

Upgrade Guide for mInventory 2504

Connected Worker Solutions



Title and Copyright

Copyright and **Terms of Use** for Upgrade Guide for mInventory, a Mobile Inventory Management Solution of *Connected Workforce Platform*TM.

Upgrade Guide for mInventory, a Mobile Inventory Management Solution of *Connected Workforce Platform*TM.

Product Version: 2504

Release Date: 01 April 2025

Published Date: 05 April 2025

Document Version: 1.0

Copyright © 2025, Innovapptive Inc. and/or its affiliates. All rights reserved.

Primary Author: Innovapptive Inc.

Copyright Notices: Neither our Application nor any content may be copied without inclusion of all copyright notices and/or disclaimers provided therein. Any third party provider logos or marks provided through the Application shall remain owned by such third party provider as may be indicated in a notice contained in the Application or content and you shall not modify or remove any such notice. Neither we nor our suppliers or any third party providers grant any rights or license to any logos, marks, or copyrighted material other than as expressly set forth herein.

Preface

Understand audience, know related documents and products and conventions followed in this document.

Audience

This guide is for technical configurators who Upgrade and do related configurations for mInventory, a Mobile Inventory Management Solution of *Connected Workforce Platform*[™].

Document Conventions

Table 0-1 Conventions followed in the document

Convention	Meaning
boldface	Indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Indicates book titles, emphasis, or placeholder variables for which you supply values.
<code>monospace</code>	Indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

Related Products

- [Work Order Management](#)
- [Inventory and Warehouse Management](#)
- [Operator Rounds](#)
- [Inspections Checklist](#)
- [Fixed Asset Management](#)
- [Field Procurement](#)
- [Analytics and Dashboards](#)

Contact Innovapptive

For information on Innovapptive products, visit the Innovapptive's Support Portal at <http://helpdesk.innovapptive.com>.

The updates to this document are published on this support portal. Check this website periodically for updated documentation.

For additional information about this document, send an email to documentation@innovapptive.com.

Contents

Title and Copyright.....	ii
Preface.....	iii
1. Upgrade mInventory	7
1.1. Upgrade supporting systems	7
1.2. Upgrade mInventory.....	9
2. Back up/Save RACE™ table configurations.....	13
3. Install RACE™ SAP® ECC and Gateway Add-Ons.....	14
3.1. Install RACE™ SAP® ECC and Gateway Add-ons and support packs.....	17
3.1.1. Verify SAP® ECC RACE™ Add-On.....	21
3.1.2. Verify SAP® GW RACE™ Add-On.....	23
3.2. Install RACE™ SAP® ECC and Gateway Support packs.....	23
3.3. Activate RACE™ OData Service.....	28
3.4. Activate UI5 Service.....	30
3.5. Activate FIORI Service.....	32
3.6. Import RACE™ SAP® ECC and Gateway ABAP Transports.....	34
3.6.1. Import Transports.....	35
3.6.2. Verify SAP® ECC RACE™ Transport.....	37
3.6.3. Verify SAP® GW RACE™ Transport.....	40
3.6.4. Activate RACE™ OData Service.....	40
3.6.5. Activate UI5 Service.....	42
3.6.6. Activate FIORI Service.....	44
4. Install mInventory SAP® ECC and Gateway Add-Ons.....	47
4.1. Install mInventory SAP® ECC and Gateway Add-ons and support packs.....	50
4.1.1. Verify SAP® ECC MIM Add-On.....	53
4.1.2. Verify SAP® GW MIM Add-On.....	54
4.2. Install mInventory SAP® ECC and Gateway Support packs.....	56
4.3. Activate mInventory OData Service.....	61

4.4. Import mInventory SAP® ECC and Gateway Transports.....	63
4.4.1. Verify SAP® ECC MIM Transport.....	65
4.4.2. Verify SAP® GW MIM Transport.....	66
4.4.3. Activate mInventory OData Service.....	68
5. Check Schema Change Indicator.....	70
6. SAP Gateway cache clean up.....	72
7. Configure SAP Gateway for mInventory.....	73
7.1. Prerequisites for SAP Gateway Configuration.....	73
7.2. Map source and destination systems for mInventory.....	73
7.3. Configure stock categories for Stock Overview.....	74
7.4. Configure output types for Label Printing.....	75
7.5. SAP Log Table for failed transactions when in Offline mode.....	76
7.6. Enable Ping ID support for iOS.....	78
7.7. Configure SAP HR Master Data.....	78
8. Configure RACE™ for mInventory.....	82
8.1. Features of RACE™.....	83
8.2. How to Configure RACE™ for mInventory	84
9. SAP transactions and tables for mInventory.....	85
10. Deploy MIM UI5 package to SAP Cloud platform (SCP).....	88
11. Implement BADIs.....	90
11.1. Prerequisites for BADI Implementation.....	90
11.2. Activate and Implement BADI.....	91
11.3. Verify BADI Implementation.....	96
11.4. List of BADIs for mInventory.....	98
12. Generate Secondary Indices.....	110
12.1. Create Secondary Index.....	110
13. Download App and Install.....	114

1. Upgrade mInventory

Ensure that the pre-upgrade requirements are met before you upgrade mInventory. See *Pre Install or Pre Upgrade Configurations Guide* for information.

mAssetTag upgrade process involves two stages:

- [Upgrade supporting systems \(on page 7\)](#)
- [Upgrade mInventory \(on page 9\)](#)

1.1. Upgrade supporting systems

Upgrade the following supporting systems as part of the pre-upgrade requirements.

Table 1-1 Prerequisites

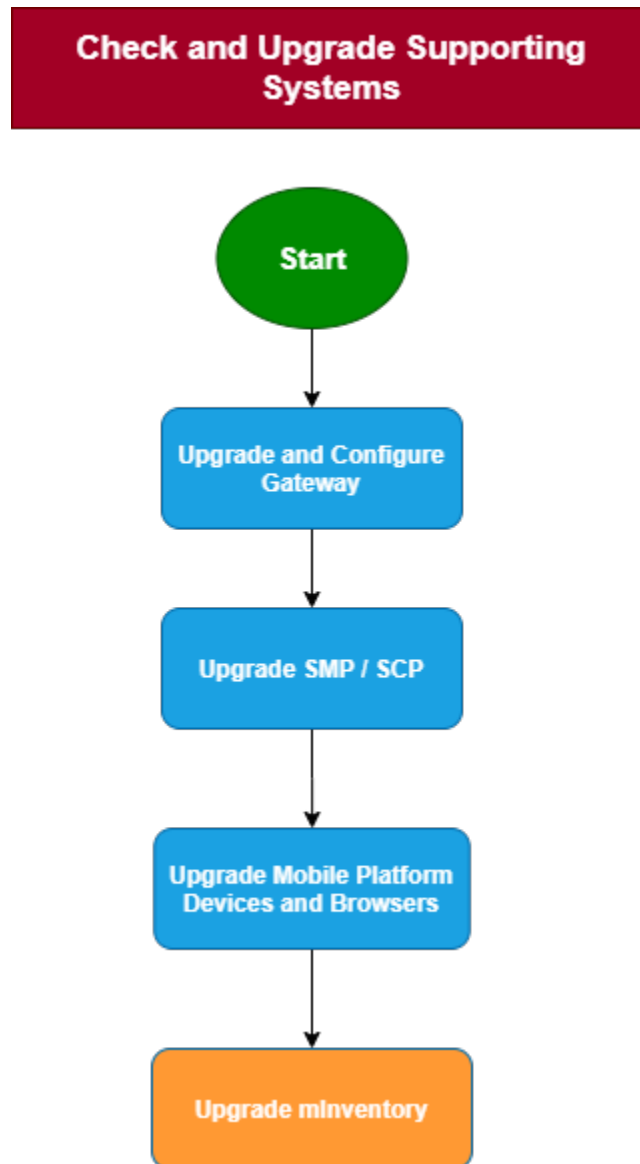
Software	• SMP 3.0 SP11 PL06 and above (SAP Mobile Platform) • Business Technology Platform Mobile service • SAP Cloud Connector latest version • SAP NetWeaver Gateway 7.4 and above with SAP_BASIS component (740 and above), SAP_GWFND 740 component (SP 13 and above), and SAP_UI component (SP 13 and above) • Reverse proxy (SAP Web Dispatcher, Apache, Junos Pulse, NetScaler proxy servers are recommended. Others need to be evaluated.) • RACE 2201 - SAP_UI 740 (SP13 and above) or SAP_UI 750 (SP01 or above) or provide access to online UI5 libraries of version 1.71 • SPAM Version 69 and above (only for Add-Ons.)
------------------------	---

Table 1-1 Prerequisites (continued)

SAP Business Suite	• ECC 6.0 EHP 5 with SAP_BASIS 702 and above (recommended) • Lower versions are compatible (requires evaluation) • SAP S/4HANA Business Suite 1610, 1909, 1709, 1809, and 2020
Compatible Security Authentication Mechanism	• Basic authentication • SSO2 between SMP and NetWeaver Gateway • Active Directory SSO • SAML 2.0 Authentication
Access	• SAP Basis System Admin with access to 000 clients in Gateway and ECC systems. • Access to SAP File directory usr/sap/trans/EPS/in to upload PAT files.
Assumptions	Access to the RACE™ portal can be completed after the RACE™ admin user credentials setup is completed.

Upgrade the supporting systems in the order defined in the flow.

Figure 1-1 Validate Systems



1.2. Upgrade mInventory

Once you complete the pre-upgrade requirements, begin mInventory upgrade. The following flow gives you an overview of the steps involved in upgrading mInventory.

Figure 1-2 Configurations to upgrade MIM

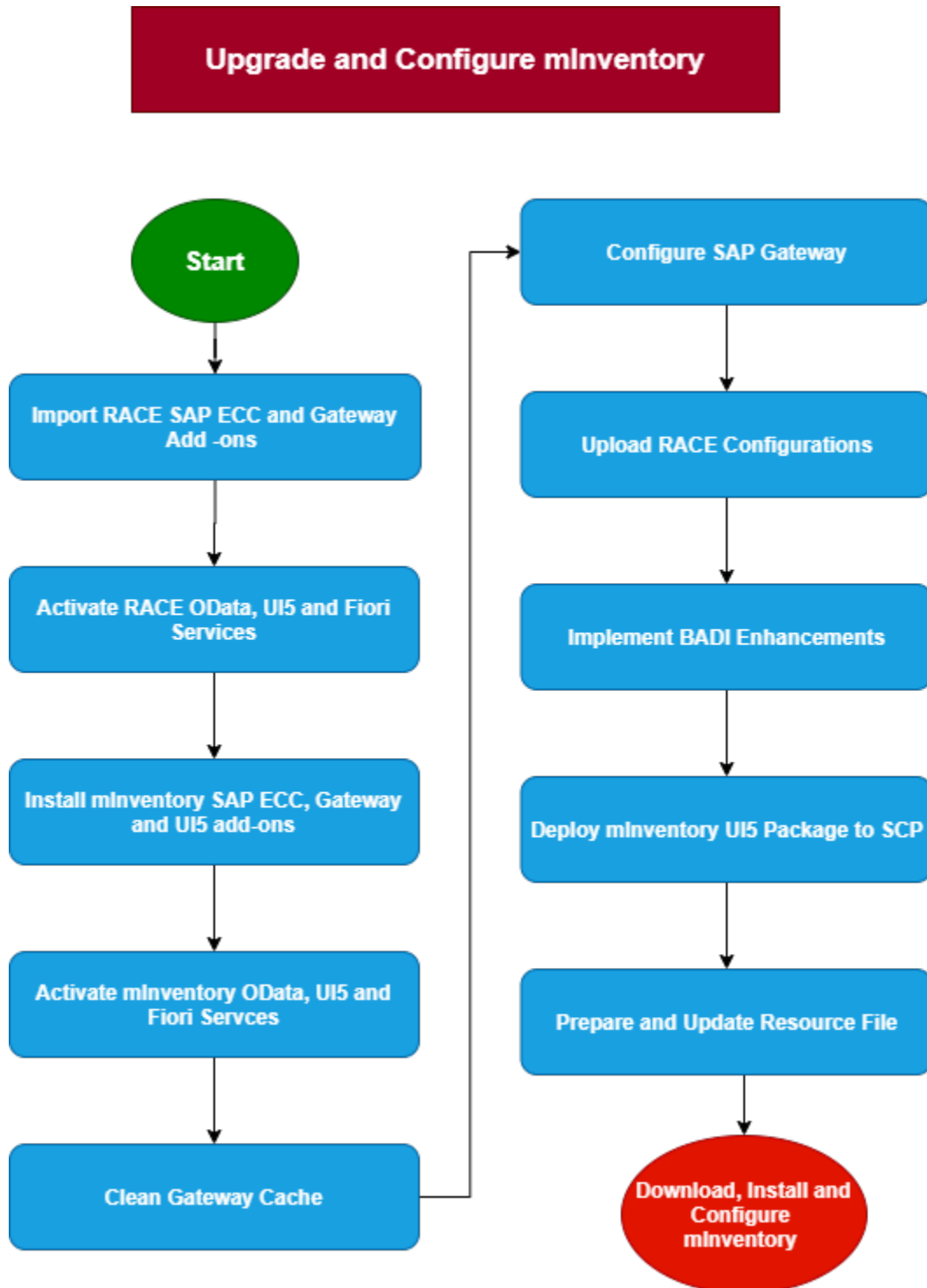


Table 1-2 References

Task	Reference to section
Install RACE™ SAP ECC and Gateway Add-ons or Support Packs / Import Transports	• Install RACE™ SAP® ECC and Gateway Add-Ons (on page 14) • Import RACE™ SAP® ECC and Gateway ABAP Transports (on page 34)
Activate RACE™ oData, UI5, and Fiori Services	Activate RACE™ OData Service (on page 28)
	Activate UI5 Service (on page 30)
	Activate FIORI Service (on page 32)
Install mInventory SAP ECC, Gateway and UI5 Add-ons/ Import Transports	• Install mInventory SAP® ECC and Gateway Add-Ons (on page 47) • Import mInventory SAP® ECC and Gateway Transports (on page 63)
Activate mInventory oData, Gateway UI5 and Fiori Services	Activate mInventory OData Service (on page 61)
	Activate Gateway UI5 Service (on page)
	Activate Gateway FIORI Service (on page)
Check Schema Indicator	Check Schema Change Indicator (on page 70)
Clean Gateway Cache	SAP Gateway cache clean up (on page 72)
Configure SAP Gateway for mInventory	Configure SAP Gateway for mInventory (on page 73)
Upload / Update the Configurations in Excel format to RACE™ Application	See How to Configure RACE™ for mInventory (on page 84)
Deploy mInventory UI5 package to SCP	Deploy MIM UI5 package to SAP Cloud platform (SCP) (on page 88)
Implement BADI enhancements	Implement BADIs (on page 90)

Table 1-2 References (continued)

Task	Reference to section
Prepare & Update Resource File	Update Resource File (<i>on page</i>)
Download and Install App	Download App and Install (<i>on page 114</i>)

2. Back up/Save RACE™ table configurations

Upgrade process can impact data in the following SAP database tables. Download and back up the RACE™ table configurations using the **/INVCEC/RACE_UPLOAD_DOWNLOAD** program before importing the updates.

Repeat the download process for each table and store:

- /INVCEC/APPCONFI—Application and Module Configuration
- /INVCEC/COCKPIT—Application Configuration Cockpit
- /INVCEC/FMCONFIG—Function Module Configuration
- /INVCEC/LOCALIZT—Localization Table Text
- /INVCEC/SCOPING—Global App Scoping
- /INVCEC/SEARCH—Dynamic Search Fields
- /INVCEC/TEXTS—Maintain Texts
- /INVCEC/UILABELT—UI label text table

3. Install RACE™ SAP® ECC and Gateway Add-Ons

Add-On: All the transports of previous releases and the transports of the current release are packaged into a single add-on for the main release. For example, 2003, 2006 and so on. Install the add-on for the current release that is provided by Innovapptive representative.

Transport: Only the changes for that HotFix are packaged into a transport. You MUST install all the transports till date and must install them in the order they are mentioned. Even a single misplaced installation of transport could result in installation errors.



Note:

Ask your Innovapptive contact for the latest add-ons and support-packs and these components will be provided in a compressed file format, such as .zip, .rar, and sent to you either through email or through FTP.

Table 3-1 RACE™ ECC Add-On and Support Packages

Type	Add-On	Description	Dependency
Add-On	EZY0021310268_-0000004.PAT	INNOV:RACE™:2208 SP02 ECC Objects	None
SP01	EZY0021310268_-0000006.PAT	Innov RACE 2208 SP02 HF01 ECC Objects	Dependency
SP21	EZY0021310268_-0000053.PAT	Innov RACE 2208 SP02 HF03-HF25 ECC Objects	Dependency
SP31	EZY0021310268_-0000078.PAT	Innov RACE 2208 SP02 HF26-HF35 ECC Objects	Dependency
SP42	EZY0021310268_-0000104.PAT	Innov RACE 2208 SP02 HF36-HF46 ECC Objects	Dependency
SP43	EZY0021310268_-0000118.PAT	Innov RACE 2208 SP02 HF47.1 ECC Objects	Dependency

**Table 3-1 RACE™ ECC Add-On and Support Packages (continued)**

Type	Add-On	Description	Dependency
SP44	EZY0021310268_-0000119.PAT	Innov RACE 2208 SP02 HF48 ECC Objects	Dependency
SP45	EZY0021310268_-0000121.PAT	Innov RACE 2208 SP02 HF49 ECC Objects	Dependency
SP46	EZY0021310268_-0000126.PAT	Innov RACE 2208 SP02 HF50 ECC Objects	Dependency
SP47	EZY0021310268_-0000131.PAT	Innov RACE 2501.1 ECC Objects	Dependency
SP48	EZY0021310268_-0000140.PAT	Innov RACE 2502.1 ECC Objects	Dependency
SP49	EZY0021310268_-0000144.PAT	Innov RACE 2502.3 ECC Objects	Dependency
SP50	EZY0021310268_-0000151.PAT	Innov RACE 2503.3 ECC Objects	Dependency
SP51	EZY0021310268_-0000153.PAT	Innov RACE 2504.01 ECC Objects	Dependency

Table 3-2 RACE™ Gateway Add-On and Support Packages

Type	Add-On	Description	Dependency
Add-On	NZY0021310268_-0000006.PAT	INNOV:RACE™:2208 SP02 Gateway Objects	None
SP01	NZY0021310268_-0000008.PAT	Innov RACE 2208 SP01 UI5 Application	Install RACE™ Add-On NZY0021310268_-0000006.PAT before importing SP01

**Table 3-2 RACE™ Gateway Add-On and Support Packages (continued)**

Type	Add-On	Description	Dependency
SP39	NZY0021310268_- 0000113.PAT	RACE 2208 SP02 GW Addon (HF03 - HF25)	Install RACE™ Add-On NZY0021310268_- 0000008.PAT before importing SP01
SP58	NZY0021310268_- 0000148.PAT	RACE 2208 SP02 GW Addon (HF26 - HF35.1)	Dependency
SP59	NZY0021310268_- 0000149.PAT	RACE 2208 SP02 UI5 (HF26 - HF35)	Dependency
SP60	NZY0021310268_- 0000150.PAT	RACE 2208 SP02 Fiori (HF26 - HF35)	Dependency
SP61	NZY0021310268_- 0000152.PAT	RACE 2208 SP02 HF36 GW Objects	Dependency
SP62	NZY0021310268_- 0000154.PAT	RACE 2208 SP02 UI5 (HF03 - HF35)	Dependency
SP63	NZY0021310268_- 0000155.PAT	RACE 2208 SP02 Fiori (HF00 - HF35)	Dependency
SP74	NZY0021310268_- 0000179.PAT	RACE 2208 SP02 GW Addon (HF36 - HF46)	Dependency
SP75	NZY0021310268_- 0000182.PAT	RACE 2208 SP02 Fiori (HF36 - HF46)	Dependency
SP76	NZY0021310268_- 0000183.PAT	RACE 2208 SP02 HF47 GW Objects	Dependency
SP77	NZY0021310268_- 0000184.PAT	RACE 2208 SP02 HF48 GW Objects	Dependency
SP78	NZY0021310268_- 0000186.PAT	RACE 2208 SP02 HF49 GW Objects	Dependency

**Table 3–2 RACE™ Gateway Add-On and Support Packages (continued)**

Type	Add-On	Description	Dependency
SP79	NZY0021310268_ - 0000191.PAT	RACE 2208 SP02 HF50 GW Objects	Dependency
SP80	NZY0021310268_ - 0000194.PAT	RACE 2208 SP02 2501.1 GW Objects	Dependency
SP81	NZY0021310268_ - 0000195.PAT	RACE 2208 SP02 2501.1 Fiori Objects	Dependency
SP82	NZY0021310268_ - 0000197.PAT	RACE 2208 SP02 2501.2 Fiori Objects	Dependency
SP83	NZY0021310268_ - 0000200.PAT	RACE 2208 SP02 2501.3 GW Objects	Dependency
SP84	NZY0021310268_ - 0000202.PAT	RACE 2208 SP02 2501.4 GW Objects	Dependency
SP85	NZY0021310268_ - 0000215.PAT	Innov RACE 2208 SP02 2503.3 GW Objects	Dependency
SP86	NZY0021310268_ - 0000218.PAT	Innov RACE 2208 SP02 2504.01 GW Objects	Dependency

3.1. Install RACE™ SAP® ECC and Gateway Add-ons and support packs

Install the add-ons and support packs at one go using the steps given below. However, if you have already installed add-ons and you want to install the support packs (hotfixes), follow the procedure detailed in [Install RACE™ SAP® ECC and Gateway Support packs \(on page 23\)](#).

To install RACE™ SAP® ECC and Gateway add-ons:

1. Extract the zip or .rar files that you received from Innovapptive representative and save them to your local machine.
2. Upload/copy the Add-On files and Support Packs from software deployment package to the **USR/SAP/TRANS/EPS/in** path on SAP ECC & GW systems.

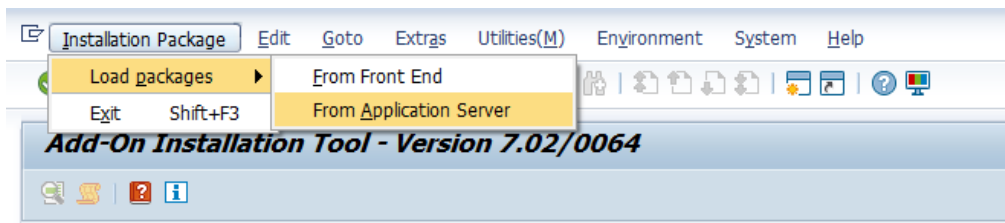


Note:

Upload all the add-ons and support packs that are mentioned in the tables.

3. Log in to **000** clients of SAP GW / ECC System (based on the Add-On being imported).
4. Navigate to the transaction code **SAINT**.
5. Navigate to **Installation Package, Load Packages, From Application Server**.

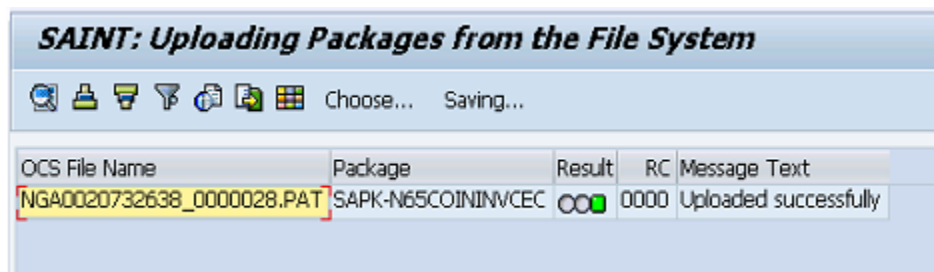
Figure 3-1 SAINT



6. Click **Yes** in the confirmation screen.

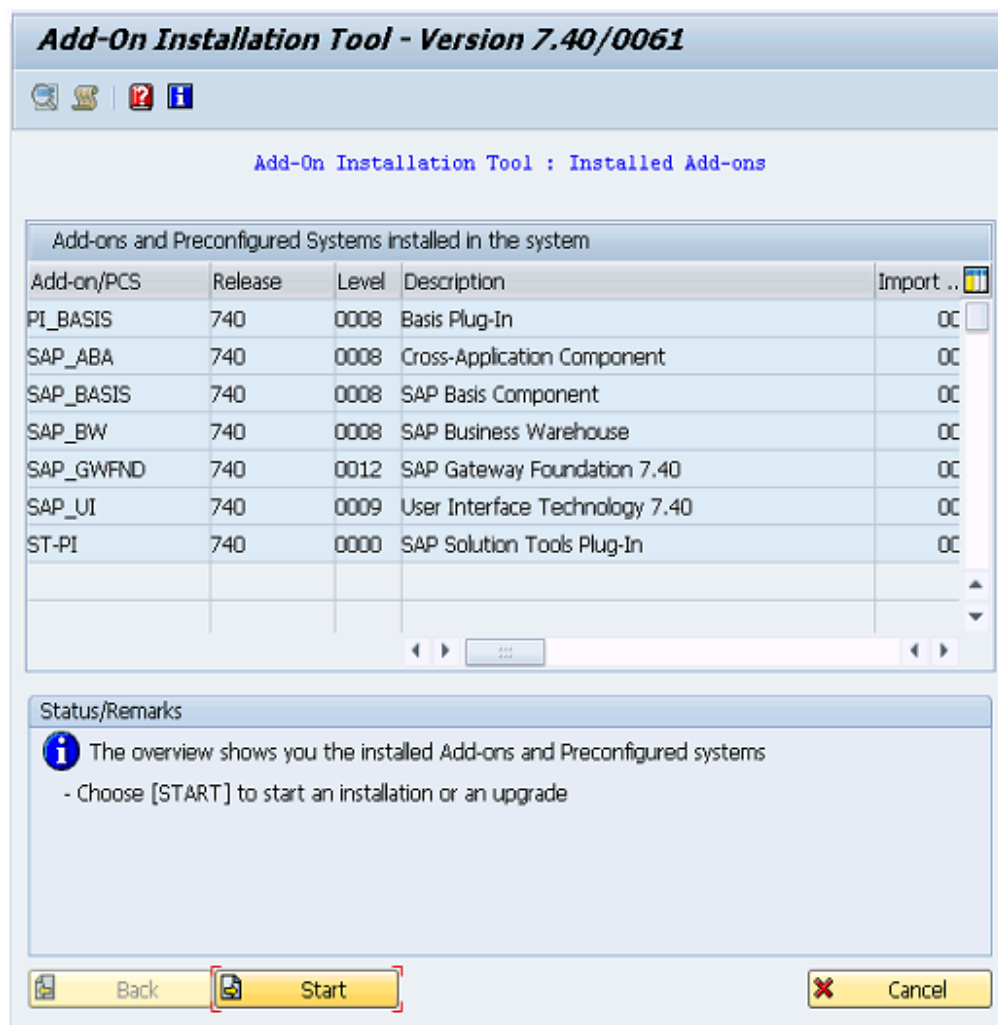
Packages are loaded in the file system

Figure 3-2 SAINT: Upload Packages



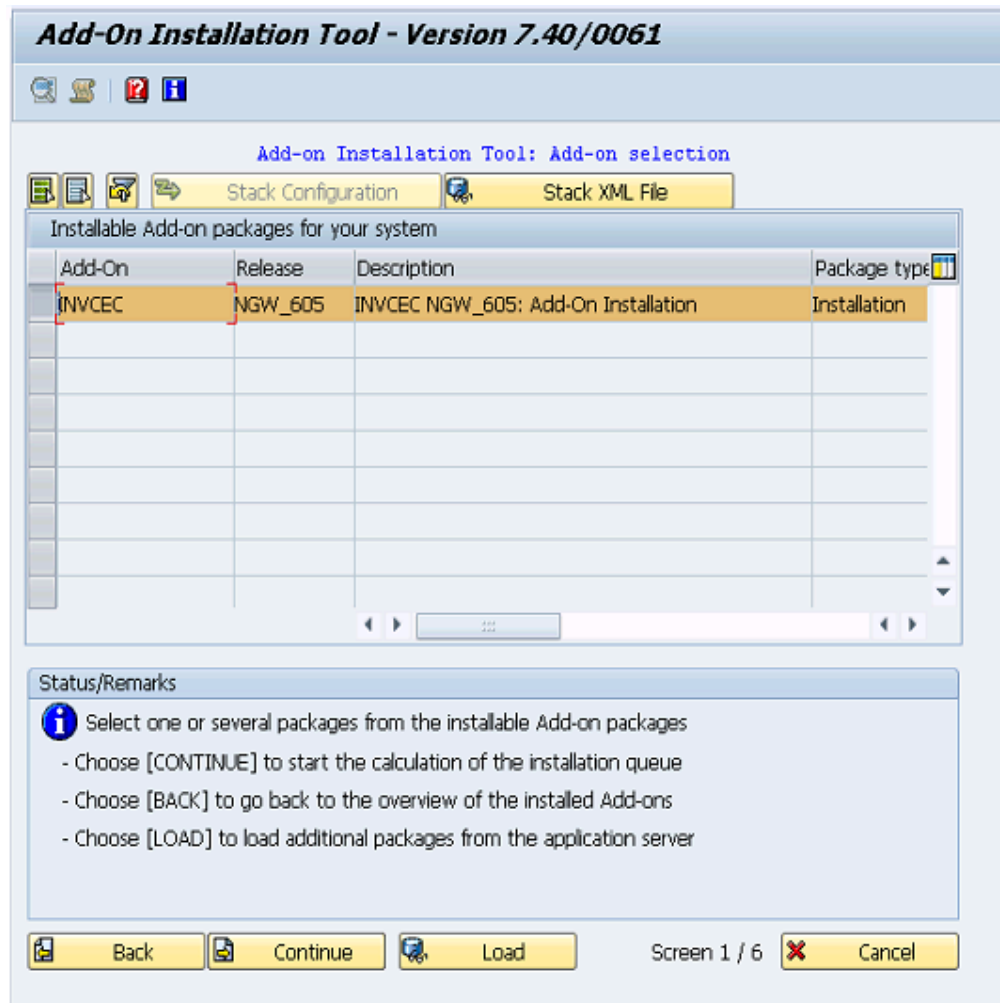
7. Once the packages are loaded, go back to the main screen, and click **Start**.

Figure 3-3 Installed Add-ons



8. Select the Add-On in the next screen and click **Continue**.

Figure 3-4 Select Add-on

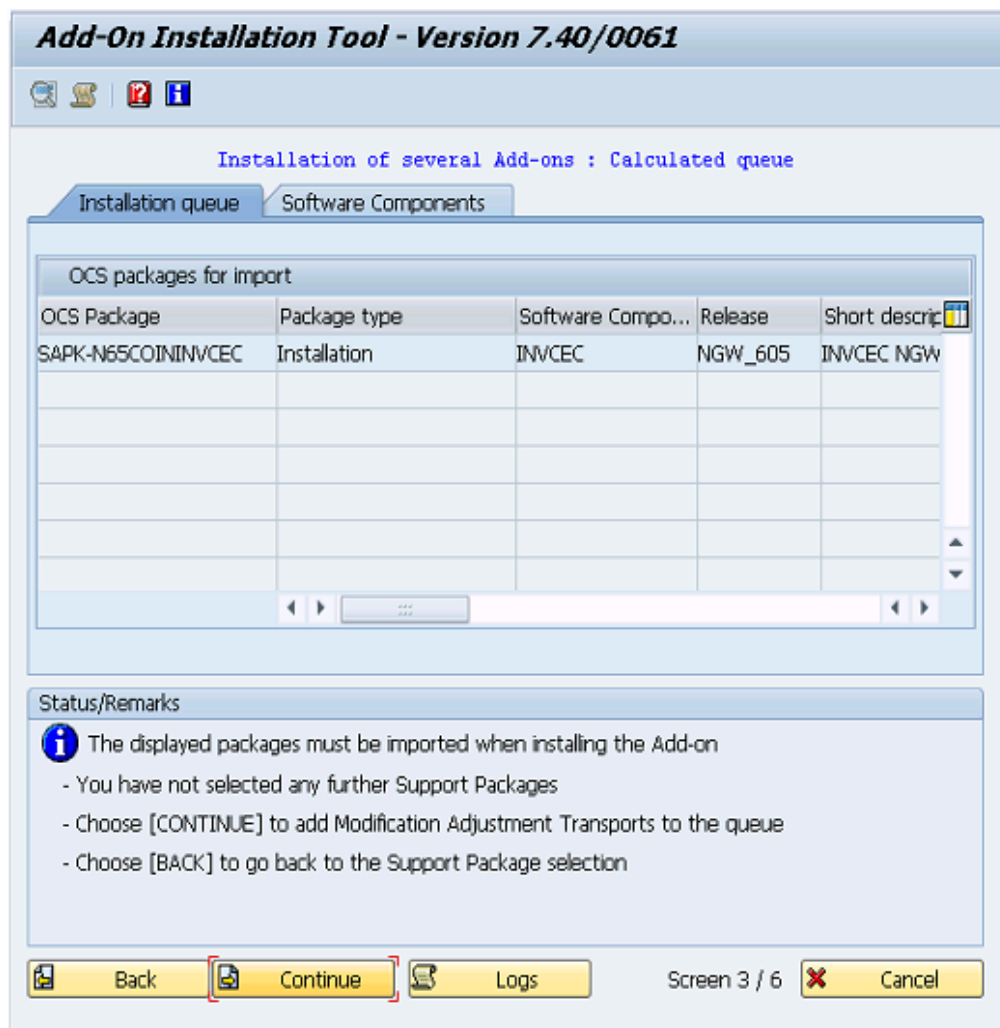


9. Click **Continue** in the next screen.

The OCS packages to be imported are displayed in the next screen.

10. Click **Continue** to proceed to the next step.

Figure 3-5 Add-on Queue



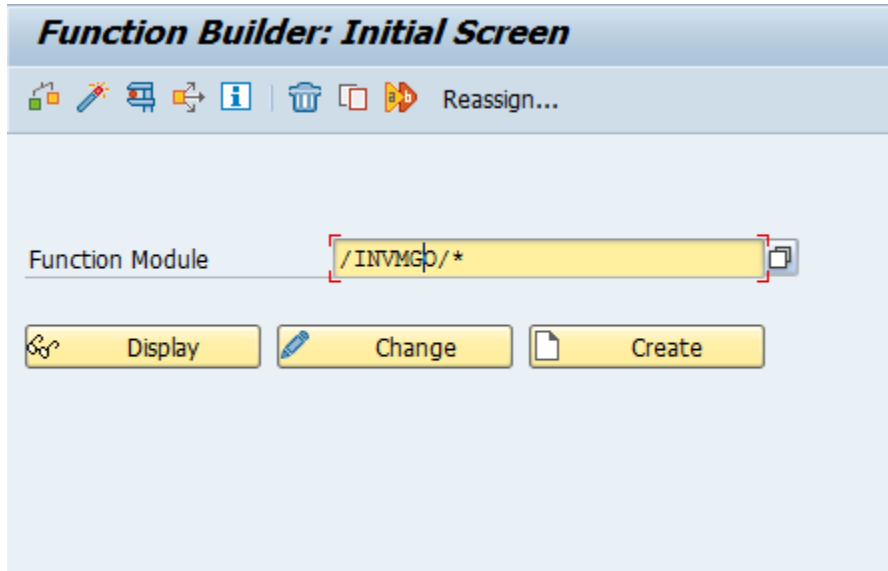
11. Click **No**, when asked to add Modification Adjustment Transports to the queue.
12. Click the **Import**  icon.
13. Click **Finish**.

3.1.1. Verify SAP® ECC RACE™ Add-On

To verify the SAP® ECC RACE™ add-on:

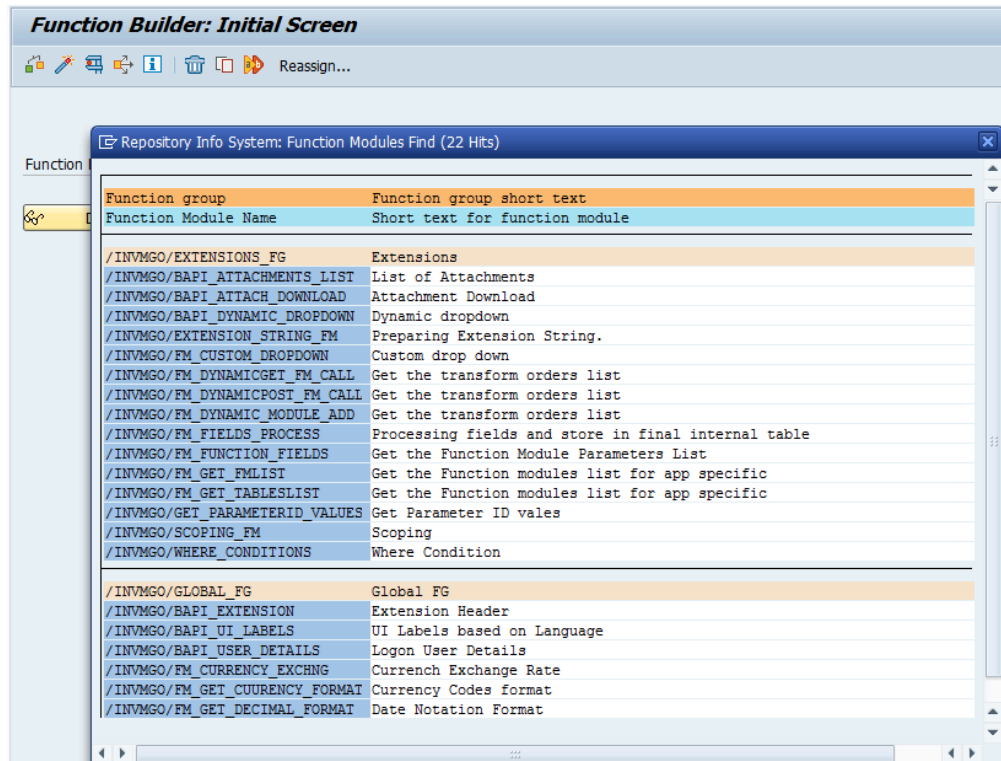
1. Run the transaction code **SE37**.
2. Enter **object type** to search for all objects **/INVMGO/***.

Figure 3-6 Function Builder Initial Screen



3. Press **<F4>** to view the list of classes and capture the screenshot(s) to share the results.

Figure 3-7 Function Module Classes

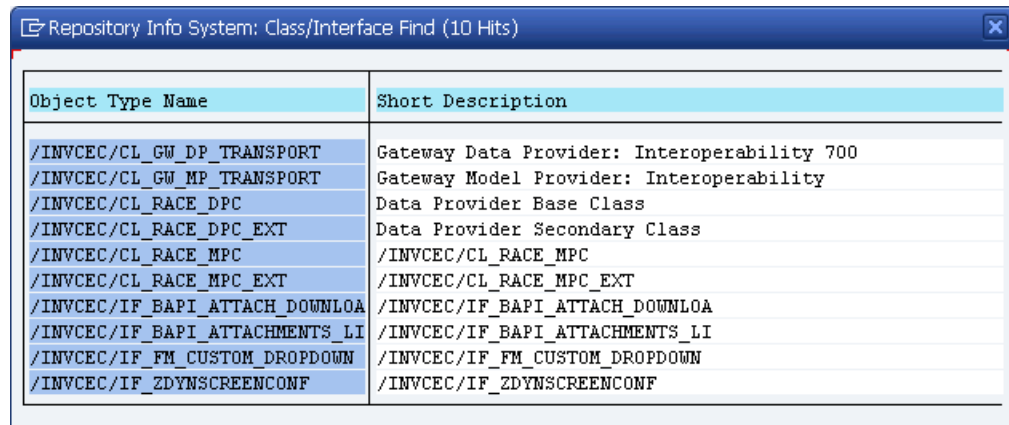


3.1.2. Verify SAP® GW RACE™ Add-On

To verify the SAP® GW RACE™ add-on:

1. Navigate to the transaction code **SE24**.
2. Enter **object type** to search for all objects **/INVCEC/***.
3. Press **<F4>** to view the list of classes and capture the screenshot(s) to share the results.

Figure 3-8 Object Classes



Object Type Name	Short Description
/INVCEC/CL_GW_DP_TRANSPORT	Gateway Data Provider: Interoperability 700
/INVCEC/CL_GW_MP_TRANSPORT	Gateway Model Provider: Interoperability
/INVCEC/CL_RACE_DPC	Data Provider Base Class
/INVCEC/CL_RACE_DPC_EXT	Data Provider Secondary Class
/INVCEC/CL_RACE_MPC	/INVCEC/CL_RACE_MPC
/INVCEC/CL_RACE_MPC_EXT	/INVCEC/CL_RACE_MPC_EXT
/INVCEC/IF_BAPI_ATTACH_DOWNLOAD	/INVCEC/IF_BAPI_ATTACH_DOWNLOAD
/INVCEC/IF_BAPI_ATTACHMENTS_LI	/INVCEC/IF_BAPI_ATTACHMENTS_LI
/INVCEC/IF_FM_CUSTOM_DROPDOWN	/INVCEC/IF_FM_CUSTOM_DROPDOWN
/INVCEC/IF_ZDYNSCREENCONF	/INVCEC/IF_ZDYNSCREENCONF

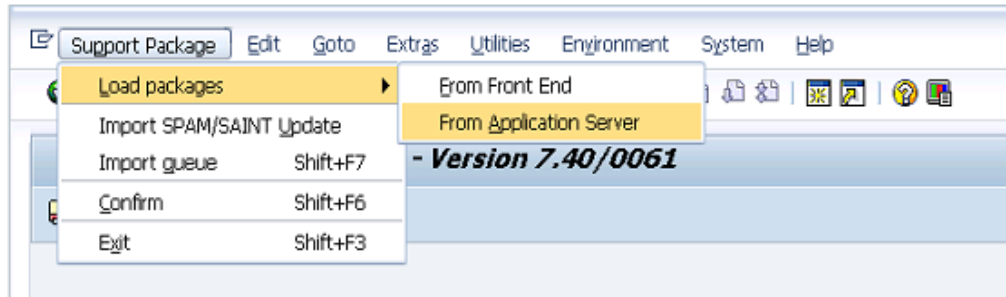
3.2. Install RACE™ SAP® ECC and Gateway Support packs

If you have installed the add-ons and are installing only the support pack (hotfixes), follow the steps described below.

To install the RACE™ SAP® ECC and Gateway support pack:

1. Log in to **000** client of SAP GW & ECC System (based on the support pack being imported).
2. Navigate to the transaction code **SPAM**.
3. Navigate to **Support Package, Load Packages, From Application Server**.

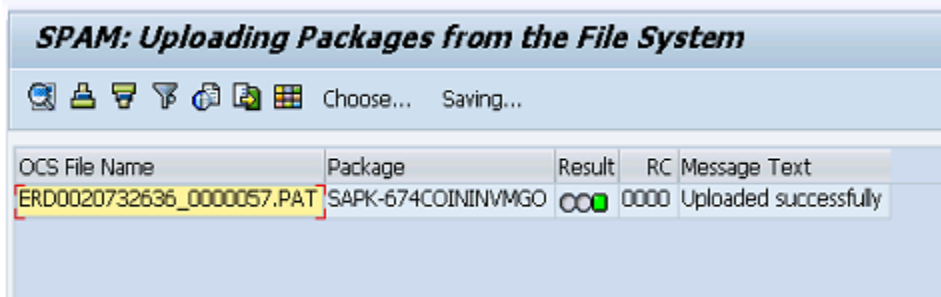
Figure 3-9 SAINT



4. Click **Yes** in the confirmation screen.

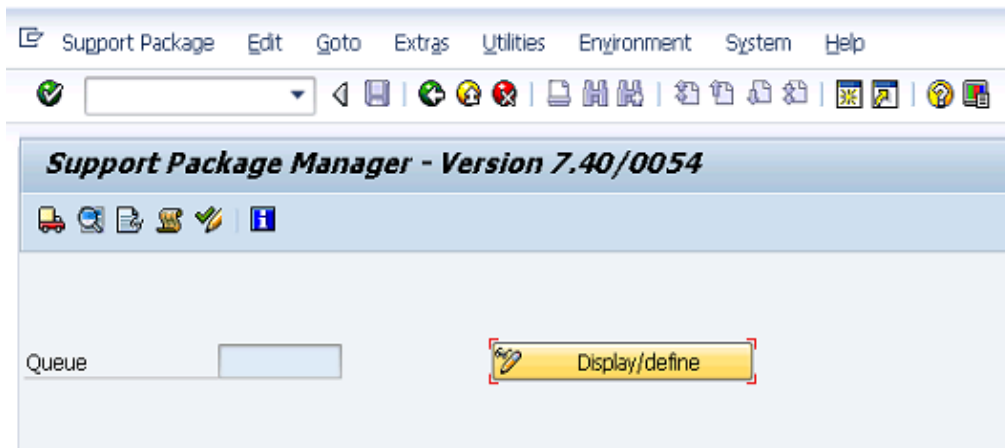
Packages are loaded in the file system

Figure 3-10 SAINT: Upload Packages



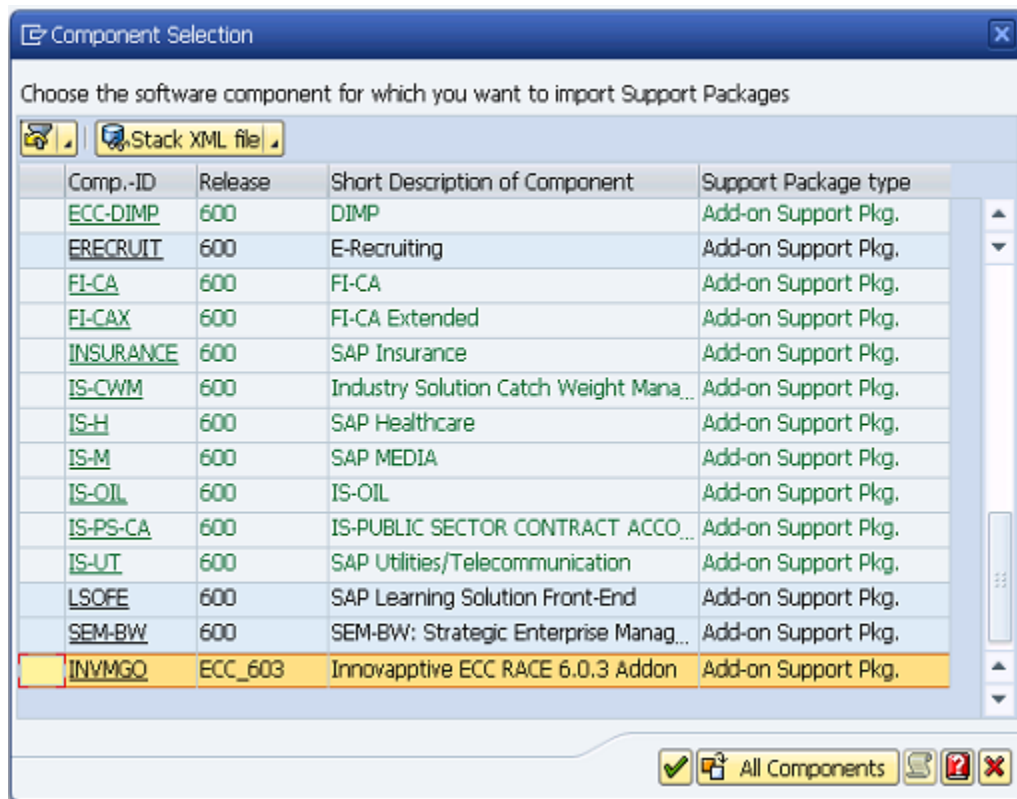
5. Once the packages are loaded, go back to the main screen, and click **Display/define**.

Figure 3-11 Support Package Manager



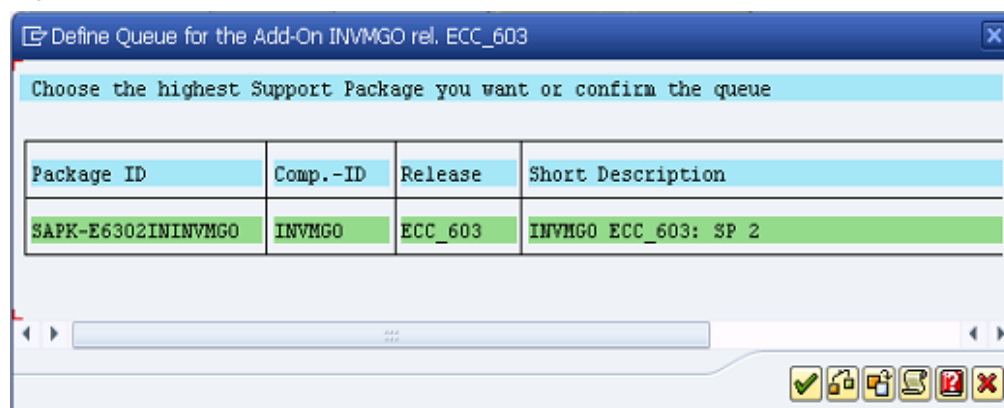
6. Choose the software component for which you want to import Support Packages and click .

Figure 3-12 Component Selection



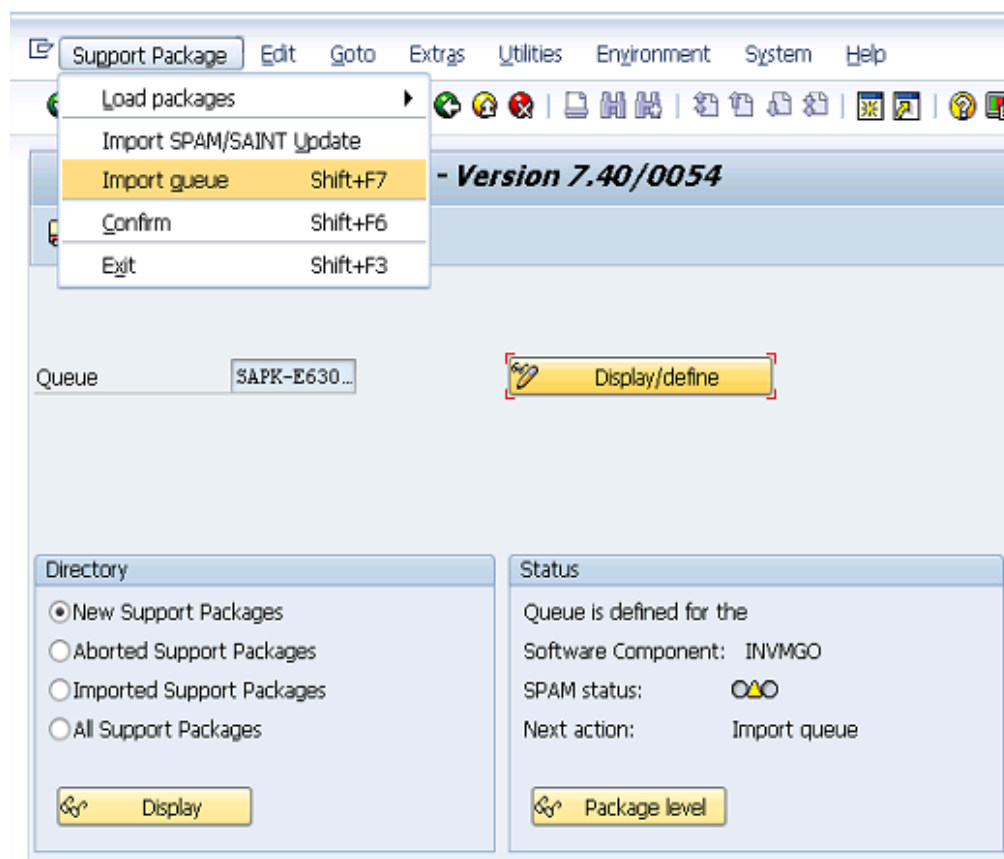
7. If all the conditions are met, and you get the package (**green**) click .

Figure 3-13 Confirm Queue



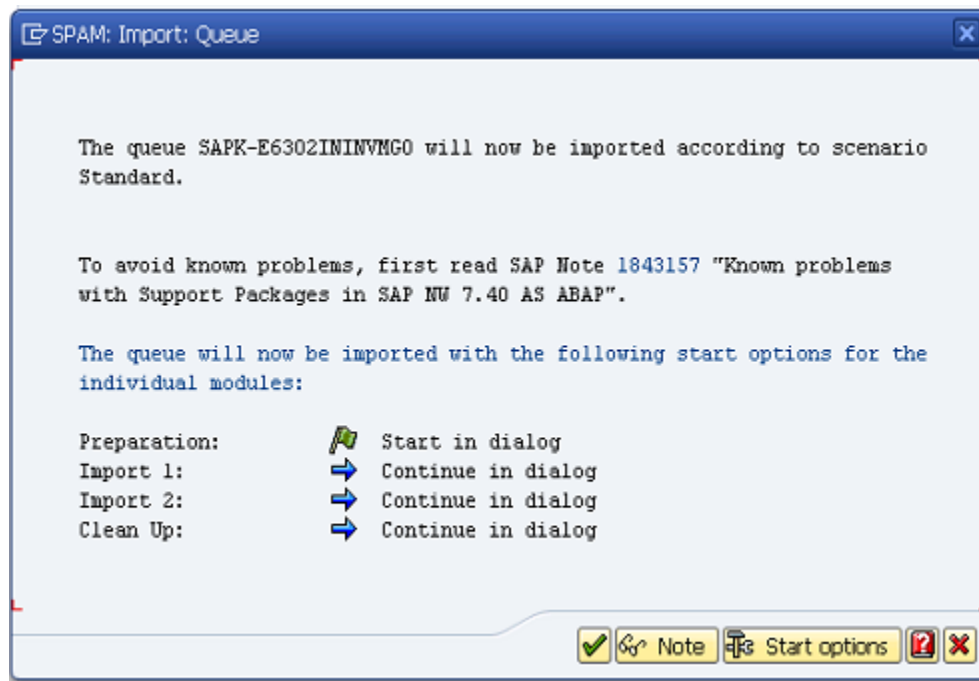
8. Click **No**, when asked to add Modification Adjustment Transports to the queue.
9. Go to **Support package** in the menu bar and click **Import Queue**.

Figure 3-14 Import Queue



10. Click to start the import process.

Figure 3-15 Import Queue Confirm



11. Once the package is imported, a confirmation screen appears. Click on the screen.

12. Go to **Support Package** in the menu bar and click **Confirm**.

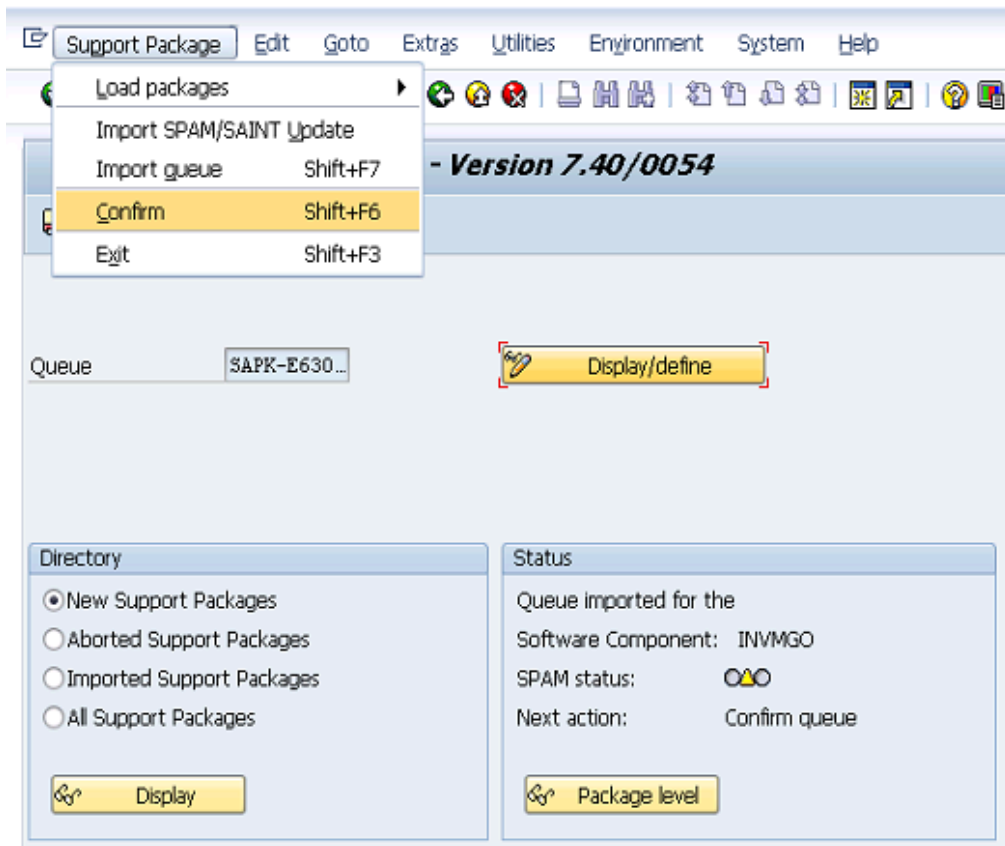
A confirmation message appears.



Note:

If you face any issues/errors while installing the Add-On/Support pack, send log files with screenshots and details of the error to your **Innovapptive SAP Basis team** contact assigned to your project.

Figure 3-16 Confirm Support Package



3.3. Activate RACE™ OData Service

Once add-on and support packs are installed, activate RACE™ OData Service.

To activate the RACE™ OData service:

1. Login to Gateway system.
2. Navigate to the transaction **/IWFND/MAINT_SERVICE**.
3. Select the service **/INVCEC/RACE_SRV**.
4. Click **Activate** from the drop-down list of **ICF Node** options.

A message appears notifying the package selection appears.

Figure 3-17 Activate and Maintain Services

The screenshot shows the 'Activate and Maintain Services' transaction. The 'Service Catalog' table lists various services. The service **/INVCEC/RACE_SRV** is highlighted in yellow. Below the table, the 'ICF Node' dropdown menu is open, showing 'Activate' as the selected option. The 'System Aliases' section is visible at the bottom right.

Type	Technical Service Name	V...	Service Description	External Service Name	Namespace	OAut.	Soft State	Status	Is SAP Ser
BEP	ZPAGE_BUILDER_CUST	1	Pagebuilder - Customizing level	PAGE_BUILDER_CUST	/UIZ/	✓			
BEP	ZPAGE_BUILDER_PERS	1	Pagebuilder - Personalization level	PAGE_BUILDER_PERS	/UIZ/	✓			
BEP	ZPAGEBUILDER_SERVICE_V_0_1	1	Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBUILDER_SERVICE_V_0_1	/UIZ/	✓			
BEP	ZPP_PRODOPS_CONFIRM_SRV	1	Confirm Production Order Operation	PP_PRODOPS_CONFIRM_SRV		✓			
BEP	ZQUICKVIEW	1	Quickview Service	QUICKVIEW	/UIZ/	✓			
BEP	/INVCEC/RACE_SRV	1	Global Extensions	RACE_SRV	/INVCEC/	✓			
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT	/IWFND/	✓			
BEP	ZRMTSAMPLEFLIGHT_2	1	OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT_2	/IWBEP/	✓			
BEP	RSOA_ODATA_SRV	1	Tlgo and Bookmark access via Odata	RSOA_ODATA_SRV		✓		Not Supported	
BEP	S_EPM_SADL_GW_DEV_SCEN_RO_SRV	1	EPM: SADL-based GW-Service 'NW 2013 Dev. Sce	S_EPM_SADL_GW_DEV_SCEN_RO_SRV		✓			
BEP	ZSAMPLE_EPM_EMPLOYEE_LIST	1	Sample employee list service based on EPM	SAMPLE_EPM_EMPLOYEE_LIST	/UIZ/	✓			
BEP	ZSAMPLE_EPM_POWL_CACHED	1	Sample POWL for APPLID EPM_POWL (customizn)	SAMPLE_EPM_POWL_CACHED	/UIZ/	✓			
BEP	ZSAMPLE_EPM_POWL_CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE_EPM_POWL_CODED	/UIZ/	✓			
BEP	ZSAMPLE_EPM_POWL_CUST	1	Sample POWL for APPLID EPM_POWL (customizn)	SAMPLE_EPM_POWL_CUST	/UIZ/	✓			
BEP	ZSAMPLE_POWL_SLIGHT_ALL	1	Sample flight service based on POWL framework	SAMPLE_POWL_SLIGHT_ALL	/UIZ/	✓			
BEP	ZSAMPLE_POWL_SLIGHT_ALL	1	Sample flight service based on POWL framework	SAMPLE_POWL_SLIGHT_ALL	/UIZ/	✓			

5. Click the **Local Object** button and continue to activate the service.

The OData service is activated and the status turns **green**.

Figure 3-18 Service Status

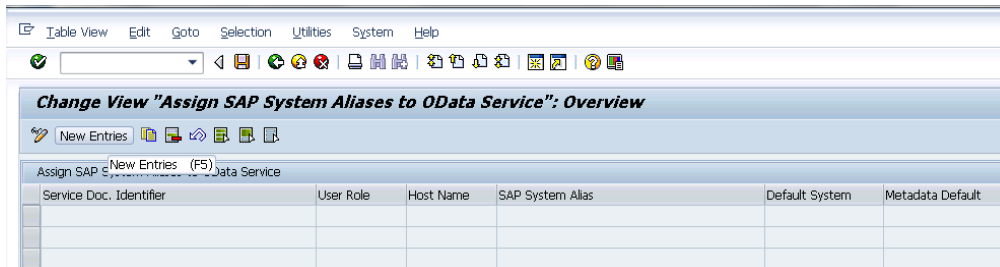
The screenshot shows the 'Activate and Maintain Services' transaction. The 'Service Catalog' table lists various services. The service **/INVCEC/RACE_SRV** is highlighted in yellow. Below the table, the 'ICF Node' dropdown menu is open, showing 'Activate' as the selected option. The 'System Aliases' section is visible at the bottom right.

Type	Technical Service Name	V...	Service Description	External Service Name	Namespace	OAut.	Soft State	Status	Is SAP Service
BEP	ZPAGEBUILDER_SERVICE_V_0_1	1	Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBUILDER_SERVICE_V_0_1	/UIZ/	✓			
BEP	ZPP_PRODOPS_CONFIRM_SRV	1	Confirm Production Order Operation	PP_PRODOPS_CONFIRM_SRV		✓			
BEP	ZQUICKVIEW	1	Quickview Service	QUICKVIEW	/UIZ/	✓			
BEP	/INVCEC/RACE_SRV	1	Global Extensions	RACE_SRV	/INVCEC/	✓			
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT	/IWFND/	✓			
BEP	ZRMTSAMPLEFLIGHT_2	1	OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT_2	/IWBEP/	✓			
BEP	RSOA_ODATA_SRV	1	Tlgo and Bookmark access via Odata	RSOA_ODATA_SRV		✓		Not Supported	
BEP	S_EPM_SADL_GW_DEV_SCEN_RO_SRV	1	EPM: SADL-based GW-Service 'NW 2013 Dev. Sce	S_EPM_SADL_GW_DEV_SCEN_RO_SRV		✓			
BEP	ZSAMPLE_EPM_EMPLOYEE_LIST	1	Sample employee list service based on EPM	SAMPLE_EPM_EMPLOYEE_LIST	/UIZ/	✓			
BEP	ZSAMPLE_EPM_POWL_CACHED	1	Sample POWL for APPLID EPM_POWL (customizn)	SAMPLE_EPM_POWL_CACHED	/UIZ/	✓			
BEP	ZSAMPLE_EPM_POWL_CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE_EPM_POWL_CODED	/UIZ/	✓			
BEP	ZSAMPLE_EPM_POWL_CUST	1	Sample POWL for APPLID EPM_POWL (customizn)	SAMPLE_EPM_POWL_CUST	/UIZ/	✓			
BEP	ZSAMPLE_POWL_SLIGHT_ALL	1	Sample flight service based on POWL framework	SAMPLE_POWL_SLIGHT_ALL	/UIZ/	✓			
BEP	SEPM_HANA_EXT_PAL_ODATA_SRV	1	SEPM_HANA_EXT_PAL_ODATA	SEPM_HANA_EXT_PAL_ODATA_SRV		✓		Not Supported	
BEP	ZSM_CATALOG_SRV	1	Social Media Remote Catalog OData Service	SM_CATALOG_SRV		✓			

6. Click **Add System Alias** above **System Aliases** on the right to add the SAP System alias for the selected service.

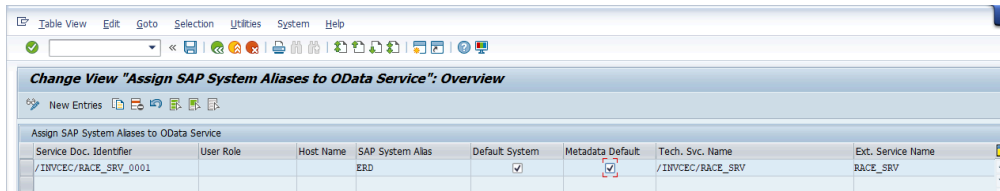
7. Click **New Entries**.

Figure 3-19 New Entries for System Alias



8. Assign the System Alias (ERD in this case) for the service and save changes.

Figure 3-20 Assign SAP System Alias to Service



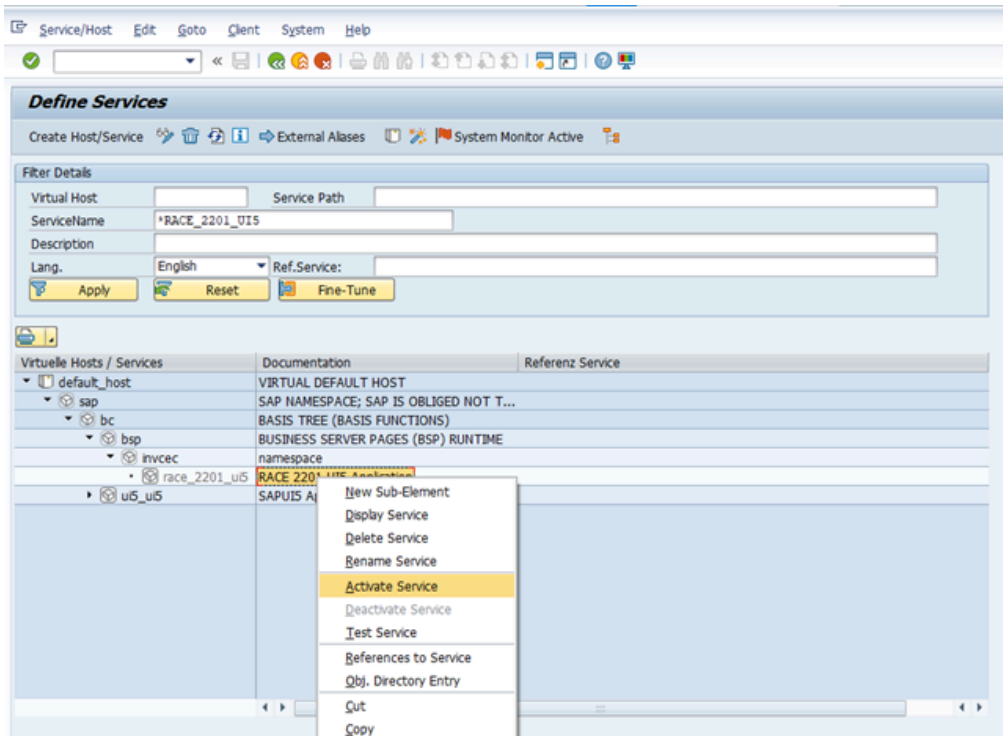
3.4. Activate UI5 Service

Activate UI5 Service once you have activated RACE™ OData Service.

To activate UI5 Service:

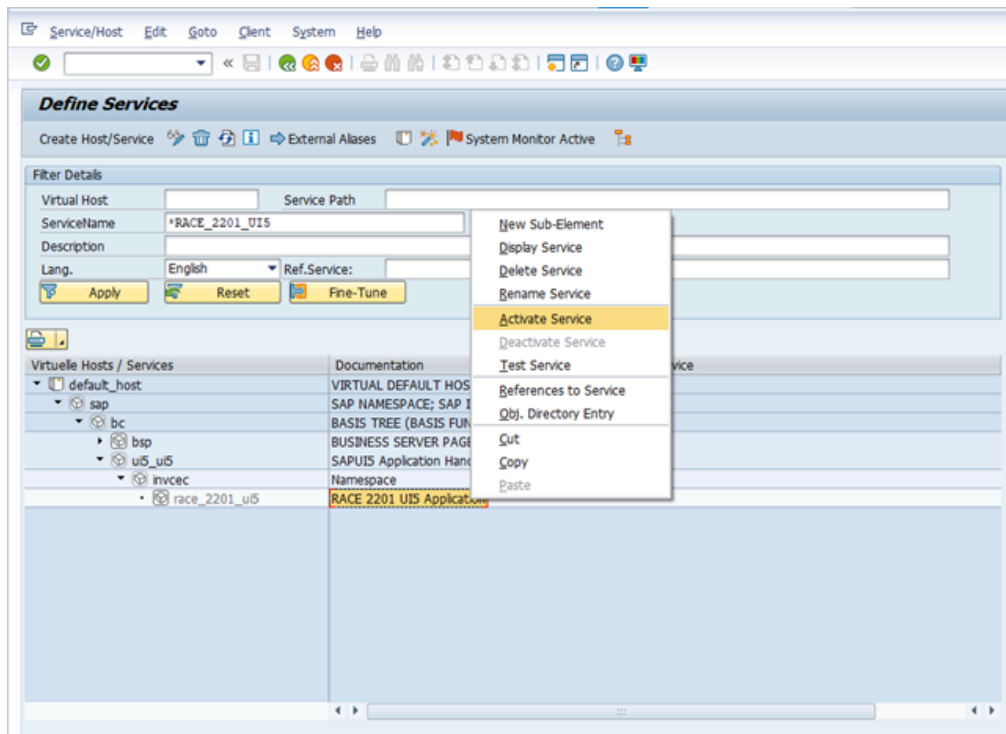
1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/bsp/invcec/race_2201_ui5**.
2. Right-click **RACE 2201 UI5** and click **Activate Service**.

Figure 3-21 Activate RACE BSP Service



3. Click **Yes**.
4. Go to **/default_host/sap/bc/ui5_ui5/ invcec/race_2201_ui5**.

Figure 3–22 Activate RACE UI5 service



5. Right-click **RACE 2201 UI5** and click **Activate Service**.
6. Click **Yes**.

Access the SAPUI5 web application by replacing the **host name**, **port number** and **client number** in the following template's URLs to match your SAP NetWeaver Gateway instance:

- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_ui5/index.html?sap-client=100`
- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_ui5/index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false`

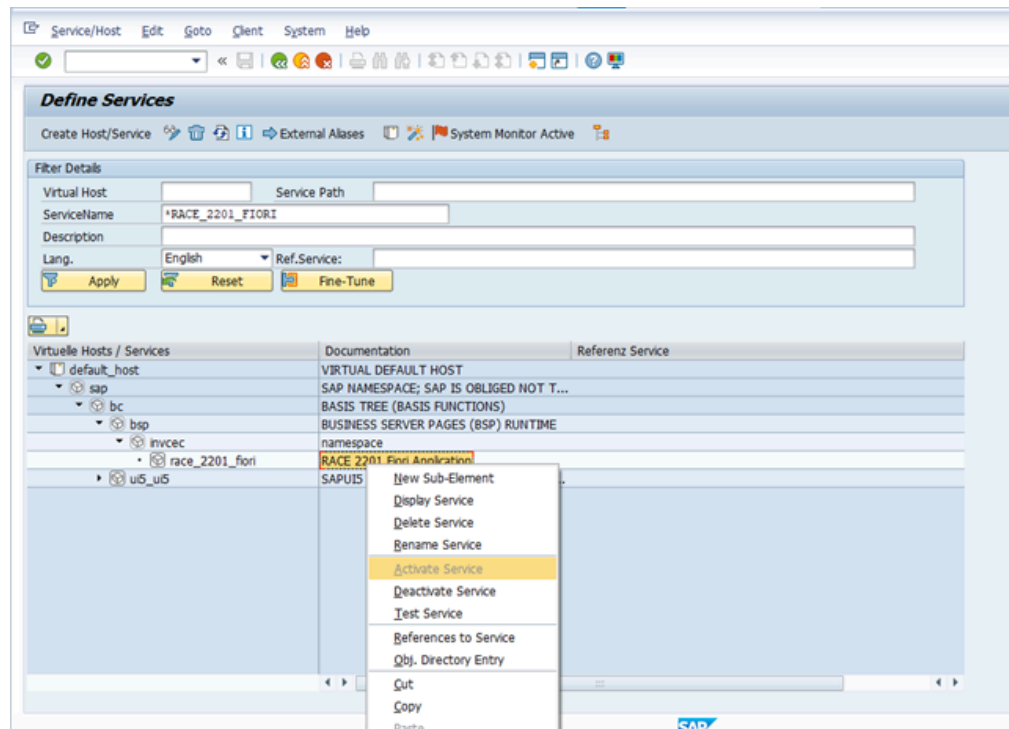
3.5. Activate FIORI Service

Activate FIORI service after you have activated UI5 service.

To activate FIORI Service:

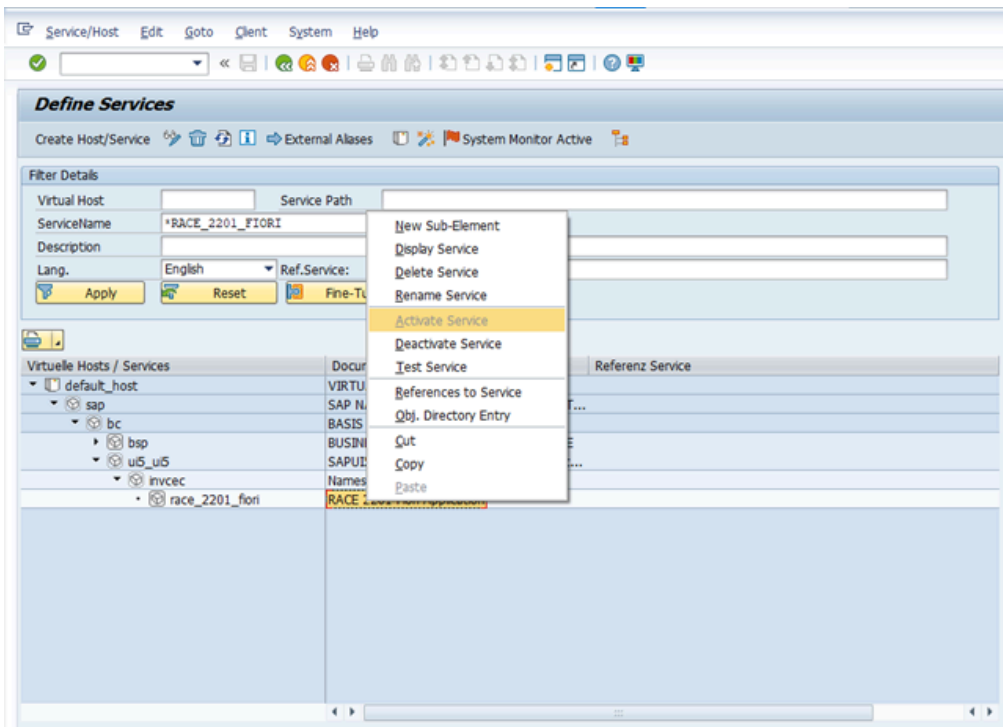
1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/bsp/invcec/race_2201_fiori**.
2. Right-click **RACE 2201 FIORI** and click **Activate Service**.

Figure 3-23 Activate RACE FIORI Service



3. Click **Yes**.
4. Go to **/default_host/sap/bc/ui5_ui5/invcec/race_2201_fiori**.

Figure 3-24 Activate RACE FIORI service



5. Right-click **RACE 2201 FIORI** and click **Activate Service**.
6. Click **Yes**.

Access the SAP Fiori web application by transaction code **/N/UI2/FLP**. You are redirected to the below template URLs to match your SAP NetWeaver Gateway instance:

- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_fiori/index.html?sap-client=100`
- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_fiori/index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false`.

3.6. Import RACE™ SAP® ECC and Gateway ABAP Transports

Innovapptive recommends that you install Add-ons instead of importing Transports for error free installation. However, if you prefer to import Transports, import them in the order listed in the table.

**Note:**

Ask your Innovapptive contact for the latest transports and these components will be provided in a compressed file format, such as .zip, .rar, and sent to you either through email or through FTP.

Table 3-3 RACE™ SAP® ECC Transports

Transport	Description	Dependency
ERDK913573	Innov RACE 2208 SP02 ECC Objects	None

Table 3-4 RACE™ Gateway Transports

Transport	Description	Dependency
NG5K903797	Innov RACE 2208 SP02 Gate-way Objects	None
NG5K903799	INNOV RACE™ 2208 SP02 UI5 Application	Import NG5K903797 before importing NG5K903799
NG5K904110	INNOV RACE™ 2208 SP02 Fiori Application	Import NG5K904077 before importing NG5K904110

3.6.1. Import Transports

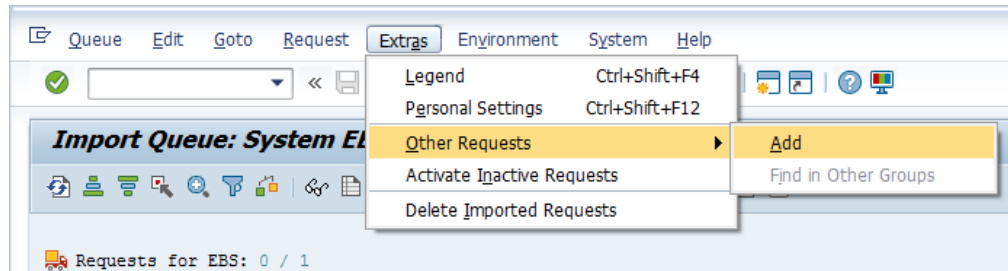
Import transports in the order of dependency.

To import Transports:

1. Extract the zip or .rar files that you received from Innovapptive representative and save the files to your local machine.
2. Extract and upload/copy the files to the SAP ECC & GW System Directories.
 - a. Extract the zip files and copy all co-files (files starting with '**K90***') from software deployment package to the *USR/SAP/TRANS/COFILES* path on SAP ECC & GW system.
 - b. Extract the zip files and copy all the data files **R90*** provided in the software deployment package to the specified path on the SAP ECC & GW system *USR/SAP/TRANS/DATA*.
3. Log in to the SAP GW or ECC System (based on the transport being imported).
4. Navigate to the transaction code **STMS_Import**.

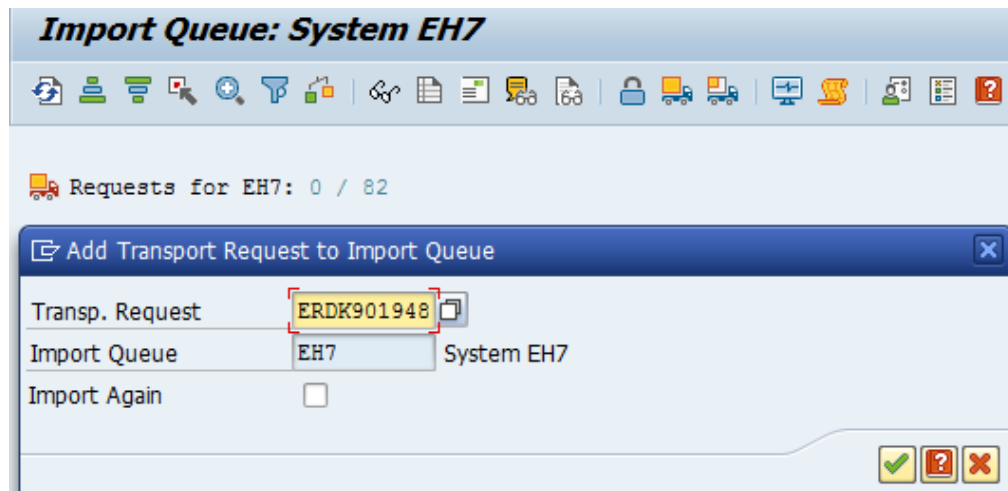
5. Navigate to **Extras, Other Requests, Add**.

Figure 3-25 STMS_Import



6. Enter the transport number in the **Transp. Request** field and confirm by pressing the **ENTER** key (or click the green-colored icon) to attach transports to the import queue.

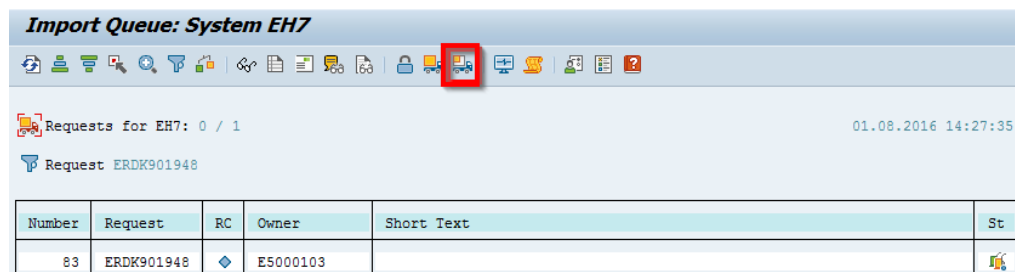
Figure 3-26 Add Transport Request to Queue



7. Click **Yes** to proceed to the next step.

Select the transport request and click the **Transport** icon.

Figure 3-27 Import Queue

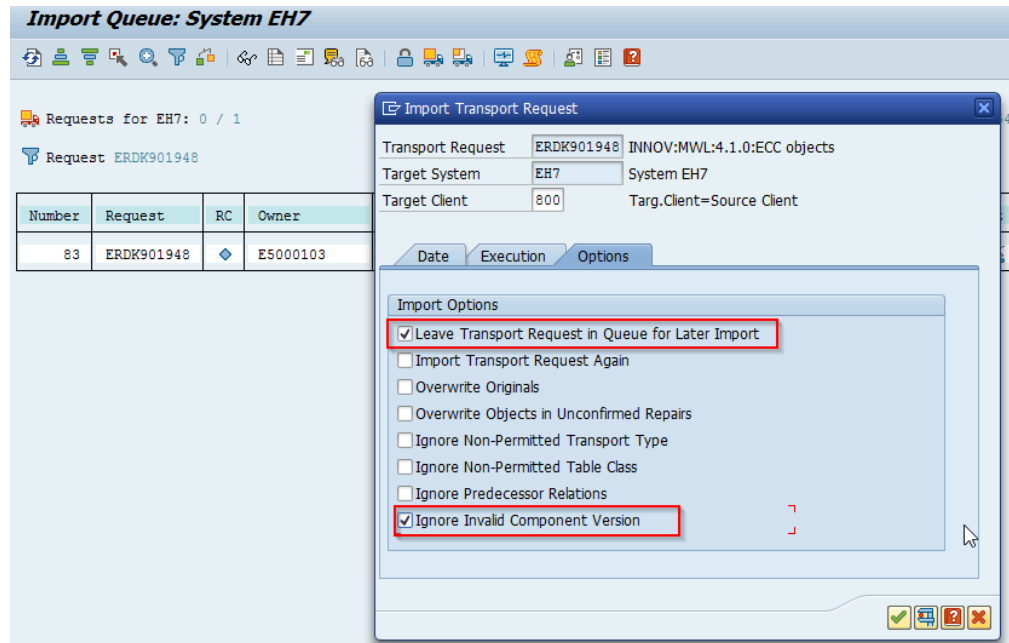


8. Enter the target client number in **Target Client** field.

9. Select **Leave Transport Request in Queue for Later Import** and **Ignore Invalid Component Version**.

10. Click .

Figure 3-28 Import Transport Options



11. Click **Yes** in the confirmation screen.

12. Capture the screenshots of the imported transports.

Figure 3-29 Imported Transports

Request ERDK901948

Number	Request	RC	Owner	Short Text	St
13	ERDK901948	▲	E5000131	Innov:mWorklist:Global Transport for ECC	

13. Add all transports in the order specified.



Note:

If you face any issues/errors while importing the Transports, send the log files with screenshots and details of the error to your **Innovapptive SAP Basis team** contact assigned to your project.

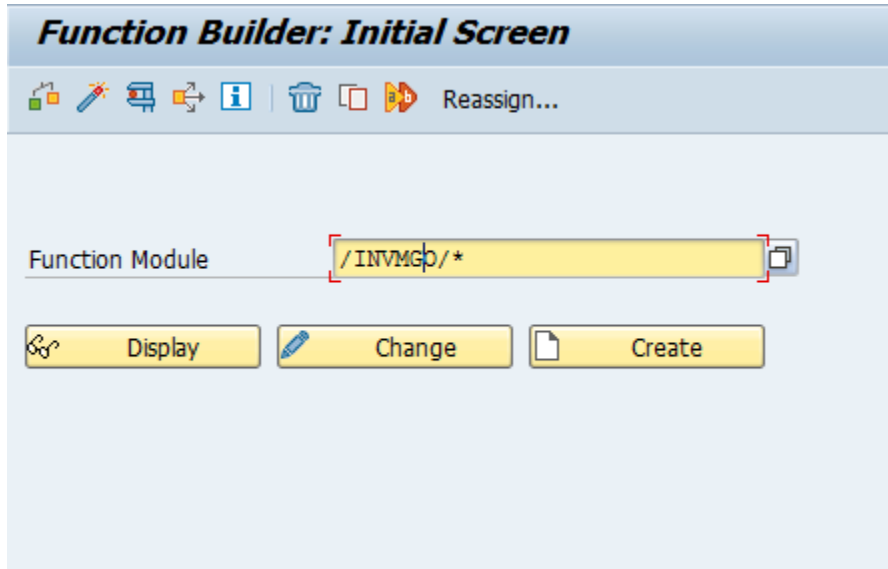
3.6.2. Verify SAP® ECC RACE™ Transport

If you have imported SAP® ECC RACE™ Transport, verify whether it was successful.

To verify the SAP® ECC RACE™ Transport:

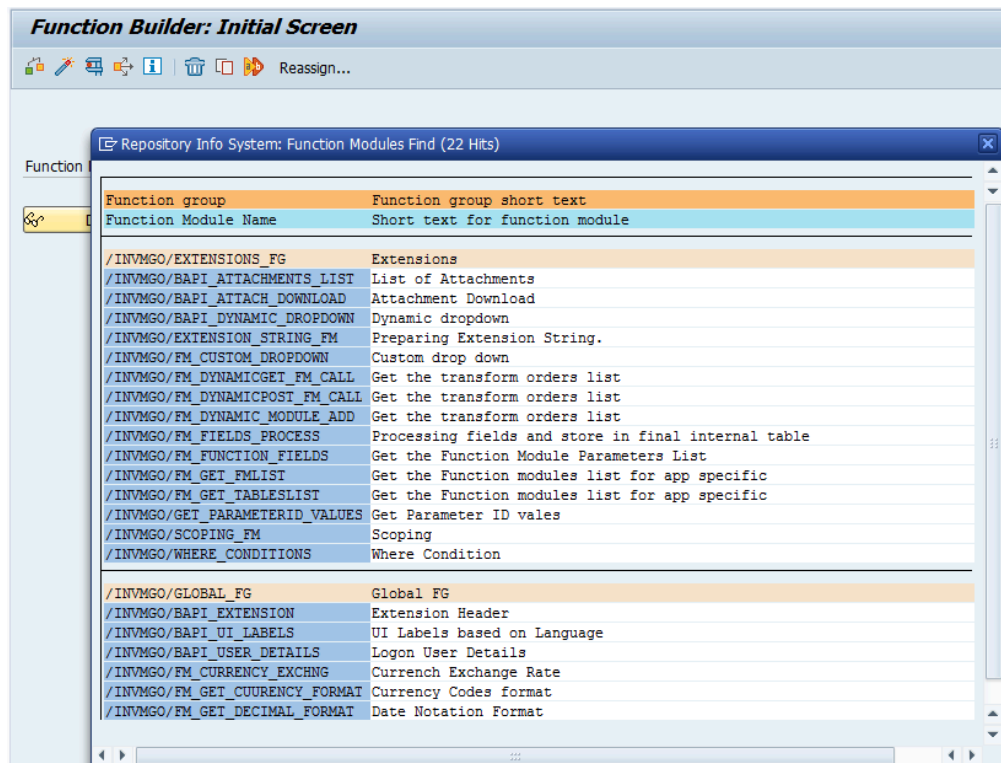
1. Run the transaction code **SE37**.
2. Enter **object type** to search for all objects **/INVMGO/***.

Figure 3-30 Function Builder Initial Screen



3. Press **<F4>** to view the list of classes and capture the screenshot(s).

Figure 3-31 Function Module Classes



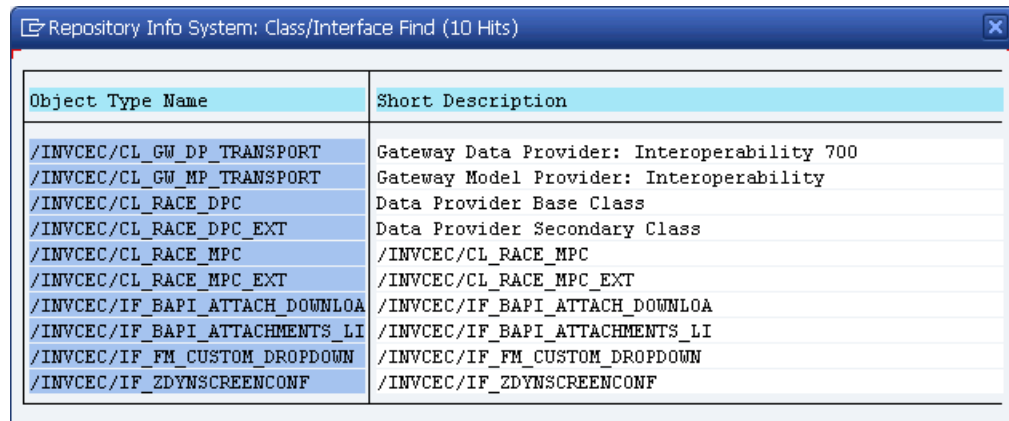
3.6.3. Verify SAP® GW RACE™ Transport

If you have imported SAP® GW RACE™ Transport, verify whether it was successful

To verify the SAP® GW RACE™ Transport:

1. Navigate to the transaction code **SE24**.
2. Enter **object type** to search for all objects **/INVCEC/***.
3. Press **<F4>** to view the list of classes and capture the screenshot(s) to share the results.

Figure 3-32 Object Classes



Object Type Name	Short Description
/INVCEC/CL_GW_DP_TRANSPORT	Gateway Data Provider: Interoperability 700
/INVCEC/CL_GW_MP_TRANSPORT	Gateway Model Provider: Interoperability
/INVCEC/CL_RACE_DPC	Data Provider Base Class
/INVCEC/CL_RACE_DPC_EXT	Data Provider Secondary Class
/INVCEC/CL_RACE_MPC	/INVCEC/CL_RACE_MPC
/INVCEC/CL_RACE_MPC_EXT	/INVCEC/CL_RACE_MPC_EXT
/INVCEC/IF_BAPI_ATTACH_DOWNLOAD	/INVCEC/IF_BAPI_ATTACH_DOWNLOAD
/INVCEC/IF_BAPI_ATTACHMENTS_LI	/INVCEC/IF_BAPI_ATTACHMENTS_LI
/INVCEC/IF_FM_CUSTOM_DROPDOWN	/INVCEC/IF_FM_CUSTOM_DROPDOWN
/INVCEC/IF_ZDYNSCREENCONF	/INVCEC/IF_ZDYNSCREENCONF

3.6.4. Activate RACE™ OData Service

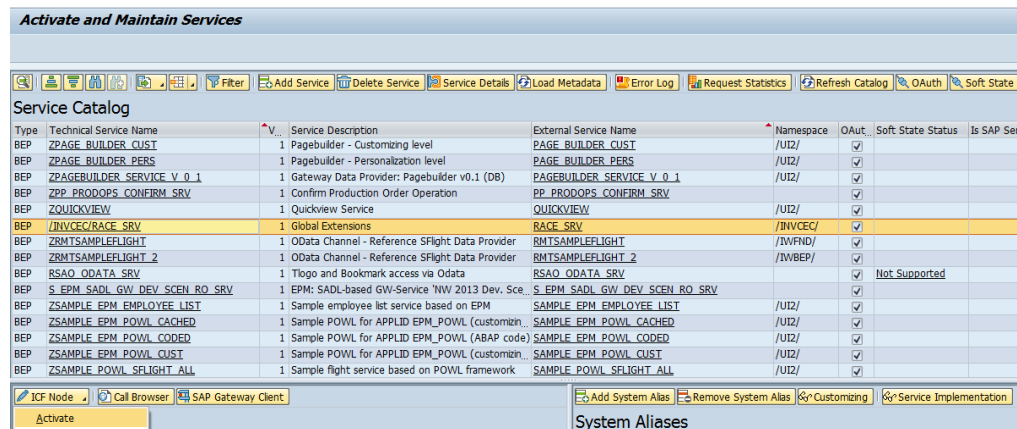
Once add-on and support packs are installed, activate RACE™ OData Service.

To activate the RACE™ OData service:

1. Login to Gateway system.
2. Navigate to the transaction **/IWFND/MAINT_SERVICE**.
3. Select the service **/INVCEC/RACE_SRV**.
4. Click **Activate** from the drop-down list of **ICF Node** options.

A message appears notifying the package selection appears.

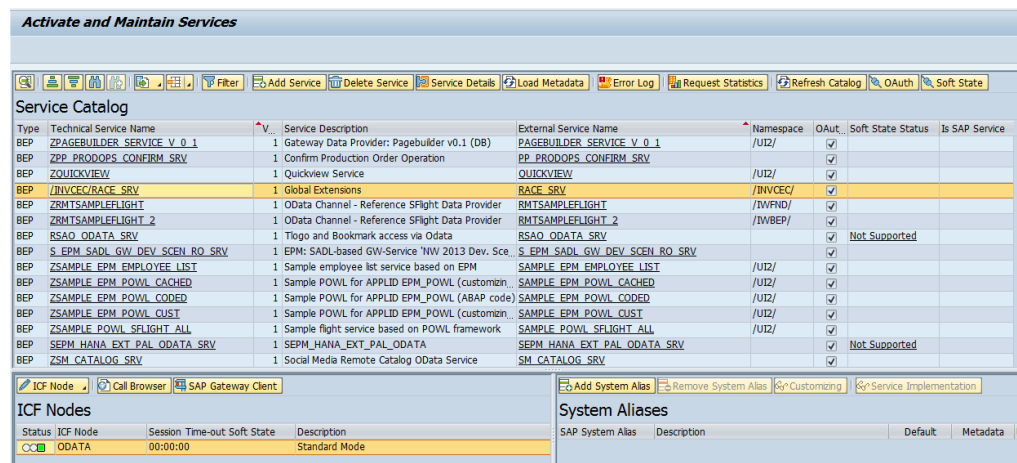
Figure 3–33 Activate and Maintain Services



5. Click the **Local Object** button and continue to activate the service.

The OData service is activated and the status turns **green**.

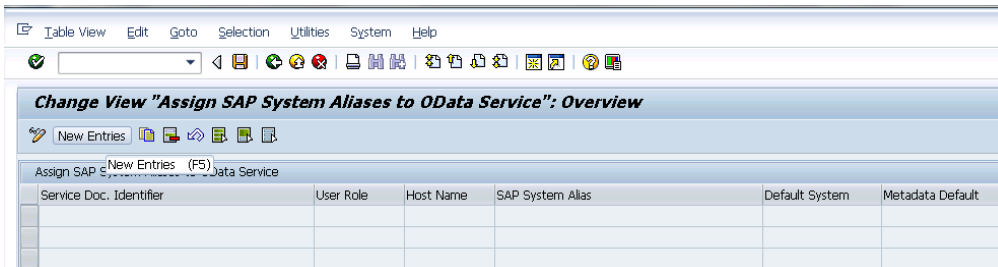
Figure 3–34 Service Status



6. Click **Add System Alias** above **System Aliases** on the right to add the SAP System alias for the selected service.

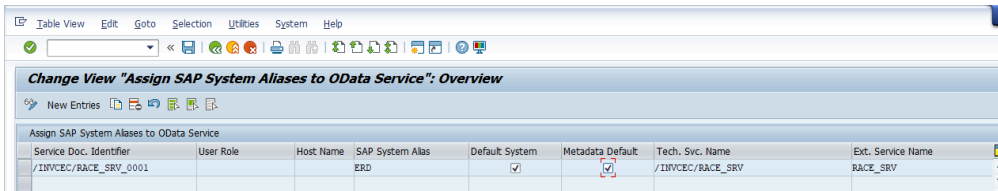
7. Click **New Entries**.

Figure 3-35 New Entries for System Alias



8. Assign the System Alias (ERD in this case) for the service and save changes.

Figure 3-36 Assign SAP System Alias to Service



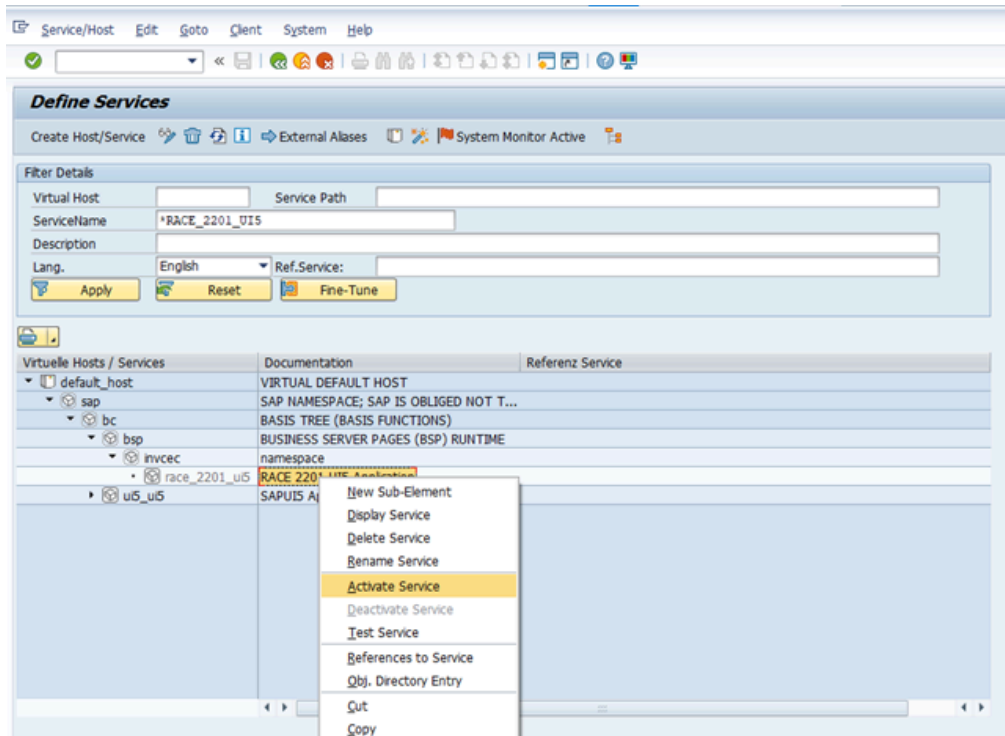
3.6.5. Activate UI5 Service

Activate UI5 Service once you have activated RACE™ OData Service.

To activate UI5 Service:

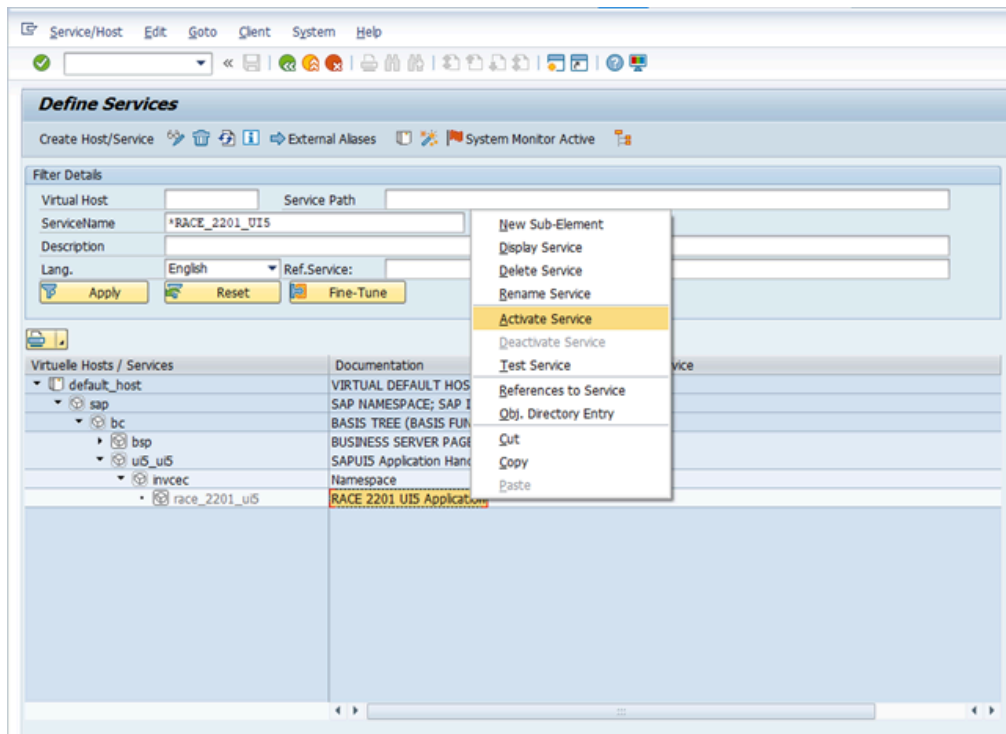
1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/bsp/invcec/race_2201_ui5**.
2. Right-click **RACE 2201 UI5** and click **Activate Service**.

Figure 3-37 Activate RACE BSP Service



3. Click **Yes**.
4. Go to **/default_host/sap/bc/ui5_ui5/ invcec/race_2201_ui5**.

Figure 3-38 Activate RACE UI5 service



5. Right-click **RACE 2201 UI5** and click **Activate Service**.
6. Click **Yes**.

Access the SAPUI5 web application by replacing the **host name**, **port number** and **client number** in the following template's URLs to match your SAP NetWeaver Gateway instance:

- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_ui5/index.html?sap-client=100`
- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_ui5/index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false`

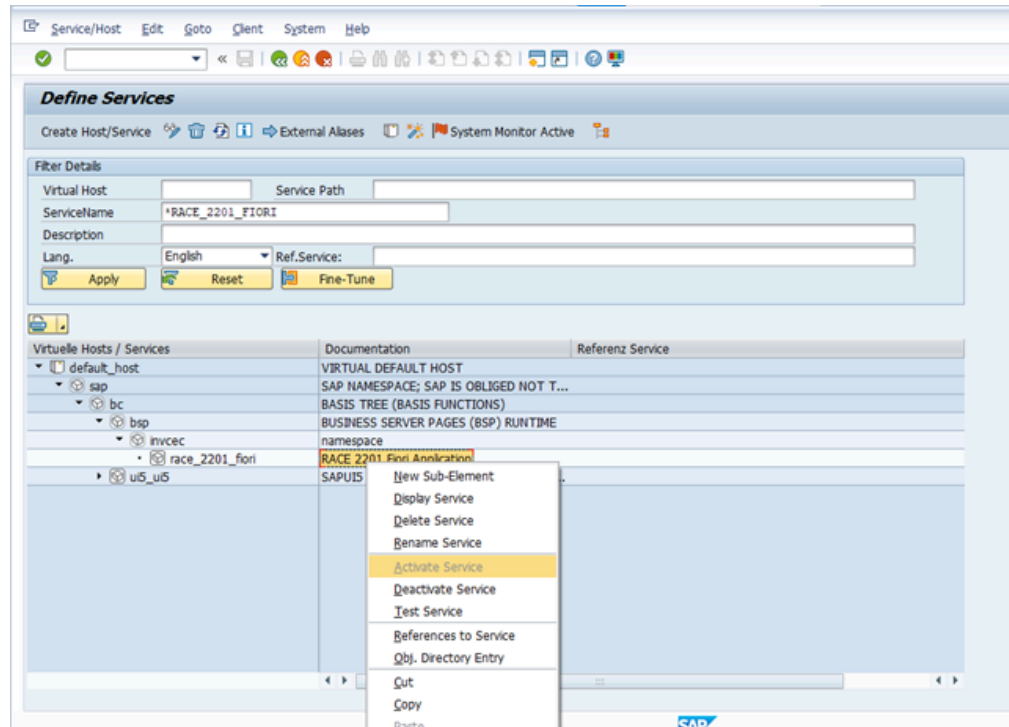
3.6.6. Activate FIORI Service

Activate FIORI service after you have activated UI5 service.

To activate FIORI Service:

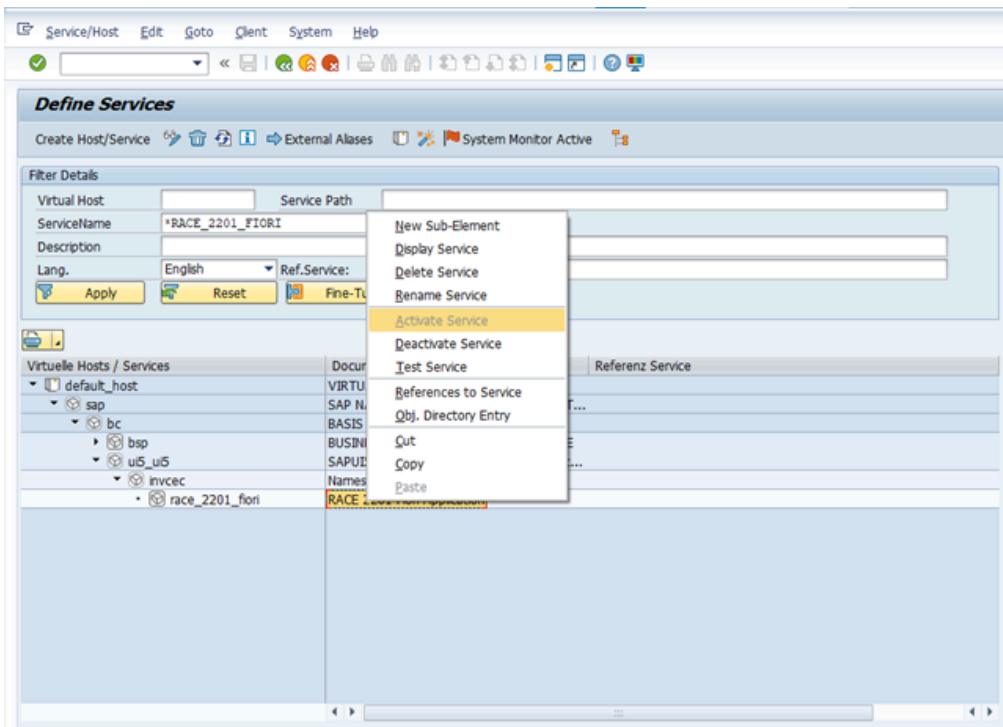
1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/bsp/invcec/race_2201_fiori**.
2. Right-click **RACE 2201 FIORI** and click **Activate Service**.

Figure 3-39 Activate RACE FIORI Service



3. Click **Yes**.
4. Go to **/default_host/sap/bc/ui5_ui5/invcec/race_2201_fiori**.

Figure 3-40 Activate RACE FIORI service



5. Right-click **RACE 2201 FIORI** and click **Activate Service**.
6. Click **Yes**.

Access the SAP Fiori web application by transaction code **/N/UI2/FLP**. You are redirected to the below template URLs to match your SAP NetWeaver Gateway instance:

- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_fiori/index.html?sap-client=100`
- `http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_2201_fiori/index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false`.

4. Install mInventory SAP® ECC and Gateway Add-Ons

Add-On: All the transports of previous releases and the transports of the current release are packaged into a single add-on for the main release. For example, 2003, 2006 and so on. Install the add-on for the current release that is provided by Innovapptive representative.

Transport: Only the changes for that HotFix are packaged into a transport. You MUST install all the transports till date and must install them in the order they are mentioned. Even a single misplaced installation of transport could result in installation errors.



Note:

Ask your Innovapptive contact for the latest add-ons and support-packs and these components will be provided in a compressed file format, such as .zip, .rar, and sent to you either through email or through FTP.

Table 4-1 MIM ECC Add-On and Support Packages:

Type	Add-On	Description	Dependency
Add-On	EZY0021310268_-0000099.PAT	INNOV:MIM:2410 ECC Objects	Install RACE™ Add-On (EZY0021310268_-0000004.PAT) before installing the MIM Add-On (EZY0021310268_-0000099.PAT)
Add-On	EZY0021310268_-00000115.PAT	INNOV:MIM:2411.1 ECC Objects	Install Add-on (EZY0021310268_-0000099.PAT) before installing the MIM Add-On (EZY0021310268_-0000115.PAT)
SP01	EZY0021310268_-00000123.PAT	MIM 2412.1 ECC Add-on	Dependency
SP02	EZY0021310268_-00000125.PAT	MIM 2412.2 ECC Add-on	Dependency

Table 4-1 MIM ECC Add-On and Support Packages: (continued)

Type	Add-On	Description	Dependency
SP03	EZY0021310268_- 00000130.PAT	MIM 2501.1 ECC Add-on	Dependency
SP04	EZY0021310268_- 00000133.PAT	Innov MIM 2501.2 ECC Objects	Dependency
SP05	EZY0021310268_- 00000138.PAT	Innov MIM 2501.3 ECC Objects	Dependency
SP06	EZY0021310268_- 00000142.PAT	MIM 2502.01 ECC Add-on	Dependency
SP07	EZY0021310268_- 00000143.PAT	MIM 2502.02 ECC Add-on	Dependency
SP08	EZY0021310268_- 00000147.PAT	MIM 2503.1 ECC Add-on	Dependency
SP09	EZY0021310268_- 00000149.PAT	MIM 2503.2 ECC Add-on	Dependency
SP10	EZY0021310268_- 00000155.PAT	MIM 2504.2 ECC Add-on	Dependency

Table 4-2 MIM Gateway Add-On and Support Packages

Type	Add-On	Description	Dependency
Add-on	NZY0021310268_- 0000174.PAT	INNOV:MIM:2410 Gateway Objects	Install RACE™ Add-On (NZY0021310268_- 0000006.PAT) before installing the MIM Add-On (NZY0021310268_- 0000174.PAT)

Table 4-2 MIM Gateway Add-On and Support Packages (continued)

Type	Add-On	Description	Dependency
Add-on	NZY0021310268_- 0000181.PAT	MIM 2411 GW Addon	Install Add-On (NZY0021310268_- 0000174.PAT) before in- stalling the MIM Add- On (NZY0021310268_- 0000181.PAT)
SP01	NZY0021310268_- 0000188.PAT	MIM 2412.1 ECC Add-on	Dependency
SP02	NZY0021310268_- 0000190.PAT	MIM 2412.2 ECC Add-on	Dependency
SP03	NZY0021310268_- 0000193.PAT	MIM 2501.1 ECC Add-on	Dependency
SP04	NZY0021310268_- 0000198.PAT	Innov MIM 2501.2 ECC Objects	Dependency
SP05	NZY0021310268_- 0000203.PAT	Innov MIM 2501.3 ECC Objects	Dependency
SP06	NZY0021310268_- 0000205.PAT	MIM 2502.01 ECC Add-on	Dependency
SP07	NZY0021310268_- 0000206.PAT	EZY0021310268_- 00000143.PAT	Dependency
SP08	NZY0021310268_- 0000209.PAT	MIM 2503.1 GW Ad- don	Dependency
SP09	NZY0021310268_- 0000214.PAT	MIM 2503.2 GW Ad- don	Dependency
SP10	NZY0021310268_- 0000220.PAT	MIM 2504.1 GW Ad- don	Dependency

For steps to install Add-ons, see [Install mInventory SAP® ECC and Gateway Add-ons and support packs \(on page 50\)](#).

4.1. Install mInventory SAP® ECC and Gateway Add-ons and support packs

Install the add-ons and support packs at one go using the steps given below. However, if you have already installed add-ons and you want to install the support packs (hotfixes), follow the procedure detailed in [Install mInventory SAP® ECC and Gateway Support packs \(on page 56\)](#).

To install mInventory™ SAP® ECC, Gateway, and UI5 add-ons:

1. Extract the zip or .rar files that you received from Innovapptive representative and save them to your local machine.
2. Upload/copy the Add-On files and Support Packs from software deployment package to the **USR/SAP/TRANS/EPS/in** path on SAP ECC & GW systems.

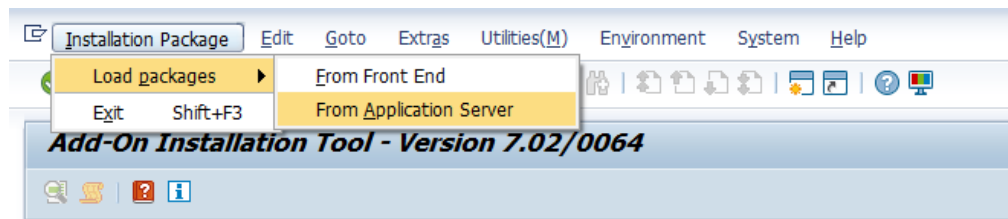


Note:

Upload all the add-ons and support packs that are mentioned in the tables.

3. Log in to **000** clients of SAP GW / ECC System (based on the Add-On being imported).
4. Navigate to the transaction code **SAINT**.
5. Navigate to **Installation Package, Load Packages, From Application Server**.

Figure 4-1 SAINT



6. Click **Yes** in the confirmation screen.

Packages are loaded in the file system

Figure 4-2 SAINT: Upload Packages

SAINT: Uploading Packages from the File System				
Choose... Saving...				
OCS File Name	Package	Result	RC	Message Text
NGA0020732638_0000028.PAT	SAPK-N65COININVCEC		0000	Uploaded successfully

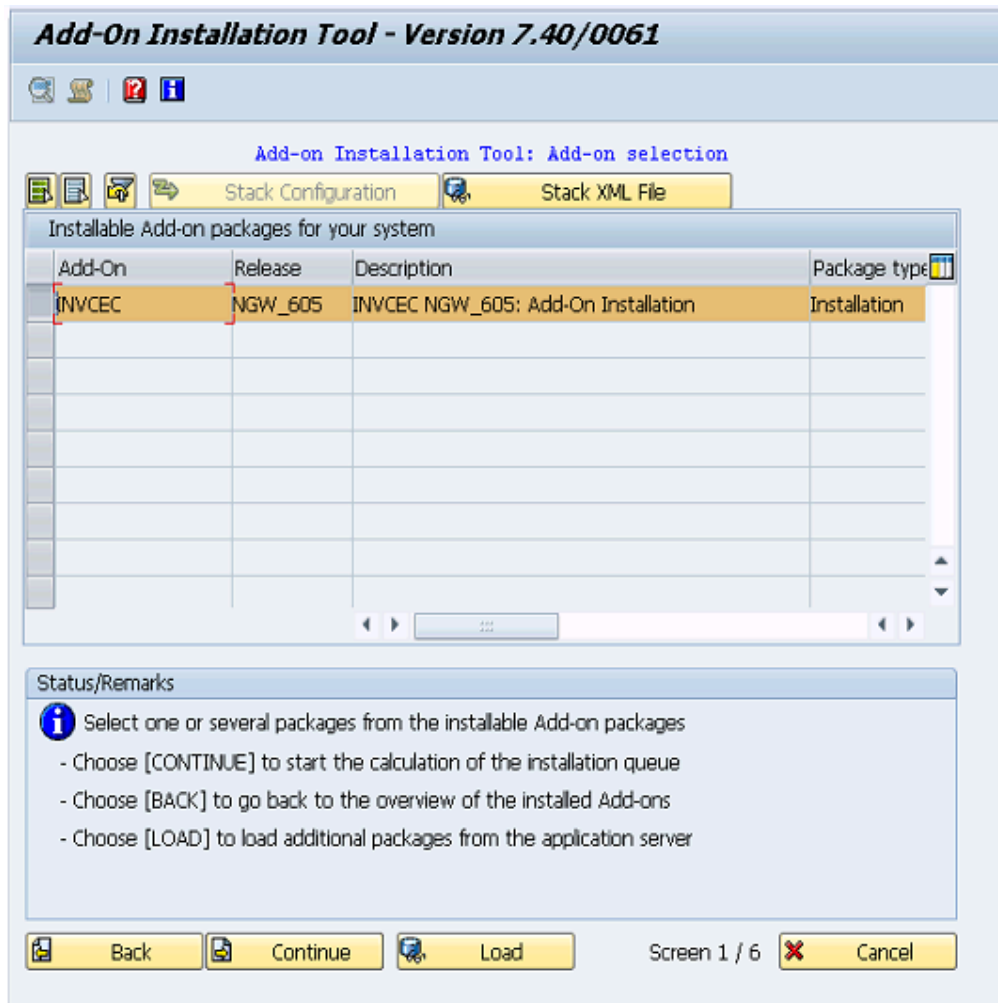
- Once the packages are loaded, go back to the main screen, and click **Start**.

Figure 4-3 Installed Add-ons

Add-On Installation Tool - Version 7.40/0061				
Add-On Installation Tool : Installed Add-ons				
Add-ons and Preconfigured Systems installed in the system				
Add-on/PCS	Release	Level	Description	Import .. 
PI_BASIS	740	0008	Basis Plug-In	OC ☐
SAP_ABA	740	0008	Cross-Application Component	OC
SAP_BASIS	740	0008	SAP Basis Component	OC
SAP_BW	740	0008	SAP Business Warehouse	OC
SAP_GWFND	740	0012	SAP Gateway Foundation 7.40	OC
SAP_UI	740	0009	User Interface Technology 7.40	OC
ST-PI	740	0000	SAP Solution Tools Plug-In	OC
Status/Remarks  The overview shows you the installed Add-ons and Preconfigured systems - Choose [START] to start an installation or an upgrade				
Back Start Cancel				

- Select the Add-On in the next screen and click **Continue**.

Figure 4-4 Select Add-on

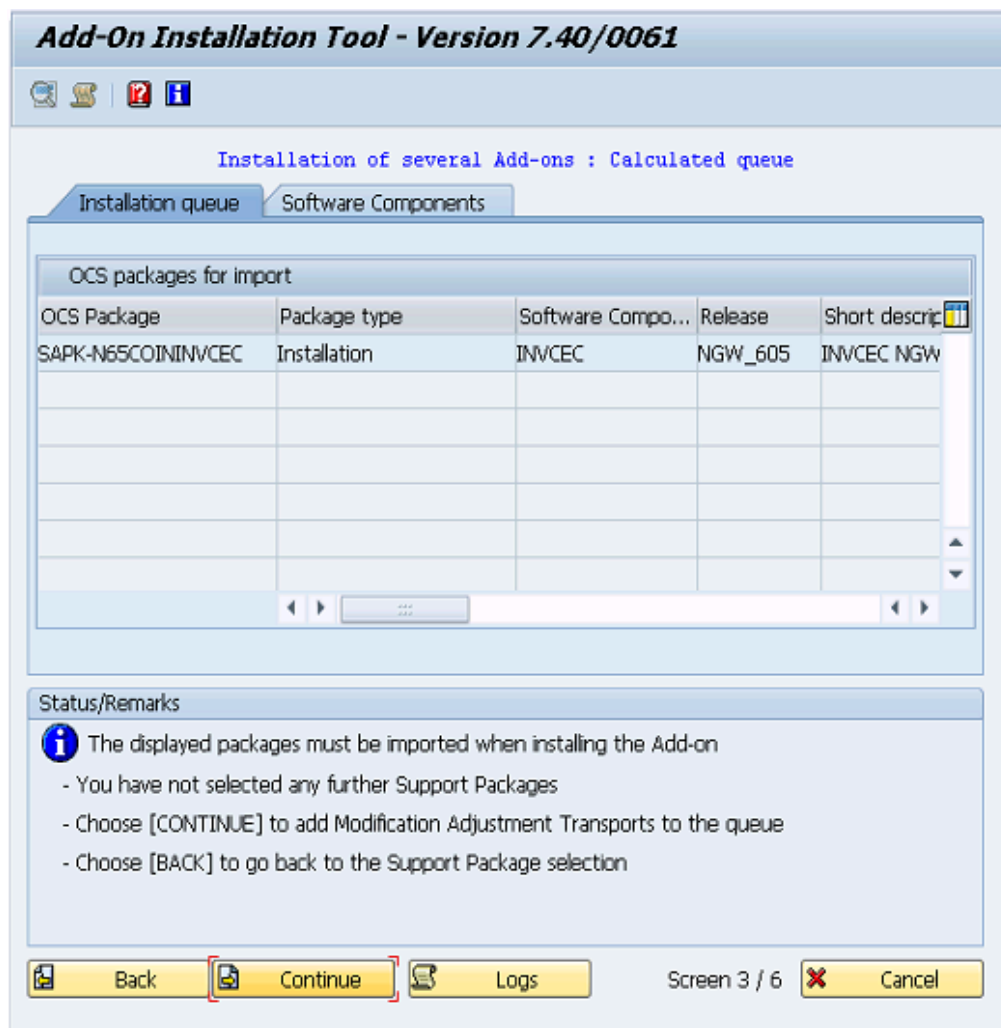


9. Click **Continue** in the next screen.

The OCS packages to be imported are displayed in the next screen.

10. Click **Continue** to proceed to the next step.

Figure 4-5 Add-on Queue



11. Click **No**, when asked to add Modification Adjustment Transports to the queue.
12. Click the **Import**  icon.
13. Click **Finish**.

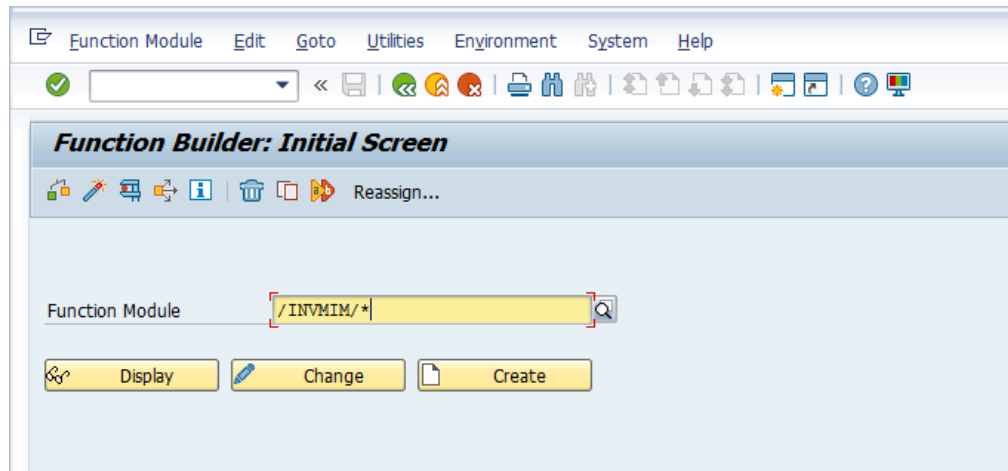
4.1.1. Verify SAP® ECC MIM Add-On

To verify the ECC MIM add-on:

| 4 – Install mInventory SAP® ECC and Gateway Add-Ons

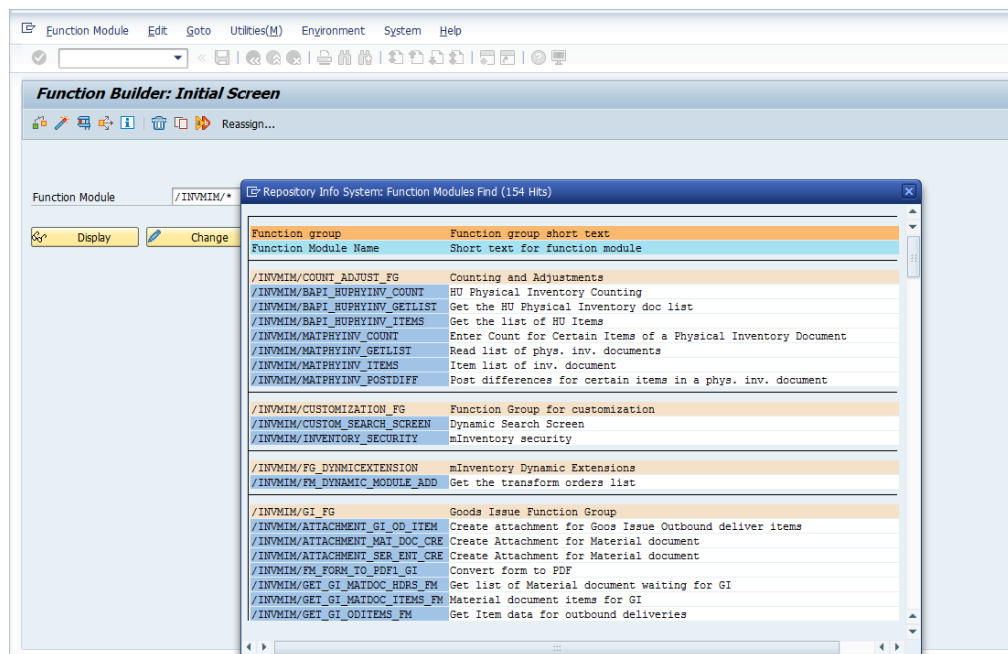
1. Run the transaction code **SE37**.
2. Enter the program name as **/INVMIM/*** in the **Function Module** field.

Figure 4-6 Function Builder Initial Screen



3. Press **<F4>** to view the list of functional modules and capture the screenshot(s) to share the results.

Figure 4-7 Function Modules

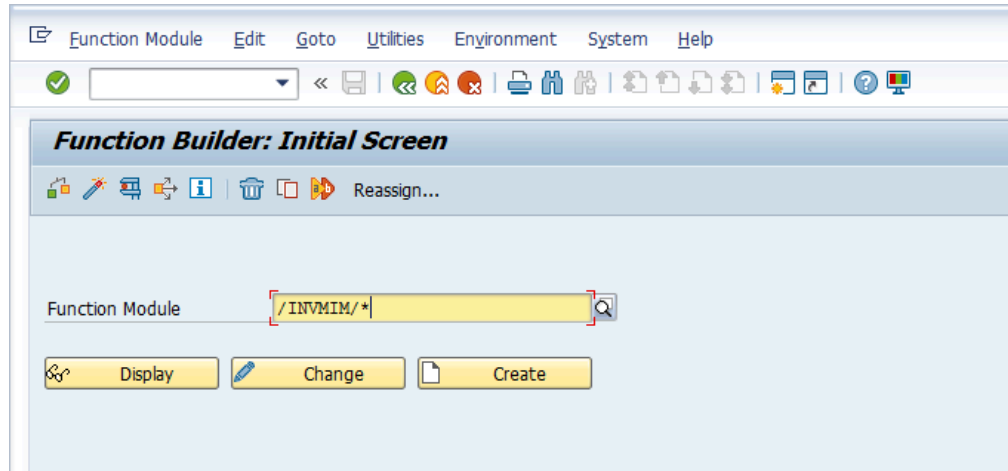


4.1.2. Verify SAP® GW MIM Add-On

To verify the GW MIM add-On:

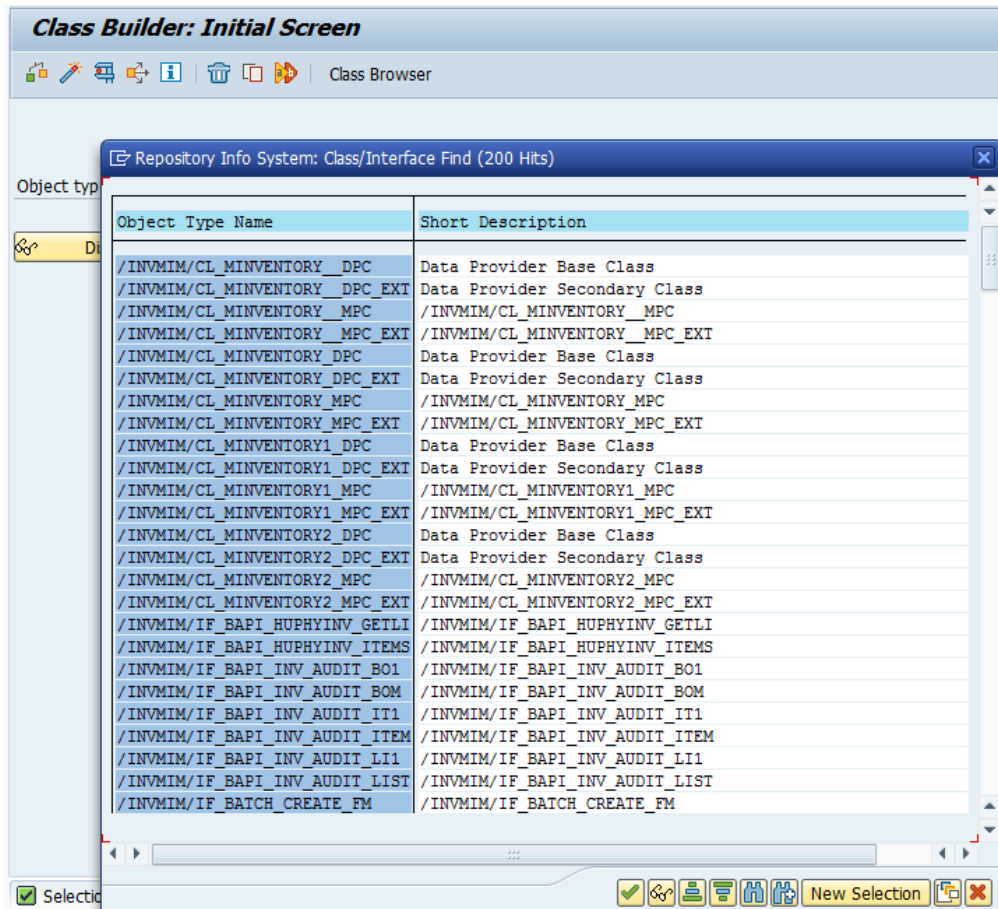
1. Navigate to the transaction code **SE24**.
2. Enter **object type** to search for all objects **/INVMIM/***.

Figure 4-8 Function Builder Initial Screen



3. Press **<F4>** to view the list of classes and capture the screenshot(s) to share the results.

Figure 4-9 Object Classes



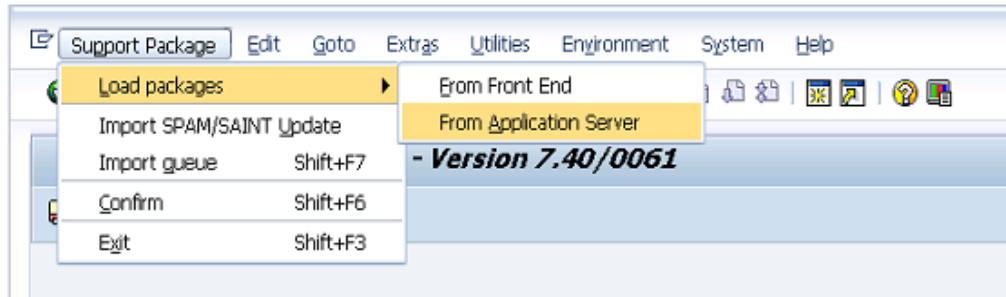
4.2. Install mInventory SAP® ECC and Gateway Support packs

If you have installed the add-ons and are installing only the support pack (hotfixes), follow the steps described below.

To install the mInventory™ SAP® ECC, Gateway, and UI5 support pack:

1. Log in to **000** client of SAP GW & ECC System (based on the support pack being imported).
2. Navigate to the transaction code **SPAM**.
3. Navigate to **Support Package, Load Packages, From Application Server**.

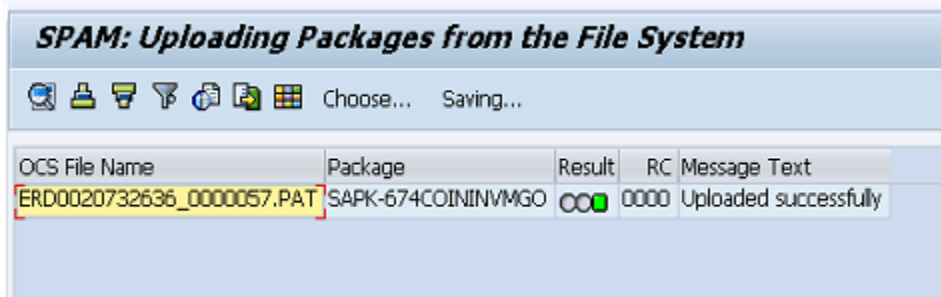
Figure 4-10 SAINT



4. Click **Yes** in the confirmation screen.

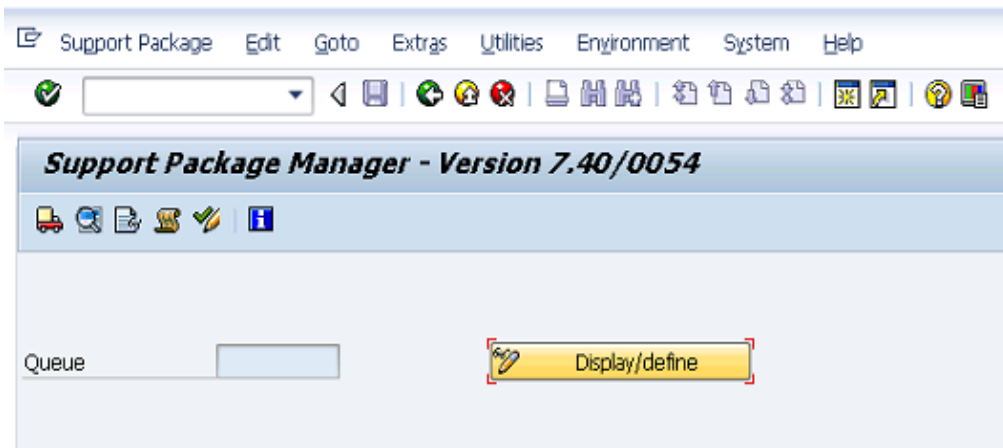
Packages are loaded in the file system

Figure 4-11 SAINT: Upload Packages



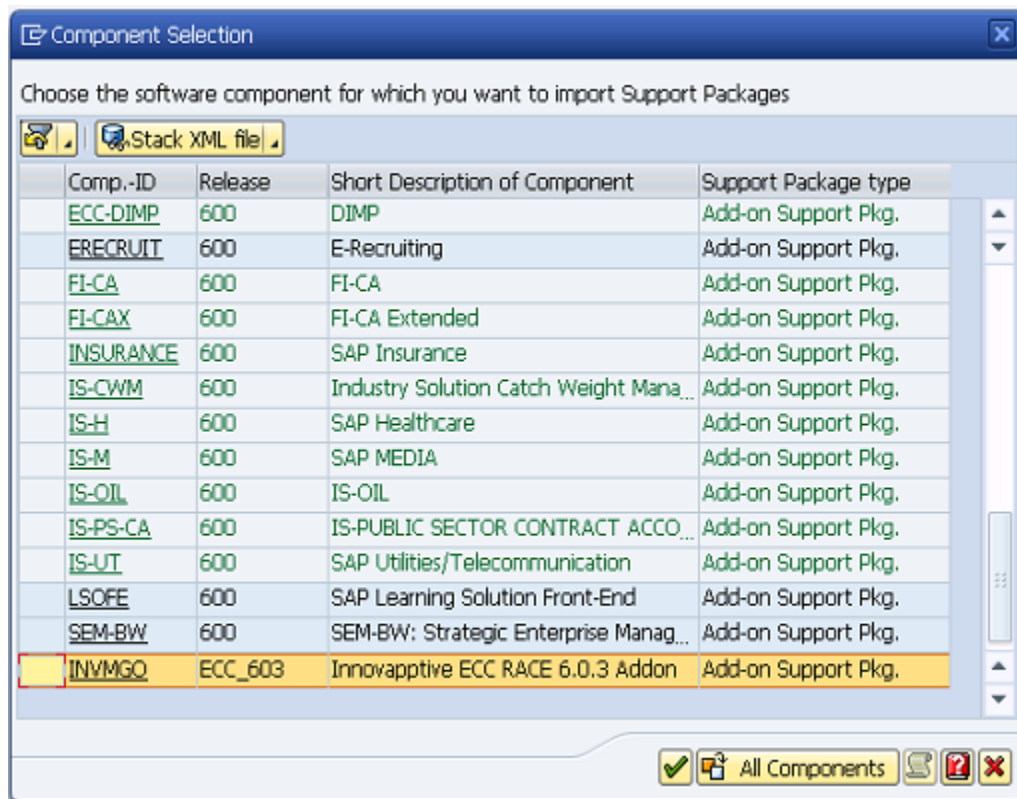
5. Once the packages are loaded, go back to the main screen, and click **Display/define**.

Figure 4-12 Support Package Manager



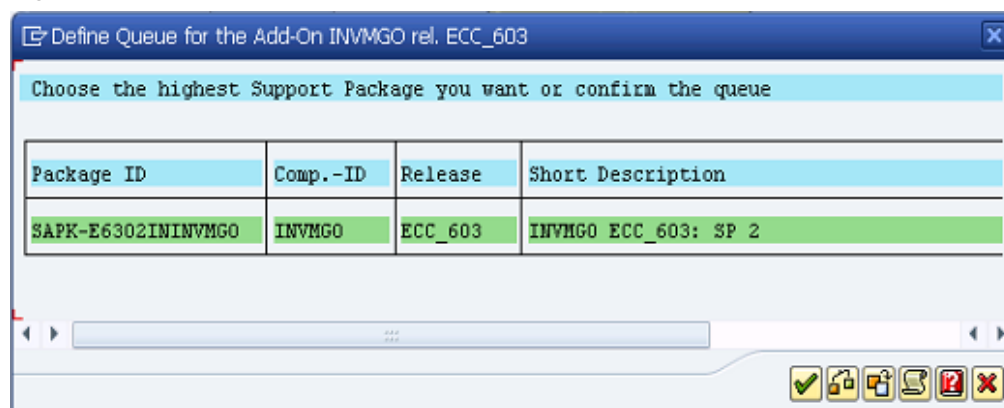
6. Choose the software component for which you want to import Support Packages and click .

Figure 4-13 Component Selection



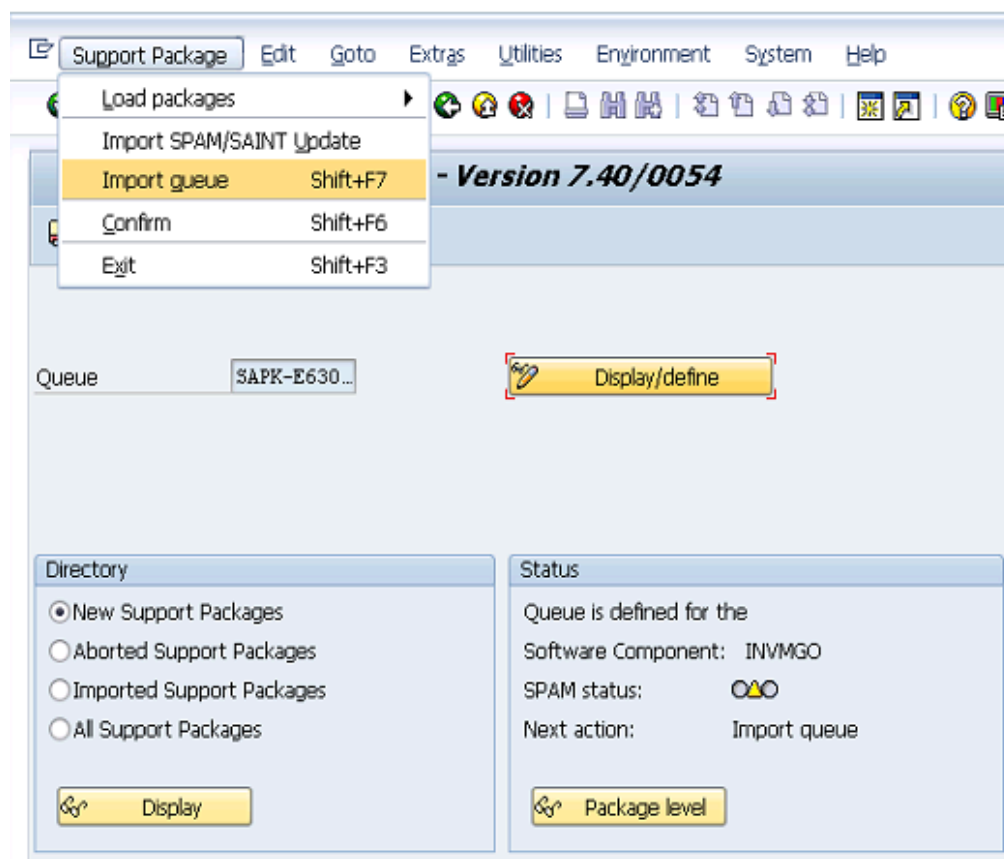
7. If all the conditions are met, and you get the package (**green**) click .

Figure 4-14 Confirm Queue



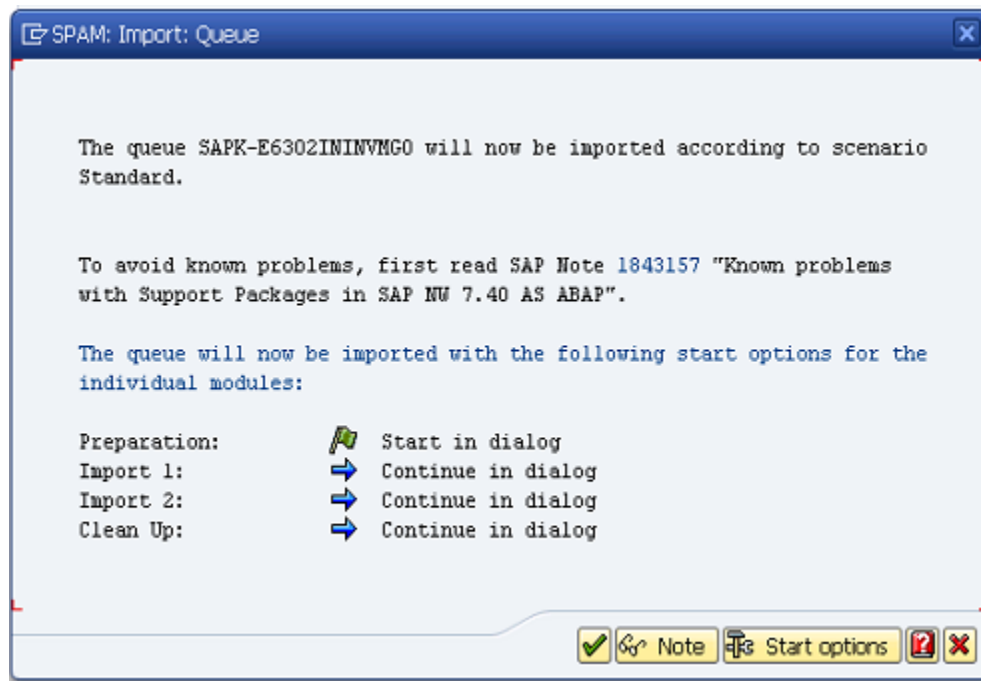
8. Click **No**, when asked to add Modification Adjustment Transports to the queue.
9. Go to **Support package** in the menu bar and click **Import Queue**.

Figure 4-15 Import Queue



10. Click  to start the import process.

Figure 4-16 Import Queue Confirm



11. Once the package is imported, a confirmation screen appears. Click on the screen.

12. Go to **Support Package** in the menu bar and click **Confirm**.

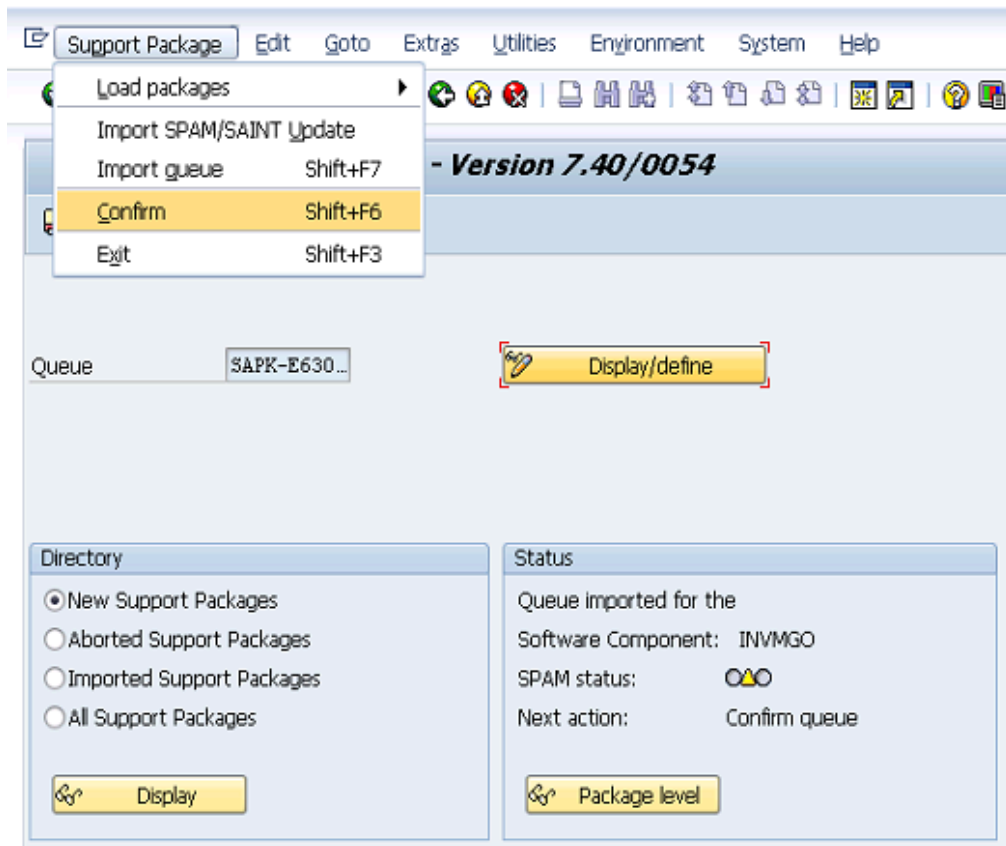
A confirmation message appears.



Note:

If you face any issues/errors while installing the Add-On/Support pack, send log files with screenshots and details of the error to your **Innovapptive SAP Basis team** contact assigned to your project.

Figure 4-17 Confirm Support Package



4.3. Activate mInventory OData Service

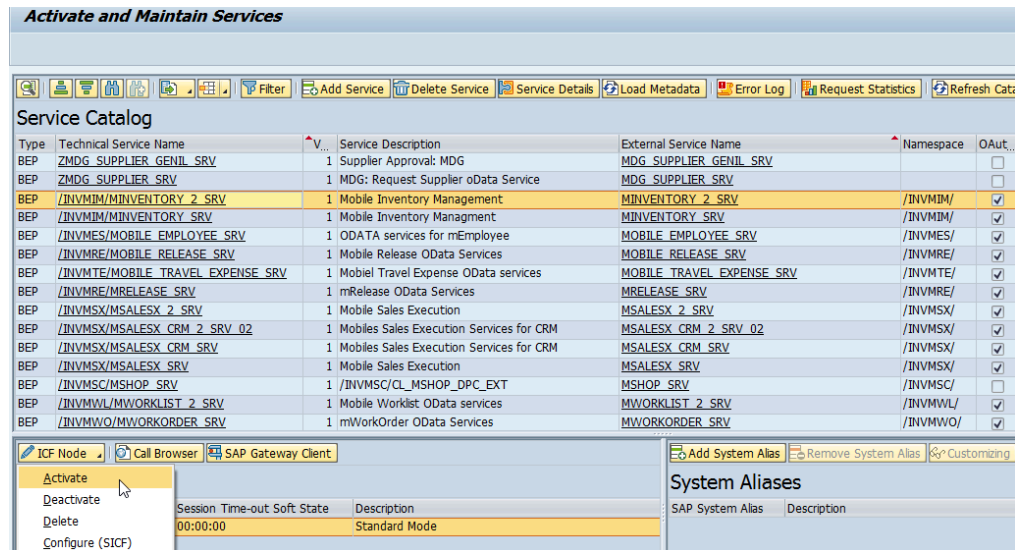
Once add-on and support packs / transports are installed, activate mInventory OData service.

To activate OData services for mInventory:

1. Run transaction **/IWFND/MAINT_SERVICE**.
2. Select the service: **/INVMIM/MINVENTORY_2_SRV**.
3. Click **Activate** from the drop-down list of **ICF Node** options.

A message appears notifying the package selection.

Figure 4-18 Activate and Maintain Services



4. Click the **Local Object** button and continue to activate the service.

The OData service is activated and the status turns **green**.

Figure 4-19 oData Service Activated

Type	Technical Service Name	Service Description	External Service Name	Namespace	OAu...
BEP	ZMDG_SUPPLIER_GENIL_SRV	1 Supplier Approval: MDG	MDG_SUPPLIER_GENIL_SRV		☐
BEP	ZMDG_SUPPLIER_SRV	1 MDG: Request Supplier oData Service	MDG_SUPPLIER_SRV		☐
BEP	/INVMIM/MINVENTORY_2_SRV	1 Mobile Inventory Management	MINVENTORY_2_SRV	/INVMIM/	☒
BEP	/INVMIM/MINVENTORY_SRV	1 Mobile Inventory Management	MINVENTORY_SRV	/INVMIM/	☒
BEP	/INVMES/MOBILE_EMPLOYEE_SRV	1 ODATA services for mEmployee	MOBILE_EMPLOYEE_SRV	/INVMES/	☒
BEP	/INVMRE/MOBILE_RELEASE_SRV	1 Mobile Release OData Services	MOBILE_RELEASE_SRV	/INVMRE/	☒
BEP	/INVMTE/MOBILE_TRAVEL_EXPENSE_SRV	1 Mobiel Travel Expense OData services	MOBILE_TRAVEL_EXPENSE_SRV	/INVMTE/	☒
BEP	/INVMRE/MRELEASE_SRV	1 mRelease OData Services	MRELEASE_SRV	/INVMRE/	☒
BEP	/INVMXS/MSALEX_2_SRV	1 Mobile Sales Execution	MSALEX_2_SRV	/INVMXS/	☒
BEP	/INVMXS/MSALEX_CRM_2_SRV_02	1 Mobiles Sales Execution Services for CRM	MSALEX_CRM_2_SRV_02	/INVMXS/	☒
BEP	/INVMXS/MSALEX_CRM_SRV	1 Mobiles Sales Execution Services for CRM	MSALEX_CRM_SRV	/INVMXS/	☒
BEP	/INVMXS/MSALEX_SRV	1 Mobile Sales Execution	MSALEX_SRV	/INVMXS/	☒
BEP	/INVMSC/MSHOP_SRV	1 /INVMSC/CL_MSHOP_DPC_EXT	MSHOP_SRV	/INVMSC/	☐
BEP	/INVMWL/MWORKLIST_2_SRV	1 Mobile Worklist OData services	MWORKLIST_2_SRV	/INVMWL/	☒
BEP	/INVMWO/MWORKORDER_SRV	1 mWorkOrder OData Services	MWORKORDER_SRV	/INVMWO/	☒

Status	ICF Node	Session Time-out	Soft State	Description
	ODATA	00:00:00		Standard Mode

5. Click **Add System Alias** above **System Aliases** on the right to add the SAP System alias for the selected service.
6. Click **New Entries**.
7. Assign the System Alias for the service and save changes.

4.4. Import mInventory SAP® ECC and Gateway Transports

Innovapptive recommends installing Add-ons instead of importing Transports for an error free installation. However, if you prefer to import Transports, import them in the order listed in the table.



Note:

Ask your Innovapptive contact for the latest transports and these components will be provided in a compressed file format, such as .zip, .rar, and sent to you either through email or through FTP.

Table 4-3 MIM SAP® ECC Transports

Transport	Description	Dependency
ERDK915460	Innov MIM 2410 ECC Objects	Import ERDK913573 before importing ERDK915460

Table 4-3 MIM SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK915569	Innov MIM 2411.1 ECC Objects	Import ERDK915460 before importing ERDK915569
ERDK915679	Innov MIM 2412.1 ECC Objects	Import ERDK915569 before importing ERDK915679
ERDK915684	Innov MIM 2412.2 ECC Objects	Import ERDK915679 before importing ERDK915684
ERDK915796	Innov MIM 2510.1 ECC Objects	Import ERDK915684 before importing ERDK915796
ERDK915800	Innov MIM 2501.02 ECC Objects	Import ERDK915796 before importing ERDK915800
ERDK915860	Innov MIM 2501.3 ECC Objects	Import ERDK915800 before importing ERDK915860
ERDK915939	Innov MIM 2502.01 ECC Objects	Import ERDK915860 before importing ERDK915939
ERDK915975	Innov MIM 2502.02 ECC Objects	Import ERDK915939 before importing ERDK915975
ERDK915995	Innov MIM 2503.01 ECC Objects	Import ERDK915975 before importing ERDK915995

Table 4-4 MIM SAP® Gateway Transports

Transport	Description	Dependency
NGTK912556	Innov MIM 2410 Gateway Objects	Import NG5K903797 before importing NGTK912556
NGTK912989	Innov MIM 2411.1 Gateway Objects	Import NGTK912556 before importing NGTK912989
NGTK913132	Innov MIM 2412.1 Gateway Objects	Import NGTK912989 before importing NGTK913132
NGTK913139	Innov MIM 2412.2 Gateway Objects	Import NGTK913132 before importing NGTK913139

Table 4–4 MIM SAP® Gateway Transports (continued)

Transport	Description	Dependency
NGTK913177	Innov MIM 2510.1 Gateway Objects	Import NGTK913139 before importing NGTK913177
NGTK913208	Innov MIM 2501.2 Gateway Objects	Import NGTK913177 before importing NGTK913208
NGTK913257	Innov MIM 2501.3 Gateway Objects	Import NGTK913208 before importing NGTK913257
NGTK913285	Innov MIM 2502.1 Gateway Objects	Import NGTK913257 before importing NGTK913285
NGTK913307	Innov MIM 2502.2 Gateway Objects	Import NGTK913285 before importing NGTK913307
NGTK913314	Innov MIM 2503.1 Gateway Objects	Import NGTK913307 before importing NGTK913314

For steps to import Transports, see [Import Transports \(on page 35\)](#).

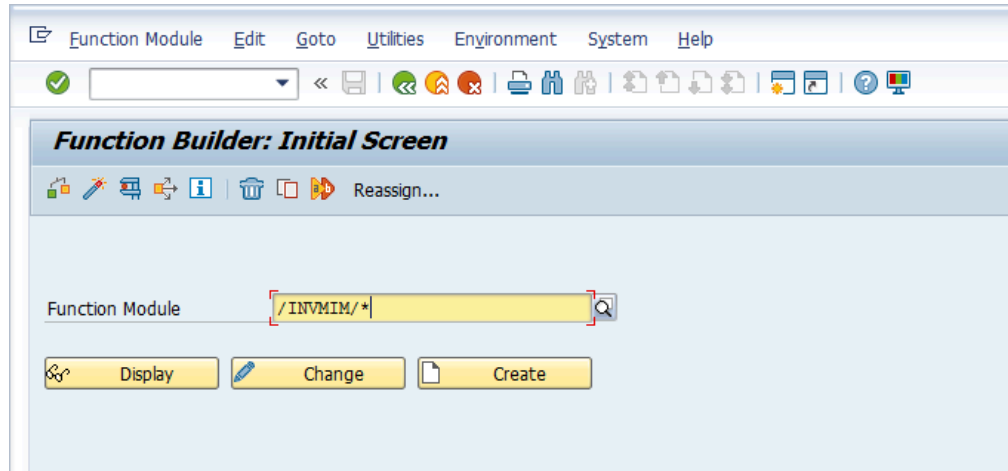
4.4.1. Verify SAP® ECC MIM Transport

If you have imported SAP® ECC MIM Transport, verify whether it was successful.

To verify the SAP® ECC MIM Transport:

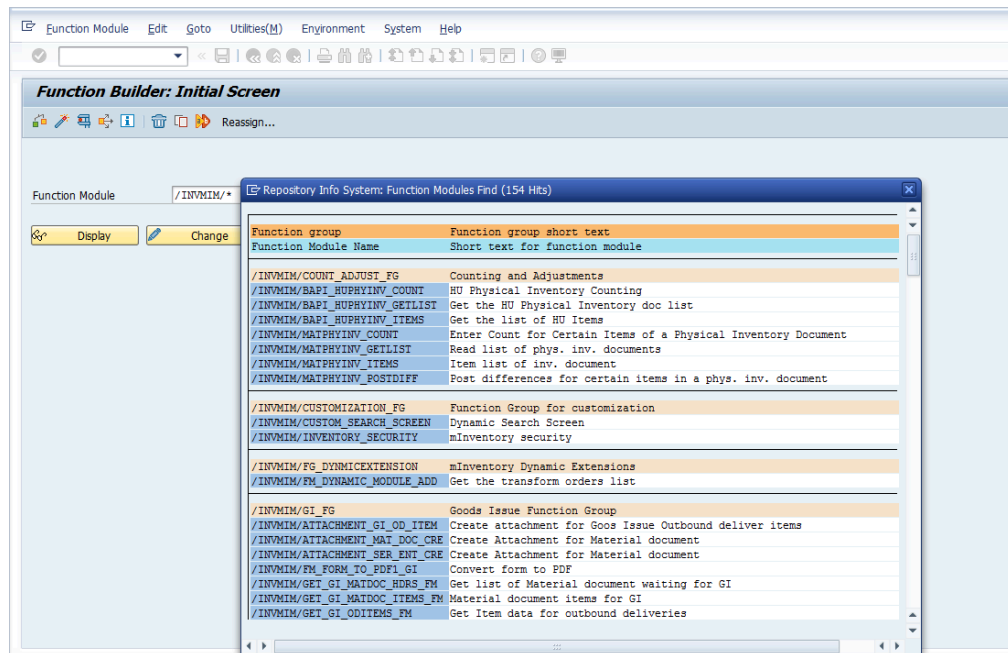
1. Run the transaction code **SE37**.
2. Enter the program name as **/INVMIM/*** in the **Function Module** field.

Figure 4-20 Function Builder Initial Screen



3. Press **<F4>** to view the list of functional modules and capture the screenshot(s).

Figure 4-21 Function Module Classes



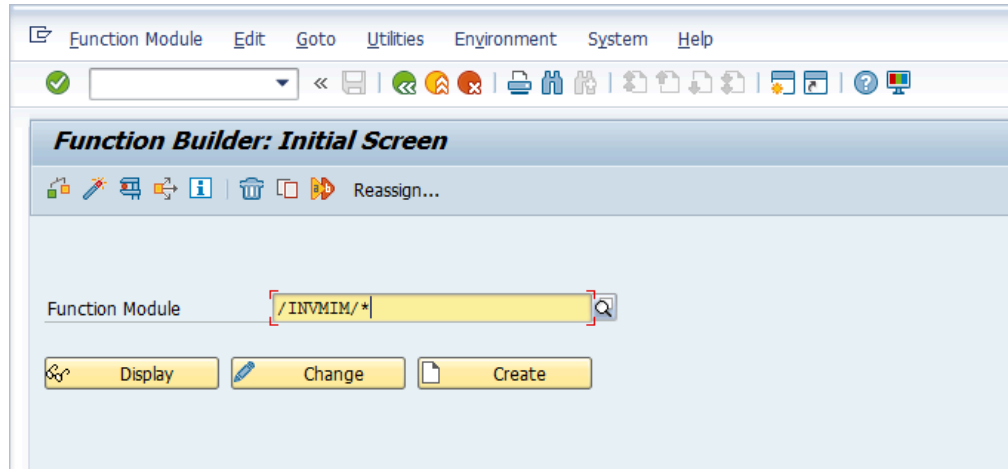
4.4.2. Verify SAP® GW MIM Transport

If you have imported SAP® GW MIM Transport, verify whether it was successful.

To verify the SAP® GW MIM Transport:

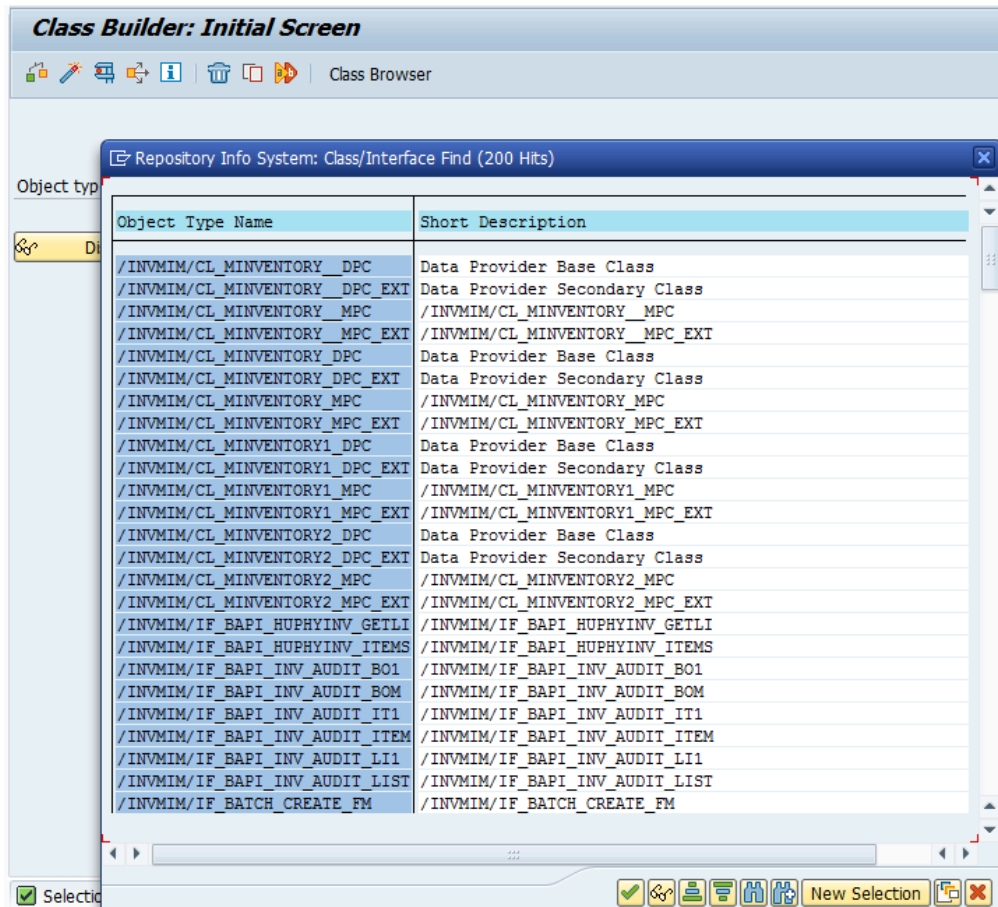
1. Navigate to the transaction code **SE24**.
2. Enter **object type** to search for all objects **/INVMIM/***.

Figure 4-22 Function Builder Initial Screen



3. Press **<F4>** to view the list of classes and capture the screenshot(s) to share the results.

Figure 4-23 Object Classes



4.4.3. Activate mInventory OData Service

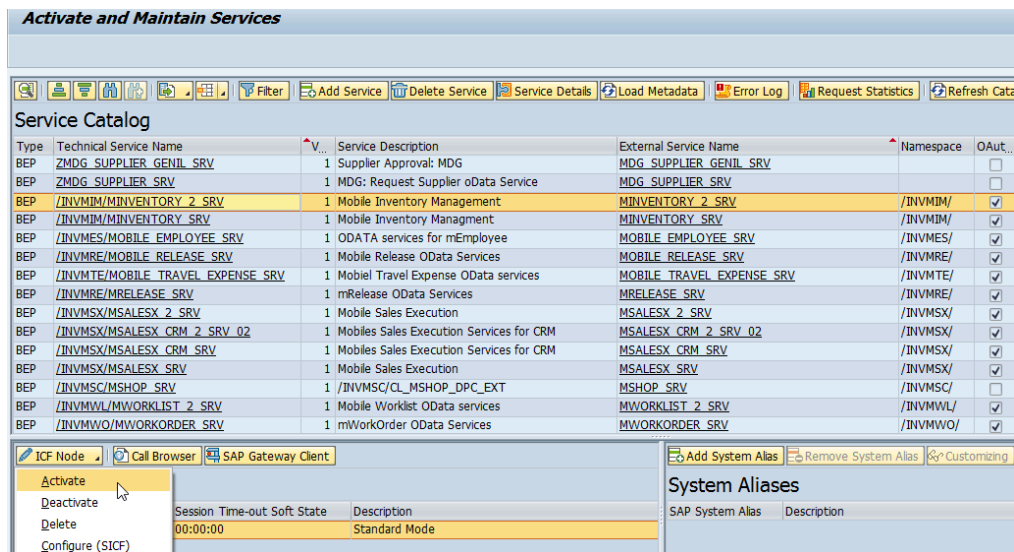
Once add-on and support packs / transports are installed, activate mInventory OData service.

To activate OData services for mInventory:

1. Run transaction **/IWFND/MAINT_SERVICE**.
2. Select the service: **/INVMIM/MINVENTORY_2_SRV**.
3. Click **Activate** from the drop-down list of **ICF Node** options.

A message appears notifying the package selection.

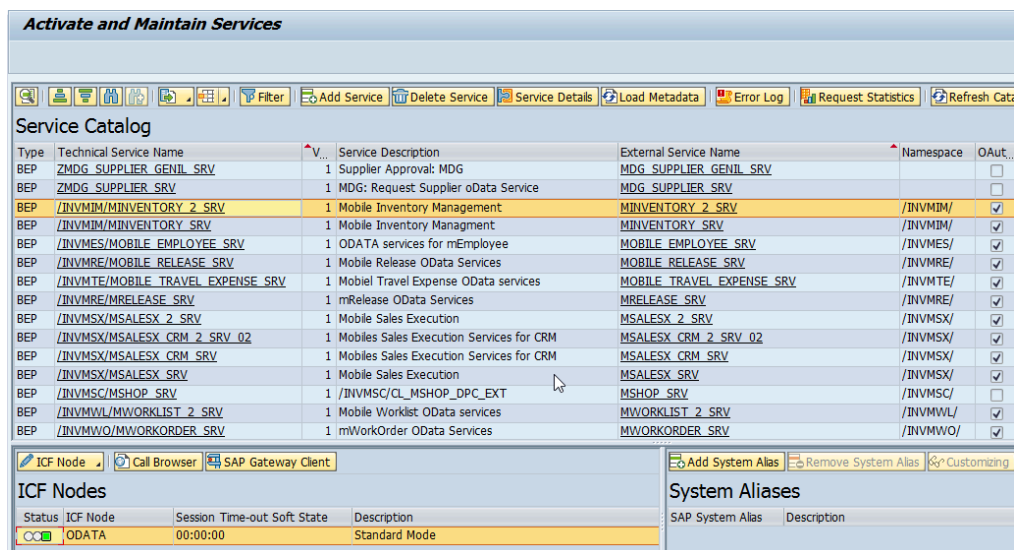
Figure 4-24 Activate and Maintain Services



4. Click the **Local Object** button and continue to activate the service.

The OData service is activated and the status turns **green**.

Figure 4-25 oData Service Activated



5. Click **Add System Alias** above **System Aliases** on the right to add the SAP System alias for the selected service.

6. Click **New Entries**.

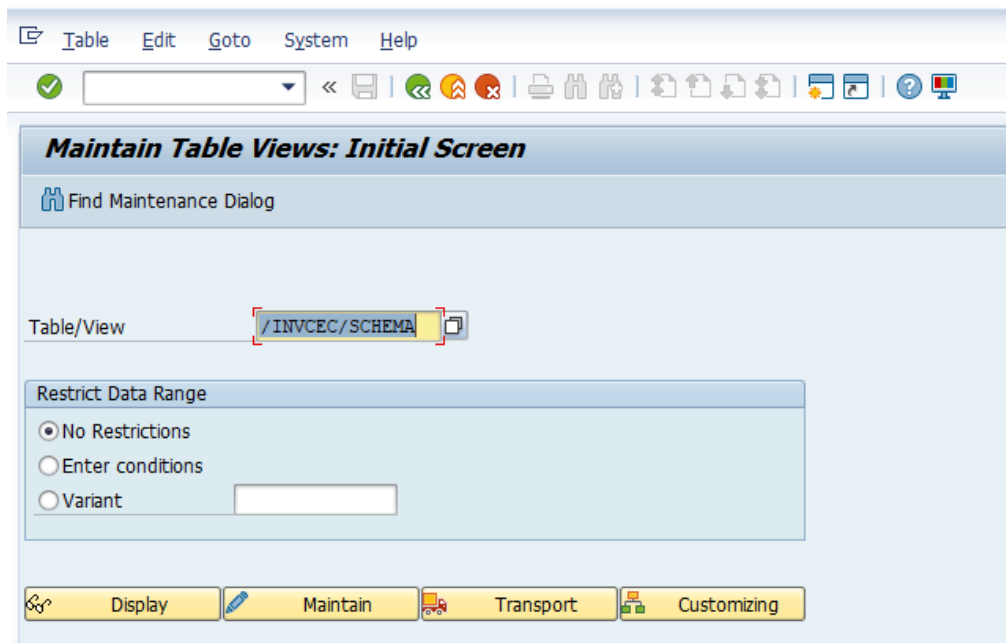
7. Assign the System Alias for the service and save changes.

5. Check Schema Change Indicator

After importing support packs into the systems, perform the following steps to check the Schema Change Indicator.

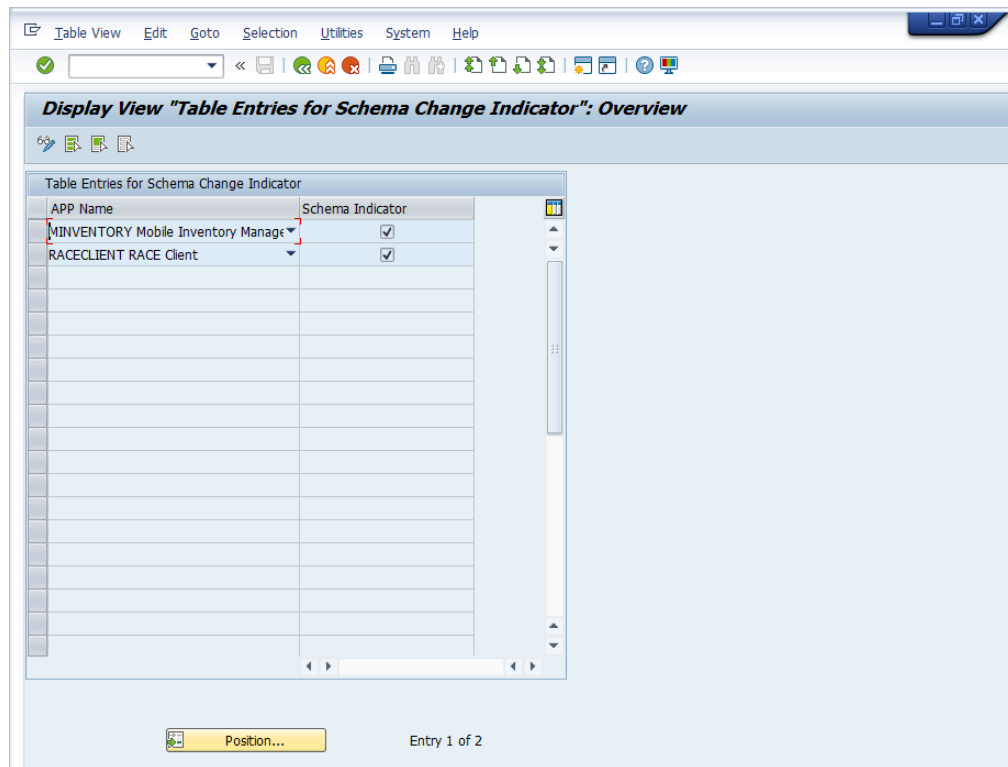
1. Login to SAP Gateway system.
2. Go to **tcode – SM30**.

Figure 5-1 SM30



3. Click **Maintain**.
4. Click **New Entries**.

Figure 5-2 Table Entries for Schema Change Indicator



5. Select RACE™ Client and mInventory from App Name drop-down and select **Schema Indicator** checkbox.
6. Save the changes in Transport Request to move the changes to Quality and Production environment.

Table 5-1 Schema Details

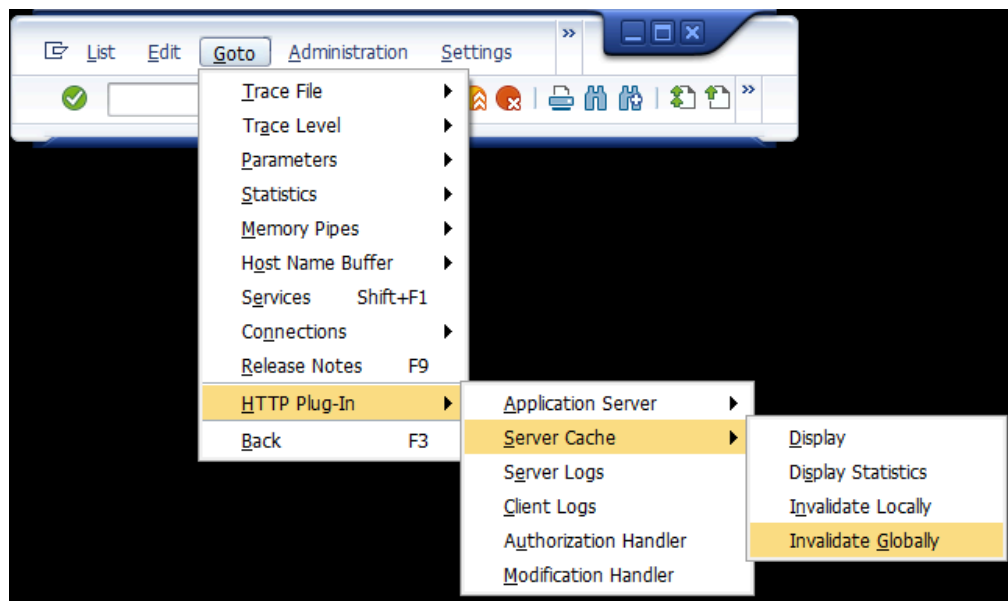
Base URL	Old Schema	New Schema
/INVCEC/RACE_SRV	/INVCEC/RACE_SRV	RACECLIENT
INVMIM/MINVENTORY_2_-SRV/	INVMIM/MINVENTORY_2_-SRV/	MINVENTORY

6. SAP Gateway cache clean up

Clean up the SAP Gateway Cache after importing support packs into the systems.

1. Login to SAP Gateway system.
2. Go to transaction `/n/iwfnf/cache_cleanup` in the gateway system.
3. Select the **Cleanup Cache for all Models** checkbox and click **Execute**.
4. Go to transaction `/n/iwbep/cache_cleanup` in the gateway system.
5. Select the **Cleanup Cache for all Models** checkbox and click **Execute**.
6. Go to transaction `smicm` in the gateway system.
7. Navigate to **Goto, HTTP Plugin, Server Cache** and **Invalidate Globally** option.

Figure 6-1 smicm transaction



8. Click **Yes**.

7. Configure SAP Gateway for mInventory

SAP Material Management (MM) users can use mInventory to do the following:

- Do stock availability checks across plants, storage locations, warehouse storage bins, and so on.
- Receive goods using Purchase Orders, Inbound and Outbound Deliveries, Material Document, and so on.
- Issue goods using Stock Transfer Orders, Outbound Deliveries, and Work Orders.
- Ensure physical inventory cycle counting and adjustments of materials and storage bins.
- Transfer postings across plants, bins, and so on, and transfer order confirmations.
- Manage inbound and outbound transactions, such as picking, packing, and put away.
- Scan Barcodes and QR codes to execute inventory and warehouse transactions.

7.1. Prerequisites for SAP Gateway Configuration

Ensure these components are installed and configured:

- Dependency
 - Innovapptive Add-Ons and Support Packs.
- Assumptions
 - The backend processes required for the app are enabled and related data is set up.
 - mInventory Add-on for SAP ECC and SAP NetWeaver Gateway are installed and validated.
 - Mobile platform (SAP Mobile Platform or SAP Cloud Platform mobile services) is configured with the mobile application.

7.2. Map source and destination systems for mInventory

Set up the source and destination systems.

For example, if ECC is your source system and gateway is your destination system, map the IDs of respective systems.

1. Run T-Code `//INVMGO/SYSTEMS`.
2. Add the following entries in the table for mInventory:

Table 7-1 Application global configuration attributes

Field	Description
CLIENT	Client number of SAP system.
SYSTEM ID	System ID name of source SAP system.
SYSTEM NAME	System name of destination SAP system.
DESTINATION	Destination RFC ID.

7.3. Configure stock categories for Stock Overview

Configure Stock categories such as Unrestricted, Blocked, Quality Inspection. Once configured these categories appear in the Stock Overview module of mInventory.

To configure the categories:

1. Enter table `//INVMIM/STOCKTYP` using **SM30** transaction.
2. Add the following entries to view the project stock:

Table 7-2 Attributes for Stock Category

Field	Description
FIELD NAME IN BAPI	BAPI field name of stock category.
FIELD NAME IN TABLE	Field name of table for stock category.
STOCK DESCRIPTION	Description of the stock type to be displayed on app.

Field	Description
ACTIVE	Mark this field as X to display on the mobile app.
UI POSITION	Sequence for UI fields on app.

Figure 7-1 Table for Stock Categories

Display View "Table for list of stock categories": Overview

Field Name in B...	Field Name in...	Stock Desc	Active	UI Position	Screen Name
CHARG	CHARG	Batch Number		6	PROJECT_STOCK
LGSRT	LGSRT	Storage Location		7	PROJECT_STOCK
MATNR	MATNR	Material Number		8	PROJECT_STOCK
FREIN	FREIN	Restricted Use	X	4	PROJECT_STOCK
FRINS	FRINS	Qual. Inspection	X	2	PROJECT_STOCK
FRLAB	FRLAB	Unrestricted Use	X	1	PROJECT_STOCK
PRSFE	PRSFE	Blocked	X	3	PROJECT_STOCK
PSPOR	PSPOR	Work Breakdown St...		5	PROJECT_STOCK
WERKS	WERKS	Plant		9	PROJECT_STOCK

Figure 7-2 Stock Type configuration attributes

Data Browser: Table /INVMIM/STOCKTYP Select Entries 44

MANIDT	STOCKTYPE	STOCKDESC	ACTIVE	UI_POSITION
800	BLKD_CONSI	Blocked Consignment Stock		
800	BLKD_GR	Blocked Stock from Goods Receipt		
800	BLKD_RETURNS	Blocked Stock Returns	X	6
800	BLKD_STKC	Blocked Stock	X	5
800	CONSIGD_ORD	Consignment order		
800	CONSIGD_QUAL_INSP	Consignment Stock in Quality Inspection		
800	CONTRACTS	Contracts		
800	DELIVERY	Deliveries		
800	DENOMINATR	Denominator for conversion to base units		
800	DEP_REQMTS	Dependent requirements		
800	FIXED_ISSUES	Total of promised issues		
800	FIXED_RECPT	Total of promised receipts		
800	FOC_DELIVERY	Deliveries free of charge	X	10
800	FORECAST_REQ	Forecast requirements		
800	IND_REQMTS	Planned independent requirements		
800	NUMERATOR	Numerator for Conversion to Base Units o		
800	ORDERS	Orders		
800	PLND_ORDER	Planned orders		
800	PL_ISSUES	Total of planned issues		
800	PL_RECEIPT	Total of planned receipts		
800	PROD_ORDER	Production orders in total		
800	PUR_ORDERS	On-Order stock	X	4
800	PUR_REQ	Purchase requisitions		
800	QUAL_INSPECTION	Stock in Quality Inspection	X	2
800	QUAL_INSP_VENDOR	Stock in quality inspection at vendors		
800	QUOTATIONS	Quotations		
800	RFC_DEPEND	Total quantity of the recent dependent		

7.4. Configure output types for Label Printing

Configure Output types for label printing in Goods Receiving and Goods Issue modules

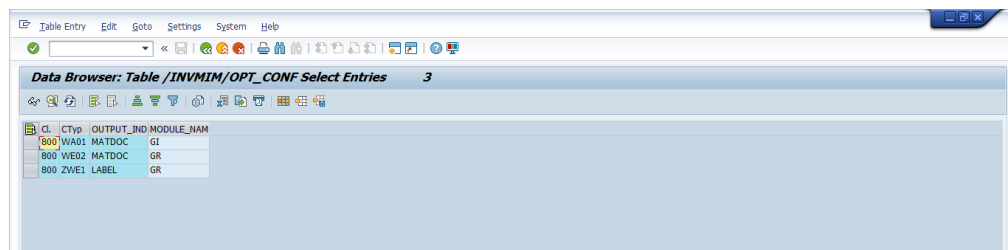
To configure output types for Label Printing:

1. Enter table `/INVMIM/OPT_CONF` using **SM30** transaction.
2. Add the following entries in the table:

Table 7-3 Label Printing Output Type attributes

Field	Description
OUTPUT_TYPE	Enter the Condition Type.
OUTPUT_INDICATOR	Enter the Output indicator.
MODULE_NAME	Enter the Module Name.

Figure 7-3 Label Printing Output Types



The screenshot shows the SAP Data Browser interface for the table `/INVMIM/OPT_CONF`. The table has three columns: `CL`, `CTyp`, and `OUTPUT_IND MODULE_NAME`. There are three entries in the table:

CL	CTyp	OUTPUT_IND MODULE_NAME
800	WA01	MATDOC G1
800	WE02	MATDOC GR
800	ZWE1	LABEL GR

7.5. SAP Log Table for failed transactions when in Offline mode

View the logs of transactions that failed when the device is not connected to the network, in the `/n/INVMGO/OFFOTLOG` report.

Reason for failure is displayed for each transaction. You can delete/clean the old records using the **Delete Indicator** checkbox.

Figure 7-4 Error Log Table history Filters

Error log table history

Application name: mInventory

Module Name:

User ID: MINVENTORY1

Date: 16.03.2019 to

☐ Delete Indicator

Figure 7-5 Error Log Table history

Error log table history

Application Name	Module Name	Keyfields	Created By	Date	Message	Status
MINVENTORY	Service Confirmation		MINVENTORY1	20.190.311.022.448	(E):Service 3000000000018: quantity 1.234.568,000 exceeds quantity 20,000 in purchase order.	F
MINVENTORY	Service Confirmation		MINVENTORY1	20.190.312.020.818	(E):Service description (number, short text) missing in line 0000000010.	F
MINVENTORY	Service Confirmation		MINVENTORY1	20.190.312.024.300	(E):Service VegMgmt - Herbicide: no overall limit for unpl. services amounting to 4.938.271,56 exists.	F
MINVENTORY	Service Confirmation		MINVENTORY1	170.911.000.000	(E):Service description (number, short text) missing in line 0000000010.	F
MINVENTORY	Service Confirmation		MINVENTORY1	20.190.312.024.142	(E):Service VegMgmt - Herbicide: no overall limit for unpl. services amounting to 4.938.271,56 exists.	F
MINVENTORY	Service Confirmation		MINVENTORY1	20.190.312.024.523	(E):Service description (number, short text) missing in line 0000000010.	F

All the entries are stored in SAP ECC custom table /INVMGO/OFFOTLOG.

Figure 7-6 Offline Outbox Log details

Display of Entries Found

Table to be searched: /INVMGO/OFFOTLOG Offline outbox log details

Number of hits: 213

Runtime: 0 Maximum no. of hits: 500

Transaction ID	Serial Number	App Name	Module Name	KeyFields	Transaction name	AppID
0.1692458206093308	1	MINVENTORY	Material Master		0.1692458206093308	APP160
0.1692458206093308	2	MINVENTORY	Material Master		0.1692458206093308	APP160
0.1692458206093308	3	MINVENTORY	Material Master		0.1692458206093308	APP160
0.1692458206093308	4	MINVENTORY	Material Master		0.1692458206093308	APP160
0.1692458206093308	5	MINVENTORY	Material Master		0.1692458206093308	APP160
0.41007743121195983	2	MINVENTORY	Material Master		0.41007743121195983	APP160
0.41007743121195983	3	MINVENTORY	Material Master		0.41007743121195983	APP160
0.41007743121195983	4	MINVENTORY	Material Master		0.41007743121195983	APP160
0.41007743121195983	5	MINVENTORY	Material Master		0.41007743121195983	APP160
0.41007743121195983	1	MINVENTORY	Material Master		0.41007743121195983	APP160
0.4768458892838072	1	MINVENTORY	Material Master		0.4768458892838072	APP160

7.6. Enable Ping ID support for iOS

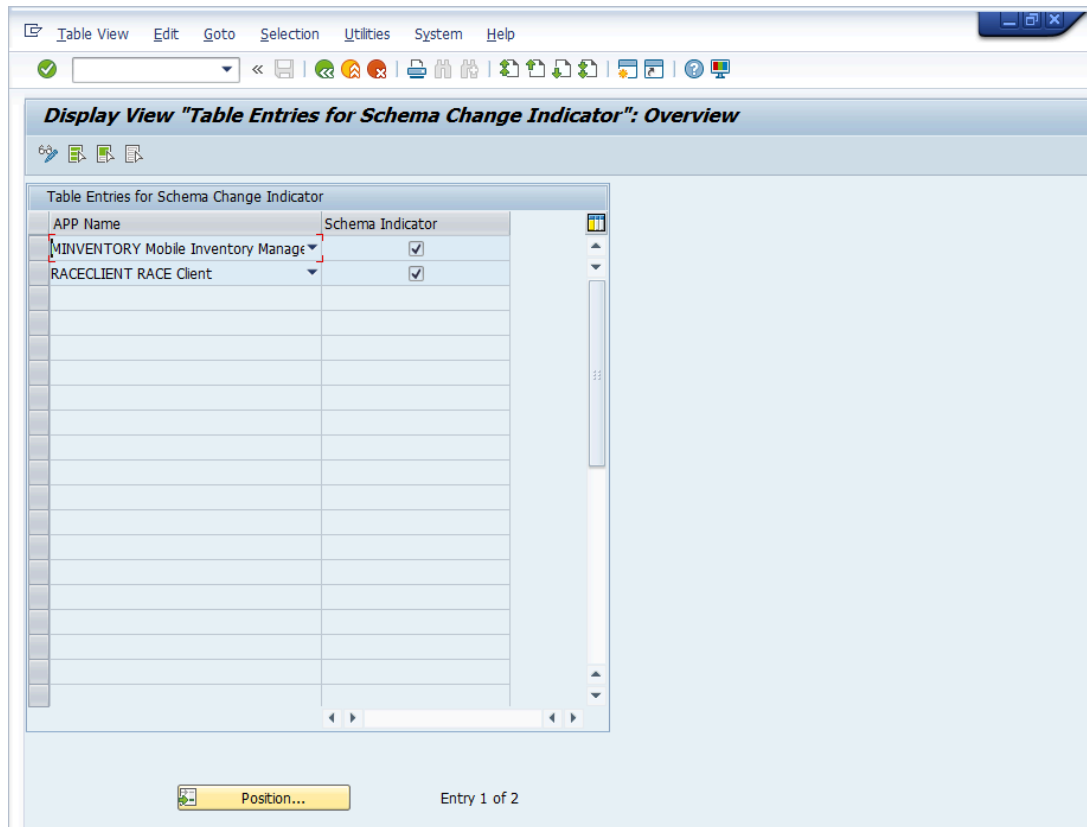
The issue with Ping ID (for iPad) that occurred in SMP 3.0 SP14 library is rectified in SP16 library. However, the existing backend schema code (with forward slash) does not support the SP16 version. Changes are implemented in the backend and UI across the application.

Maintain the following entries in the gateway table using t-code `/n/INVCEC/SCHEMA`.

Table 7-4 Entries for Schema Change Indicator

App Name	Schema Indicator
MINVENTORY	Yes
RACECLIENT	Yes

Figure 7-7 Table Entries for Schema Change Indicator



7.7. Configure SAP HR Master Data

Configure master data for user details like user ID, username, and user profile photo in SAP. These details are displayed on User Profile screen of the application.

Following steps guide you to configure master data:

1. Go to the transaction **PA40**.
2. Select create new assignment in **Personnel Actions**.

Figure 7-8 Personnel Actions

Action Type	Personn...	EE group	EE subg...
Org.mgmt - mini master (CATT)			
Create New Assignment			
Org.mgmt - mini master (CATT)			
Hiring - addition			
Supplementary IT			
Re-entry into Company			
Hiring HR050			
Hiring HR305			
Hiring HR505			
Change of Position			
Return from S-Term Disability			
Planning Global Assignment			

3. Click on execute  or Press F8.
4. Enter **Start Date**, **Last Name**, **First Name** and **Personnel Area**.
5. Click **Save**.
Personnel Number record is created.
6. Go to transaction **PA30**.
7. Assign Personnel No. to Employee ID (which should be created by Basis in SAP).
8. Enter **Infotype** as 0105 and **Sub type** as 0001.
9. Click **Create**.
10. Enter SAP User ID/number.

Figure 7-9 Create Communication

11. Click **Save**.
12. Go to **PA0105** table and review the details.

Figure 7-10 PA0105 table

PersNo.	STy.	ObjID	LI End Date	Start Date	RNo	Reserved Field/Unused Field	Reserved Field/Unused Field of Length 2	Reserved Field/Unused Field of Length 2	Grp Value	Type	ID/number	Long ID
80033	0001		31.12.9999	01.01.2019						0001	MINVENTORY1	

13. Go to **OAAD** transaction to upload the profile photo to the Personnel Number.
14. Click **Store and Assign**.
15. Enter **Business Object** and **Document Type**.
16. Click **Create**.
17. Enter **Personnel Number** and **Infotype** as 0006.

Figure 7-11 Key for SAP Document

The screenshot shows the 'ArchiveLink: Store and Assign' dialog box. It has a title bar with the text 'ArchiveLink: Store and Assign'. Below the title bar is a document icon. The main area contains a 'Target object' section with a 'Business object' field set to 'PREL'. A sub-dialog box titled 'Key for SAP document' is open over the main dialog. This sub-dialog has a close button (X) in the top right corner. It contains the following fields: 'Personnel Number' with the value '00080033', 'Infotype' with the value '0006', 'Subtype' (empty), 'Object ID' (empty), and 'Date of Origin' (empty). At the bottom of the sub-dialog are three buttons: a green checkmark button, a yellow button with a magnifying glass icon and the text 'Object', and a red 'X' button. The main dialog also has a 'Link' section with a 'Bus' field, an 'Obj' field, a 'Doc' field, a 'Cor' field, another 'Doc' field, and a 'Doc. class' field.

18. Click **OK**.
19. Browse the profile photo and click **Open**.
20. Review the profile photo using **PA30** transaction.

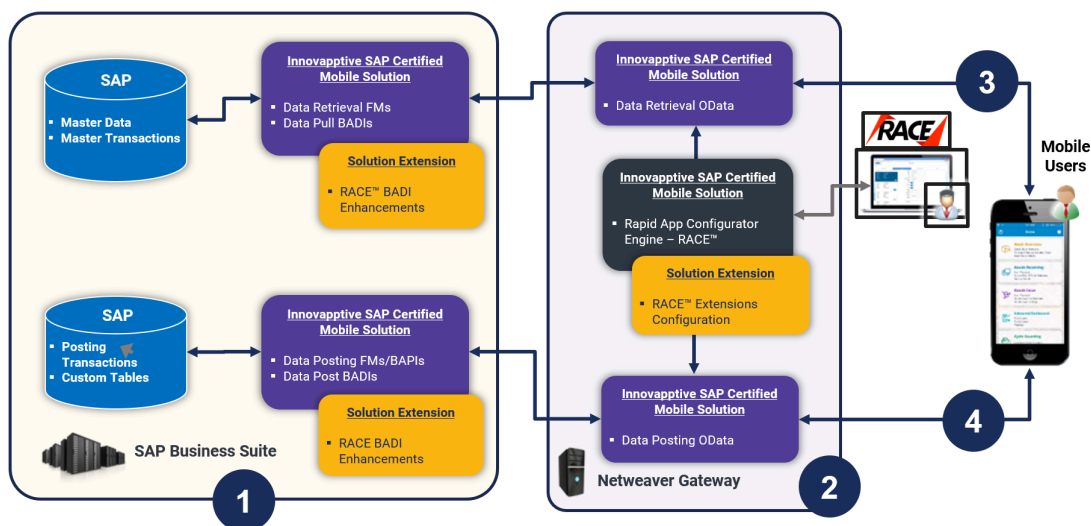
8. Configure RACE™ for mInventory

Innovapptive's Connected Workforce Platform™ uses built-in integrations to connect your SAP®, IBM Maximo, and other back-office systems with mobile applications. This helps organizations bridge communication and information gaps between executive teams, field technicians, plant operators, warehouse operators, maintenance engineers, and back-office staff. Connect data points across cloud and on-premise networks to quickly and easily.

- Draw powerful insights
- Identify cost-savings opportunities
- Make calculated business decisions
- Respond quickly to trends or problems

To align our solutions with your operations, we built a Rapid App Configuration Engine (RACE™) directly into our mobile Connected Workforce Platform. This sophisticated configuration toolkit gives developers and non-developers complete freedom to customize mobile environments without any coding experience.

Figure 8-1 RACE™ Architecture



Deployment ecosystem consists of the following:

1. SAP ECC Integration Component (SAP Certified Add-On in Innovapptive Namespace):

This SAP-certified add-on is developed on ABAP. You can deploy this add-on on SAP ECC through an Add-On Package. You can make enhancements to this through BADI by developing those enhancements in ABAP. This add-on helps you manage Data retrieval and do posting to BAPI's or Function Modules.

2. SAP NetWeaver Integration Component with OData Web Services: Developed on ABAP and OData and offered as an SAP Certified Add-On. This add-on is deployed through an Add-On Package on SAP NetWeaver. You can make enhancements through RACE Configurations. This add-on helps manage the OData integration components (i.e. OData Web Services) to interface with the mobile app. The RACE™ Add-On has both the front-end components and the back-end data tables for the RACE™ Lite Configuration tool.

3. Native App Client + Desktop Web App: Application front-end solutions are offered on mobile OS as a native application that can run on tablets and smartphones.

- iOS – Developed using native iOS (Swift SDK)
- Android – Developed using Android SDK on JAVA
- Browser based App for desktop – Developed using SAPUI5 technology.

Changes on the application user interface is managed through the RACE™ Lite Admin tool.

4. Interface between Mobile App and NetWeaver Gateway: OData Web Services

5. Interface between NetWeaver Gateway and SAP ECC: RFC Connection

8.1. Features of RACE™

You can do the following with RACE™ in your mobile application:

- **Enable and Disable features:** Enable or disable modules on the fly; no additional development or deployments efforts.
- **Define Defaults:** Define default device and application values that you use every day at work like Default Plant or the type of peripherals that you use. When you do this, the fields for specifying those values are automatically populated.
- **Manage Filters:** Create, edit, or delete filters to define the transaction records that you want to view across the modules. For example, you can add a date filter for Purchase Orders to restrict a list of Purchase Orders displayed in a list screen.
- **Add/Modify fields:** Add new fields and modify existing field parameters, such as Field Types, UI Label, UI Positions, and visibility. Define mandatory, optional, or display/hidden fields.

- **Add and customize search criteria:** Add/modify search fields to filter records based on your work requirements.
- **Create modules and screens:** Create new modules and screens to address your specific business requirements.
- **Optimize Performance:** Enable or disable a collection for Offline storage and configure the page size on the list screen using Skip Token.
- **Localization:** Configure the UI labels in the language of your choice to cater to regional language requirements.
- Apply security access capabilities to modules and features.
- Configure security for newly added fields.
- Map newly added fields with SAP fields.

8.2. How to Configure RACE™ for mInventory

RACE™ configurations are provided in spreadsheets. Upload these spreadsheets to your RACE application instance to enable the latest RACE™ features that are developed for mInventory. Contact your Innovapptive representative for the RACE configuration spreadsheets for your release.

When you use the RACE™ preset configuration spreadsheets, you enable all the recommended features / configurations automatically.

Some non-standard features are developed for a few customers. These features are not enabled by default when you import the spreadsheets with configurations. You can enable these features if required by your business.

For detailed information on RACE configurations, see the *Upload Application Configurations Using RACE™* section in the *Configure mInventory using RACE™* document.

9. SAP transactions and tables for mInventory

The following table provides the list of key SAP transactions and tables for mInventory.

Table 9-1 SAP Transactions and Tables

Module Name	Applicable Table	Transaction Code
GOODS_ISSUE	VBAP	VL06
GOODS_ISSUE	VBUK	VL06
GOODS_ISSUE	LIKP	VL06
GOODS_ISSUE	LIPS	VL06
GOODS_ISSUE	AUFG	IW31
GOODS_ISSUE	EKKO	ME23N
GOODS_ISSUE	EKPO	ME23N
GOODS_ISSUE	MSEG	MB1A
GOODS_RECEIVING	LIKP	MIGO
GOODS_RECEIVING	EKKO	MIGO
GOODS_RECEIVING	EKKO	MIGO
GOODS_RECEIVING	MSEG	MB1C
All	MSEG	MIGO
All	MKPF	MIGO
All	RKPF	MIGO
All	RESB	MB23
All	NAST	MB90
HU_LOOKUP	VEKP	HUMO
HU_LOOKUP	VEPO	HUMO
PICKING	LIKP	VL06P
PUTAWAY	LIKP	VL06
PACKING	LIKP	VL02N, VL32N

Table 9-1 SAP Transactions and Tables (continued)

Module Name	Applicable Table	Transaction Code
PACKING	VEPO	VL02N, VL32N
PACKING	PACKPO	VL02N, VL32N
STOCK_OVERVIEW	LQUA	LS26
STOCK_OVERVIEW	MARA	MMBE
STOCK_OVERVIEW	MARD	MMBE
STOCK_OVERVIEW	MCHB	MMBE
STOCK_OVERVIEW	MARA	MMBE
STOCK_OVERVIEW	MARD	MMBE
STOCK_OVERVIEW	MCHB	MMBE
TO_CONFIRM	LTAK	LT12
TO_CONFIRM	LTAP	LT12
CYCLE_COUNT_MAT	IKPF	MI04, MI07
CYCLE_COUNT_MAT	ISEG	MI04, MI07
CYCLE_COUNT_MAT	HUINV_HDR	HUINV01
BIN_COUNT	ISEG	MI04
BIN_COUNT	IKPF	MI07
BIN_COUNT	LINV	LI11N, LI20
TRANSFER_POSTING	LINK	LI11N, LI20
TRANSFER_POSTING	LINP	LI11N, LI20
EXTENDED_WAREHOUSE_- MANAGEMENT	/SCDL/DB_PROCH_I	/SCWM/IDN
EXTENDED_WAREHOUSE_- MANAGEMENT	/SCDL/DB_PROCI_I	/SCWM/PRDI
REMOTE_LOGISTICS_MGMT	OIO_C1_CNTNR, VTTK	O3O_PACK01, O3O_PACK03, O3O_PACK05
MATERIAL MASTER	MARA, MARC, MARD	MM02

Table 9–1 SAP Transactions and Tables (continued)

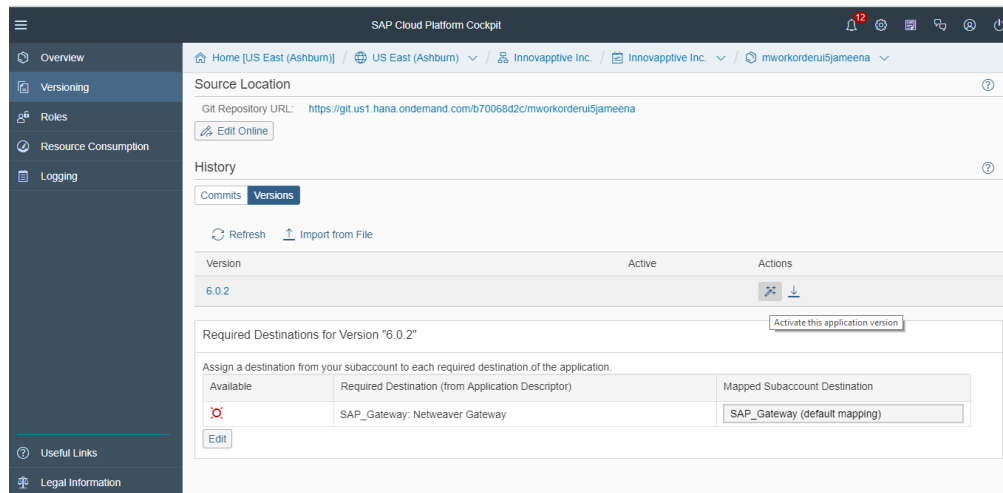
Module Name	Applicable Table	Transaction Code
Material document and Label reprinting	MSEG, NAST	MB90

10. Deploy MIM UI5 package to SAP Cloud platform (SCP)

Do the following to deploy MIM UI5 package to SCP:

1. Login to SCP Cockpit.
2. Navigate to Applications, HTML5 Applications.
3. Click **Import From File**.
4. Browse and select the application (mInventory) zip file.
5. Enter **Version** number.
6. Click on the deployed application and go to Versioning from the menu.
7. Click on **Versions** on the detail page.
8. Click **Activate**.

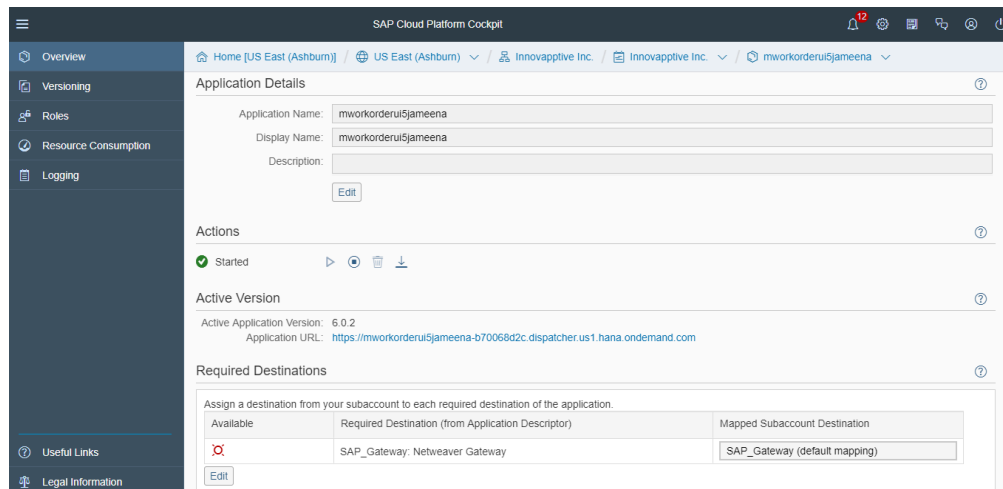
Figure 10-1 Application Details - Versions



9. Click **Yes** on the Activate Version confirmation pop-up.

10. Application URL is displayed in the **Active Version** section.

Figure 10-2 Application Details - Active Version - URL

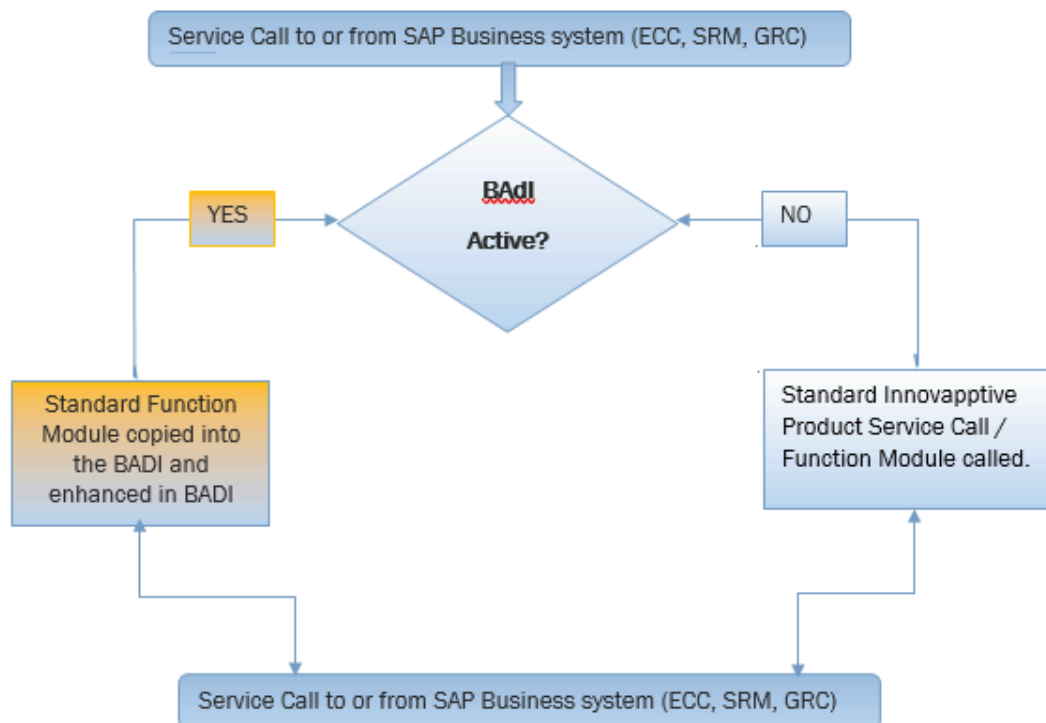


11. Implement BADIs

mInventory uses SAP oDATA based on RESTful design. mInventory performs service calls to read and post data from the SAP Business backend system. These service calls invoke remote enabled function modules in the backend systems to either get or post data depending on the direction of the call. Like Standard SAP code, Innovapptive Add-On code objects cannot be modified in customer systems.

Innovapptive's solution provides the ability for customers to avail additional functionality through BADIs. The enhanced/modified service calls/function modules that are designed to meet special/additional requirements of customers are replaced in the customer environment BADI.

Figure 11-1 BADI Implementation



11.1. Prerequisites for BADI Implementation

Ensure you have the following:

- **Access**

- Access to the ECC system as ABAP Developer.

- **Dependency**

- Installation of ECC and Gateway Add-ons.
- BRD and Fit-GAP analysis has been performed. Gap resolution requires custom enhancement to be performed on the customer SAP system.

- **Assumptions**

- Person who performs the actions outlined has full knowledge and understanding of ABAP Development and has BADIs implementation experience.
- Standard SAP best practices are followed, and the business requirements are documented, the Fit-Gap analysis is performed, FS and TS are documented to ensure that the changes to the standard functionality are done using the SDLC process.
- All changes done in the BADI are owned by the customer and changes and support (during upgrades) are fully owned by the customer as these are enhancements to the Product and thus no longer part of the standard Innovapptive product Add-On code. This is in line with SAP standard methodology, all enhancements/BADIs are fully owned by the customer and need to evaluate during upgrades for impact or adjustments.

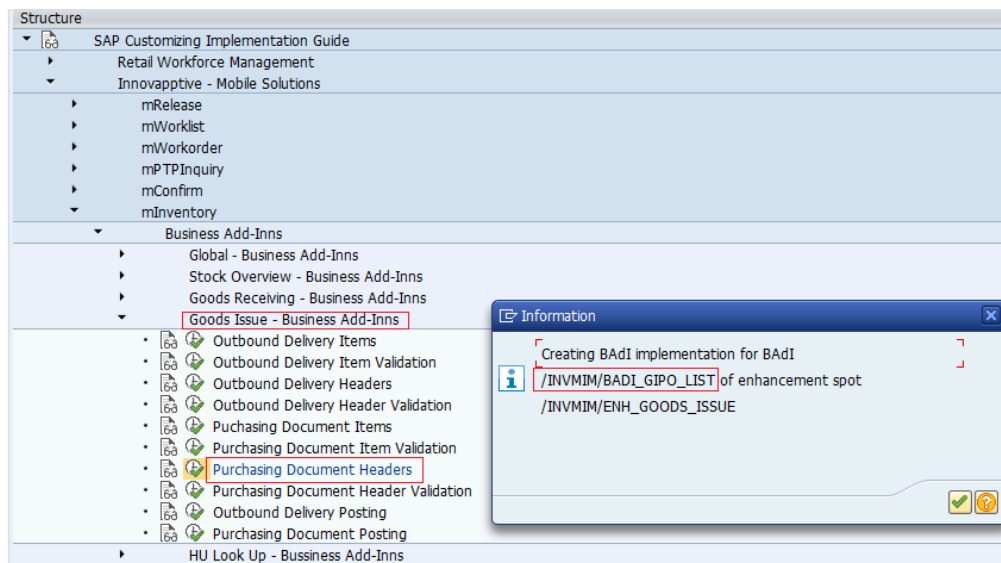
11.2. Activate and Implement BADI

To activate and implement BADI:

1. Log in to SAP.
2. Run transaction SPRO.
3. Click Innovapptive – Mobile Solutions, mInventory and select BADI as shown in the image.

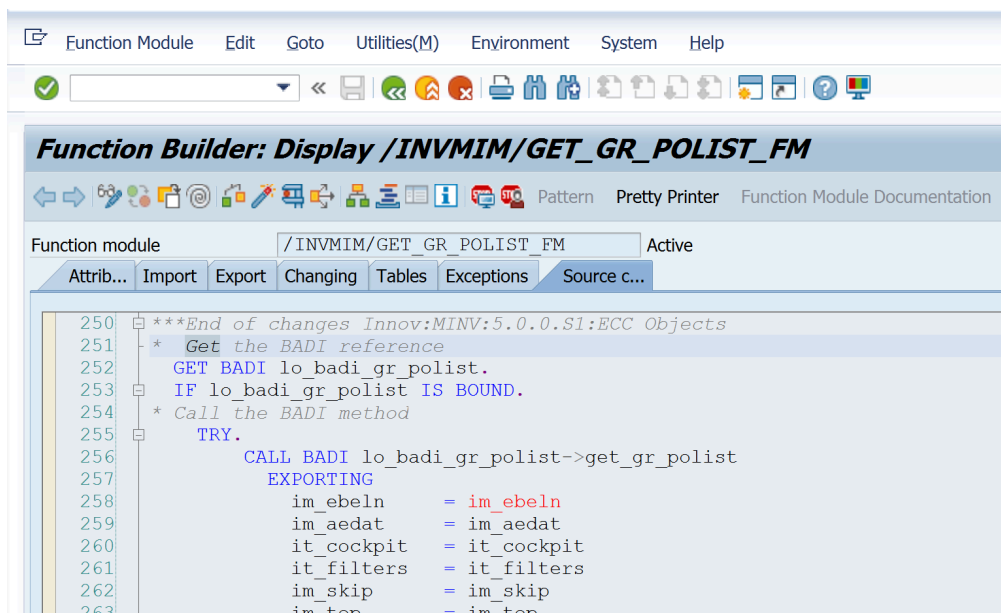
For the list of BADIs available for mInventory, see [List of BADIs for mInventory \(on page 98\)](#).

Figure 11-2 SPRO IMG Structure



4. Click **Execute**.
5. Alternatively, you can use transaction SE37 and view the function module `/INVMIM/GET_GR_POLIST_FM`. This FM is related to service call that gets the Goods Receipts PO list.

Figure 11-3 FM: `/INVMIM/GET_GR_POLIST_FM`



6. Search the function module with the string GET BADI
7. Click **GET BADI**.

Global Search in Programs	
Program/Enhancement	Found locs/short description
☐ /INVMIM/LGR_FGU01	252 GET BADI lo_badi_gr_polist.

8. Double-click the BADI to navigate to the **SE18** transaction

Figure 11-4 SE18

```

115 | *-----*
116 | * Reference
117 | *-----*
118 | DATA lo_badi_gipo_list TYPE REF TO /invmim/badi_gipo_list.
119 | DATA lo_badi_gipo_list_val TYPE REF TO /invmim/badi_gipo_list_val.
120 | * Get the BADI reference
121 | GET BADI lo_badi_gipo_list.
122 | IF lo_badi_gipo_list IS BOUND.
123 |     TRY .
124 |         CALL BADI lo_badi_gipo_list->get_gi_polist

```



9. Click the Implementation icon for BADI.

| 11 – Implement BADIs

Enhancement Spot /INVMIM/ENH_GOODS_RECEIPT Display

Enhancement Spot: /INVMIM/ENH_GOODS_RECEIPT Active

Attrib... Enhancem. Implementations Technical Details Enh. Spot Element Definiti...

BAdI Definitions

BAdI Definitions	Description
/INVMIM/BADI_BATCH_C	BADI definition batch c
/INVMIM/BADI_BIN_COL	Bin Count Items
/INVMIM/BADI_CC_PUSH	Push Notifications for
/INVMIM/BADI_GRID_IT	BADI definition for Go
/INVMIM/BADI_GRID_IT	GR Inbound Delivery I
/INVMIM/BADI_GRID_LI	BADI definition for Go
/INVMIM/BADI_GRID_LI	GR Inbound Delivery I
/INVMIM/BADI_GRID_PC	BADI definition for Go
/INVMIM/BADI_GROD_LI	BADI definition for GR
/INVMIM/BADI_GROD_LI	Get list of Outbound D
/INVMIM/BADI_GROD_LI	GR Outbound Delivery
/INVMIM/BADI_GROD_PI	BADI definition for Go
/INVMIM/BADI_GROD_PI	BADI definition for Go
/INVMIM/BADI_GSTO_I	BADI definition for Go
/INVMIM/BADI_GR_DLV	Handling Unit data for
/INVMIM/BADI_GR_POIT	BADI definition for Go
/INVMIM/BADI_GR_POTT	GR Purchasing Docume
/INVMIM/BADI_GR_POLI	BADI definition for Go

BAdI Definition /INVMIM/BADI_GR_POLIST **tech.**

Description BADI definition for Goods Receipt PO List

Interface /INVMIM/IF_GR_POLIST

Usability

☒ Multiple Use

☐ Can only be implemented SAP-internally

☐ Limited Filter Use

Instance Creation Mode

☒ Newly Creating Instantiation

☐ Reusing Instantiation

☐ Context-Specific Instantiation

☐ Call fallback if no implementation is executed

Fallback Class

Implementation Example Classes

- Enter an appropriate name (starting with Y/Z) for enhancement of spot implementation. (Follow the naming conventions and standards as per the policies and procedures defined.)

Enhancement Spot /INVMIM/ENH_GOODS_RECEIPT Display

Enhancement Spot: /INVMIM/ENH_GOODS_RECEIPT Active

Attrib... Enhancem. Implementations Technical Details Enh. Spot Element Definiti...

BAdI Definitions

BAdI Definitions	Description
/INVMIM/BADI_BATCH_C	BADI definition batch c
/INVMIM/BADI_BIN_COL	Bin Count Items
/INVMIM/BADI_CC_PUSH	Push Notifications for
/INVMIM/BADI_GRID_IT	BADI definition for Go
/INVMIM/BADI_GRID_IT	GR Inbound Delivery I
/INVMIM/BADI_GRID_LI	BADI definition for Go
/INVMIM/BADI_GRID_LI	GR Inbound Delivery I
/INVMIM/BADI_GRID_PC	BADI definition for Go
/INVMIM/BADI_GROD_LI	BADI definition for GR
/INVMIM/BADI_GROD_LI	Get list of Outbound D
/INVMIM/BADI_GROD_LI	GR Outbound Delivery
/INVMIM/BADI_GROD_PI	BADI definition for Go
/INVMIM/BADI_GROD_PI	BADI definition for Go
/INVMIM/BADI_GSTO_I	BADI definition for Go
/INVMIM/BADI_GR_DLV	Handling Unit data for
/INVMIM/BADI_GR_POIT	BADI definition for Go
/INVMIM/BADI_GR_POTT	GR Purchasing Docume
/INVMIM/BADI_GR_POLI	BADI definition for Go

BAdI Definition /INVMIM/BADI_GR_POLIST **tech.**

Description BADI definition for Goods Receipt PO List

Interface /INVMIM/IF_GR_POLIST

Usability

☒ Multiple Use

☐ Can only be implemented SAP-internally

Instance Creation Mode

☒ Newly Creating Instantiation

☐ Reusing Instantiation

☐ Context-Specific Instantiation

☐ Call fallback if no implementation is executed

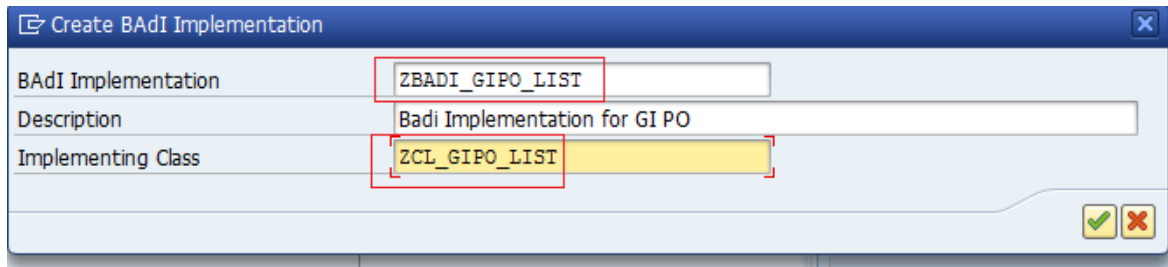
Fallback Class

Implementation Example Classes

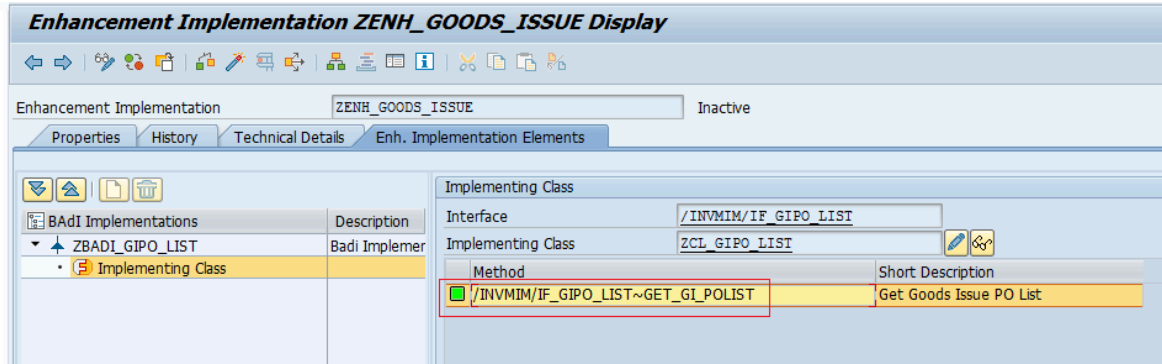
Create Enhancement Implementation

Enhancement Implementation	ZENH_GOODS_RECEIPT
Short Text	Enhancement Spot Implementation for GR
Composite Enhancement Implementation	

- Enter the package name.
- Enter an appropriate name starting with Y/Z for BADI implementation and any Z/Y name for implementing a class.



13. Click the method as shown in the following screenshot.

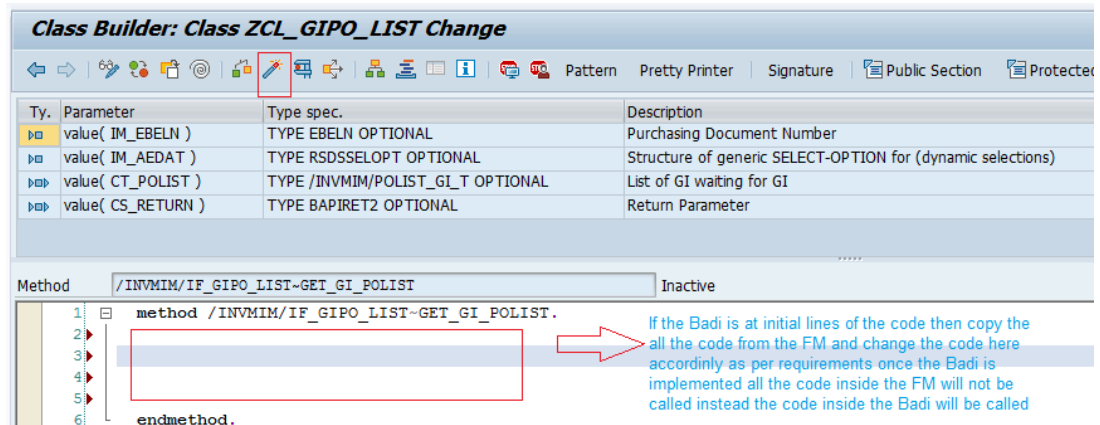


14. Click **YES**.

15. Perform the development activity (code changes and enhancements) to meet the business requirements:

- By default, the BADI is initially blank.
- Copy all the lines of the code from the standard Innovapptive—delivered FM / `INVMIM/GET_GR_POLIST_FM` to this section.

The code can now be enhanced by following the standard ABAP development practices.



- Activate the BADI implementation (while activating, select all the relevant objects in the activation list).

11.3. Verify BADI Implementation

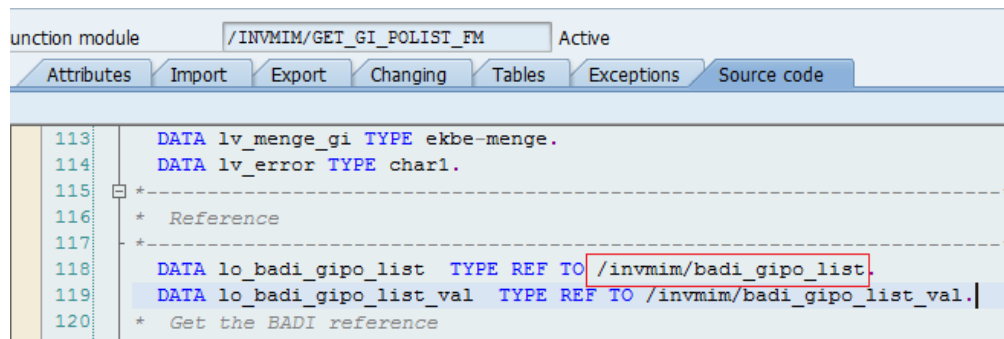


Note:

Sample screen of GI BADI is displayed in screenshots below to show the steps to implement the BADI for reference purposes only. Use the `/INVMIM/GET_GR_POLIST_FM` for the scenario described.

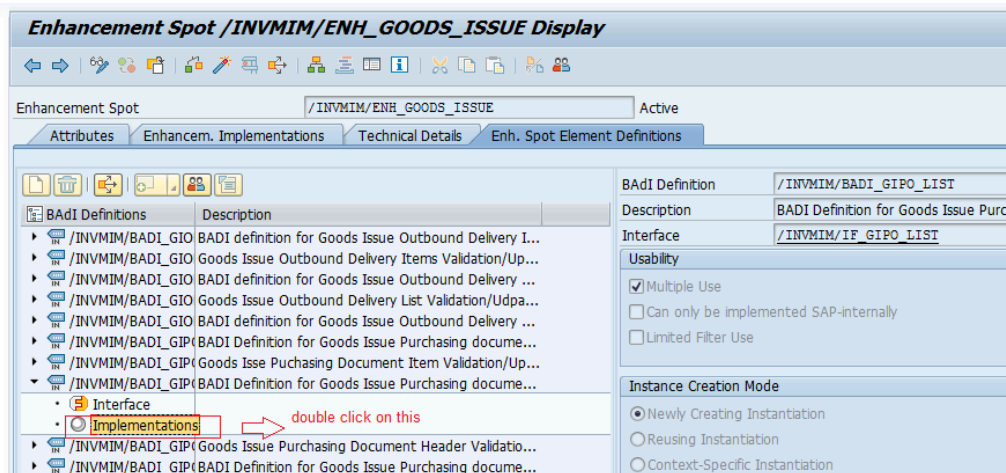
1. Run **SE37** and display the function module **/INVMIM/GET_GI_POLIST_FM**.

Figure 11-5 Function Module: /INVMIM/GET_GI_POLIST_FM



2. Double-click the BADI **/INVMIM/BADI_GIPO_LIST**

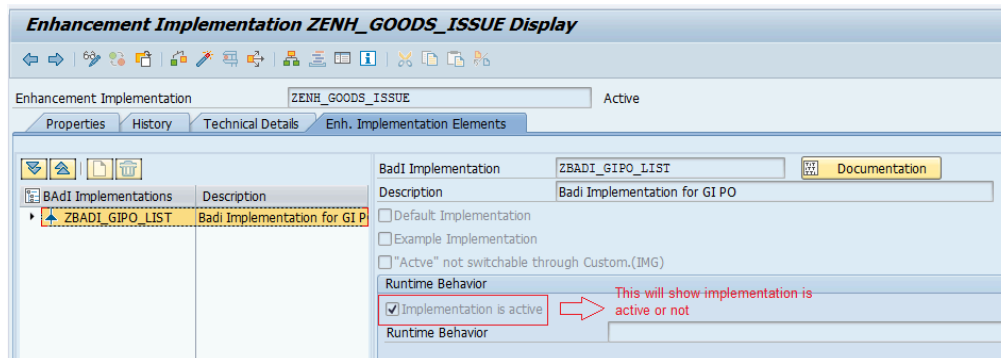
Figure 11-6 BADI: /INVMIM/BADI_GIPO_LIST



This displays the BADI implementation along with the active or inactive status.

3. Verify the **Implementation is active** check box.

Figure 11-7 Badi Implementation Status



11.4. List of BADIs for mInventory

List of BADIs (Business Add-Ins) available as part of the mInventory SAP ECC Add-on component to enhance the standard functionality with ABAP development.

Table 11-1 BADIs in mInventory Application

BADI Name	Method Name	BADI Description
/INVMIM/BIN_COUNT_HEADER	BIN_COUNT	WM Bin Header
/INVMIM/BADI_BIN_COUNT_ITEMS	BIN_COUNT	WM Bin Items
/INVMIM/BADI_POST_BIN_COUNT	BIN_COUNT	WM Bin Posting
/INVMIM/BADI_MATPHYINV_LIST	CYCLE_COUNT_MAT	MAT Physical Inventory List
/INVMIM/BADI_MATPHYINV_ITEMS	CYCLE_COUNT_MAT	MAT Physical Inventory Items
/INVMIM/BADI_MATPHYINV_POST	CYCLE_COUNT_MAT	MAT Physical Inventory Posting
/INVMIM/BADI_HUPHYINV_LIST	CYCLE_COUNT_HU	HU Physical Inventory Header
/INVMIM/BADI_HUPHYINV_ITEMS	CYCLE_COUNT_HU	HU Physical Inventory Items
/INVMIM/BADI_HUPHYINV_POST	CYCLE_COUNT_HU	HU Physical Inventory Posting
/INVMIM/BADI_GIOD_LIST	GOODS_ISSUE	Outbound Delivery Header
/INVMIM/BADI_GIOD_ITEMS	GOODS_ISSUE	Outbound Delivery Items
/INVMIM/BADI_GIOD_POST	GOODS_ISSUE	Outbound Delivery Posting
/INVMIM/BADI_ORDER_HEADER	GOODS_ISSUE	Order Header
/INVMIM/BADI_ORDER_ITEM	GOODS_ISSUE	Order Items

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_POST_GI_ORDERS	GOODS_ISSUE	Order Posting
/INVMIM/BADI_GIPO_LIST	GOODS_ISSUE	STO Header
/INVMIM/BADI_GIPO_ITEMS	GOODS_ISSUE	STO Items
/INVMIM/BADI_GIPO_POST	GOODS_ISSUE	STO Posting
/INVMIM/BADI_PO_LIMITS	GOODS_RECEIVING	PO Limits
/INVMIM/BADI_SERVICE_LINES	GOODS_RECEIVING	Sub Services
/INVMIM/BADI_GRID_LIST	GOODS_RECEIVING	Inbound Delivery Header
/INVMIM/BADI_GRID_POST	GOODS_RECEIVING	Inbound Delivery Posting
/INVMIM/BADI_GRID_ITEMS	GOODS_RECEIVING	Inbound Delivery Items
/INVMIM/BADI_GROD_LIST	GOODS_RECEIVING	Outbound Delivery Header
/INVMIM/BADI_GRID_ITEMS	GOODS_RECEIVING	Outbound Delivery Items
/INVMIM/BADI_GROD_POST	GOODS_RECEIVING	Outbound Delivery Posting
/INVMIM/BADI_GR_POLIST	GOODS_RECEIVING	PO Header
/INVMIM/BADI_GR_POITEMS	GOODS_RECEIVING	PO Items
/INVMIM/BADI_GRPO_POST	GOODS_RECEIVING	PO Posting
/INVMIM/BADI_GR_STOLIST	GOODS_RECEIVING	STO Header
/INVMIM/BADI_GR_STOITEM	GOODS_RECEIVING	STO Items
/INVMIM/BADI_GRSTO_POST	GOODS_RECEIVING	STO Posting
/INVMIM/BADI_PACKING_LIST	PACKING	packing Header
/INVMIM/BADI_PACKING_ITEMS	PACKING	packing Items
/INVMIM/BADI_PACKING_POST	PACKING	Packing Header
/INVMIM/BADI_PICKING_LIST	PICKING	Picking Header

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_PICKING_-ITEMS	PICKING	Picking Items
/INVMIM/BADI_PICKING_-POST	PICKING	Picking Posting
/INVMIM/BADI_PUTAWAY_-LIST	PUTAWAY	Putaway Header
/INVMIM/BADI_PUTAWAY_-ITEMS	PUTAWAY	Putaway Items
/INVMIM/BADI_PUTAWAY_-POST	PUTAWAY	Putaway Posting
/INVMIM/BADI_GET_BINS-STOCK	STOCK_OVERVIEW	Bin Stock
/INVMIM/BADI_OPENTO_LIST	TO_CONFIRM	TO Header
/INVMIM/BADI_OPENTO_ITEM	TO_CONFIRM	TO Items
/INVMIM/BADI_OPENTO_-CONFIRM	TO_CONFIRM	TO Posting
/INVMIM/BADI_STORAGE_-BINS	TRANSFER_POSTING	Storage Bins
/INVMIM/BADI_BIN_TO_BIN	TRANSFER_POSTING	Bin to Bin posting
/INVMIM/BADI_PLANT_STOCK	STOCK_OVERVIEW	Plant stock
/INVMIM/BADI_MATDOC_-HEADER	GOODS_RECEIVING	Material Doc Header
/INVMIM/BADI_MATDOC_-ITEMS	GOODS_RECEIVING	Material Doc Item
/INVMIM/BADI_INV_AUDIT_-ITEM	CONINV_AUDIT	Audit Item Screen
/INVMIM/BADI_INV_AUDIT_-LIST	CONINV_AUDIT	Audit Header Screen

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_SERVICE_- PO_HDR	SERVICE_CONF	Service PO Header
/INVMIM/BADI_SERVICE_- PO_ITEMS	SERVICE_CONF	Service PO Item
/INVMIM/BADI_SCSO_POST	SERVICE_CONF	Service PO Posting
/INVMIM/BADI_GI_RESERV_- HEADER	GOODS_ISSUE	Reservation Header
/INVMIM/BADI_GI_RESERV_- ITEMS	GOODS_ISSUE	Reservation Item
/INVMIM/BADI_POST_GI_- RESERVATN	GOODS_ISSUE	Reservation Posting
/INVMIM/_GI_BADI_MAT- DOC_HDR	GOODS_ISSUE	Material Doc header
/INVMIM/BADI_GI_MAT- DOC_ITEMS	GOODS_ISSUE	Material Doc item
/INVMIM/BADIGR_- REVERSAL_POLIST	GOODS_RECEIVING	Return Delivery Header
/INVMIM/BADI_VNDRRE- TURN_POST	GOODS_RECEIVING	Return Delivery Posting
/INVMIM/BADI_MATDOC_- REVERSAL	GOODS_RECEIVING	Material Document Reversal
/INVMIM/BADI_CONTAINER_- LIST	REMOTE_LOGISTICS	Containers list
/INVMIM/BADI_DELVRY_CNT- NR_LIST	REMOTE_LOGISTICS	Delivery Container List
/INVMIM/BADI_LOADING_- AREASLIST	REMOTE_LOGISTICS	Loading Area List
/INVMIM/BADI_DELIVERY_LIST	REMOTE_LOGISTICS	Delivery List

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_LDAREA_CNT-NR_LIST	REMOTE_LOGISTICS	Delivery Loading Area List
/INVMIM/BADI_LDAREA_-DELV_LIST	REMOTE_LOGISTICS	Shipment Loading Area List
/INVMIM/BADI_LDAREA_-SHIPM_LIST	REMOTE_LOGISTICS	Shipment list
/INVMIM/BADI_BATCH_STOCK	STOCK_OVERVIEW	Batch Stock
/INVMIM/BADI_STORAGE_-LOC_STOCK	STOCK_OVERVIEW	Storage Location Stock
/INVMIM/BADI_INV_AUDIT_-BOM	CONINV_AUDIT	BOM Items
/INVMIM/BADI_INV_AUDIT_-CREATE	CONINV_AUDIT	Inventory Audit Create
/INVMIM/BADI_DELVRY_-ITEM_LIST	REMOTE_LOGISTICS	Delivery Items
/INVMIM/BADI_SERV_PO_-ITEM_SERV	SERVICE_CONF	Service Contact Item
/INVMIM/BADI_SO_-MASTER_LIST	SERVICE_CONF	Service Master
/INVMIM/BADI_SO_CONTRACTS_DET	SERVICE_CONF	Service Contract Item
/INVMIM/BADI_CONTRACT_-HEADER	SERVICE_CONF	Service Contract Header
/INVMIM/BADI_GR_IDLIST_-FM	EWM_GRID	EWM GRID Header details
/INVMIM/BADI_GR_IDLITEMS	EWM_GRID	EWM GRID Item Details
/INVMIM/BADI_GR_ID_POS	EWM_GRID	EWM GRID Posting

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_HU_LIST	EWM_GRID	EWM GRID HU List
/INVMIM/BADI_VEND_DET_- EWM	EWM_GRID	EWM Vendor Details
/INVMIM/ENH_BADI_TR_DE- TAILS	PUTAWAYTR	Get TR Details
/INVMIM/ENH_BADI_TR_LIST	PUTAWAYTR	Get list of TR's
/INVMIM/ENH_BADI_TO_- CREATE	PUTAWAYTR	Create TO from TR
/INVMIM/BADI_DELVRY_CNT- NR_LIST	REMOTE_LOGISTICS	Delivery to container list
/INVMIM/BADI_ATTACHMEN- T_DELIV	REMOTE_LOGISTICS	Attachment information
/INVMIM/RLM_BADI_NOTE_- CREATE	REMOTE_LOGISTICS	Get Note Create
/INVMIM/BADI_CONTAINER_- LIST	REMOTE_LOGISTICS	Get the container list
/INVMIM/BADI_CNTRN_SHIP- M_LIST	REMOTE_LOGISTICS	Get the Shipment list
/INVMIM/BADI_DELVRY_- ITEM_LIST	REMOTE_LOGISTICS	Get the delivery item list
/INVMIM/BADI_DELIVERY_LIST	REMOTE_LOGISTICS	Get packing delivery data
/INVMIM/BADI_LDAREA_CNT- NR_LIST	REMOTE_LOGISTICS	Get load area container list
/INVMIM/BADI_LDAREA_- DELV_LIST	REMOTE_LOGISTICS	Loading area Delivery data
/INVMIM/BADI_LDAREA_- SHIPM_LIST	REMOTE_LOGISTICS	Get the Shipment list

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_LOADING_- AREASLIST	REMOTE_LOGISTICS	Get loading areas list
/INVMIM/BADI_PACK02_CN- TR_LIST	REMOTE_LOGISTICS	Get the container list
/INVMIM/BADI_PACK04_DEL- RY_LIST	REMOTE_LOGISTICS	Get packing delivery data
/INVMIM/BADI_PAK04_SH- P_LIST	REMOTE_LOGISTICS	Get the Shipment list
/INVMIM/BADI_PAK4_DEL_IT- M_LIST	REMOTE_LOGISTICS	Get the delivery item list
/INVMIM/BADI_SHIPMENT_- LIST	LOADING_AREA	Get the shipment list
/INVMIM/BADI_LOADING_- AREA_CRE	LOADING_AREA	Create Loading Area
/INVMIM/BADI_STORAGE_- BIN_CREAT	STORAGEBIN	create Storage Bin
/INVMIM/BADI_DASH- BOARD_GR	DASHBOARD_GR	Get the count for GR dash- board
/INVMIM/BADI_GR_COUNT	GOODS_RECIEVING	Get SAP Vs Mobile Count for GR
/INVMIM/BADI_CYCLE_- COUNT	CYCLE_COUNT_MAT	Get SAP Vs Mobile Count for Cycle Count
/INVMIM/BADI_LBL_PRINT_- HEADER	LABEL_PRINTING	To get Material Document Header
/INVMIM/BADI_LBL_PRINT_- ITEMS	LABEL_PRINTING	To get Material Document Item Details
/INVMIM/BADI_LBL_PRINTER- LIST	LABEL_PRINTING	To get Printer List
/INVMIM/BADI_LBL_PRINT- DOC	LABEL_PRINTING	To Print Documents

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_MATERIAL_- LIST	/INVMIM/MATERIAL_LIST	Get List of Materials
/INVMIM/BADI_STORAGE_- BIN_UPDAT	/INVMIM/STORAGE_BIN_UP- DATE	Storage Bin Update
/INVMIM/BADI_GR_- BLOCKED_STOCK	/INVMIM/GET_GR_- BLOCKED_STOCK	Get list of Blocked Stock Mat- Doc List
/INVMIM/BADI_BCKDSTCK_- RELEASE	/INVMIM/RELEASE_BCKD_S- TOCK_FM	Release GR Blocked Stock
/INVMIM/BADI_REV_PICK_- HEADER	REVERSE_PICKING	Reverse Picking Header List
/INVMIM/BADI_REVERSE_- PICKING	REVERSE_PICKING	ReversePicking Items
/INVMIM/BADI_REV_PICK_- POST	REVERSE_PICKING	To Post Reverse Picking
/INVMIM/BADI_TO_LABELS	TO_CONFIRM	To get Delivery Labels
/INVMIM/BADI_MAT_DOC_- HEADER	MAT_DOC_DISPLAY	To get Matdoc header
/INVMIM/BADI_MAT_DOC_- ITEMS_GET	MAT_DOC_DISPLAY	To get Matdoc item details.
/INVMIM/ENH_USR_SYSTM_- DETAILS	USER_PROFILE	To get user profile
/INVMIM/BADI_CREATE_- SHIPMT	SHIPMENT	1. Shipment posting 2. Shipment Update 3. Getting open deliveries

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_IM_PICKING	IM_picking	1. IM Picking 2. Deliveries and Item Details
/INVMIM/BADI_STOCK_BIN_MATERIA	STOCK_overview	Method for stock overview for storage bin material
/INVMIM/BADI_HU_LBL_PRINT	HU_HEADER_DETAILS	BADI for Handling Unit Label Printing
/INVMIM/BADI_HU_LBL_PRINT	HU_ITEM_DETAILS	BADI for Handling Unit Label Printing
/INVMIM/BADI_HANDLINGUNITS	GET_HANDLINGUNITS	BADI Definition for Handling units list
/INVMIM/BADI_HUPUTAWAY	POST_HUPUTAWAY	BADI Definition for HU Putaway
/INVMIM/BADI_BLKDS-STOCK_COMPS	GET_BLOCKEDSTOCK_COMPS	BADI Definition for Blocked Stock Components
/INVMIM/GR_SUBCONTRACT	GET_ITEMS	BADI Definition for GR Subcontract
/INVMIM/GR_SUBCONTRACT[TD1]	GET_COMPONENTS	BADI Definition for GR Subcontract
/INVMIM/GR_SUBCONTRACT	POST_DOCUMENT	BADI Definition for GR Subcontract
/INVMIM/BADI_ATTACHMNT_MAT_DOC	ATTACHMNT_MAT_DOC	Attachment material Doc create
/INVMIM/BADI_GRID_PROCESS	GRID_DELIVERIES	List of Open Inbound Deliveries
/INVMIM/BADI_GRID_PROCESS	GRID_DELITEMS	List of Delivery Item Details
/INVMIM/BADI_GRID_PROCESS	GRID_POST	Posting Goods Receipt for Inbound Delivery

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_PUTAWAY_-CONF	WHOLIST_ID	Warehouse Orders list - In-bound Delivery
/INVMIM/BADI_PUTAWAY_-CONF	WHOTASKS_ID	Warehouse Order Tasks - In-bound Delivery
/INVMIM/BADI_PUTAWAY_-CONF	WHOPOST_ID	Warehouse Order Confirmation - Posting
/INVMIM/BADI_GIOD_PROCESS	GIOD_DELIVERIES	List of Open Outbound Deliveries
/INVMIM/BADI_GIOD_PROCESS	GIOD_DELITEMS	List of Delivery Item Details
/INVMIM/BADI_GIOD_PROCESS	GIOD_POST	Posting Goods Issue for Outbound Delivery
/INVMIM/BADI_CUSTOM_-DROPDOWN	CUSTOM_DROPDOWN	Custom drop down
/INVMIM/BADI_DD_BATCHS	GET_BATCHES	List of Batches for a Material
/INVMIM/BADI_GR_PRD_ORDER	GR_PRD_DETAILS	GR Production order list and item
/INVMIM/BADI_GR_PRD_ORDER	GR_PRD_POST	GR Production order posting
/INVMIM/BADI_ATTCHM_-TO_CONF	ATTACHMENT_TO_CONF	Attachment for TO confirmation
/INVMIM/BADI_GRID_-REVERSAL	GRID_REVERSAL_POST	Method for GR Inbound Delivery reversal post
/INVMIM/BADI_GRID_-REVERSAL	GRID_REVERSAL_LIST	Method for GR Inbound Delivery reversal list
/INVMIM/BADI_GRID_-REVERSAL	GRID_REVERSAL_ITEM	Method for GR Inbound Delivery reversal items
/INVMIM/BADI_GR_-REVERSAL_COMPS	GET_GR_REVSL_POCOMPS	Method to get Components of GR Reversal

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_PUTAWAY_IB- DEL	GET_IBDEL	List of Inbound Deliveries
/INVMIM/BADI_PUTAWAY_IB- DEL	GET_IBDELITEMS	Inbound Delivery Items
/INVMIM/BADI_PUTAWAY_IB- DEL	POST_PUTAWAY	Creating Putaway for Delivery
/INVMIM/BADI_PICKING_OB- DEL	GET_OBDEL	List of Outbound Deliveries
/INVMIM/BADI_PICKING_OB- DEL	GET_OBDELITEMS	Outbound Delivery Items
/INVMIM/BADI_PICKING_OB- DEL	POST_PICKING_OBDEL	Creating Picking for outbound delivery
/INVMIM/BADI_PUTAWAY_- CONF	WHOLIST_ID	Warehouse Orders list - In- bound Delivery
/INVMIM/BADI_PUTAWAY_- CONF	WHOTASKS_ID	Warehouse Order Tasks - In- bound Delivery
/INVMIM/BADI_PUTAWAY_- CONF	WHOPOST_ID	Warehouse Order Confirmation - Posting
/INVMIM/BADI_PCK_UN- PCK_PROCESS	GET_IBDEL	Get Inbound Deliveries
/INVMIM/BADI_PCK_UN- PCK_PROCESS	GET_IBDELITEMS	Get Inbound Delivery Items
/INVMIM/BADI_PCK_UN- PCK_PROCESS	POST_PCKUNPCK	Posting Pack and Unpack
/INVMIM/BADI_CC_PHYS_- HEADER	CC_PHYS_HEADER	Method for CC Physical Inven- tory Header
/INVMIM/BADI_CC_PHYS_- ITEM	CC_PHYS_ITEM	Method for CC Physical Inven- tory Items

Table 11-1 BADIs in mInventory Application (continued)

BADI Name	Method Name	BADI Description
/INVMIM/BADI_CC_PHYS_ITEM	CC_PHYS_POST	Method for CC physical Inventory post
/INVMIM/BADI_KITTING_S-TAGGING	• KITTING_LIST • KITTING_ITEM • KITTING_POST • SPCC_WO_LIST	• List of Work Orders • List of Work Order Items • Post Work Order • List of Work Orders - SPCC

12. Generate Secondary Indices

To improve the application performance, for tables containing large amounts of data, generate secondary indices for key tables relevant for the product.

**Note:**

Ensure you have ABAP Developer access to ECC system with authorization to maintain tables and set up table indexes.

Table 12-1 Secondary Indices - Table and Field

Table	Field for Secondary Index
MARA	VHART
EKBE	MATNR, WERKS
IKPF	BLDAT, GIDAT, ZSTAT, DSTAT, LSTAT
IKPF	DSTAT, LSTAT
IKPF	BLDAT, GIDAT, ZSTAT, LSTAT
IKPF	ZSTAT, DSTAT, LSTAT
IKPF	ZSTAT, LSTAT
VTTK	TPLST, SHTYP
VEKP	VHILM, PACKVORSCHR, STATUS
VTFA	VBELV, POSNV, VBTYP_V
/SCDL/DB_PROCI_I	DOCCAT, /SCWM/WHNO, PRODUCTNO
VBUK	KOSTK
MSEG	BWART, BUDAT_MKPF
EQBS	B_WERK, B_LAGER
EQUI	MATNR
LTAP	VBELN

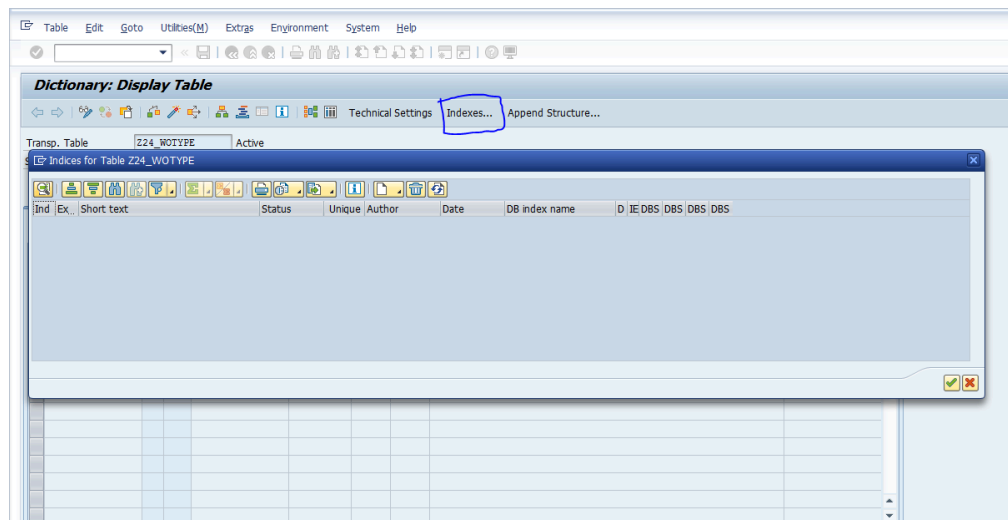
12.1. Create Secondary Index

| 12 - Generate Secondary Indices

To create secondary index:

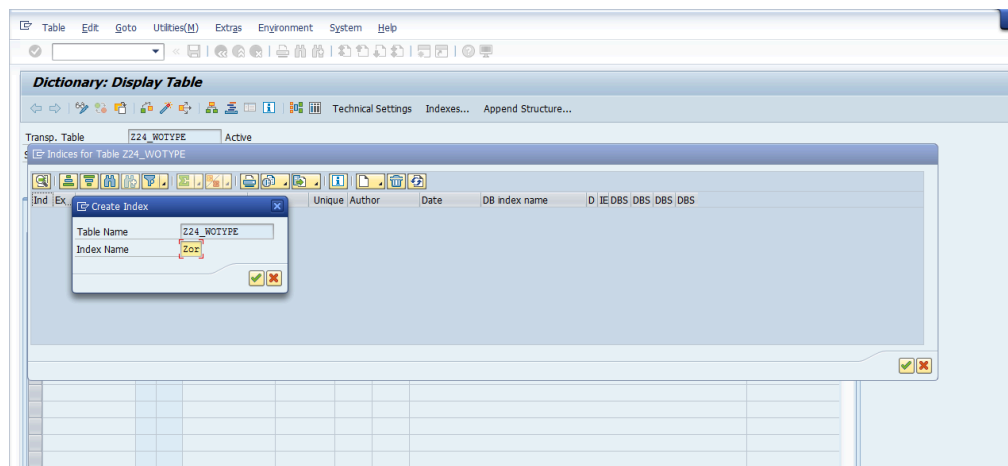
1. Log in to SAP ECC.
2. Go to transaction **SE11**.
3. Enter the Table name.
4. Click **Display** to view the table.
5. Click **Indexes**.

Figure 12-1 Display Table - Indexes



6. Click **Create** and select **Create Index**.
7. Enter the **Index Name**.

Figure 12-2 Create Index - Index Name



8. Enter description in the displayed fields.
9. Select **Table Fields** option to enter the Field name.

Figure 12-3 Table Fields

Dictionary: Change Index

Index Name: 224_921222 [208]

Short Description: secondary index

Last changed: E5000151 [28.11.2016] Original language: EN English

Status: New Not saved Package: 92XP

Index does not exist in database system MSSQL

☒ Non-unique index

☐ Index on all database systems

☐ For selected database systems

☐ No database index

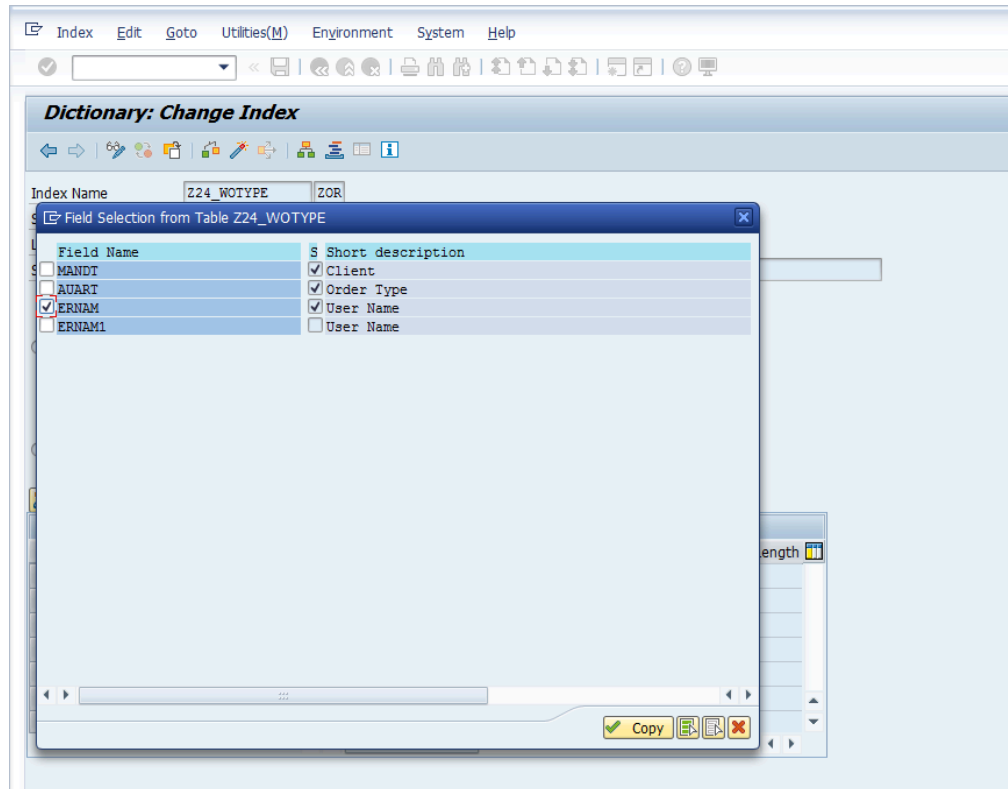
☐ Unique Index (database Index required)

Table Fields

Field name	Short Description	DT...	Length

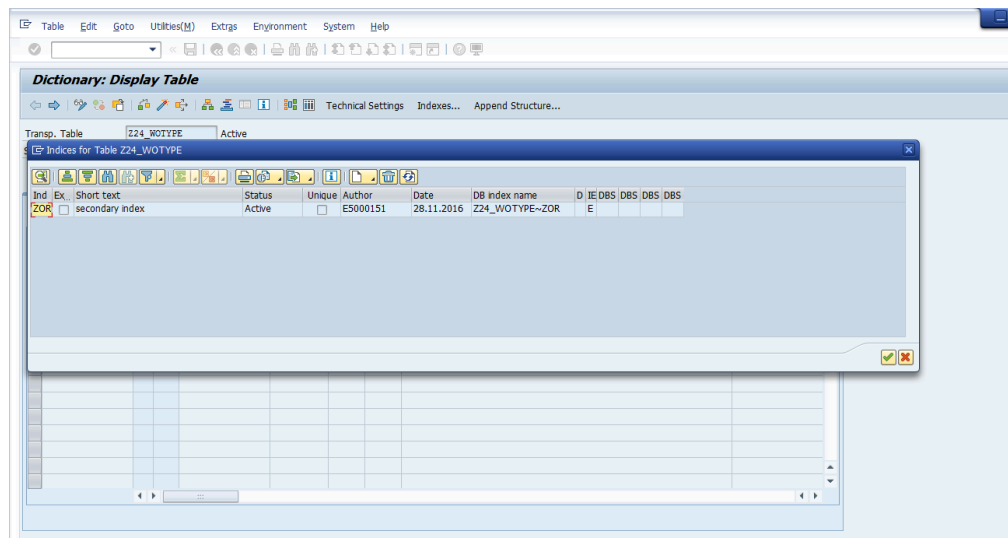
10. Select the required field for secondary index and click **Copy**.

Figure 12-4 Select Table Fields



11. Click **Activate**.

Figure 12-5 Activate Index



13. Download App and Install

Before you download new version of the App, do the following:

- Complete all the transactions (Online and Offline),
- Unregister from the application

Download the mInventory app from Apple App Store, Google Play or the Microsoft Store and install it on your devices.