a sample application on WebIDE that is pulling data from the SAP S/4HANA system

   - Community blog how to access S/4HANA data with a Node.js script, and also describing in detail how to use the Cloud Connector.

Besides that, feel free to further experiment – maybe we’ll add a detailed description to this document in the future, but for now it rather felt as if duplicating what is already there.