

## AGIMENDO.edit UI5

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### Installation Guide

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Responsible Person	Felix Weyde ( <a href="mailto:felix.weyde@ibsolution.de">felix.weyde@ibsolution.de</a> )

### Summary

This manual is intended to guide you through the installation and setup procedure of AGIMENDO.edit (including UI5). For further information please refer to the getting started guide or the user manual. This documentation is provided by the development department of the IBsolution GmbH.

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## 1. Introduction

AGIMENDO.edit UI5 has been developed to easily maintain master data in an SAP Business Warehouse (SAP BW) environment. The UI5 module brings it to the best and easiest configurable interface technology of SAP.

After setting up the application in your SAP BW system you can easily edit the master data of all info objects (characteristics) of your system.

AGIMENDO.edit UI5 consists of a combination of SAP UI5 frontend interfaces with backend gateway services.

The application will be delivered as an SAP ABAP transport request that contains all necessary objects. After importing the transport request and running through the installation procedure the application components can be called directly via URL or could be integrated to a portal.

This documentation will guide you through all necessary steps.

## 2. System Requirements

Before starting the installation procedure, you have to check if your system meets the basic requirements:

Component	Release	Level	Support Package	Description
SAP_ABA	750	0005	SAPK-75005INSAPABA	Cross-Application Component
SAP_BASIS	750	0005	SAPK-75005INSAPBASIS	SAP Basis Component
SAP_BW	750	0005	SAPK-75005INSAPBW	SAP Business Warehouse
BI_CONT	757	0010	SAPK-75710INBICONT	Business Intelligence Content
SP_GWFND	750	0005	SAPK-75005INSAPGWFND	SAP Gateway Foundation

AGIMENDO.edit UI5 uses the forced static version 1.52.12 of SAPUI5. More recent version of SAPUI5 is currently not supported.

### 2.1 Check SAP Gateway

The SAP Gateway has to be enabled and ready to accept local connections. To ensure, the SAP Gateway is enabled and configures properly.

To check the current status of the SAP Gateway, go to transaction SPRO and navigate to node Activate or Deactivate SAP Gateway.

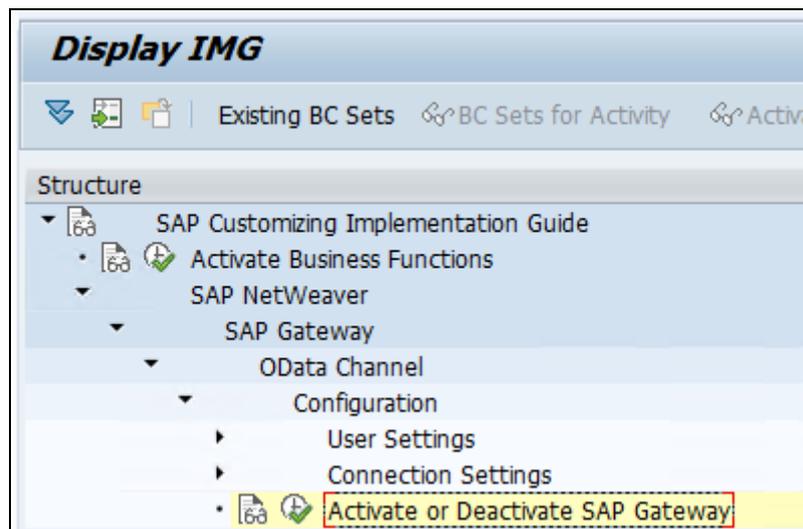


Figure 1: SPRO - Select Gateway Activation

After executing the action, either the following popup appears, and you can proceed to activate the SAP Gateway.



Figure 2: SPRO - Dialog to activate SAP Gateway

Otherwise the information will be displayed, that the SAP Gateway is already running.



Figure 3: SPRO - Dialog to deactivate SAP Gateway

In this case, please do not Deactivate the SAP Gateway.

*Installation step 1: Check, if SAP Gateway is activated by transaction SPRO >> SAP Customizing Implementation Guide >> SAP NetWeaver >> SAP Gateway >> OData Channel >> Configuration >> Activate or Deactivate SAP Gateway. If not already activated, please activate SAP Gateway.*

## 2.2 Check System Alias

To enable a connection of SAP Gateway to the local machine we need a system alias normally called LOCAL. To check, whether the system alias is already maintained, go to transaction SPRO and search for "Manage SAP System Aliases".

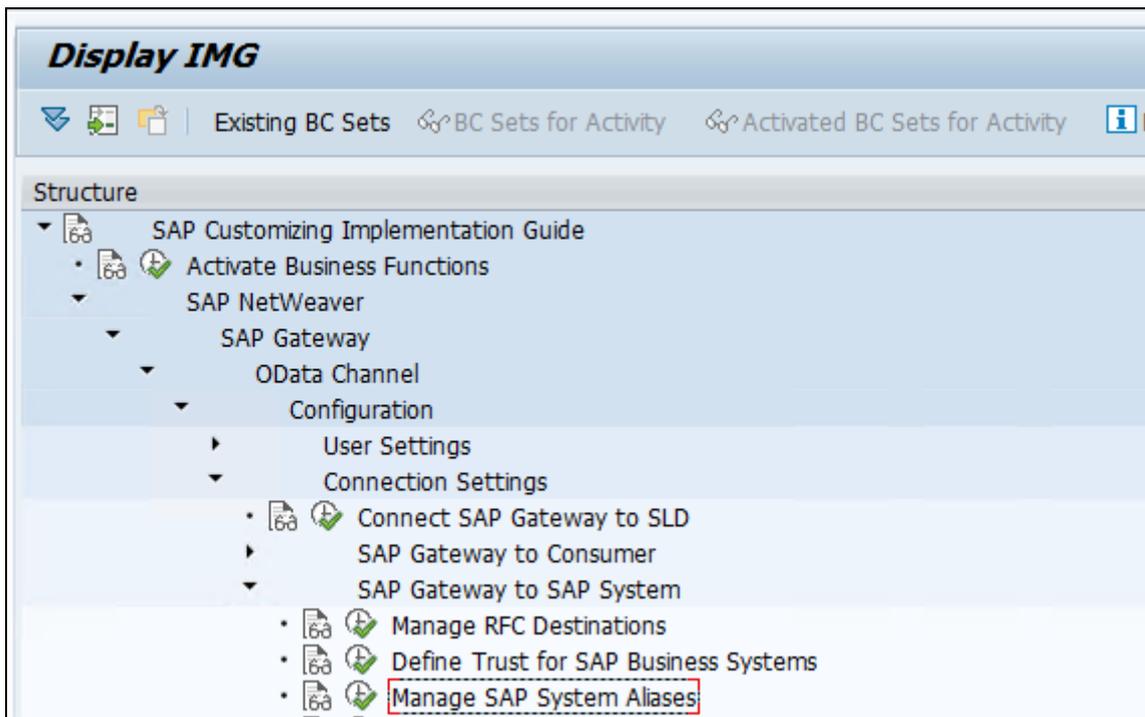
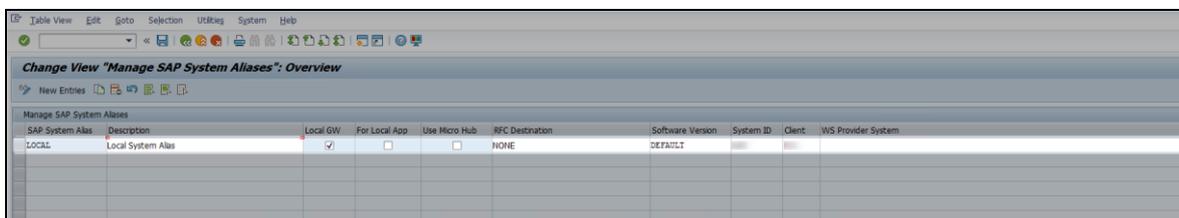


Figure 4: SPRO - Manage SAP System Aliases

Within the following table check if the system alias LOCAL does exist. If not, please create an entry according your system and save.



SAP System Alias	Description	Local GW	For Local App	Use Micro Hub	RFC Destination	Software Version	System ID	Client	WS Provider System
LOCAL	Local System Alias	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NONE	DEFAULT			

Figure 5: SPRO - Maintain SAP System Aliases

*Installation step 2: Check if system alias LOCAL does exist or create if not. Go to transaction SPRO >> SAP Customizing Implementation Guide >> SAP NetWeaver >> SAP Gateway >> OData Channel >> Configuration >> Connection Settings >> SAP Gateway to SAP System >> Manage SAP System Aliases. Maintain a LOCAL system alias if not already there.*

### 3. Installation procedure

#### 3.1 Namespace registration

To prevent naming conflicts all objects have been created in the /ISV/ namespace. This is a globally unique prefix that has been reserved by SAP for IBsolution GmbH development objects.

If the /ISV/ namespace is missing in your SAP system, you have to create the /ISV/ namespace. To do so, just use the SAP transport organizer (transaction **SE03**). Go to *Transport Organizer Tools*,

Administration and choose *Display/Change Namespaces*. Afterwards switch to editing mode (Figure 6) and create a new entry (Figure 7).

Please fill out the parameters according to Figure 8. Entering the repair license is a necessary step in case you want to modify the extractor logic later.

The *Repair License* is: 00779797301552259874.

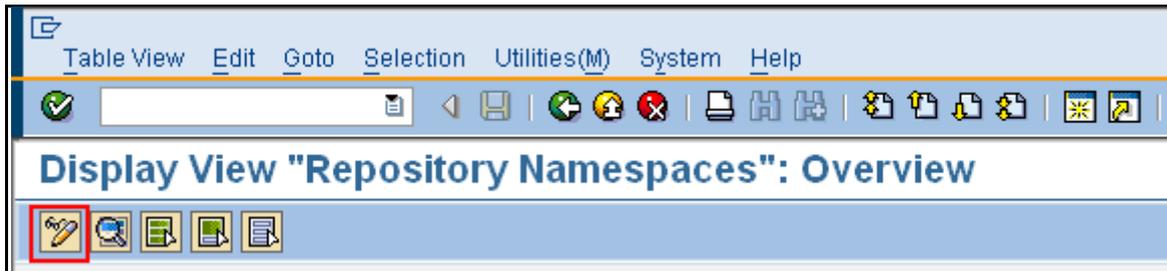


Figure 6: Edit Namespaces



Figure 7: Create a new Namespace

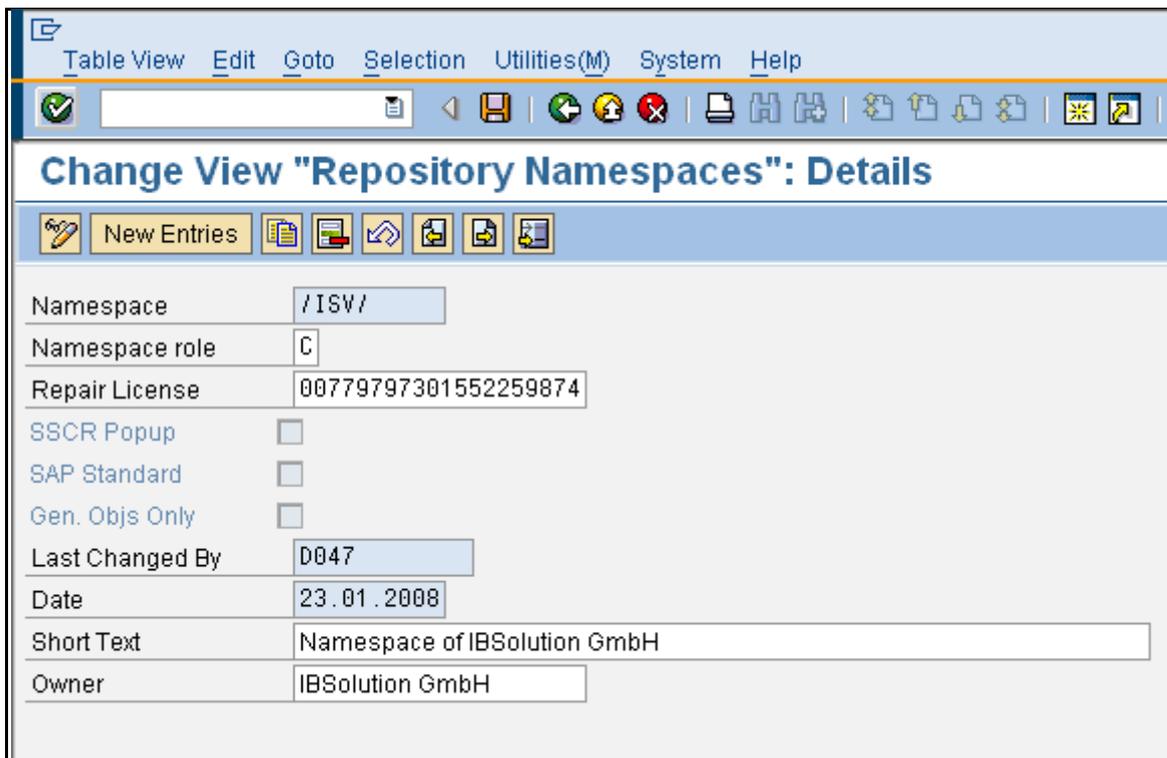
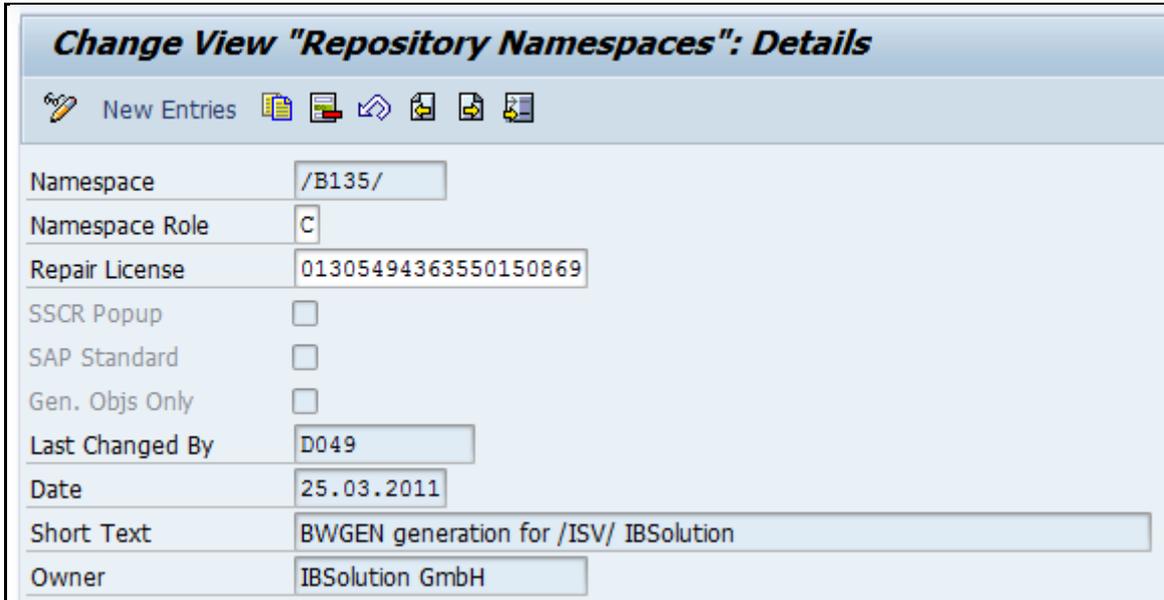


Figure 8: Create and Manage ISV Namespace

The *Repair License* is: 00779797301552259874

*Installation step 3: Open transaction se03 > Transport Organizer Tools > Administration and create and configure namespace /ISV/ and enter repair license 00779797301552259874.*

You also will need to create the corresponding BWGEN-Namespace (Figure 9):



Change View "Repository Namespaces": Details	
New Entries	[Icons]
Namespace	/B135/
Namespace Role	C
Repair License	01305494363550150869
SSCR Popup	<input type="checkbox"/>
SAP Standard	<input type="checkbox"/>
Gen. Objs Only	<input type="checkbox"/>
Last Changed By	D049
Date	25.03.2011
Short Text	BWGEN generation for /ISV/ IBSolution
Owner	IBSolution GmbH

Figure 9: Create and Manage B135 Namespace

The *Repair License* is: 01305494363550150869.

*Installation step 4: Open transaction se03 > Transport Organizer Tools > Administration and create and configure namespace /B135/ and enter repair license 01305494363550150869.*

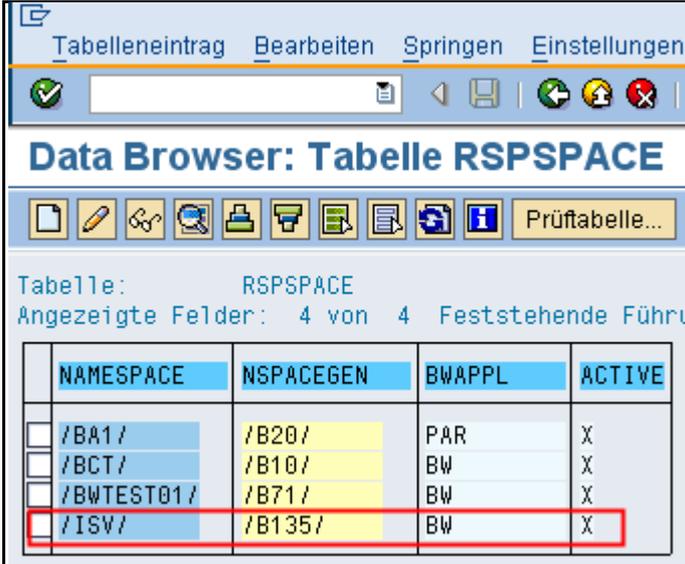
Finally, you have to check the mapping of the Namespaces via the transaction **SE16/SM30** (Figure 10):



Tabellenname: RSPSPACE

Figure 10: Transaction SE16

After entering the table name you can view via F7 the entries of the table. In the following selection screen (Figure 11) you have to confirm without entering any data with F8:



	NAMESPACE	NSPACEGEN	BWAPPL	ACTIVE
<input type="checkbox"/>	/BA1/	/B20/	PAR	X
<input type="checkbox"/>	/BCT/	/B10/	BW	X
<input type="checkbox"/>	/BWTEST01/	/B71/	BW	X
<input type="checkbox"/>	/ISV/	/B135/	BW	X

Figure 11: Mapping /ISV/ and /B135/ in table RSPSPACE

In the table RSPSPACE the entry, marked red in Figure 11, must be present. If all entries are correct the namespace was correctly transported and the other transports can be imported. **If the entry is missing, please create this entry manually before importing the transport requests.**

*Installation step 5: Open se16/se30 for table rspspace and create an entry to link /ISV/ and /B135/ or ensure the entry is already there. The entry needs to have the following values  
NAMESPACE: /ISV/ NSPACEGEN: /B135/ BWAPPL: BW ACTIVE: X.*

### 3.2 Import transport requests

After setting up the namespace, you have to import the transport requests to your system. The name and numbering of the transport requests may differ from customer to customer.

AGIMENDO.edit UI5 uses the functionality of other packages: AGIMENDO.common (which serves as the basis for all the AGIMENDO products) and AGIMENDO.edit. Therefore, the separate transport requests – one for AGIMENDO.common, one for AGIMENDO.edit and one for AGIMENDO.edit UI5 – should be imported (in case some packages are missing in your system yet).

Please note that **the packages must be imported in the following order** or the product may not work properly:

1. AGIMENDO.common
2. AGIMENDO.edit
3. AGIMENDO.edit UI5

The provided transport requests were created by an ABAP Stack with the component version 7.0 SP 15 for AGIMENDO.common and AGIMENDO.edit, and a component version 7.50 SP5 for AGIMENDO.edit UI5. If you are using a newer ABAP stack, please ensure to check the option “Ignore Invalid Component Versions” to avoid errors while importing the transport request.

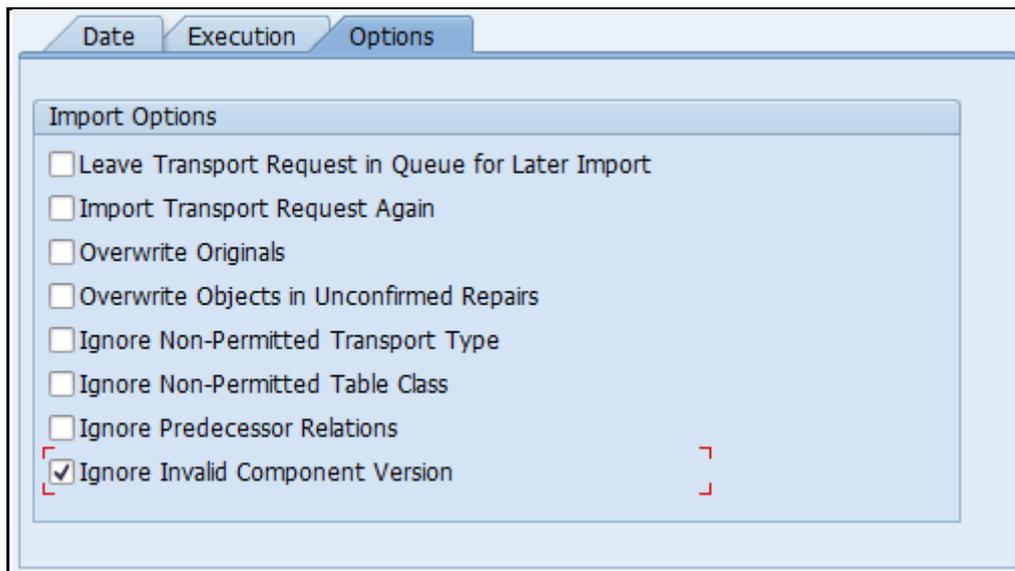


Figure 12: Import options of transport requests

Installation step 6: Import transport requests for AGIMENDO.common, AGIMENDO.edit and AGIMENDO.edit UI5.

To check if the import process has been finished successfully please check if the packages /ISV/AGIM\_COMMON, /ISV/PEX\_AMA and /ISV/AGIM\_UI5\_AE exist. You can use transaction **SE80** (ABAP Workbench) to display the package and its content (Figure 13 and Figure 14):

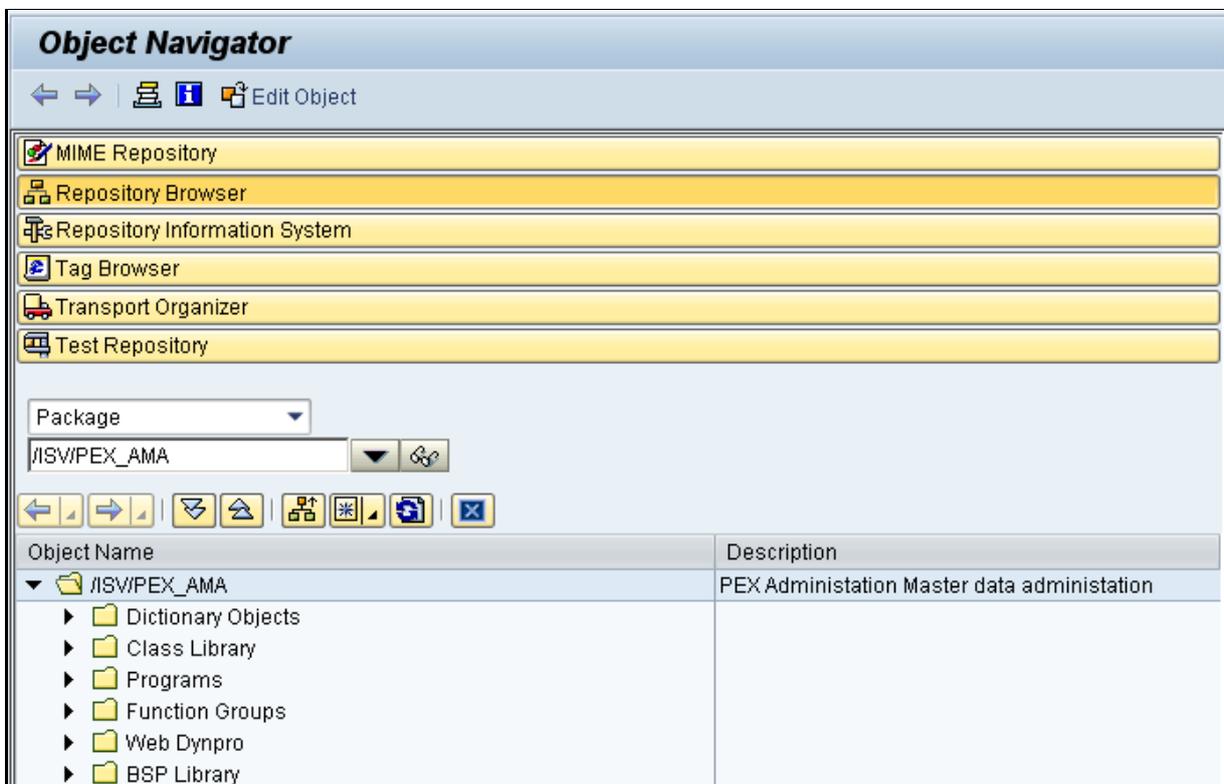


Figure 13: Check if package /ISV/PEX\_AMA is available

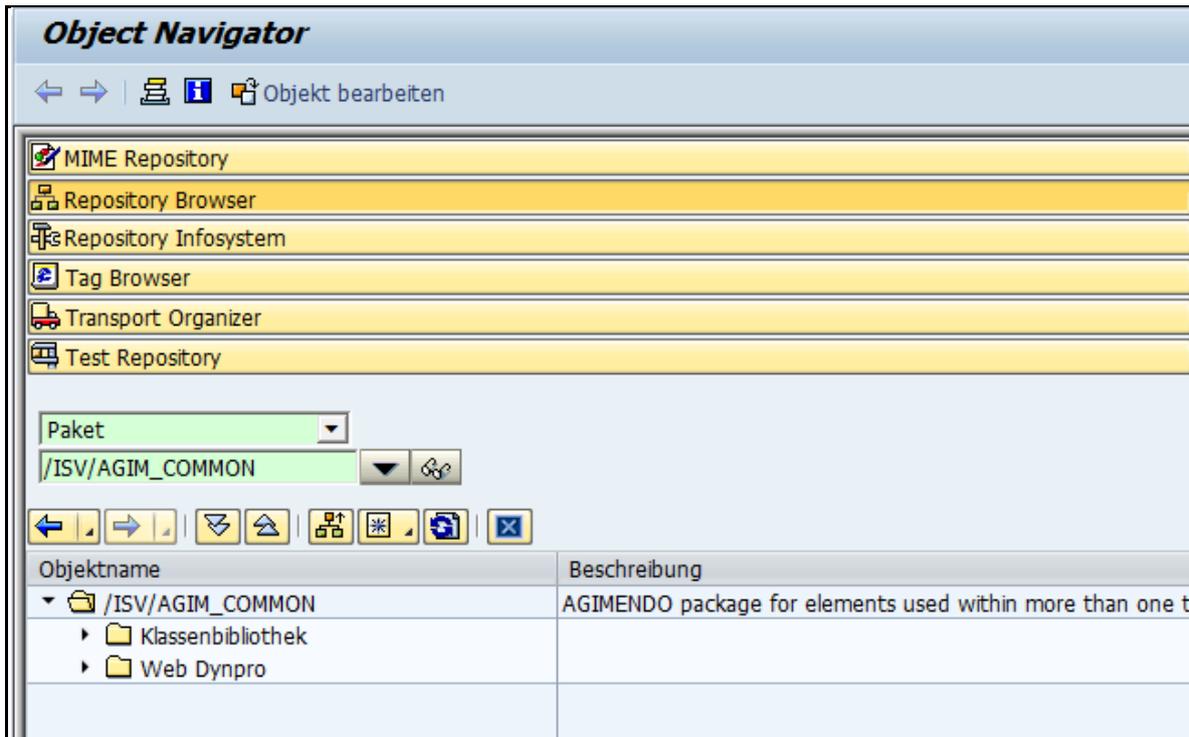


Figure 14: Check if package /ISV/AGIM\_COMMON is available

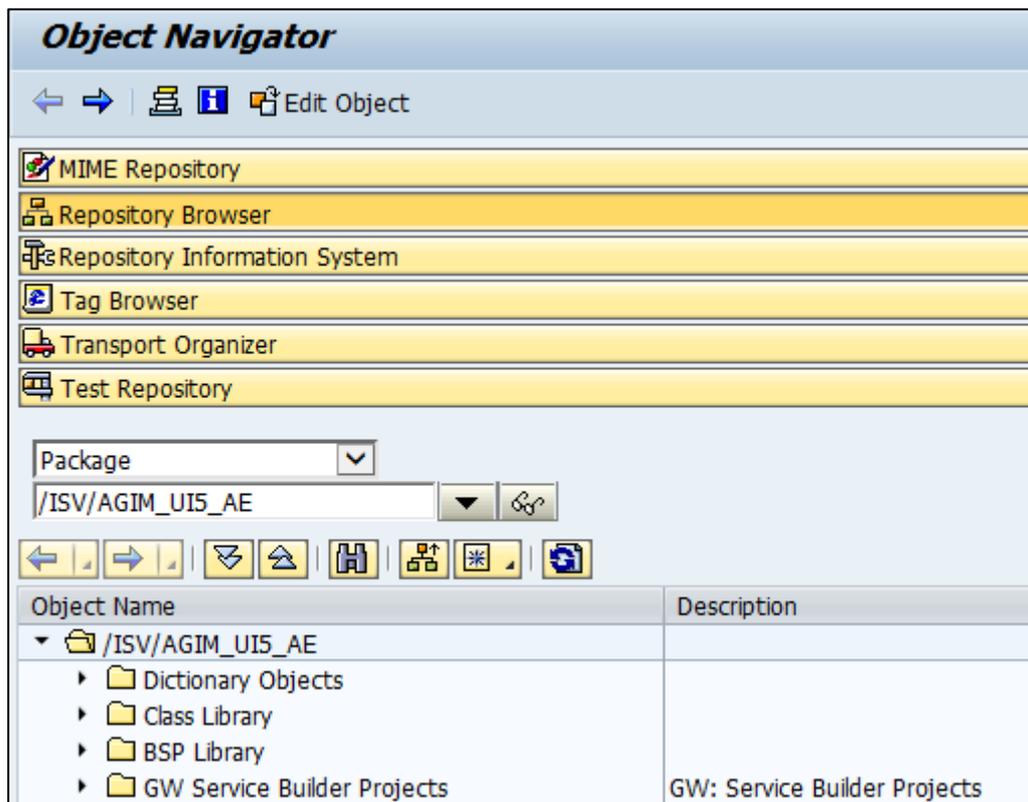
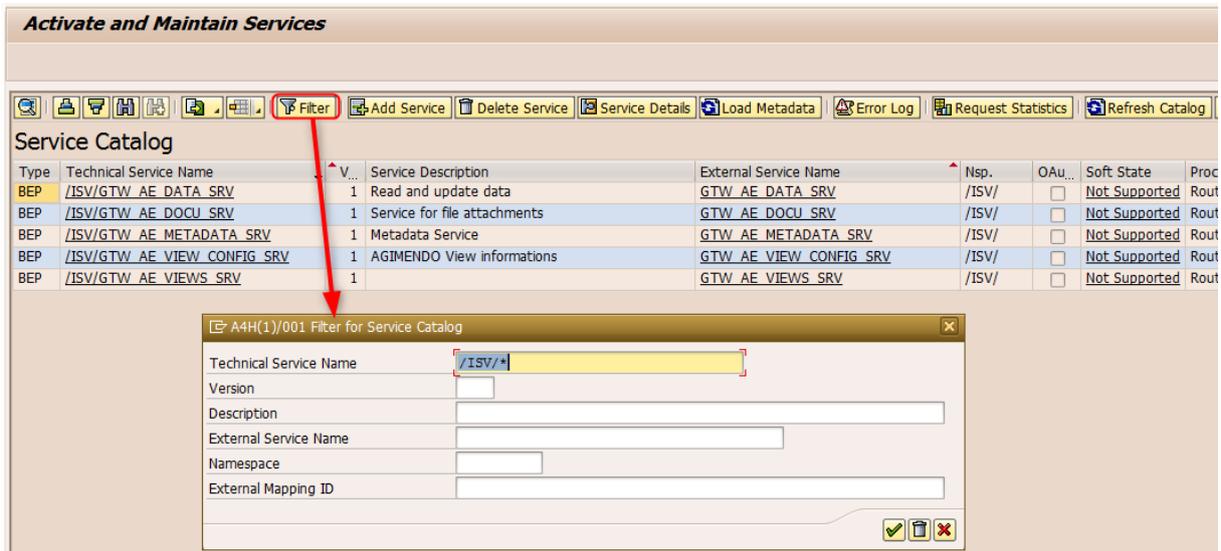


Figure 15: Check if package /ISV/AGIM\_UI5\_AE is available

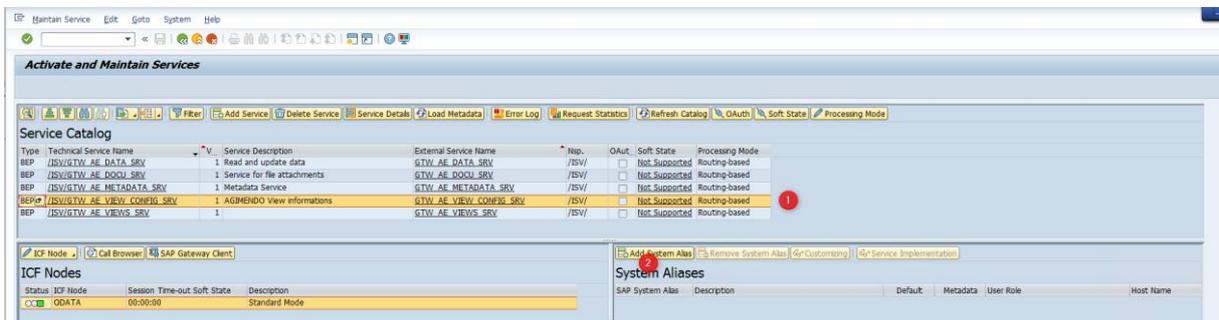
### 3.3 Register the gateway services

We need to register all the gateway services that have been added with the AGIMENDO.edit UI5 Transport using the transaction `/n/iwfnd/maint_service`:

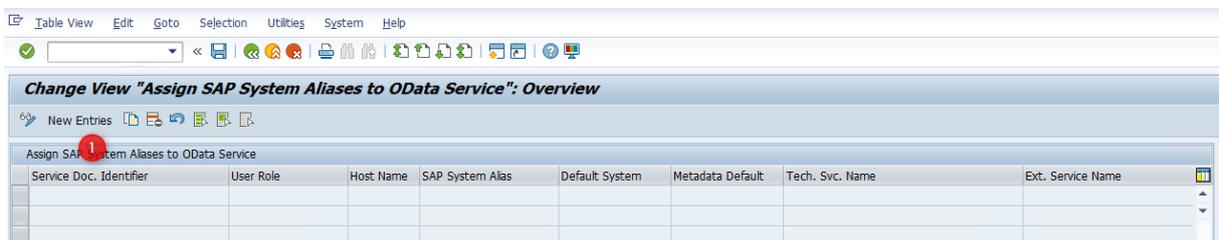
First filter only for `*/ISV/*` services



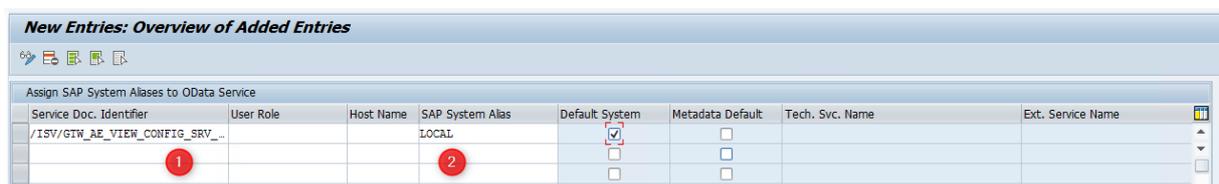
Then select a single line (1) and press add service (2)



Then add a new line by pressing "New Entries"



Fill out the "Service-Doc Identifier" (1) corresponding to the selected service before (use value help), the "SAP System Alias" (2) LOCAL and check the Default System checkbox.



After pressing <ENTER> to submit your changes the line should look like this:

**New Entries: Overview of Added Entries**

Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name
/ISV/GTW_AE_VIEW_CONFIG_SRV_...			LOCAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	/ISV/GTW_AE_VIEW_CONFIG_SRV	GTW_AE_VIEW_CONFIG_SRV
				<input type="checkbox"/>	<input type="checkbox"/>		
				<input type="checkbox"/>	<input type="checkbox"/>		

Go back to the service list and confirm saving changes. Do so for each of the transported services.

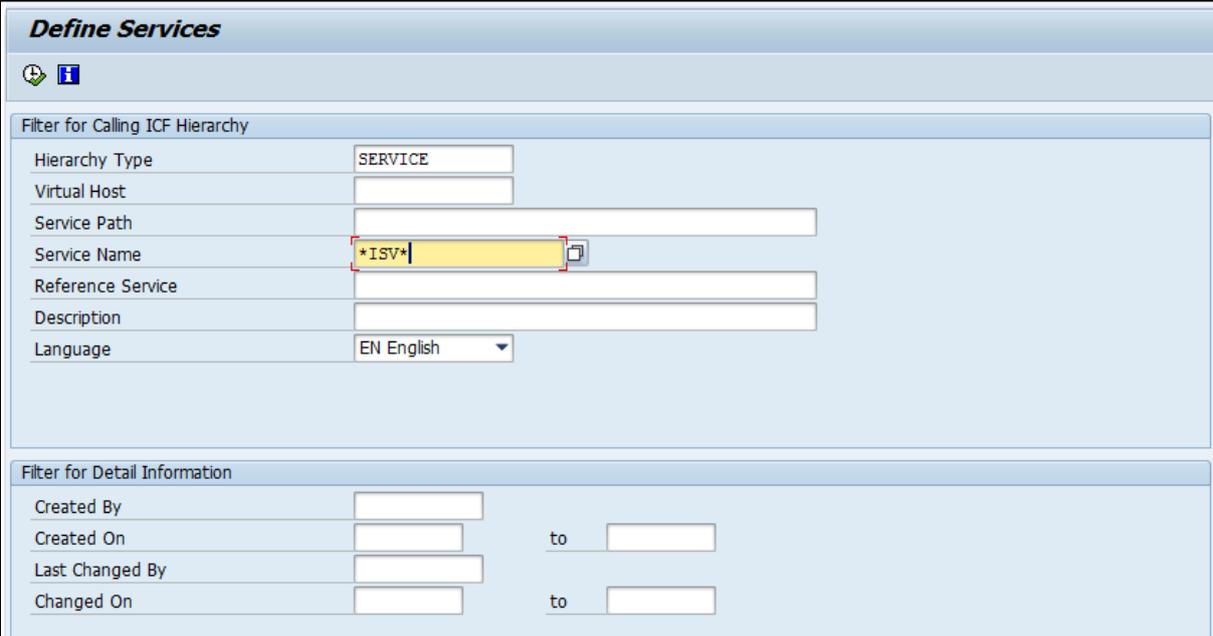
*Installation step 7: Assign a System Alias for each Service by transaction /IWFND/MAINT\_SERVICE. (see detailed description about how)*

### 3.4 Activate SICF nodes

**Precondition:** All basic services that are needed to run a UI5 application have to be activated already. For details, refer to SAP Note 517484 (Inactive Services in the Internet Communication Framework).

By default, imported web applications are disabled. To enable the application, you have to activate the corresponding Internet Communication Framework (ICF) nodes.

The ICF nodes can be activated using the transaction **SICF** (Figure 16):



**Define Services**

Filter for Calling ICF Hierarchy

Hierarchy Type: SERVICE

Virtual Host: [ ]

Service Path: [ ]

Service Name: \*ISV\*

Reference Service: [ ]

Description: [ ]

Language: EN English

Filter for Detail Information

Created By: [ ]

Created On: [ ] to [ ]

Last Changed By: [ ]

Changed On: [ ] to [ ]

Figure 16: Transaction SICF

Please choose the hierarchy type SERVICE, set the filter ISV\* for the Service Name and press the EXECUTE-Button  to maintain the services.

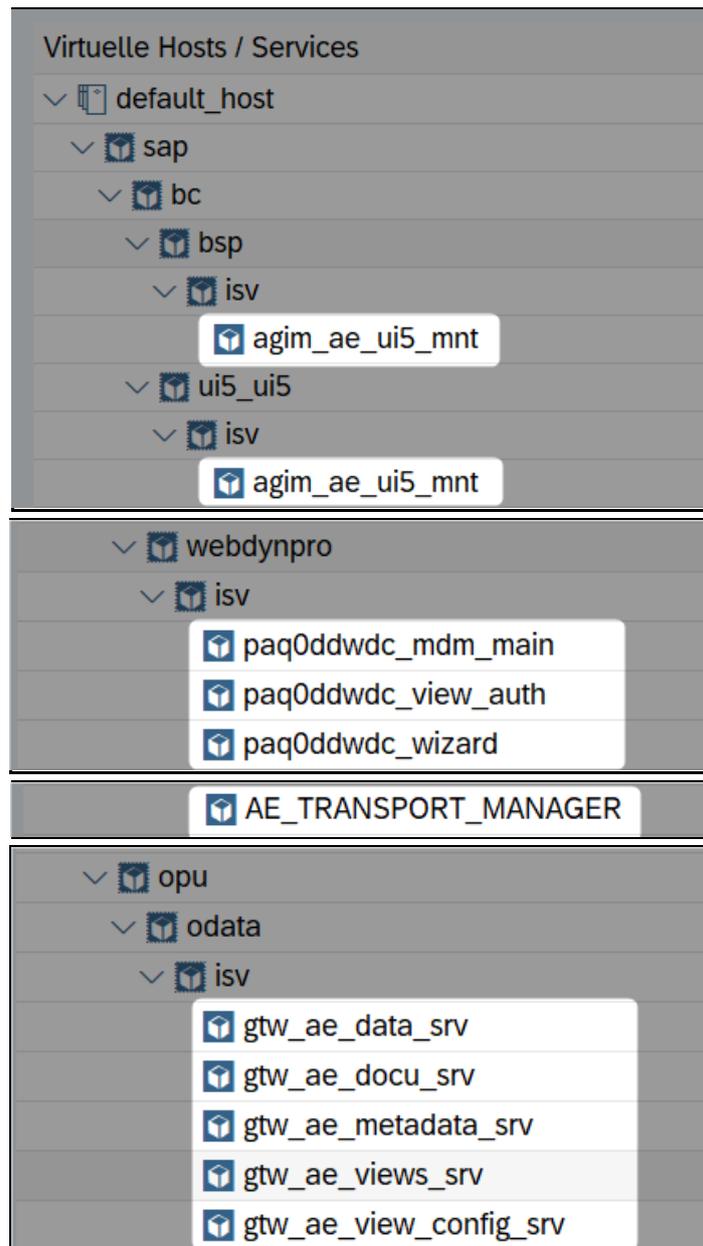


Figure 17: ICF service tree

The tree will automatically expanded along multiple paths:

- default\_host -> sap -> bc -> bsp -> ...* is for the frontend interface application
- default\_host -> sap -> bc -> ui5\_ui5 -> ...* is also for the frontend interface application
- default\_host -> sap -> bc -> webdynpro-> ...* is for the web services
- default\_host -> sap -> opu -> odata -> ...* is for the backend services

Right mouse-click on an ICF node opens a context menu, which allows activating / deactivating a service.

Please activate all services listed in Figure 17.

*Installation step 8: Start transaction SICF and activate all SICF nodes for ISV Services below the following paths:*

*default\_host/sap/bc/bsp/isv*

*default\_host/sap/bc/ui5\_ui5/isv*

*default\_host/sap/bc/webdynpro*

*default\_host/sap/opu/odata/isv*

## 3.5 Customize number ranges

### 3.5.1 AGIMENDO.edit Views (/ISV/VIEWS)

AGIMENDO.edit uses “views” to administrate the application’s settings for a characteristic. The automatic numbering during the creation process of a view is based on a number range object.

The object itself will be delivered with the transport request but it has to be customized as described below.

Start the transaction “SNRO” and select the number range object “/ISV/VIEWS” (Figure 18):

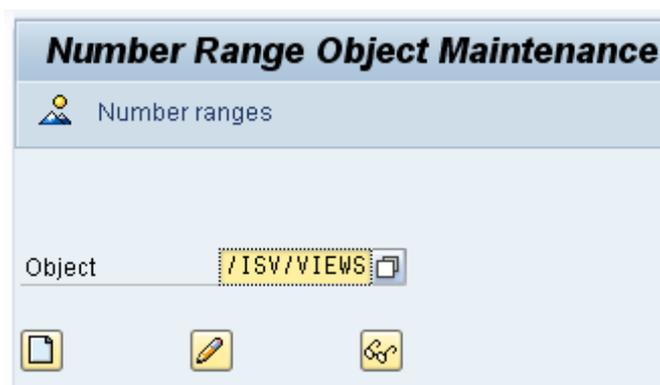


Figure 18: Number Range Objects

Create a new interval range as shown below (the current number will be 0):

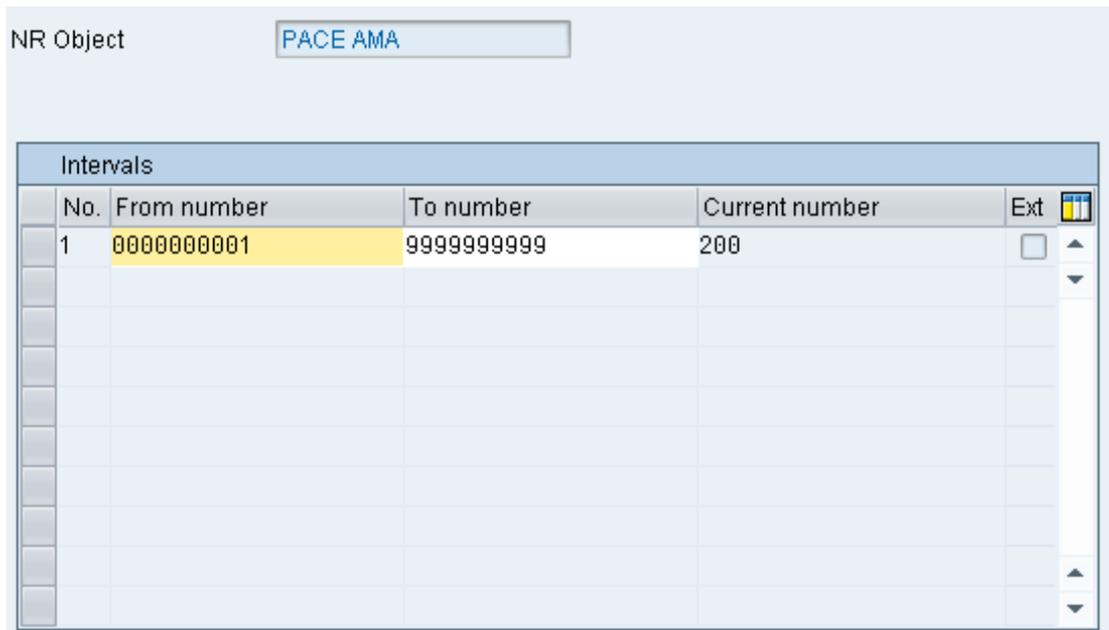


Figure 19: Interval Setting for /ISV/VIEWS

**Note:** It is important to set the interval number to “1”. Do not use “01” or any similar numbering.

**Note:** To prevent the generation of identical numbers in different systems please create different number ranges for each system in your system landscape. For example create a number range in your development system starting at 0000000001 to 1000000000 and a number interval starting at 1000000001 to 2000000000 in your production system. (Please keep in mind that both intervals had to have the same number range number (‘1’).

### 3.5.2 AGIMENDO.edit Transport Items (/ISV/AETID)

There is a second number range object (/ISV/AETID) that is delivered by the transport request to generate the numbers for the transport items. Please create also for this number range object a number range interval as described in chapter 4.5.1.

**Note:** It is important to set the interval number to “01”. Do not use “1” or any similar numbering. This numbering differs from the setting for /ISV/VIEWS in chapter 4.5.1.

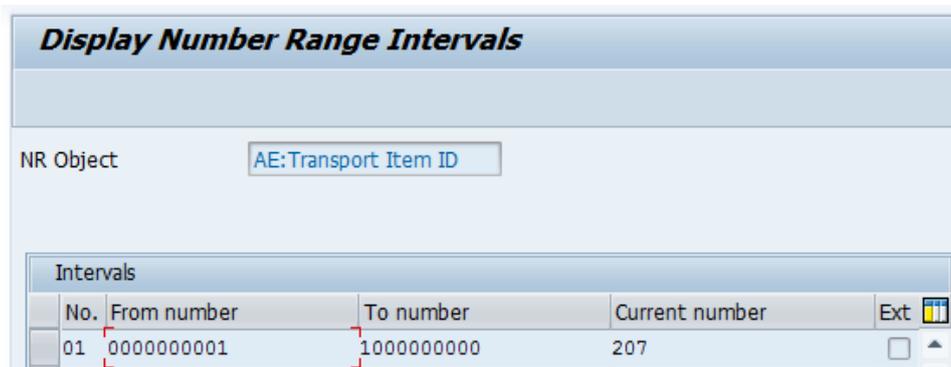
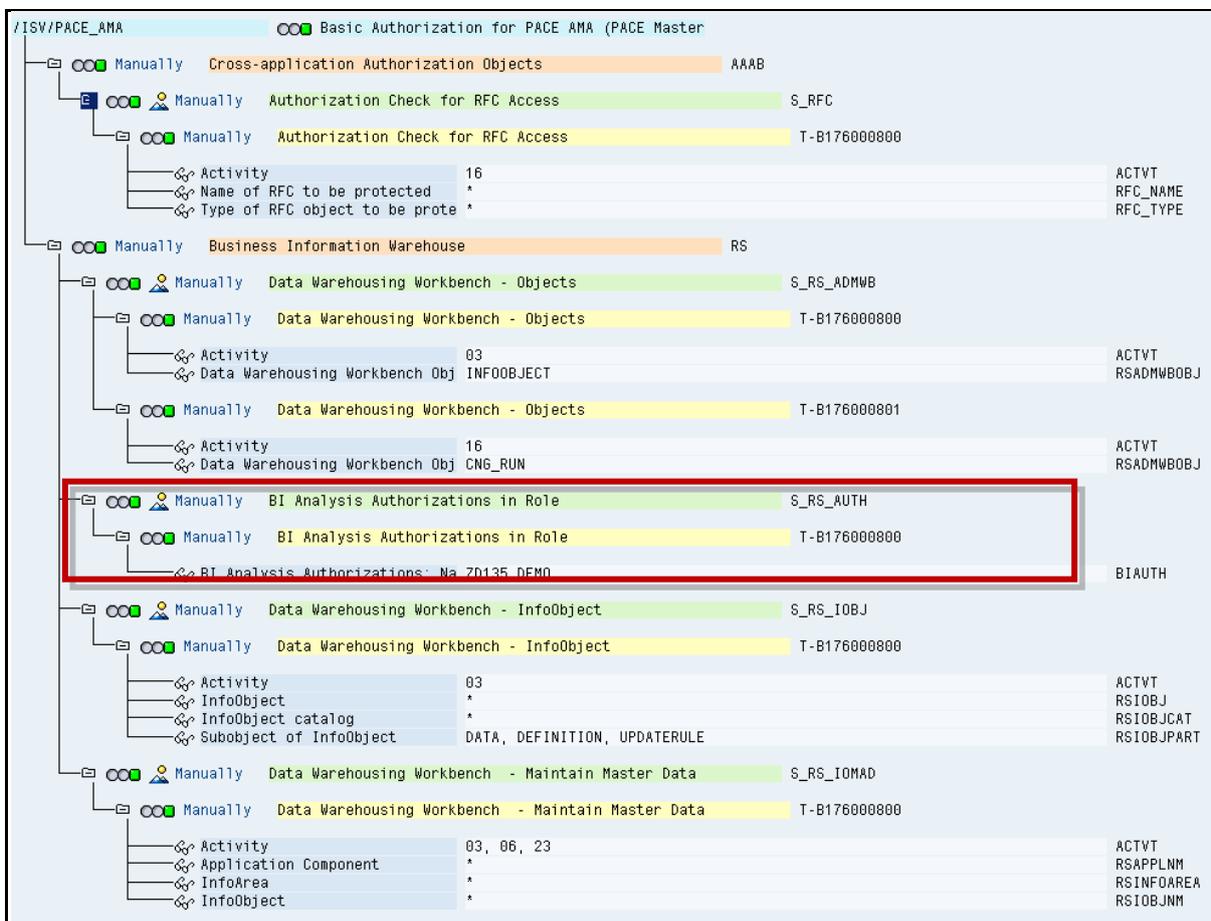


Figure 20: Interval Setting for /ISV/AETID

**Note:** To prevent the generation of identical numbers in different systems please create different number ranges for each system in your system landscape. For example create a number range in your development system starting at 0000000001 to 1000000000 and a number interval starting at 1000000001 to 2000000000 in your production system. (Please keep in mind that both intervals had to have the same number range number ('01').

### 3.6 Define appropriate roles (PFCG)

To be able to execute all available functions AGIMENDO.edit you have to ensure that the user has sufficient authorizations in the system. Please find below a screenshot of a sample role that contains all necessary authorization objects and their customization (Figure 21):



Authorization Object	Role	Activity	InfoObject	InfoArea	InfoObject	Subobject of InfoObject	Application Component	InfoArea	InfoObject
Cross-application Authorization Objects	AAAB								
Authorization Check for RFC Access	S_RFC								
Authorization Check for RFC Access	T-B176000800	16	*	*	*				
Activity		ACTVT							
Name of RFC to be protected									RFC_NAME
Type of RFC object to be prote									RFC_TYPE
Business Information Warehouse	RS								
Data Warehousing Workbench - Objects	S_RS_ADMWB								
Data Warehousing Workbench - Objects	T-B176000800	03							
Activity		ACTVT							
Data Warehousing Workbench Obj									RSADMWBOBJ
Data Warehousing Workbench - Objects	T-B176000801	16							
Activity		ACTVT							
Data Warehousing Workbench Obj									RSADMWBOBJ
BI Analysis Authorizations in Role	S_RS_AUTH								
BI Analysis Authorizations in Role	T-B176000800								
BI Analysis Authorizations: Na									BIAUTH
Data Warehousing Workbench - InfoObject	S_RS_IOBJ								
Data Warehousing Workbench - InfoObject	T-B176000800	03	*	*	*				
Activity		ACTVT							
InfoObject									RSIOBJ
InfoObject catalog									RSIOBJCAT
Subobject of InfoObject									RSIOBJPART
Data Warehousing Workbench - Maintain Master Data	S_RS_IOMAD								
Data Warehousing Workbench - Maintain Master Data	T-B176000800	03, 06, 23	*	*	*				
Activity		ACTVT							
Application Component									RSAPPLNM
InfoArea									RSINFOAREA
InfoObject									RSIOBJNM

Figure 21: Needed Authorization Objects to run AGIMENDO.edit

The authorization object S\_RS\_AUTH is optional. You need this object in case you want to use BI Analysis Authorizations. The property BIAUTH must contain the name of the appropriate BI Analysis role.

You will need to add the following authorization object to S\_SERVICE.

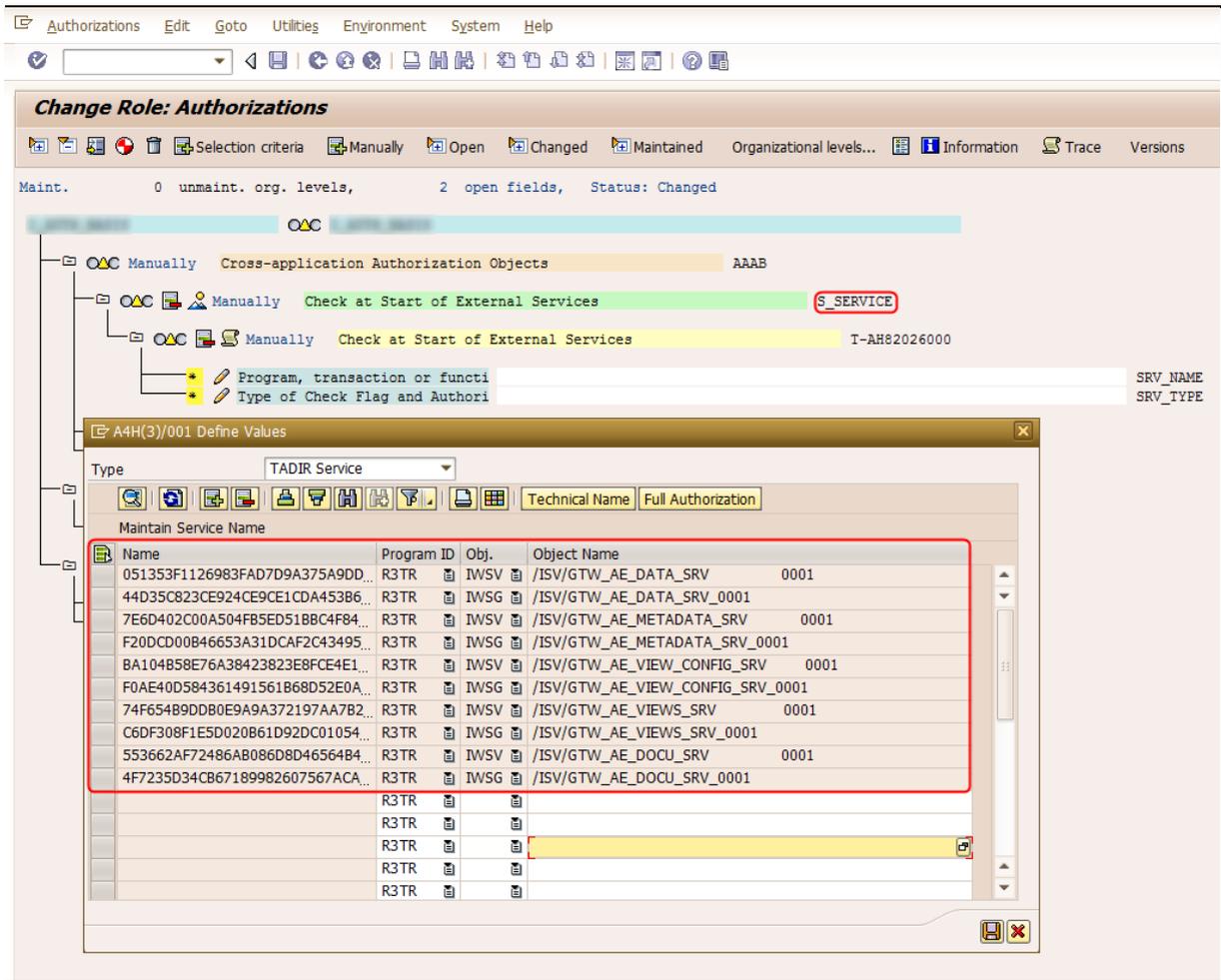


Figure 22: Authorization objects for the UI5 module

Here is a copy if you want to simply do a copy/paste:

R3TR	IWSV	/ISV/GTW_AE_DATA_SRV
R3TR	IWSG	/ISV/GTW_AE_DATA_SRV_0001
R3TR	IWSV	/ISV/GTW_AE_METADATA_SRV
R3TR	IWSG	/ISV/GTW_AE_METADATA_SRV_0001
R3TR	IWSV	/ISV/GTW_AE_VIEW_CONFIG_SRV
R3TR	IWSG	/ISV/GTW_AE_VIEW_CONFIG_SRV_0001
R3TR	IWSV	/ISV/GTW_AE_VIEWS_SRV
R3TR	IWSG	/ISV/GTW_AE_VIEWS_SRV_0001
R3TR	IWSV	/ISV/GTW_AE_DOCU_SRV
R3TR	IWSG	/ISV/GTW_AE_DOCU_SRV_0001

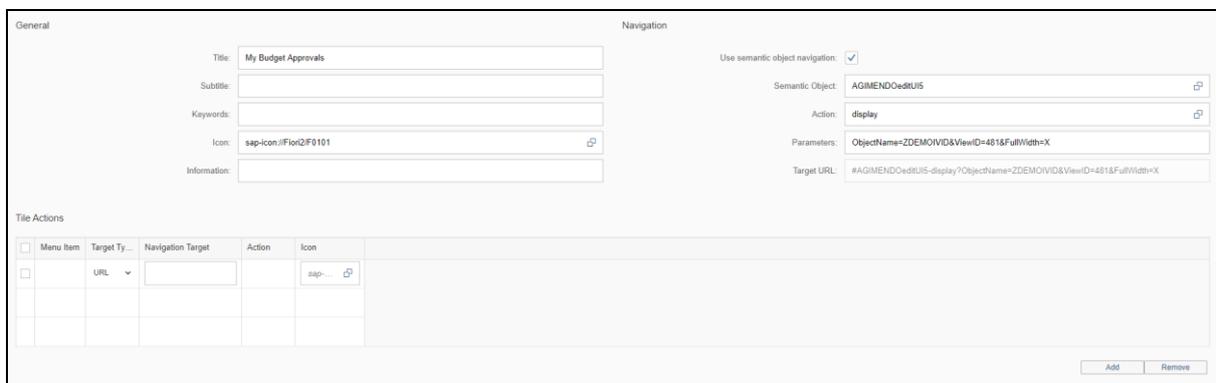
To be able to add these configurations, in some circumstances you must call each service once before the hash value is generated. The easiest way to avoid incremental calling (call the first service, get auth

error, maintain the first auth, calling second service and so on) is to start the application with a user with a \* in SRV\_NAME.

*Installation step 9: Create a role to use AGIMENDO edit or ensure the requested authorization objects are included in existing roles of your system.*

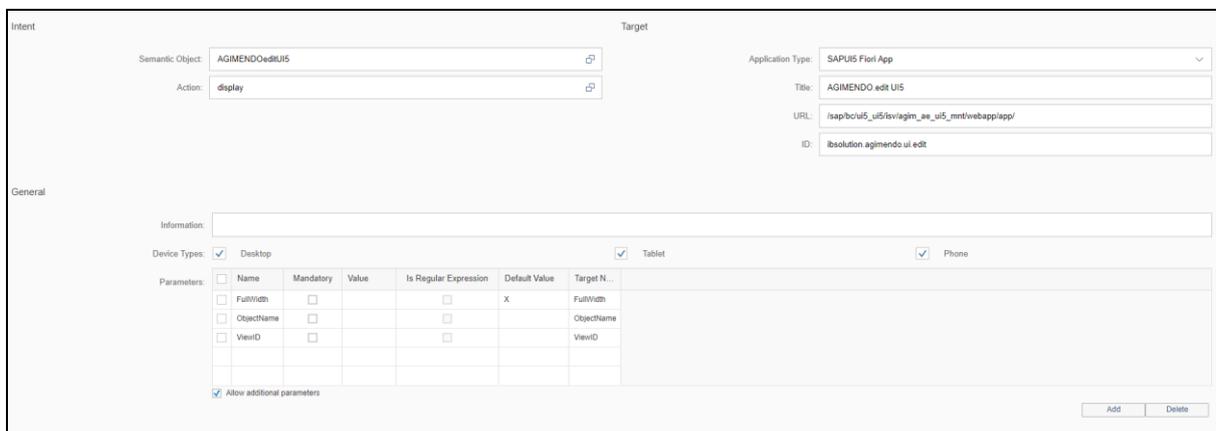
*Installation step 10: If needed deploy AGIMENDO.edit as a cloud application and connect to Backend as described.*

## 4. Setup in a Fiori Launchpad environment



Menu Item	Target Ty...	Navigation Target	Action	Icon
<input type="checkbox"/>	URL			sap-...

Figure 23: Example Configuration of Tile



Name	Mandatory	Value	Is Regular Expression	Default Value	Target N...
FullWidth	<input type="checkbox"/>		<input type="checkbox"/>	X	FullWidth
ObjectName	<input type="checkbox"/>		<input type="checkbox"/>		ObjectName
ViewID	<input type="checkbox"/>		<input type="checkbox"/>		ViewID

Figure 24: Configuration of Target Mapping

## 5. Setup your AGIMENDO.edit application in the SAP Cloud Platform

To perform a cloud deployment, you will need a

- SAP Cloud Platform account
- Enabled backend connection to your SAP BW System (destination, cloud connector)

Please follow these steps:

1. Open: <https://account.hana.ondemand.com> and Login with your credentials

2. Select your Account
3. Select HTML5 Applications
4. New Application

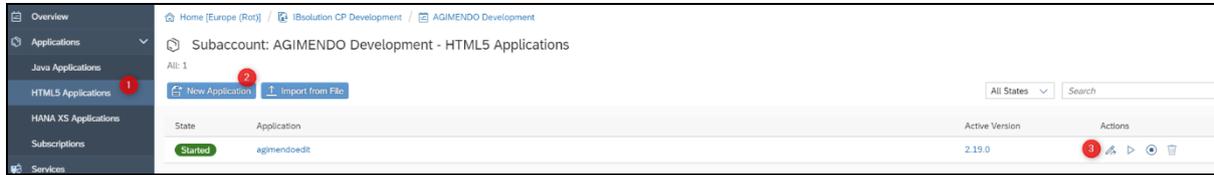


Figure 25: SAP Cloud Platform: create new application and edit

5. Edit application online using SAP WEB IDE
6. Clone repository with the given URL
7. Import provided ZIP file
  - a. Right click on project à Import à File or Project
  - b. Choose ZIP file and upload
8. Deploy application
  - a. Right click on project à Deploy à Deploy to SAP Cloud Platform
  - b. „Update an existing application“
  - c. Choose correct Application Name

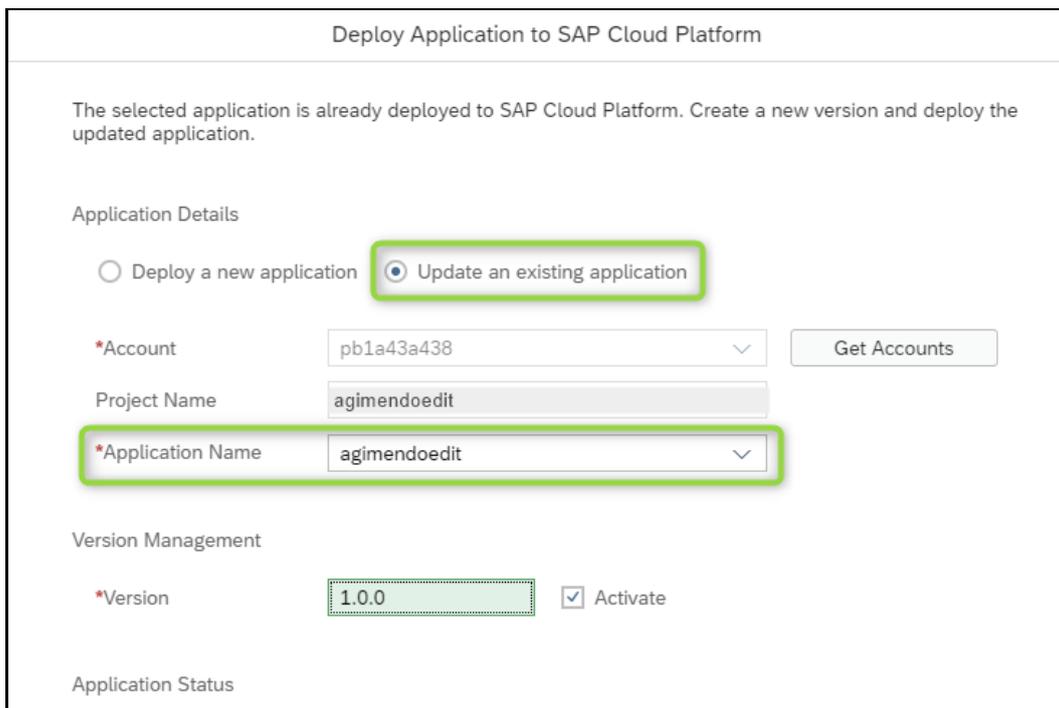


Figure 26: SAP Cloud Platform: Define application name - new or replace for update

9. Add Destination to access SAP backend (SAP BW with installed AGIMENDO.edit UI5)

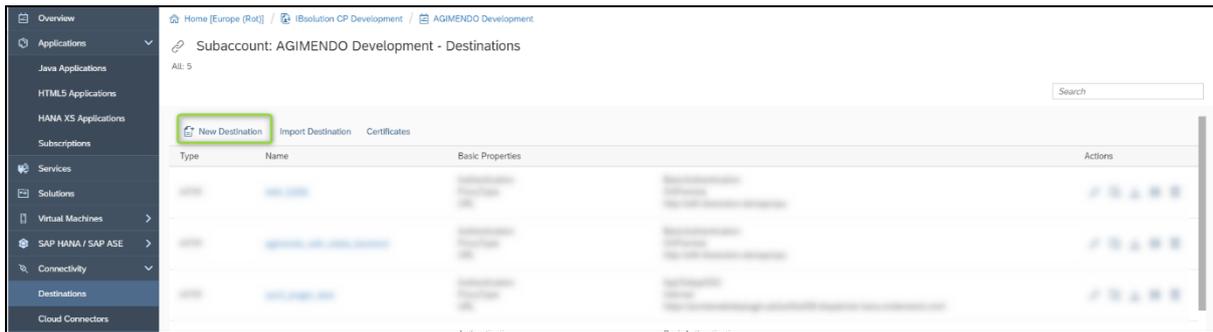


Figure 27: Add and select destination to backend (SAP BW)

10. Go back to application
  - a. Overview – Required Destinations
  - b. Edit required destination
  - c. Select just created destination as „Mapped Subaccount Destination“
  - d. Save

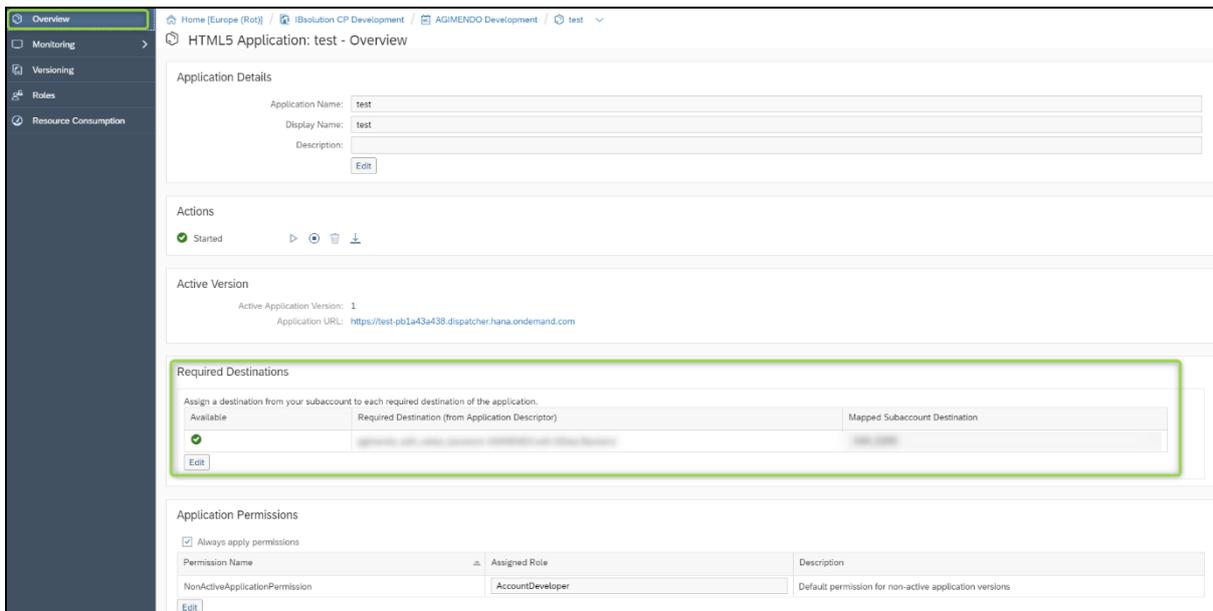


Figure 28: SAP Cloud Platform: Assign destination

11. Click on „Versioning“ (left sidebar)
  - a. Switch from „Commits“ to „Versions“
  - b. Repeat steps from No.9 for current active version

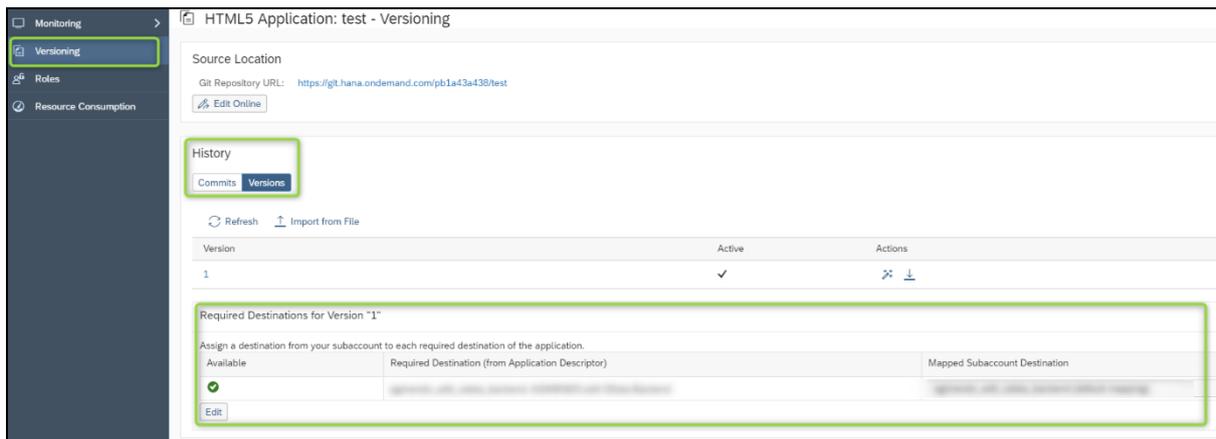


Figure 29: SAP Cloud Platform: Switch version

*Hinweis: Für das Target-Mapping im SAP Fiori Launchpad wird der Namespace **ibsolution.agimendo.ui.edit** sowie der Resource-Root **/sap/bc/ui5\_ui5/iv/agim\_ae\_ui5\_mnt/webapp/app/** benötigt.*

## 6. Installation Steps

- Installation step 1: Check, if SAP Gateway is activated by transaction SPRO >> SAP Customizing Implementation Guide >> SAP NetWeaver >> SAP Gateway >> OData Channe >> Configuration >> Activate or Deactivate SAP Gateway. If not already activated, please activate SAP Gateway. .... 5
- Installation step 2: Check if system alias LOCAL does exist or create if not. Go to transaction SPRO >> SAP Customizing Implementation Guide >> SAP NetWeaver >> SAP Gateway >> OData Channe >> Configuration >> Connection Settings >> SAP Gateway to SAP System >> Manage SAP System Aliases. Maintain a LOCAL system alias if not already there..... 6
- Installation step 3: Open transaction se03 > Transport Organizer Tools > Administration and create and configure namespace /ISV/ and enter repair license 00779797301552259874..... 8
- Installation step 4: Open transaction se03 > Transport Organizer Tools > Administration and create and configure namespace /B135/ and enter repair license 01305494363550150869. .... 8
- Installation step 5: Open se16/se30 for table rspace and create an entry to link /ISV/ and /B135/ or ensure the entry is already there. The entry needs to have the following values NAMESPACE: /ISV/ NSPACEGEN: /B135/ BWAPPL: BW ACTIVE: X..... 9
- Installation step 6: Import transport requests for AGIMENDO.common, AGIMENDO.edit and AGIMENDO.edit UI5. 10
- Installation step 7: Assign a System Alias for each Service by transaction /IWFND/MAINT\_SERVICE. (see detailed description about how) ..... 13
- Installation step 8: Start transaction SICF and activate all SICF nodes for ISV Services below the following paths: default\_host/sap/bc/bsp/isv default\_host/sap/bc/ui5\_ui5/isv default\_host/sap/bc/webdynpro default\_host/sap/opu/odata/isv..... 15
- Installation step 9: Create a role to use AGIMENDO edit or ensure the requested authorization objects are included in existing roles of your system. .... 19
- Installation step 10: If needed deploy AGIMENDO.edit as a cloud application and connect to Backend as described. 19



## 7. Appendix

### 7.1 Document History

Version	Author	Short description of changes	Datum
1.0	Rouzbeh Nabatian	Creation of document	2009-06-24
1.1	Rouzbeh Nabatian	Review	2009-07-10
1.2	Felix Weyde	Branding	2010-10-14
1.3	Felix Weyde	Create missing entry within RSPACE	2012-03-23
1.4	Artjom Smirnov	Review, format update	2012-12-13
1.5	Felix Weyde	Additional Import Options of Transport Requests	2013-07-22
1.6	Felix Weyde	According to product version 2.12	2014-01-27
1.6.1	Felix Weyde	Wrong number range number (chapter 4.4.2)	2014-04-15
1.6.2	Felix Weyde	Upgrade-Report for Version 2.12.3	2014-07-11
1.6.3	Felix Weyde	Hint for transporting table entries (chapter 4.5)	2015-06-08
1.7.0	Felix Weyde	Added UI5 Components	2018-05-24
1.7.1	Felix Weyde	Added Roles and UI5 Auth Objects	2018-12-05
2.0.0	Felix Weyde	Added UI 5 install guide, step by step guide	2018-05-02
2.0.1	Felix Weyde	Added Cloud deployment	25.07.2019

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