d.velop

d.velop connect for SAP Fiori: Administration

Table of Contents

1. d.velop connect for SAP Fiori: Administration

1.1. Basic information about the application

This chapter contains product notes and general information.

1.1.1. About d.velop connect for SAP Fiori

d.velop connect for SAP Fiori integrates web-based apps from d.velop into Fiori apps from SAP without other providers. Web-based apps from d.velop can be used using a tile in the SAP Fiori Launchpad (FLP) In addition, d.velop connect for SAP Fiori enables documents to be saved from SAP Fiori apps to d.velop documents. SAP S/4HANA On-Premises and SAP S/4HANA Cloud are supported in both the Private Edition and Public Edition versions.

d.velop connect for SAP Fiori is made up of two components:

- The FLP plugin, which extends existing SAP Fiori apps.
- The App Launcher component, which provides (deep) links to d.velop apps in FLP tiles, allowing d.velop apps to be launched the same way as SAP Fiori apps.

1.1.2. Terms and concepts

This chapter contains information about the terms and concepts of d.velop connect for SAP Fiori.

Input values

You can use input values to capture data from different sources, which you can then use in the context of d.velop connect for SAP Fiori.

Property binding

With the **Property binding** input source, you can capture values which are bound to SAPUI5 controls. Supported controls are flagged by a green border. Clicking on a control with the selection tool selects the control and lists the bound properties. d.velop recommends this input source for Fiori item apps.

Property selection

With the **Property** input source, you can capture properties which are available in the app via OData. Select an OData path followed by the preferred property. Please note that depending on the type of app, this input source is not always available.

Model binding

With the **Model binding** input source, you can capture the data models of the current SAPUI5 view. Select a data model followed by the preferred property. Please note that depending on the type of app, this input source is not always available.

Control property

With the **Control property** input source, you can capture the properties of the visible SAPUI5 controls. Supported controls are flagged by a green border. Clicking on a control with the selection tool selects the control and lists the bound properties. If you would like to capture the text label of a control, select the **Text** property.

User data

With the **User data** input source, you can capture the data of users who are logged in (e.g. SAP user name and e-mail address). The data comes from the SAP user profile (transaction **SU01**).

Input before storage

The **Input before storage** input source is available only in the context of document storage. This input source enables users to manually edit properties when saving a document.

OData source

With the **OData-source** input source, you can retrieve data from your SAP system with OData version 2. Enter an OData path. You can use wildcards in the OData path and thus create the path on the basis of further input values from the current app. When wildcarding, make sure that the additional input value is captured before the OData source. For further information about the available OData sources, see the SAP Fiori Apps Reference Library under the following link: https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/ (only available in SAP S/4HANA On-Premises and Cloud Private Edition). To be able to use the input source, you must enable the Feature Flag **FEATURE_FLAG_ODATA_INVALUES** with the SAP transaction **SM30** in the **/DVELOP/FUI_APPS** table.

Example of an OData path and a wildcard: /sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartner('{0}')

DOM property

Only use this input source if no other input source works. With the **DOM property** input source, you can capture the properties of all visible DOM items. Supported items are flagged by a green border. Click on the required item with the selection tool. If you would like to capture the text label of an item, select the **innerText** property. (Only available in SAP S/4HANA On-Premises and Private Cloud. To be able to use the input source, you must enable the Feature Flag **FEATURE_FLAG_ODATA_INVALUES** with the SAP transaction **SM30** in the **/DVELOP/FUI_APPS** table.

> **Warning**
> This option may not be available after an update. Therefore, use this option with caution.

Constant

With the **Constant** input source, you can define a value manually which cannot be changed.

Wildcards

You can use wildcards to insert data determined from input values into group titles, URLs and parameters. Wildcards are created with a sequential number. You can view the wildcard number in the input values table.

Example of an URL with wildcard: https://example.org/index.html?param={0}&lang={1}

> **Note**
> You do not have to edit the URL manually to integrate d.velop documents, but can use the wizard instead. For more information, see Embedding dossiers and documents from d.velop documents.

Item types

For the extension of an SAP Fiori application, the item types **IFrame**, **Button** and **Link** are available for you to use. You can control the behaviour of the created items with parameters. Different parameters are available according to the item type. The most important parameters are described here. The parameters also support wildcards for input values. You can enter the width and height of the items in different units.

Further information is available in the SAPUI5 documentation via the following link: https://sapui5.hana.ondemand.com/sdk/#/api/sap.ui.core.CSSSize.

IFrame

IFrames allow you to embed web pages in Fiori apps. The web page must explicitly allow embedding with the Content Security Policy header; also see Cross-Origin Resource Sharing (CORS).

Relative units are recommended, for e.g.:

- **vh**: Height as a percentage of the viewport. Viewport refers to the visible area of a web page which users can see.
- **vw**: Width as a percentage of the viewport.
- **%**: Relative size in comparison with the parent item.

Property name	Description
height	Height of an IFrame
width	Width of an IFrame

Attachment list

Attachment lists allow documents from d.velop documents to be listed directly in Fiori apps.

Property name	Description
backgroundDesign	Configures the background design of the list. Possible values: **Solid, translucent, transparent**
growing	Firstly displays the number of entries defined under **growingThreshold** and expands the list by this number as required. Possible values: **true, false**
growingThreshold	Specifies the number of entries that are displayed using the **growing** feature.
growingScrollToLoad	Expands the list automatically rather than with clicks. Possible values: **true, false**
width	Width of the list

Button

With the use of buttons, web pages can be opened in a new tab.

Property name	Description
icon	Icon in the button (see SAP Icon Explorer)
height	Height of the button
text	Text of the button, supports wildcards
type	Colour type of the button (see SAPUI5 documentation)
width	Width of the button

Link

With links, web pages can be opened in a new tab.

Property name	Description
text	Text of the link, supports wildcards

1.2. Installation and uninstallation

This chapter contains information about the installation of the application.

1.2.1. System requirements

Frontend

The FLP plugin runs in the browser. The browser requirements are the same as those for d.velop documents. The respective requirements concerning SAPUI5 (from version 1.84) also apply. For the requirements concerning SAPUI5, see the respective SAP documentation.

Backend – SAP S/4HANA On-Premises and Cloud Private Edition

SAP S/4HANA Release 2021 or later is required at the minimum. In addition to this, d.velop customizing for SAP Solutions (see d.velop service portal) and the d.velop Fiori Base Transport (included in the installation package) must also be installed.

Backend – SAP S/4HANA Cloud Public Edition with SAP BTP

SAP S/4HANA Release 2024 or later is required at the minimum. An SAP BTP environment is also required, in which the Cloud Foundry runtime (see SAP Discovery Center) and the PostgreSQL service (see SAP Discovery Center) are available. For further information on using and configuring entitlements, see the SAP documentation.

1.2.2. Install in SAP S/4HANA On-Premises and Cloud Private Edition

The installation package contains a Workbench transport and a Customizing transport. The Workbench transport is located in the subdirectory **on-premises/dvpcon4sapfiori-wb** and the Customizing transport is located in the subdirectory **on-premises/dvpcon4sapfiori-cu**. Each subdirectory contains a SAR file and a ZIP file. You can import the transports as either a SAR file or you can unzip the ZIP file and add the SAP file system manually. How to import the SAR file is described below.

Please note that you import the Workbench transport first and then the Customizing transport. In addition, you must have already installed the transports for d.velop customizing for SAP Solutions and d.velop Fiori Base (**dvpfiobase-be-wb_1.1.0.zip**, contained in the installation package).

Installing the transports

You would like to install the transports.

This is how it works

1. Unzip the installation package in a random directory.
2. Log in to the SAP GUI and start transaction **SAINT**.
3. Select **Installation Package/Load Package/SAR Archive from Frontend**.
4. Navigate to the directory in which you unzipped the installation package and open subdirectory **dvpcon4sapfiori-wb**.
5. Open the SAR file of the Workbench transport.
6. Import the SAR file of the Customizing transport from subdirectory **dvpcon4sapfiori-cu** in the same way.
7. Start the transaction **STMS** and click on **Transport overview**.
8. Open the web SAP system by double-clicking.
9. Select **Extras/Other orders/Append**.
10. Enter the transport number of the Workbench and Customizing transport and confirm your entries.
11. In the list, navigate to the Workbench transport you just imported and select the transport.
12. Click on **Import order**.
13. Select **Ignore invalid component version** and confirm your selection.
14. Wait until the transport has been imported. You can update the view with **Refresh**.
15. Import the Customizing transport in the same way.

Activating the services

After installing the transports, you must manually activate the services for the backend and frontend.

Activating the frontend services – This is how it works

1. Start transaction **SICF**.
2. Under **Service Path**, enter the path **/sap/bc/ui5_ui5/dvelop/dclflppi**.
3. Click **Execute**.
4. Right-click on **dvelop** and select **Activate service**.
5. Click **Yes** to apply the changes to all sub-services.

Activating the backend services – This is how it works

1. Start transaction **/IWFND/MAINT_SERVICE**.
2. Click on **/dvelop/fiu_srv** in the table.
3. Click on the entry in the **ICF Nodes** area.
4. Click on **ICF Node** and then on **Activate**.
5. Under **System Aliases**, click on **Add System Alias**.
6. Select the value **/DVELOP/FIU_SRV_0001** as the service document ID and a defined system alias. For local systems, use the alias **LOCAL** if possible.
7. Select **Default System**.
8. Save your changes.

Importing the permission roles

Another necessary step is the importing of the permission roles, which you must do manually. It is only necessary to import the permission roles during the initial installation. You can skip this step for updates.

This is how it works

1. Unzip the **roles.zip** file in any directory.
2. Start transaction **PFCG** in the SAP GUI.
3. Select **Role**/**Upload**.
4. Navigate to the directory in which you unzipped the roles and select the file **DVELOP_FIU_ADMIN.SAP**.
5. Repeat the process with the file **DVELOP_FIU_USER.SAP**.

Configuring permission roles

Roles define the permissions for being able to access data and software functions. d.velop connect for SAP Fiori uses the following roles:

Role	Use	Description
/DVELOP/ FIU_USER	Fiori Launchpad plugin	The role grants users basic access to the Fiori Launchpad plugin. Extensions created by the administrator are run automatically for members of this group.
/DVELOP/ FIU_ADMIN	Fiori Launchpad plugin AppLauncher components	The administrator is authorized to edit the application settings, extend Fiori apps in the FLP plugin and access the Fiori Launchpad catalog. With access to the catalog, users with such permissions are able to define the AppLauncher component, the widgets and the links from d.velop documents that are to be integrated at the start.

You can assign users directly to the above groups.

Directly assigning users – how it works

1. Start the transaction **PFCG** in the SAP GUI.
2. Enter the name of one of the roles in the **Role** input field.
3. Click on the icon for the editing of the role. You will see the details for the role.
4. Click on **Users**.
5. Add one or more users from the table to the roles.
6. Save your changes.

If you have defined your own composite roles to which you assign your users, you can also add the individual roles to a composite role. This saves you having to assign users to individual roles multiple times.

Assigning individual roles to a composite role – this is how it works

1. Start the transaction **PFCG** in the SAP GUI.
2. Select an existing composite role that you would like to extend with one of the individual roles above.
3. Click on the icon for the editing of the role.
4. Click on **Roles**.
5. Add the required individual role in the table.
6. Save your changes.

Installing the license

You require a license in order to use d.velop connect for SAP Fiori. Contact the d.velop backoffice (backoffice@d-velop.de) to request a license. Specify the production SAP system (SYSID) and the production client (MANDT) that you wish to use for d.velop connect for SAP Fiori. Based on your entries, d.velop creates a license file in XML format, which you can use in the development, test and production system.

For more information about licensing products, see the documentation for d.velop customizing for SAP Solutions.

1.2.3. Installing in SAP S/4HANA Cloud Public Edition

An installation program is provided for both setting up the cloud environment in SAP BTP and installing d.velop connect for SAP Fiori. You can find the installation program in the **public-cloud** subdirectory of the installation package. Before the installation, you must import new application roles and assign them to your SAP user. After the installation, it is also necessary for you to perform some customizing steps. The customizing takes place on your SAP S/4HANA Cloud Public Edition client, and can then be transported to your test and production systems. Further information is available in the SAP Help Portal.

> **Note**
> Some release processes may take a little more time. Wait until all objects in the respective customizing steps have reached the **Released** status before proceeding.

Configuring application roles

Application roles define the permissions for accessing data and software functions. d.velop connect for SAP Fiori uses the following roles:

Role	Use	Description
FIU_USER	Fiori Launchpad plugin	This role grants users basic access to the Fiori Launchpad plugin. Extensions created by the administrator are run automatically for members of this group.
FIU_ADMIN	Fiori Launchpad plugin AppLauncher components	The administrator is authorized to edit the application settings, extend Fiori apps in the FLP plugin, and access the Fiori Launchpad catalog. With access to the catalog, users with such permissions are able to define the AppLauncher component, the widgets and the links from d.velop documents that are to be integrated at the start.

This is how it works

1. Unzip the installation package in a random directory.
2. Log into your SAP S/4HANA Public Cloud-Customizing client.
3. Open the **Maintain application role groups** app.
4. Click **Create**.
5. Specify **ZCB_DVP_CON** as the application role group and **d.velop connect role group** as the description.

6. Click **Create**.
7. Open the **Maintain application roles** app.
8. Click **Upload**.
9. Select the file **public-cloud**/**roles.xml** from the installation package.
10. Select both entries and click on **OK**.
11. Open the **Maintain application users** app.
12. Select your users.
13. In the **assigned application roles** area, click on **add**.
14. In the application roles, select **BR_EXTENSIBILITY_SPEC**, **FIU_ADMIN** and **FIU_USER**.
15. Click **Save**.

Performing the deployment

In the following, an explanation is provided on how to install the backend in an SAP BTP subaccount and the UI5 apps in the SAP S/4HANA public cloud client.

This is how it works

1. In the **public-cloud** subdirectory of the installation package, run the setup file for your operating system.
2. If necessary, authenticate yourself by opening the displayed link and logging in with an SAP account that has access to your global account in SAP BTP.
3. Select the **New Installation** action in the installer.
4. Select a subaccount in the list of organizational units, or create a new one by entering a period (.).
5. Select one of the available environments for your app. When creating a new subaccount, you can also specify the name of the subaccount.
6. Authenticate yourself in your new cloud environment by opening the link provided and pasting the authentication code into the installer. For security reasons, the pasted text is not displayed.
7. Create a new area and enter an area name.
8. Select the appropriate database configuration. In production environments, you must select the **Default** version.

> ### Note
>
> In production environments, a database service must be assigned to your subaccount. If you do not yet use a PostgreSQL database in your global account, subscribe to the database service in the SAP Discovery Center.
>
> You assign the database service to the sub-account by selecting and saving the subaccount in the SAP BTP cockpit and the **storage** plan under **Entitlements > Configure Entitlements > Add Service Plans > PostgreSQL**.
>
> Please note that the **Free** plan is intended solely for test systems, as this plan cannot be used in order to save and restore data. The **SQLite** option only provides an in-memory database which is reset when the service restarts.

9. Validate the information in the summary and start the installation with the **ENTER** key. Wait until the first part of the installation is complete.
10. Use the spacebar to select the users to whom you want to assign the administration role for the area.
11. Enter the URL of your SAP S/4HANA Public Cloud customizing client, for example, “https://my123456.s4hana.cloud.sap”.
12. Validate the information and start the installation with the **ENTER** key. During the process, two browser tabs open sequentially.
13. Authenticate yourself in the first tab and close the second tab.

> **Note**
> The installation process only continues once you close the browser tabs.

14. Exit the installer by pressing the **ENTER key** and wait until the window closes automatically.

Creating user-defined CDS views

User-defined CDS views allow the backend to query role assignments.

This is how it works

1. Change to your SAP S/4HANA Public Cloud-Customizing client.
2. Open the **User-defined CDS views** app.
3. Click **Create**.
4. Specify the label **d.velop connect Roles** and the name **YY1_DVPCON_ROLES**.
5. Select the scenario **external API** and the data source **I_IAMBusinessUserBusinessRole**.
6. Click on **Add > Associated data source**.
7. Select **I_IAMBusinessUserLogonDetails** and **I_IAMBusinessRole**.
8. In the added **I_IAMBusinessUserLogonDetails** row, click on **Join condition** and perform the following steps:
   - Click on **Add**.
   - Select **_I_IAMBusinessUserLogonDetails/UserID**.
   - Select the value type **Field**.
   - Select the value **I_IAMBusinessUserBusinessRole/UserID**.
   - Select **zero or one** as the cardinality.
   - Click on **Close**.
9. In the added **I_IAMBusinessRole** row, click on **Join condition** and perform the following steps:
   - Click on **Add**.
   - Select **_I_IAMBusinessRole/BusinessRoleUUID**.
   - Select the value type **Field**.
   - Select the value **I_IAMBusinessUserBusinessRole/BusinessRoleUUID**.
   - Select **zero or one** as the cardinality.
   - Click on **Close**.
10. Click on **Items**.
11. Click on **Add > Items**.
12. Select the following entries.
    - **_I_IAMBusinessUserLogonDetails/UserName**
    - **_I_IAMBusinessRole/BusinessRoleGroup**
    - **_I_IAMBusinessRole/BusinessRole**
13. Click **Filter**.
14. Click on **Add**, and complete the following steps:
    - Select **I_IAMBusinessUserBusinessRole/BusinessRoleGroup**.
    - Select **Same** as the operator.
    - Select **Constant value** as the value type.
    - Select the value **ZCB_DVP_CON** .
15. Click **Approve**.

Creating user-defined business objects

User-defined business objects are used in order to store configurations for the Fiori Launchpad plug-in and the AppLauncher component on the SAP S/4HANA Public Cloud client.

This is how it works

1. Open the **Business objects** app.

2. Click **New**.
3. Enter the following details:
   - Name: **d.velop connect configuration**
   - Identifier **YY1_DVPCON_CONF**
   - Name in Plural: **d.velop connect configurations**
   - Scenario: **Default**
4. Click **Create**.
5. Enable **Backend-Service**.
6. Click on **Fields**.
7. Click on **New** and create the following fields:

Label	Identifier	Type	Key	Length
userId	userId	Text	X	100
token	token	Text		200
backendUrl	backendUrl	Text		400

8. Click on **Release**.
9. Navigate back to the summary.
10. Click **New**.
11. Enter the following details:
    - Name: **d.velop AppLauncher configuration**
    - Identifier **YY1_DVPAPPL_CONF**
    - Name in Plural: **d.velop AppLauncher configurations**
    - Scenario: **Default**
12. Click **Create**.
13. Enable **user interface** and **Backend-Service**.
14. Click on **Fields**.
15. Click on **New** and create the following fields:

Label	Identifier	Type	Key	Length
variantId	variantId	Text	X	100
title	title	Text		100
url	url	Text		500
headless	headless	Text		20

16. Click on **Release**.

Configuring catalog extensions

By configuring the catalog extensions, you control the assignment of components and application roles.

This is how it works

1. Open the **User-defined catalog extensions** app.
2. In the catalog extensions, click on **Add** and select the application catalog.
3. Click on **Release** and assign the following application catalogs to the catalog extensions:

User-defined catalog extension	Application catalog ID
YY1_DCLFLPPI_UI5R	SAP_CORE_BC_EXT_FLD
YY1_DVPAPPL_CONF_CDS_IBS	SAP_CORE_BC_EXT_CBO
YY1_DVPAPPL_CONF_SCBO	SAP_CORE_BC_EXT_CCE
YY1_DVPAPPL_UI5R	SAP_CORE_BC_EXT_CCE
YY1_DVPCON_CONF_CDS_IBS	SAP_CORE_BC_EXT_CBO

Creating communication scenarios

This is how it works

1. Open the **User-defined communication scenarios** app.
2. Click **New**.
3. Specify the communication scenario ID **YY1_DVPCON_ROLES** and the description **YY1_DVPCON_ROLES scenario**.
4. Under **Inbound services**, click on **Add**.
5. Select the entry **YY1_DVPCON_ROLES_CDS**.
6. Click on **Save** and on **Publish**.
7. Close the detail view and click on **New** once again.
8. Specify the communication scenario ID **YY1_DVPCON_CONF** and the description **YY1_DVPCON_CONF scenario**.
9. Under **Inbound services**, click on **Add**.
10. Select the entry **YY1_DVPCON_CONF_CDS**.
11. Click on **Save** and on **Publish**.
12. Close the detail view.
13. Click on **New** again and specify the communication scenario ID **YY1_DVPAPPL_CONF** and the description **YY1_DVPAPPL_CONF scenario**.
14. Under **Inbound services**, click on **Add**.
15. Select the entry **YY1_DVPAPPL_CONF_CDS**.
16. Click on **Save** and on **Publish**.

Creating communication systems

This is how it works

1. Open the **communication systems** app.
2. Search for the communication system of your SAP Cloud system. The host name contains the add-on **api.s4hana**.
3. Copy the host name.
4. Click on **New** and enter the system ID and the system name **DVP_CONSRV**.
5. In the **Technical data** area, enable the **Inbound only** option.
6. Specify the host name **DVP_CONSRV**.
7. Click on the plus symbol in the **Users for incoming communication** area.
8. Click **New user**.
9. Specify a user name, a description and a password.
10. Click on **Save** and on **OK**.
11. Click **Save**.

Creating communication agreements

This is how it works

1. Open the **Communication agreements** app.
2. Click **New**.
3. Select the communication scenario **YY1_DVPCON_CONF** and click on **Create**.
4. In the **Common data** area, select the communication system **DVP_CONSRV** .
5. Click **Save**.
6. Repeat the process for the communication scenario **YY1_DVPCON_ROLES**.

Configuring destinations

This is how it works

1. Switch to the SAP BTP sub-account that you selected for deployment.
2. In the sidebar in the **Connectivity** area, click on **Destinations**.
3. Click on **Create** and on **From Scratch**.
4. Enter the name **s4pc** and add the URL of your SAP S/4HANA Public Cloud-Customizing client under **URL** (for example: “https://my123456.s4hana.cloud.sap”).

5. Select **BasicAuthentication** as the authentication.
6. For username and password, select the data of the communication user that you configured under Creating communication systems.
7. Add your d.velop documents tenants. You must enter your API key in an additional property with the name **apiKey**.

From now on, the destinations are updated at five-minute intervals. You can either wait until the next update or restart the service. The customizing process is then complete.

1.2.4. Installing updates in SAP S/4HANA On-Premises & Private Cloud Edition

To install updates for d.velop connect for SAP Fiori in SAP S/4HANA On-Premises and Private Cloud, proceed as follows, in the same way as during the installation. For more information, see Install in SAP S/4HANA On-Premises and Cloud Private Edition.

To use the new features of the Fiori Launchpad plug-in, you must migrate existing configurations after an update. You can migrate the configurations automatically using an appropriate tool. Be sure to save your configurations before migrating them in order to prevent loss of data. For more detailed information, see Exporting configurations.

This is how it works

1. Navigate to the start page of the Fiori Launchpad plug-in.
2. Click on the wrench icon in the banner.
3. Click on **Configurations**.
4. Click on **Migrate** and confirm the query.

1.2.5. Installing updates in SAP S/4HANA Public Cloud Edition

To install updates for d.velop connect for SAP Fiori in SAP S/4HANA Public Cloud, simply run the installation application again. The customizing does not need to be adjusted.

This is how it works

1. Run the appropriate setup file for your operating system. You can find the file in the **public-cloud** subdirectory of the installation package.
2. If necessary, authenticate yourself by opening the link which is displayed and logging in with an SAP account that has access to your global account in SAP BTP.
3. In the installer, select the action **Update system <subaccount name>** if your installation has already been recognized, or alternatively the **Update an existing system** action to select your target system yourself.
4. Authenticate yourself in your new cloud environment by opening the link provided and pasting the authentication code into the installer. For security reasons, the pasted text will not be displayed but will still be recognized.
5. If there are multiple spaces in your subaccount, select the relevant space.
6. Validate the information shown in the summary and start the installation with the **ENTER** key.
7. Wait until the first part of the update is complete.
8. Next, enter the URL of your SAP S/4HANA Public Cloud development client. Example: **https://my123456.s4hana.cloud.sap**
9. Validate the information and start the installation with the **ENTER** key.
10. During the process, two browser tabs open sequentially. Authenticate yourself in the first tab. You can close the second tab.

> **Note**
> The update process only continues once you close the browser tabs.

11. Exit the installer by pressing the **ENTER** key. Wait until the window closes automatically.

1.2.6. Uninstall in SAP S/4HANA On-Premises & Private Cloud Edition

As the installation of d.velop connect for SAP Fiori in SAP S/4HANA On-Premises & Private Cloud Edition takes place with the use of SAP transports, you can only uninstall the components with the use of a special delete transport. To do this, please contact your contact person at d.velop.

1.2.7. Uninstalling in SAP S/4HANA Cloud Public Edition

Due to technical limitations in SAP S/4HANA Public Cloud, objects that have been transported to the production system cannot be removed. Therefore, please disable all the objects you created in chapter Installing in SAP S/4HANA Cloud Public Edition and unlink the catalog extensions. You must also remove the backend from SAP BTP. The required steps are described as follows.

Removing a Backend – this is how it works

1. Open your SAP BTP cockpit.
2. Select the subaccount that contains the system you want to delete.
3. Select the space that contains the system you want to delete.
4. In the page navigation, click on **Applications**.
5. You can remove all apps by clicking on the button to remove an app in the **Actions** column for each app.
6. In the page navigation, click on **Instances.**
7. Remove all instances by clicking on the three dots menu and then on **Delete**. Make sure that in particular the database instance **d-velop_integration_service-database** was removed.
8. If necessary, delete the space you selected if your space no longer contains any apps or instances. If your subaccount no longer contains any spaces, you can also delete the subaccount from your global account.

1.3. General configuration

The application consists of two parts. These two parts each have their own configuration steps and are described in the following chapters. Some configuration steps are relevant to both applications.

1.3.1. Setting up the domain for the integration

In technical terms, the embedding of web pages is based on IFrames. If the URL you would like to integrate is not from the same domain in which the FLP was launched, the browser will prevent the integration (CORS policy). This policy is designed to ensure that internet sites are able to integrate other internet sites and therefore pass themselves off as the self-same website. For the integration to work, you must enter the domain in which the FLP was launched in the d.velop documents configuration. In cloud clients, the domain is stored in the **Web settings** feature under **Integration settings**. In on-premises installations, the respective header is set up in the d.ecs http gateway.

How it works in the cloud

1. Open the configuration.
2. Click on **Integrations settings** in the **Web settings** feature.
3. Click on **Add domain**.
4. Add the domain of your SAP system.
5. Click **Save**.

How it works on-premises

1. Open the configuration of d.ecs http gateway.
2. Click on **Configuration**.
3. In the **Addition headers** area, expand the **Content security policy** header to include the domain of your SAP system.
4. Click on **Save changes.**

5. Wait until the d.ecs http gateway has restarted.

1.3.2. Installing the Wrapper

The Wrapper allows disabling of the Header Row in the old document management operating concept and enables the Headless mode. If you use the old operating concept and would like to use the Headless mode, you must install a Wrapper file. Start by checking which operating concept is active. In the d.velop documents dashboard, click on **Configuration > Feature Previews > New Operating Concept**.
If you are using a d.velop Cloud client, as a requirement, you will need a web server that provides the **dvpswrapper.html** file.

How it works in the cloud

1. Copy the **dvpswrapper.html** file from the **wrapper** directory of the installation package to your web server.
2. Ensure that the **dvpswrapper.html** file can be loaded without authentication.
3. You will need a self-defined abbreviation for the configuration of the web server, e.g., “dsw”. Configure the web server so that the **dvpswrapper.html** file can be returned under the path “dsw”. The abbreviation is important and is put to subsequent use. Example: https://<your server>:443/dsw/dvpswrapper.html.
4. Launch the administration of your cloud environment in your browser via **my.d-velop.cloud**.
5. Select **My providers** > **Apps**.
6. Click on the plus sign to create a new app.
7. Give the app a three-letter name with the previously assigned abbreviation.
8. Click on **Create new app**.
9. Navigate back to the start page.
10. Open the **d.velop cloud administration** feature.
11. If necessary, select your organisation.
12. Select the client in which your d.velop documents client is running.
13. Find the app you created in the list of apps.
14. Under **Override**, click on **Edit**. A dialogue with the heading **Override app endpoints** is displayed.
15. In the list of apps without override, select the app you created.
16. In the **Modified endpoint** field, enter the link to the path on your web server where the **dvpswrapper.html** file can be loaded.
17. Click **Add**.

How it works on-premises

1. Copy the **dvpswrapper.html** file from the **Wrapper** directory of the installation package to a random directory on the d.velop documents server.
2. Launch Microsoft Internet Information Services (IIS)
3. Launch the Computer Management on the d.velop documents server.
4. Expand the view under **Internet information server**.
5. Expand the **d.3one** site in the detail window.
6. Right-click on the site **d.3one** and select **Add application**.
7. Enter a three-figure abbreviation as an alias. You use this abbreviation later for the configuration of d.ecs http gateway. Best Practice is abbreviated as **dsw**.
8. Under **Physical path**, select the directory into which you copied the file **dvpswrapper.html**.
9. Open the administration page of d.ecs http gateway on the d.velop documents server.
10. Click on **Add new app registration**.
11. Enter the three-figure abbreviation from the IIS configuration for the new registration.
12. Under **Destination URL** enter the value **https//<URL of your d.velop documents server>:<Port of d.ecs http gateway>/<abbreviation>**. You can find the port in the list of apps displayed in the **dms** app. The wildcard **<abbreviation>** corresponds to the three figure abbreviation from step 7 (recommendation: **dsw**).

1.4. Configuring the Fiori launchpad plugin

In this chapter, you can find information about the configuration of d.velop connect for SAP Fiori. Start the configuration by clicking on the wrench icon in the banner of the plugin. The settings are dependent on the Fiori app which is currently open. The following subchapters apply to all installation versions (SAP S/4HANA On-Premises as well as Cloud Private Edition and Public Edition).

1.4.1. Configuration overview

Under **Integrations**, you get an overview of all the configured apps. You can export and import partial configurations or the entire configuration. You can also use **Jump** to go to the start page of the app you have configured. Under **Repositories**, you can add your d.velop documents repositories. The integration of repositories is optional. You need the integration for the guided creation of new integrations of dossiers and documents from d.velop documents (see Embedding dossiers and documents from d.velop documents).

Exporting configurations

How it works

1. Navigate to the start page of Fiori Launchpad.
2. Click on the wrench icon in the banner.
3. Click on **Configurations**.
4. Select the configurations that you want to back up.
5. Click on **Export.**

The integrations are downloaded in the form of a JSON file.

Importing configurations

How it works

1. Navigate to the start page of Fiori Launchpad.
2. Click on the wrench icon in the header.
3. Click on **Configurations**.
4. Click on **Import**.
5. Select a previously exported JSON file.
6. If you would like to add new configurations, click on **Add**. If you would like to overwrite new configurations, click on **Overwrite**.
7. Wait until the import has finished.

> **Note**
> Please note that configurations imported from other SAP systems may not work due to different Customizing settings.

Adding a repository in SAP S/4HANA On-Premises and Cloud Private Edition

You would like to add a repository to your SAP system.

How it works

1. Navigate to the start page of Fiori Launchpad.
2. Click on the wrench icon in the header.
3. Click on **Repositories**.
4. Click on **Add.**
5. Enter the hostname with the log used by your d.velop document instance and an API key.
6. Confirm the input.
7. If required, select the relevant repository. This query is only displayed if more than one repository is available.

8. If you have installed the Wrapper, enter the address of the Wrapper endpoint in the **Wrapper Endpoint** field. Example: **/dsw/dvpswrapper**. For more information, see Installing the Wrapper.

Creating and importing a destination for SAP BTP

Security-relevant information from d.velop documents is not stored directly in d.velop connect for SAP Fiori, but separately in SAP BTP. The following section explains how to create destinations in SAP BTP Cockpit and import them into d.velop connect for SAP Fiori.

This is how it works

1. Open the SAP BTP cockpit and select the subaccount in which d.velop connect for SAP Fiori is installed.
2. Click on **Destinations**. You can now create a new destination or import one from a file.
   - **Creating a destination**: Enter all the necessary connection information. Depending on the system, you may need to enter advanced properties.
   - **To import a destination**: Click on **Import Destination** and upload the appropriate file. Validate the imported information and complete the authentication information.

Removing a repository

How it works

1. Navigate to the start page of Fiori Launchpad.
2. Click on the wrench icon in the header.
3. Click on **Repositories**.
4. Select the repositories that you would like to remove.
5. Click on **Remove**.
6. Confirm the query.

1.4.2. Configuring an app

To configure an app, you have to navigate to it in the SAP Fiori Launchpad (FLP). You can tell whether an app has been configured with d.velop connect for SAP Fiori by the wrench icon in the FLP header. In the case of apps that have not yet been configured, a wrench icon is displayed with a plus icon. In the case of preconfigured apps, only the wrench icon is displayed.

Creating a new configuration

How it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Confirm the query.
4. Enter a unique ID and confirm the entry.
5. Click on **Metadata**.
6. For **Status** specify the **To** value.
7. Click **Save**.

Embedding dossiers and documents from d.velop documents

With d.velop connect for SAP Fiori, you can embed dossiers and documents from your d.velop documents system directly in a Fiori app. The requirement for this is that you have already integrated your repository. For more information, see Adding a repository in SAP S/4HANA On-Premises and Cloud Private Edition.

How it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.

3. Click **Integrations**.
4. Click on **Create > New tab**.
5. Click on **Dossier** and/or on **document**.
6. Select your d.velop documents instance under **System URL**.
7. If required, select the repository.
8. Enter a label for the tab. If you would like to enter labels for additional languages, click on the globe icon. For more information, see Managing translations for labels.
9. Click on **Next step**.
10. Select all categories to be searched. Note that you can only filter by common properties.
11. Click on **Next step**.
12. Select all properties by which you wish to filter. You can skip the selection if you do not wish to filter by properties.
13. Click on **Next step**.
14. For the relevant rows, in the **Input Source** column, click on **Select**.
15. Select the type of input value. The input values are used as a search filter. For more information, see Input values.
    - If you have selected **Constant**, you can enter a label in the **Input value** column. Otherwise you can define a property in this column.
    - If you want to edit the input value, click on the wrench icon. For more information, see Post-processing input values.
16. Click on **Next step**.
17. Check the details and click on **Generate** and **Save**.

Embedding documents as an attachment list

You can also embed documents from d.velop documents in the form of an attachment list. The SAP Fiori-compliant design of the asset list ensures a uniform and seamless integration into the user interface. Provided that the list has been set up, the attachment list is automatically updated when documents are stored. The configuration takes place along the same lines as Embedding dossiers and documents from d.velop documents. The requirement for this is that you have integrated your repository. For more information, see Adding a repository in SAP S/4HANA On-Premises and Cloud Private Edition.

This is how it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**.
4. Click on **Create** > **New tab**.
5. Click on **Attachment list**.
6. Complete the steps listed under Embedding dossiers and documents from d.velop documents starting from step 6.

Linking dossiers and documents from d.velop documents

With d.velop connect for SAP Fiori you can link dossiers and documents from your d.velop documents system in a Fiori app. To do this, you can integrate buttons and hyperlinks into existing areas, which open dossiers and documents in a new tab. The requirement for this is that you have already integrated your repository. Further information is provided in the Adding a repository in SAP S/4HANA On-Premises and Cloud Private Edition chapter.

How it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon in the banner.
3. Click **Integrations.**
4. Click on **Create > New area**.

5. Click on **New button** and/or **New link**.
6. In the submenu for **New button** or **New link**, click on **Dossier** or **Document**.
7. Use the selection tool to select an area where you want to place the button or link.

> **Note**
> Toolbars and SmartForms are supported only. Areas supported by the selection tool are shown with a green border.

8. Under **System URL**, select your d.velop documents instance and, if applicable, the repository.
9. Enter a label for the tab. If you would like to enter labels for additional languages, click on the globe icon. For more information, see Managing translations for labels.
10. Click on **Next step**.
11. Select all categories to be searched. Note that you can only filter by common properties.
12. Click on **Next step**.
13. For the relevant rows, in the **Input source** column, click on **Select**.
14. Select the type of input value. The input values are used as a search filter. For more information, see Input values.
    - If you have selected **Constant**, you can enter a label in the **Input value** column. Otherwise you can define a property in this column.
    - If you want to edit the input value, click on the wrench icon. For more information, see Post-processing input values.
15. Click on **Next step**.
16. Check your details and click on **Generate** and **Save**.

Embedding individual web pages

In addition to dossiers and documents from d.velop documents, you can also embed individual web pages into a Fiori app. The requirement for this is that the web page explicitly allows embedding with the Content Security Policy header.

This is how it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**.
4. Click on **Create > New tab > User-defined**.
5. Specify a title under **Group title**. If you would like to enter labels for additional languages, click on the globe icon. For more information, see Managing translations for labels.
6. In the **URL** column, enter the URL of the web page you want to integrate. You can use wildcards for URL parameters, which are replaced with values from the input sources. For more information, see Wildcards.
7. If you use wildcards, click on **Manage** in the **Options** column.
8. Click on **Create**.
9. Select an input type. For more information, see Input values.
    - If you have selected **Constant**, you can enter a label in the **Input value** column. Otherwise you can define a property in this column.
    - If you want to edit the input value, click on the wrench icon. For more information, see Post-processing input values.
    - The order of the created input values determines the replacement of the wildcards in the URL. If you want to remove an input value again, select the entry and click on **Remove**.
10. Click on **Back** and **Save**.

Configuring document storage

With d.velop connect for SAP Fiori, you can save documents from a Fiori app in your d.velop documents system. To do so, you can integrate buttons into existing areas, which open a dialog for saving (storage

dialog). The storage dialog includes a selection of categories that you can define in advance during setup. The properties of the category are automatically filled with data from the Fiori app. Defined properties can also be filled manually. The requirement for this is that you have already integrated your repository. For more information, see Adding a repository in SAP S/4HANA On-Premises and Cloud Private Edition.

This is how it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**.
4. Click on **Create > New area > New button > Storage**.
5. Use the selection tool to select an area where you want to place the button or link.

> **Note**
> Toolbars and SmartForms are supported only. Areas that can be captured with the selection tool are shown with a green border.

6. Under **System URL**, select your d.velop documents instance and, if applicable, the repository.
7. Enter a label for the button. If you would like to enter labels for additional languages, click on the globe icon. For more information, see Managing translations for labels.
8. Click on **Next step**.
9. Select the categories that are to be available in the storage dialog.
10. Click on **Next step**.
11. Select the properties to be filled in the storage dialog. Required fields are selected automatically.
12. Click on **Next step**.
13. For the relevant rows, in the **Input Source** column, click on **Select**.
14. Select the type of input value. The input values are used as a search filter. For more information, see Input values.
    - If you have selected **Constant**, you can enter a term in the **Input value** column.
    - If you have selected **Input before storage**, users can complete the entry themselves when saving documents. Otherwise you can select a property in the **Input value** column.
    - Click on the wrench icon to edit the input value. For more information, see Post-processing input values.
15. Click on **Next step**.
16. Check your details and click on **Generate** and **Save**.

> **Note**
> Fields with multi-value properties are not supported.

Defining the visibility of an integration with conditions

If you want to show or hide integrations only under certain conditions, you can define rules based on input values.

This is how it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**.
4. In the row for the relevant integration, click on **Manage**.
5. Click on **Input values**.
6. Create an input value with which the rule is to be compared. For more information, see Input values.
7. Click on **Rules** > **Create**.

8. Select the input value you created beforehand.
9. Select a comparator, a comparison value and a rule.
10. Click on **Save**.

Copying an integration

If you're using rules to control the visibility of similar integrations, it is helpful to copy one integration.

This is how it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**.
4. In the **Options** column for the integration, click on the copy symbol. The copied integration is inserted at the end of the list.
5. Change the copied integration as required.
6. Click on **Save**.

Adjusting the behaviour of an integration

You can customize the behaviour of the created integrations with parameters. A list of the support parameters and further information is provided in chapter Item types.

How it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**.
4. In the row for the integration whose behaviour you want to customize, click on **Administer**.
5. Click on **Parameters**.
6. Click on **Create**.
7. Select a parameter from the list and confirm your selection.
8. In the **Value** column, enter the value you selected for the parameter that you created.
9. Click **Save**.

Changing the position of an integration

You can change the position of an integration within the surrounding container.

This is how it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**.
4. Enable edit mode by clicking on the pencil icon.
5. Enter an index in the **Position** column in the row of the integration to be changed.
   - To append the integration to the end of a container, you can leave the field blank.
   - To move the integration from the end of the container toward the beginning, enter a negative index. An index of **-1** places the integration in the second to last position of the container.
   - To insert the integration at the start of the container, enter the index **0**.
   - To move the integration from the beginning of the container toward the end, enter a positive index. An index of **1** places the integration in the second position of the container.
6. Click on **Save**.

Post-processing input values

You can adapt the input values of the data type **String** with several post-processing options. You can enable each option as required. All options are described below.

You open post-processing by clicking on the wrench icon next to a selection field for input values.

Fill

Fills the input value to a specified length. You can define the length in the **Total length** input field and the character in the **Fill with characters** input field. In the **Position** field, you can determine whether the characters are to be inserted at the beginning or the end.

Replace

Replaces a character string with a different character string. Enter the character string to be replaced under **Search** and enter the new character string under **Replace**.

Concatenate

Inserts a character string into the input value. You can define the character string to be inserted in the **Text** input field. In the **Position** field, you can determine whether the character string is to be inserted at the beginning or the end.

Substring

Returns the characters between a start and end index of the input value. Enter the start index under **Start index** and, optionally, the end index under **End index**. If the **End index** field is left empty, all characters from the start index to the end of the string are used.

Split

Separates the input value with a separator character. Enter the separator character under **Separator** and the index of the required string under **Index**.

> **Note**
> **Example**
>
> Input value: "This is a test."
>
> Separator: <space character>
>
> Index: 1
>
> Result: "is"

Upper/lower case

Converts all characters in the input value to uppercase or lowercase letters.

Trim

Removes all space characters at the start and end of the input value.

Managing translations for labels

You can enter translations for labels in several languages. The translated labels are displayed in the corresponding login language of the user. If no translation has been entered for the language used, the text from the **Label** column of the integration is used.

This is how it works

1. Click on the globe icon next to the input field for labels.
2. Click the plus sign.

3. Select the language you want to use for the translation and confirm your selection.
4. Enter the translation in the row that is added.
5. Click **Confirm**.

Removing the configuration of an app

How it works

1. Navigate to the app whose configuration you would like to completely remove.
2. Click on the wrench icon.
3. Click on **Metadata**.
4. For **Status** specify the value **Off** .
5. Click **Save**.
6. Click on **Remove** and confirm the query.

1.4.3. Displaying integration logs

Information, warnings, and errors are logged during the implementation of integrations. Logs can be displayed in table form. The logs aren't saved, but only displayed for the current implementation.

This is how it works

1. Navigate to the app that you would like to configure.
2. Click on the wrench icon.
3. Click **Integrations**. If logs have been created, click the icon in the **Status** column of an integration that displays information, warnings or errors.
4. Click on **Export** to export the logs as a CSV file.

1.4.4. Configuring the user-specific settings

You can enable or disable the status of all integrations and extended logging with the user-specific settings. By default, you configure logging globally. You can use different settings for individual users.

Extended logging is not required during regular operation and is used exclusively for error diagnostics.

Adjusting the global settings

How it works

1. In the user menu for the SAP Fiori Launchpad (FLP), click on **Settings**.
2. In the navigation pane, click on **d.velop connect for SAP Fiori**.
3. Click on **Global settings**.
4. To enable and/or disable all integrations globally, change the status of **State of plugin** to **Active** and/or **Inactive**.
5. To enable and/or disable extended logging globally, change the status of **Extended logging** to **Active** and/or **Inactive**.
6. Click **Save**.

Adjusting the user-specific settings

How it works

1. In the user menu for the SAP Fiori Launchpad (FLP), click on **Settings**.
2. In the navigation pane, click on **d.velop connect for SAP Fiori**.
3. Click on **Create**.
4. Enter the SAP user ID and confirm your entry.
5. To enable and/or disable all integrations for the user, change the status of **State of plugin** to **Active** and/or **Inactive**.
6. To enable and/or disable extended logging for the user, change the status of **Extended logging** to **Active** and/or **Inactive**.

7. Click **Save**.

Removing user-specific settings

How it works

1. In the user menu for the SAP Fiori Launchpad (FLP), click on **Settings**.
2. In the navigation pane, click on **d.velop connect for SAP Fiori**.
3. Click on the list entry with the ID of the SAP user.
4. Click on **Remove** and confirm the query.
5. Click **Save**.

1.4.5. Configuring the browser-specific settings

To use d.velop connect for SAP Fiori with the Mozilla Firefox and Safari web browsers, you need to customize the settings in the event of each installation. In the case of Google Chrome and other Chromium-based web browsers, no adjustment of the settings is necessary.

Mozilla Firefox

If you use the Mozilla Firefox browser, you will need to customize the **Browser data protection** setting.

How it works

1. In Mozilla Firefox, click on the three horizontal lines.
2. Click on **Settings**.
3. Click on **Data protection & security**.
4. Click on **Manage exceptions**.
5. Enter the address of the SAP Fiori Launchpad (FLP) start page.
6. Click on **Add exception**.

Apple Safari

If you use the Apple Safari browser, you will need to customize the **Website Tracking** setting.

How it works

1. In the Safari menu bar, click on **Settings**.
2. Click on **Data protection**.
3. Disable the **Prevent cross-site tracking** setting.

1.5. Configuring the AppLauncher components (SAP S/4HANA On-Premises and Cloud Private Edition)

d.velop connect for SAP Fiori is supplied with the Fiori catalog d.velop connect for SAP Fiori with the ID **dvpConn4Fio** . The catalog contains two target mappings: one for the Fiori Launchpad plugin (semantic object **Shell**) and one for the AppLauncher (semantic object **DvpAppL**). You require the Target Mapping for the AppLauncher for the further configuration. The following subsections apply to the installation versions SAP S/4HANA On-Premises and Cloud Private Edition)

1.5.1. Assigning user roles for Launchpad administrators

For the administration to be able to perform the further configuration in SAP Fiori Launchpad Designer, access to the respective catalog is required. The catalog is included in d.velop connect for SAP Fiori.

How it works

1. Start the transaction **SU01**.
2. Enter the user ID of the administrator who is allowed to edit the Launchpad configurations.
3. Click on **Roles**.

4. Add the role **/DVELOP/FIU_ADMIN** to the user.

Alternatively, you can add the role **/DVELOP/FIU_ADMIN** to an (admin) composite role and then assign this composite role to the administrator.

1.5.2. Creating a reference to a target mapping in the customer catalog

To use the AppLauncher, a new Target Mapping must be created in a customer catalog. The Target Mapping is then used to create a tile in the SAP Fiori Launchpad. However, the Target Mapping does not need to be captured again. Instead, a reference to the Target Mapping is created in the delivered catalog of d.velop connect for SAP Fiori which therefore contains all necessary information.

How it works

1. Start the SAP Fiori Launchpad Designer.
2. Select the catalog **d.velop connect for SAP Fiori**.
3. In the catalog details, select the **Target Mappings** tab.
4. Click on the line with the semantic object **DvpAppL**.
5. Click on **Create reference**.
6. Select the catalog in which the new Target Mapping should be saved as a reference. You will receive a notification when the Target Mapping has been successfully created.

1.5.3. Creating tiles for (deep) links in the launchpad

To display a tile in SAP Fiori Launchpad, it must be defined in a catalog in SAP Fiori Launchpad first. Tile definitions use target definitions for Fiori apps to enable the technical data of the app to be used in a tile without any further technical knowledge.

How it works

1. Start the SAP Fiori Launchpad Designer.
2. Select the catalog in which you want to create a tile to use a (deep) link in d.velop documents (or another external link) to launch within the Fiori Launchpad.
3. Click on the **Tiles** tab, which displays the defined tiles to you in list format.
4. Click on **Create tile**.
5. Select **App Launcher - Static**.
6. Under **General**, enter the following values to define the appearance of the tiles:
   - **Title**
   - **Subtitle**
   - **Keywords**
   - **Icon**
   - **Information**
7. Enable **Use semantic object navigation** under **Navigation**.
8. Use the semantic object **DvpAppL**.
9. Select the **Display** action.
10. Under **Parameters**, enter the parameters for the d.velop AppLauncher component:
    - **title**: Title to be used as the Fiori app name for the link
    - **headless**: With the **true** and/or **false** metrics, you can remove the header from a d.velop app. In this way the link looks like an integrated app.
    - **url**: The URL to be integrated

Please note:

- You are only required to state the parameter **url**.
- You must convert the URL into a URL coded format. To do this, you can use web pages such as https://www.urlencoder.org.
- The first parameter is captured directly without a prefix.

1.6. Configuring the AppLauncher components (SAP S/4HANA Cloud Public Edition)

The following steps apply to the SAP S/4HANA Cloud Public Edition installation version. To create new configurations, you need the application role **BR_EXTENSIBILITY_SPEC**. You can assign this application role to yourself in the app using **Manage application users**.

This is how it works

1. Open the **d.velop AppLauncher** app.
2. Open the user menu.
3. Click on **Customize UI**.
4. Click on the menu with the three horizontal lines.
5. Click on **App versions**/**Save as**.
6. Specify a title and, if necessary, a subtitle and a symbol.
7. Click **Save**.
8. Confirm the information dialogs and wait until you are redirected to the start page.
9. Open the d.velop AppLauncher again.
10. Repeat steps 3 and 4.
11. Click on **App versions**/**Manage**.
12. Search for the app version that you added, and click on **Actions** in the corresponding row.
13. Click on **Copy ID**.
14. Close the dialog and the edit mode by clicking on **X**.
15. Open the **d.velop AppLauncher configurations** app.
16. Click **Create**.
17. Add the copied ID into the **variantId** field.
18. Enter the URL of the page to be displayed under **url**. If you would like to integrate a d.velop app, you can optionally remove the header bar with **headless** by entering **true**.
19. Optionally overwrite the title of the app with **title**.
20. Click **Create**.

After configuring the app version, it is necessary for you to assign the version widget to an application catalog, as the widget is assigned to an administrative application catalog by default.

This is how it works

1. Open the **User-defined catalog extensions** app.
2. Click on the catalog extension with the title that you entered earlier.
3. Select the existing application catalog and click on **Revoke release**.
4. Confirm the query and wait until the status changes to **Not released**.
5. Select the new application catalogs again and click on **Remove**.
6. Click on **Add**.
7. Select the application catalogs in which the widget should be shown. Ensure that all users have been assigned the necessary permissions for the application catalogs.
8. Select the new application catalogs and click on **Release**.
9. Confirm the query.

1.7. Additional information sources and imprint

If you want to deepen your knowledge of d.velop software, visit the d.velop academy digital learning platform at https://dvelopacademy.keelearning.de/.

Our E-learning modules let you develop a more in-depth knowledge and specialist expertise at your own speed. A huge number of E-learning modules are free for you to access without registering beforehand.

Visit our Knowledge Base on the d.velop service portal. In the Knowledge Base, you can find all our latest solutions, answers to frequently asked questions and how-to topics for specific tasks. You can find the Knowledge Base at the following address: https://kb.d-velop.de/

Find the central imprint at https://www.d-velop.com/imprint.