## Upgrade Guide for mWorkOrder 2502

**Connected Worker Solutions** 



Copyright © 2012-2025, Innovapptive Inc. and/or its affiliates. All rights reserved

# Title and Copyright

**Copyright** and **Terms of Use** for Upgrade Guide for mWorkOrder, a Mobile Workorder Management Solution of *Connected Workforce Platform*<sup>TM</sup>.

Upgrade Guide for mWorkOrder, a Mobile Workorder Management Solution of *Connected Workforce Platform*<sup>TM</sup>.

Product Version: 2502

Release Date: 11 March 2025

Published Date: 11 March 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 mWorkOrder, a Mobile Workorder Management Solution of *Connected Workforce Platform*<sup>TM</sup>.

#### **Related Documents and 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.

#### **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.

Convention	Meaning
italic	Indicates book titles, emphasis, or place- holder variables for which you supply values.
monospace	Indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

Table 0-1 Conventions followed in the document (continued)

# Contents

Title and Copyright	ii
Preface	iii
1. Upgrade mWorkOrder	8
1.1. Upgrade supporting systems	8
1.2. Upgrade mWorkOrder	10
2. Back up/Save RACE™ table configurations	14
3. Install RACE™ SAP® ECC and Gateway	15
3.1. Install RACE™ SAP® ECC and Gateway Add-ons and support packs	18
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	
3.5. Activate FIORI Service	
3.6. Import RACE™ SAP® ECC and Gateway ABAP Transports	
3.6.1. Import Transports	35
3.6.2. Verify SAP® ECC RACE™ Transport	
3.6.3. Verify SAP® GW RACE™ Transport	
3.6.4. Activate RACE™ OData Service	
3.6.5. Activate UI5 Service	42
3.6.6. Activate FIORI Service	44
4. Install mWorkOrder SAP® ECC, Gateway, and UI5	47
4.1. Install mWorkOrder SAP® ECC, Gateway and UI5 Add-ons and support packs	48
4.1.1. Verify SAP® ECC MWO Add-On	52
4.1.2. Verify SAP® GW MWO Add-On	53
4.2. Install mWorkOrder SAP® ECC, Gateway, and UI5 Support packs	
4.3. Activate mWorkOrder OData Service	

4.4. Activate Gateway UI5 Service	61
4.5. Activate Gateway FIORI Service	
4.6. Import mWorkOrder SAP® ECC, Gateway and UI5 Transports	64
4.6.1. Verify SAP® ECC MWO Transport	65
4.6.2. Verify SAP® GW MWO Transport	
4.6.3. Activate mWorkOrder OData Service	68
4.6.4. Activate Gateway UI5 Service	69
4.6.5. Activate Gateway FIORI Service	71
5. Check Schema Change Indicator	74
6. Clean SAP Gateway Cache	76
7. Configure SAP Gateway for mWorkOrder	80
7.1. Prerequisites for SAP Gateway Configuration	
7.2. Configure screens based on Order Types and Notification Types	
7.3. Configure Plant Maintenance Emergency Order Types	
7.4. Map Measuring Entry List to Mobile User	
7.5. Configure Priority and System Status Color Coding	
7.6. Configure Work Order Numbers Color Coding	
7.7. Configure DMS Document Object Links	
7.8. Configure staging table for Equipment and Functional Location master.	
8. Configure RACE™ for mWorkOrder	95
8.1. Features of RACE™	96
8.2. How to Configure RACE™ for mWorkOrder	
9. SAP transactions and tables for mWorkOrder	
10. Deploy MWO UI5 package to SAP Cloud platform (SCP)	
11. Implement BADIs	
11.1. Prerequisites for BADI Implementation	101
11.2. Activate and Implement BADI	
11.3. Verify BADI Implementation	107
11.4. List of BADIs for mWorkOrder	

12. Generate Secondary Indices	
12.1. Create Secondary Index	
13. Update Resource File	124
14. Download App and Install	131

# 1. Upgrade mWorkOrder

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

mWorkOrder upgrade process involves two stages:

- Upgrade supporting systems (on page 8)
- Upgrade mWorkOrder (on page 10)

## 1.1. Upgrade supporting systems

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

Software	
Software	<ul> <li>SMP 3.0 SPI1 PL06 and above (SAP Mobile Platform)</li> <li>BTPms (Business Technology Platform Mobile service)</li> <li>SAP Cloud Connector latest version</li> <li>SAP NetWeaver Gateway 7.4 and above with SAP_GWFND 740 component (SP 13 and above)</li> <li>Reverse proxy (SAP Web Dispatcher, Apache, Junos Pulse, NetScaler proxy servers are recommended. Others need to be evaluated)</li> <li>RACE 2208–SAP_UI 740 SPI3 and above or provide access to online UI5 libraries of version 1.71</li> <li>SPAM Version 69 and above (only for Add-Ons).</li> </ul>

#### Table 1-1 Prerequisites

Table 1-1 Prerequisites (continued)	
SAP Business Suite	<ul> <li>ECC 6.0 EHP 5 with SAP_BASIS 702 and above (recommended)</li> <li>Lower versions are compatible (requires evaluation)</li> <li>SAP S/4HANA Business Suite 1709, 1809, 1909 and 2021 (versions requires evaluation)</li> </ul>
Compatible Security Authentication Mech- anism	<ul> <li>Basic authentication</li> <li>SSO2 between SMP and NetWeaver Gateway</li> <li>Active Directory SSO</li> <li>SAML 2.0 Authentication</li> </ul>
Access	<ul> <li>SAP Basis System Admin with access to 000 clients in Gateway and ECC sys- tems.</li> <li>Access to SAP File directory usr/sap/ trans/EPS/in to upload PAT files.</li> </ul>
Assumptions	Access to the RACE™ portal can be complet- ed after the RACE™ admin user credentials setup is completed.

Figure 1-1 Validate Systems



### 1.2. Upgrade mWorkOrder

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

Figure 1-2 Configurations to upgrade MWO



#### Table 1-2 References

Task	Reference to section		
Install RACE™ SAP ECC and Gateway Add- ons or Support Packs / Import Transports	<ul> <li>Install RACE<sup>™</sup> SAP<sup>®</sup> ECC and Gateway (on page 15)</li> <li>Import RACE<sup>™</sup> SAP<sup>®</sup> ECC and Gateway ABAP Transports (on page 34)</li> </ul>		
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 mWorkOrder SAP ECC, Gateway and UI5 Add-ons/ Import Transports	<ul> <li>Install mWorkOrder SAP® ECC, Gate- way, and UI5 (on page 47)</li> <li>Import mWorkOrder SAP® ECC, Gate- way and UI5 Transports (on page 64)</li> </ul>		
Activate mWorkOrder oData, Gateway UI5 and Fiori Services	Activate mWorkOrder OData Service <i>(on page 59)</i>		
	Activate Gateway UI5 Service (on page 61)		
	Activate Gateway FIORI Service <i>(on page 62)</i>		
Check Schema Indicator	Check Schema Change Indicator <i>(on page 74)</i>		
Clean Gateway Cache	Clean SAP Gateway Cache (on page 76)		
Configure SAP Gateway for mWorkOrder	Configure SAP Gateway for mWorkOrder <i>(on page 80)</i>		
Upload / Update the Configurations in Excel format to RACE™ Application	Upload / Update Application Configurations Using RACE™ <i>(on page )</i>		
Deploy mWorkOrder UI5 package to SCP	Deploy MWO UI5 package to SAP Cloud plat- form (SCP) <i>(on page 99)</i>		
Implement BADI enhancements	Implement BADIs (on page 101)		

#### |1 - Upgrade mWorkOrder

Table 1-2 References (continued)

Task	Reference to section	
Prepare & Update Resource File	Update Resource File (on page 124)	
Download and Install App	Download App and Install (on page 131)	

# 2. Back up/Save RACE™ table configurations

Upgrade process can impact data in the following SAP database tables. Download and back up the RACE<sup>™</sup> 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<sup>™</sup> SAP<sup>®</sup> ECC and Gateway

**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.

Туре	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 Ob- jects	Dependency
SP31	EZY0021310268 0000078.PAT	Innov RACE 2208 SP02 HF26-HF35 ECC Ob- jects	Dependency
SP42	EZY0021310268 0000104.PAT	Innov RACE 2208 SP02 HF36-HF46 ECC Ob- jects	Dependency
SP43	EZY0021310268 0000118.PAT	Innov RACE 2208 SP02 HF47.1 ECC Objects	Dependency
SP44	EZY0021310268 0000119.PAT	Innov RACE 2208 SP02 HF48 ECC Objects	Dependency

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

Туре	Add-On	Description	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

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

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

Туре	Add-On	Description	Dependency
Add-On	NZY0021310268 0000006.PAT	INNOV:RACE™:2208 SP02 Gateway Ob- jects	None
SP01	NZY0021310268 0000008.PAT	Innov RACE 2208 SP01 UI5 Application	Install RACE™ Add- On NZY0021310268 0000006.PAT before importing SP01
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	NZYO021310268 0000150.PAT	RACE 2208 SP02 Fiori (HF26 - HF35)	Dependency
SP61	NZY0021310268 0000152.PAT	RACE 2208 SP02 HF36 GW Objects	Dependency

Туре	Add-On	Description	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
SP79	NZYO021310268 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

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

# 3.1. Install RACE<sup>™</sup> SAP<sup>®</sup> 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 now you want to install the support packs (hotfixes), follow the procedure detailed in Support packs installation procedure *(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 the files 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.



- 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.



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

Add-On Installation Tool - Version 7.40/0061						
🧐 📓   📔	E					
	Add-0	)n Insta	llation Tool : Installed Add-ons			
Add-ons and	Preconfigured	Systems i	nstalled in the system			
Add-on/PCS	Release	Level	Description	Import 🛄		
PI_BASIS	740	0008	Basis Plug-In	00		
SAP_ABA	740	0008	Cross-Application Component	OC		
SAP_BASIS	740	0008	SAP Basis Component	00		
SAP_BW	740	0008	SAP Business Warehouse	00		
SAP_GWFND	740	0012	SAP Gateway Foundation 7.40	00		
SAP_UI	740	0009	User Interface Technology 7.40	00		
ST-PI	740	0000	SAP Solution Tools Plug-In	00		
			▲ ▶	₹ ⊁		
Status/Remark	s					
The over	view shows voi	u the inst	alled Add-ons and Preconfigured systems			
Choore [9]	TADT1 to ctart	on install:	tion or an ungrado			
- choose (START) to start an installation or an upgrade						
6 Drok	6	Sharek.	ק	Sec. Can and		
Back Back		start	J.	🔺 Cancel		

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

Add-On Ins	tallation To	ool - Version 7.40/0	0061			
🕄 🖉   😰 📘						
	Add-on I	Installation Tool: Add-	on selection			
Tostallable ådd or	Stack Configu n nackages for w	uration 🦗 Stack	XML File	]		
Installable Aug-or	Pelassa	Description		Dackson tune		
INVCEC	NGW_605	INVCEC NGW_605: Add-On	Installation			
-						
				· · ·		
		• •		< >		
Status/Remarks						
🚹 Select one o	r several packag	es from the installable Add-on	packages			
- Choose [CON]	TINUE) to start t	he calculation of the installati	on queue			
- Choose [BACK] to go back to the overview of the installed Add-ons						
- Choose [LOAD	)] to load additio	nal packages from the applica	ition server			
R Pack	Continu		Screen 1 / 6	Capcel		
Dark Dark	jes continu	e was Luau	Screen 1 / D			

Figure 3-4 Select Add-on

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

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

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

Add-On Installa	Add-On Installation Tool - Version 7.40/0061					
🥂 🙎   📔 📘						
Installation of several Add-ons : Calculated queue						
Installation queue	Software Components					
OCS nackages for imp	ort					
OCS Package	Package type	Software Compo	Release	Short descrip		
SAPK-N65COININVCEC	Installation	INVCEC	NGW_605	INVCEC NGW		
				<b>v</b>		
				• •		
Status/Remarks	and must be imported wh	en installing the Add				
Veu large packages must be imported when installing the Add-on						
Choose [CONTINUE] to add Modification Adjustment Transports to the gueue						
- Choose [BACK] to go back to the Support Package selection						
😼 Back 🛃	Continue	Logs Sci	reen 3 / 6	🗙 Cancel		

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<sup>®</sup> ECC RACE<sup>™</sup> Add-On

To verify the SAP<sup>®</sup> ECC RACE<sup>™</sup> add-on:

- | 3 Install RACE™ SAP® ECC and Gateway
  - 1. Run the transaction code **SE37**.
  - 2. Enter **object type** to search for all objects **/INVMGO/\***.

Figure 3-6 Function Builder Initial Screen

Function Builder: Initial Screen					
🖆 🥕 🐺 🔂   📅 🗔 🕪 Reassign					
ब्दि Display 🖉 Change 🗋 Create					

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

-uncti	inction Builder: Initial Screen						
i 🧪 🖣	🛱 🕂 🚺   📅 🗔 🚺 Reassign						
(	Ex Repository Info System: Eurotion Mo	udulas Find (22 Hits)					
unction I	E Repository into System. Function Me		-				
inccion			- ^				
	Function group	Function group short text					
r C	Function Module Name	Short text for function module					
			- 11				
	/INVMGO/EXTENSIONS_FG	Extensions					
	/INVMGO/BAPI_ATTACHMENTS_LIST	List of Attachments					
	/INVMGO/BAPI_ATTACH_DOWNLOAD	Attachment Download					
	/INVMGO/BAPI_DYNAMIC_DROPDOWN	Dynamic dropdown					
	/INVMGO/EXTENSION_STRING_FM	Preparing Extension String.					
	/INVMGO/FM_CUSTOM_DROPDOWN	Custom drop down					
	/INVMGO/FM_DYNAMICGET_FM_CALL	Get the transform orders list					
	/INVMGO/FM_DYNAMICPOST_FM_CALL	Get the transform orders list					
	/INVMGO/FM_DYNAMIC_MODULE_ADD	Get the transform orders list					
	/INVMGO/FM_FIELDS_PROCESS	Processing fields and store in final internal table					
	/INVMGO/FM_FUNCTION_FIELDS	Get the Function Module Parameters List					
	/INVMGO/FM_GET_FMLIST	Get the Function modules list for app specific					
	/INVMGO/FM_GET_TABLESLIST	Get the Function modules list for app specific					
	/INVMGO/GET_PARAMETERID_VALUES	Get Parameter ID vales					
	/INVMGO/SCOPING_FM	Scoping					
	/INVMGO/WHERE_CONDITIONS	Where Condition	_				
	/INVMGO/GLOBAL FG	Global FG					
	/INVMGO/BAPI EXTENSION	Extension Header					
	/INVMGO/BAPI UI LABELS	UI Labels based on Language					
	/INVMGO/BAPI USER DETAILS	Logon User Details					
	/INVMGO/FM CURRENCY EXCHNG	Currench Exchange Rate					
	/INVMGO/FM GET CUURENCY FORMAT	Currency Codes format					
	/INVMGO/FM GET DECIMAL FORMAT	Date Notation Format					
			-				

Figure 3-7 Function Module Classes

#### 3.1.2. Verify SAP® GW RACE™ Add-On

To verify the SAP<sup>®</sup> GW RACE<sup>™</sup> 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

🖻 Repository Info System: Class/Interfa	군 Repository Info System: Class/Interface Find (10 Hits)				
		_			
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_DOWNLOA	/INVCEC/IF_BAPI_ATTACH_DOWNLOA				
/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<sup>™</sup> SAP<sup>®</sup> 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<sup>™</sup> SAP<sup>®</sup> 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
--------	-----	-------

C	Support Package	<u>E</u> dit <u>G</u> oto E	extras <u>U</u> tilities	Engironment	System	Help
	Load packages	•	Erom Front B	End	1 6 2	🐺 🗾   🕜 🖪
	Import SPAM/SA)	INT Update	From Applica	ation Server		
	Import gueue	Shift+F7	- Version 7	7.40/0061		
	Confirm	Shift+F6				
	Exit	Shift+F3				
			_			

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**.

-		••	-	-					
¢	Support Pac	kage <u>E</u> d	it <u>G</u> oto	Extr <u>a</u> s <u>U</u> t	tilities En <u>v</u>	ironment	System	Help	
Q			◄ ଏ 🛛	🗘 🙆 (	R 🗆 I 🕅	<b>出</b>  名〔	C\$ C\$ C	Ж 🎤	🕜 🖪
2	Support	Packag	e Manag	er - Vers	ion 7.40	/0054			
Ģ	s 🕄 🖻 🗴	8 💅   🖪	1						
Qu	eue			6	🖉 Disp	lay/define	_]		
				6					

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

ē	C Component Selection						
Cho	ose the softw	are componen	t for which you want to import Support	: Packages			
8	I 🗔 Stack	XML file 🖌					
CompID Release Short Description of Component Support Package type							
	ECC-DIMP	600	DIMP	Add-on Support Pkg.			
	ERECRUIT	600	E-Recruiting	Add-on Support Pkg.	Ŧ		
	FI-CA	600	FI-CA	Add-on Support Pkg.			
	FI-CAX	600	FI-CA Extended	Add-on Support Pkg.			
	INSURANCE	600	SAP Insurance	Add-on Support Pkg.			
	IS-CWM	600	Industry Solution Catch Weight Mana	Add-on Support Pkg.			
	IS-H	600	SAP Healthcare	Add-on Support Pkg.			
	IS-M	600	SAP MEDIA	Add-on Support Pkg.			
	IS-OIL	600	IS-OIL	Add-on Support Pkg.			
	IS-PS-CA	600	IS-PUBLIC SECTOR CONTRACT ACCO	Add-on Support Pkg.			
	IS-UT	600	SAP Utilities/Telecommunication	Add-on Support Pkg.			
	LSOFE	600	SAP Learning Solution Front-End	Add-on Support Pkg.			
	SEM-BW	600	SEM-BW: Strategic Enterprise Manag	Add-on Support Pkg.			
	INVMGO	ECC_603	Innovapptive ECC RACE 6.0.3 Addon	Add-on Support Pkg.			
					Ŧ		
				🕂 All Components 🗟 😰	×		

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

Figure 3-13 Confirm Queue

[	Define Queue for the Add-On INVMGO rel. ECC_603							
	Choose the highest Support Package you want or confirm the queue							
	Package ID	CompID	Release	Short Description				
	SAPK-E6302ININVMG0	INVMGO	ECC_603	INVHGO ECC_603: SP 2				
ľ				•				
ŀ	4 ►							

- 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**.

C	Support Package	Edit <u>G</u> oto B	extras	Utilities	En⊻ironment	System	Help	
	Load packages	•	C Q	🔞   🗅	日日日	10.0.20	Ж 🛃	🔞 🖪
_	Import SPAM/SAIN	NT Update						
	Import gueue	Shift+F7	- Vei	rsion 7	.40/0054			
Ģ	<u>C</u> onfirm	Shift+F6						
	Exit	Shift+F3						
Q	Queue SAPK-E630							
C	Nirectory			Status				
0	New Support Package	BS		Queue is defined for the				
Aborted Support Packages				Software Component: INVMGO				
<ul> <li>Imported Support Packages</li> </ul>			SPAM status: OQO					
	All Support Packages			Next a	tion:	Import que	eue	
	ିଟ୍ୟ Display			<u>ଜ୍ୟ</u> ।	Package level	)		

Figure 3-14 Import Queue

10. Click  $\checkmark$  to start the import process.

Figure 3-15 Import Queue Confirm



11. Once the package is imported, a confirmation screen appears. Click  $\checkmark$  in 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.

C	Support Package Edit	<u>G</u> oto Ext	tr <u>a</u> s l	<u>J</u> tilities	Environment	System	Help
(	Load packages	•	C 🙆	🚷   🗅	日間日の	C: C: C	🐹 🔁   🚱 🖪
_	Import SPAM/SAINT Upp	date					
	Import gueue S	hift+F7	- Ver	sion 7.	40/0054		
6	<u>C</u> onfirm S	hift+F6					
	Exit S	hift+F3					
Q	Jeue SAPK-E63	30		<sup>e</sup> v	Display/define		
	Directory			Status			
(	New Support Packages			Queue	imported for t	ne	
(	Aborted Support Packages			Softwar	re Component	INVMGO	
(	Imported Support Packages	5		SPAM s	tatus:	040	
(	All Support Packages			Next ac	tion:	Confirm que	eue
	ିଙ୍ Display			ય જી	Package level	)	

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:

- 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

Act	Activate and Maintain Services								
		EO AU		LOAU Me	adata   🔤 Error Log   🏭 Request s		esii cau		SUIL SLALE
Service Catalog									
Туре	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 BL	ILDER_CUST	/UI2/	<ul> <li>Image: A start of the start of</li></ul>		
BEP	ZPAGE BUILDER PERS	1	Pagebuilder - Personalization level	PAGE BU	ILDER PERS	/UI2/	<b>v</b>		
BEP	ZPAGEBUILDER SERVICE V 0 1	1	Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBU	LDER SERVICE V 0 1	/UI2/	<ul> <li>Image: A start of the start of</li></ul>		
BEP	ZPP PRODOPS CONFIRM SRV	1	Confirm Production Order Operation	PP PRO	OPS CONFIRM SRV		<b>V</b>		
BEP	ZQUICKVIEW	1	Quickview Service	QUICKVI	EW	/UI2/	<b>v</b>		
BEP	/INVCEC/RACE_SRV	1	Global Extensions	RACE SF	V	/INVCEC/	<b>V</b>		
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider	RMTSAM	PLEFLIGHT	/IWFND/	<ul> <li>Image: A start of the start of</li></ul>		
BEP	ZRMTSAMPLEFLIGHT 2	1	OData Channel - Reference SFlight Data Provider	RMTSAM	PLEFLIGHT 2	/IWBEP/	<b>v</b>		
BEP	RSAO ODATA SRV	1	Tlogo and Bookmark access via Odata	RSAO O	DATA SRV		-	Not Supported	
BEP	S EPM SADL GW DEV SCEN RO SRV	1	EPM: SADL-based GW-Service 'NW 2013 Dev. Sce	S EPM S	ADL GW DEV SCEN RO SRV		<b>V</b>		
BEP	ZSAMPLE EPM EMPLOYEE LIST	1	Sample employee list service based on EPM	SAMPLE	EPM EMPLOYEE LIST	/UI2/	<b>v</b>		
BEP	ZSAMPLE EPM POWL CACHED	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CACHED	/UI2/	<ul> <li>Image: A start of the start of</li></ul>		
BEP	ZSAMPLE EPM POWL CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE	EPM POWL CODED	/UI2/	<b>v</b>		
BEP	ZSAMPLE EPM POWL CUST	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CUST	/UI2/	<b>V</b>		
BEP	ZSAMPLE POWL SFLIGHT ALL	1	Sample flight service based on POWL framework	SAMPLE	POWL SFLIGHT ALL	/UI2/	~		
		-	1						
ICF	Node I Call Browser SAP Gateway	Client			Eo Add System Alias Eo Remove Sys	tem Alias 66 Cust	omizing	Service Impler	nentation
A	Activate System Aliases								

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

The OData service is activated and the status turns green.

Act	Activate and Maintain Services									
	1 T M // 1 T Fitter	Add S	iervice 🕅 Delete Service 🔯 Service Details 🧭	Load Me	tadata 🛛 🖳 Error Lo	Request Statis	tics 🖸 🚱 Refi	resh Cata	alog 🔍 OAuth 🔌	Soft State
Serv	Service Catalog									
Туре	Technical Service Name	V. Se	ervice Description	External	Service Name	•	Namespace	OAut	Soft State Status	Is SAP Service
BEP	ZPAGEBUILDER SERVICE V 0 1	1 Ga	ateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBU	ILDER SERVICE V 0	1	/UI2/	1		
BEP	ZPP PRODOPS CONFIRM SRV	1 Co	onfirm Production Order Operation	PP PRO	DOPS CONFIRM SRV			<b>v</b>		
BEP	ZQUICKVIEW	1 Qu	uickview Service	QUICKV	EW		/UI2/	1		
BEP	/INVCEC/RACE_SRV	1 Glo	obal Extensions	RACE S	RV		/INVCEC/	<b>v</b>		
BEP	ZRMTSAMPLEFLIGHT	1 OE	Data Channel - Reference SFlight Data Provider	RMTSAN	PLEFLIGHT		/IWFND/	<b>v</b>		
BEP	ZRMTSAMPLEFLIGHT 2	1 00	Data Channel - Reference SFlight Data Provider	RMTSAN	PLEFLIGHT 2		/IWBEP/	<b>v</b>		
BEP	RSAO ODATA SRV	1 Tic	ogo and Bookmark access via Odata	RSAO C	DATA SRV			<b>v</b>	Not Supported	
BEP	S EPM SADL GW DEV SCEN RO SRV	1 EP	PM: SADL-based GW-Service 'NW 2013 Dev. Sce	S EPM	SADL GW DEV SCEN	N RO SRV		<b>v</b>		
BEP	ZSAMPLE EPM EMPLOYEE LIST	1 Sa	imple employee list service based on EPM	SAMPLE	EPM EMPLOYEE LIS	<u>st</u>	/UI2/	<b>v</b>		
BEP	ZSAMPLE EPM POWL CACHED	1 Sa	imple POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CACHE	2	/UI2/	1		
BEP	ZSAMPLE EPM POWL CODED	1 Sa	imple POWL for APPLID EPM_POWL (ABAP code)	SAMPLE	EPM POWL CODED		/UI2/	<b>v</b>		
BEP	ZSAMPLE EPM POWL CUST	1 Sa	imple POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CUST		/UI2/	1		
BEP	ZSAMPLE POWL SFLIGHT ALL	1 Sa	mple flight service based on POWL framework	SAMPLE	POWL SFLIGHT AL	L	/UI2/	<b>v</b>		
BEP	SEPM HANA EXT PAL ODATA SRV	1 SE	PM_HANA_EXT_PAL_ODATA	SEPM H	ANA EXT PAL ODA	TA SRV		1	Not Supported	
BEP	ZSM_CATALOG_SRV	1 So	ocial Media Remote Catalog OData Service	SM CAT	ALOG_SRV			-		
/ IO	CF Node ] Call Browser 🖽 SAP Gateway Clent									
ICF	Nodes				System Alias	es				
Statu	IS ICF Node Session Time-out Soft	State	Description		SAP System Alias	Description			Default	Metadata
COL	ODATA 00:00:00		Standard Mode							

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

- | 3 Install RACE<sup>™</sup> SAP<sup>®</sup> ECC and Gateway
  - 7. Click New Entries.

Figure 3-19 New Entries for System Alias

년 Table View Edit Goto Selection Util	ities S <u>v</u> stem	Help					
Ø 💽 🔹 🖣 🖗 🚱	😣 I 🗅 M K	81 10 10	2   🐹 🗾   😵 📭				
Change View "Assign SAP System Aliases to OData Service": Overview							
🞾 New Entries 🐚 📑 🖒 📑 🖪	🞾 New Entries 🛍 🖶 🖒 🗒 🖪						
Assign SAP ENew Entries (F5) Data Service							
Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default		

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

Figure 3-20 Assign SAP System Alias to Service

B Table View Edit. Goto Selection Litities System Help							
🖉 🔍 👻 😓 🛛 🕲 🖄 👘 👘 🕸 🕄 💭 🗊 🔽 🛛 🌚 🖳							
Change View "Assign SAP System Aliases to OData Service": Overview							
💖 New Entries 🗈 🗟 🕫 🖡 🖪	≫ New Entries D 品 ■ 副 局 B						
Assign SAP System Aliases to OData S	Assign SAP System Alases to OData Service						
Service Doc. Identifier	User Role Host Name	SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name	
/INVCEC/RACE_SRV_0001		ERD	✓		/INVCEC/RACE_SRV	RACE_SRV	*
							*

### 3.4. Activate UI5 Service

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

To activate UI5 Service:

- | 3 Install RACE™ SAP® ECC and Gateway
  - 1. Go to the transaction code SICF and navigate to /default\_host/sap/bc/bsp/invcec/ race\_2208\_ui5.
  - 2. Right-click RACE 2208 UI5 and click Activate Service.

로 Service/Host Edit <u>G</u> oto <u>Cl</u> ient System <u>H</u> elp								
🖉 🔄 💌 🖉 😓 🛛 🖧 😫 🗎 🖧 🛱 🛱 🛱 🖓 🛱 🖓 💭 💭 💭 💭								
Maintain service								
Create Host/Service 🤣 📅 🤂 🚹 🔿 External Alases 🔲 🏂 🏴 System Monitor Active 📲								
Filter Details       New Sub-Element         Urtual Host       Display Service         Description       Rename Service         Lang.       English         Activate Service       Deactivate Service         Deactivate Service       Deactivate Service         Image: Test Load Balancing       Referenz Service         Virtuelle Hosts / Services       References to Service         Virtuelle Hosts       Obj. Directory Entry         GeD NOT T       Solution         Sap       Gut         Vortuelle Hosts       Service rest or protectors represented         * Sap       Gut         * Sinvice       Deactivate rest or protectors represented         * Sinvice       Paste         * Sinvice       SAPUIS Application Handler SAPUIS Applic								

Figure 3-21 Activate RACE BSP Service

- 3. Click **Yes**.
- 4. Go to /default\_host/sap/bc/ui5\_ui5/ invcec/race\_2208\_ui5.

🔄 <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>(</u>	<u>Client Sy</u> stem <u>H</u> elp						
		1 \$1 \$1 \$1 \$1 \$ <b>5</b> 1 <b>0 5</b>					
Maintain service							
Country Hant/Country 🚳 🖙 🖓	🔲 🔿 Dutamal Alianaa 🔲 🎫	🖉 Contant Marillan Antina 👘					
Create Host/Service 🎲 🔟 😏	🔟 🤤 External Allases 🕕 🧷	, Pe System Monitor Active 📰					
Filter Details							
Virtual Host	Service Path						
ServiceName RACE_2208_	New Cub Flowert						
Description	New Sub-Element						
Lang. English	Display Service						
🔽 Apply 🔽 Rese	Delete Service						
	Rename Service						
	Activate Service						
Virtuelle Hosts / Services	Deactivate Service	Referenz Service					
▼ □ default_host	Test Service						
▼ <sup>©</sup> sap	Test Load Balancing	LIGED NOT T					
▼ ⊗ bc	References to Service	DNS)					
• 9 bsp	Obj. Directory Entry	ISP) RUNTIME					
• @ nvcec	Cut						
▼ (© ui5_ui5	Copy	APUIS Applic					
▼ Sinvcec	Paste						
• 🐨 race_2208_	uIS RACE UIS Application 2208						
	4 1	***					

Figure 3-22 Activate RACE UI5 service

- 5. Right-click RACE 2208 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\_2208\_ui5/ index.html?sap-client=100
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invcec/race\_2208\_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:

- | 3 Install RACE™ SAP® ECC and Gateway
  - 1. Go to the transaction code SICF and navigate to */default\_host/sap/bc/bsp/invcec/ race\_2208\_fiori*.
  - 2. Right-click **RACE 2208 FIORI** and click **Activate Service**.

Service/Host Edit Goto Client S	System <u>H</u> elp	
▼ « 🔚   🜏	1 🔁 🖸 🖓 I 🖶 II 🖉 🖓 🕄	]   📮 🔁   🕝 🖳
aintain service		
eate Host/Service 🦻 🔟 🧐 🖬 🖙 E	xternal Aliases 🛛 🐺 🏴 System M	onitor Active 📲
er Details	New Sub-Element	
rtual Host Se	ervice Display Service	
erviceName RACE_2208_FIORI	Delete Service	
escription	Rename Service	
ng. English 🔻 Re	ef.Sen	-
Apply Reset		
	Test Lead Balancia	
ulla Harts / Sapricas	Lest Load Balancing	Poforonz Sonico
default host VIE	TUAL References to Service	I Referenz Service
• 🕑 sap SAI	P NAM Obj. Directory Entry	_
▼ 🛞 bc BA	SIS TF <u>C</u> ut	
▼ S bsp BU	SINES <u>C</u> opy	
▼ (©) invcec nar	nespa <u>P</u> aste	
• 10 race_2208_tion KA	LE FION 2200 Application	
- ( <u>u</u> ) ub_ub	Pois Application Handler SAPOIS Applic	

- 3. Click Yes.
- 4. Go to /default\_host/sap/bc/ui5\_ui5/invcec/race\_2208\_fiori.

년 Service/Host Edit Goto Glient System Help									
📀 🔍 👻 🤤	🖉 🔄 👻 « 🔚 I 🕲 🕲 🖕 III 🖞 I 🏚 I 🎝 🛱 I 🗊 🖉 📮								
Maintain service									
Create Host/Service 🦻 📅 🛃 🗓	📄 🔿 External Aliases 🛛 🚺 🎇 🖡	System Monitor Active 🛛 🔚							
Filter Details									
Virtual Host	Service Path								
ServiceName RACE_2208_FIG	New Sub-Element								
Description	Display Service								
Lang. English	Delete Service								
P Apply Reset	Rename Service								
	Activate Service								
	Deactivate Service								
Virtuelle Hosts / Services	Test Service	Referenz Service							
▼ □ default_host	Test Load Balancing								
▼ Sap ▼ Ω bc	References to Service	ED NOT T							
• O bsp	Obj. Directory Entry	) RUNTIME							
► 🕑 invcec	Cut								
• (9) ui5_ui5	Copy	UI5 Applic							
• 💬 inveet	<u>P</u> aste								
	4 1								

Figure 3-24 Activate RACE FIORI service

- 5. Right-click RACE 2208 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\_2208\_fiori/ index.html?sap-client=100
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invcec/race\_2208\_fiori/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false.

# 3.6. Import RACE<sup>™</sup> SAP<sup>®</sup> 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 install 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**.

- | 3 Install RACE<sup>™</sup> SAP<sup>®</sup> ECC and Gateway
  - 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

Import Queue: System EH7							
🔁 🛎 🗮 🔍 🔍	7 ∔   🛷 🖹 🗉 🔜 🗞   🔒 븢 🔩   🚍 🖉   🚑 🗄 👔						
Requests for EH7: 0 / 82							
🔄 Add Transport Request to Import Queue							
Transp. Request	ERDK901948						
Import Queue	EH7 System EH7						
Import Again							

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

Select the transport request and click the **Transport** icon (highlighted by red in the screenshot).

Figure 3	3-27 Im	port C	lueue
----------	---------	--------	-------

Impor	t Queue: S	yste	m EH7			
Ø 🛎 🖥	F K Q 7 4	<mark>1</mark>   6	ê 🖹 🕄 🛼 🗟			
Reques 🖓 Reques	Requests for EH7: 0 / 1 01.08.2016 14:27:33					
Number	Request	RC	Owner	Short Text	St	
83	ERDK901948		E5000103		rí,	
- 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

Import Queue: System EH7							
Đ 🛓 🔻 🔍 🍞 🏦 I 🛠 🗎 🗉 🔜 🎧 I 🖴 븢 🔛 I 🛫 💶 I 🖉 🖪							
Requests for EH7: 0 / 1 Request ERDK901948     Number   Request   RC   Owner     83   ERDK901948   E5000103	Import Transport Request       Import Transport Request         Transport Request       ERDK901948         Target System       EH7         System EH7       System EH7         Target Clent       800         Targ.Clent=Source Clent         Date       Execution         Options         Import Options         VLeave Transport Request in Queue for Later Import         Import Transport Request Again         Overwrite Originals         Overwrite Objects in Unconfirmed Repairs         Ignore Non-Permitted Transport Type         Ignore Non-Permitted Table Class         Ignore Predecessor Relations						
	✓ Ignore Invalid Component Version						

- 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	16		

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 Transport:

- | 3 Install RACE™ SAP® ECC and Gateway
  - 1. Run the transaction code **SE37**.
  - 2. Enter **object type** to search for all objects **/INVMGO/\***.

Figure 3-30 Function Builder Initial Screen

Function Builder: Initial Screen				
🖆 🥕 🐺 🔂   📅 🗔 🕪 Reassign				
୫୦° Display 🖉 Change 🗋 Create				

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

Figure 3-31 Function	on Module Classes
----------------------	-------------------

nction Builder: Initial Screen					
* =	🛔 🕂 🚺   📅 🗔 🙌 Reassign				
(	E Ropository Info System: Eurotion Ma	dular Eind (22 Liter)			
on L	Ce Repository into system. Function Mo		6		
			- 1		
	Function group	Function group short text			
C	Function Module Name Short text for function module				
	/INVMGO/EXTENSIONS_FG	Extensions			
	/INVMGO/BAPI_ATTACHMENTS_LIST	List of Attachments			
	/INVMGO/BAPI_ATTACH_DOWNLOAD	Attachment Download			
L	/INVMGO/BAPI_DYNAMIC_DROPDOWN	Dynamic dropdown			
L	/INVMGO/EXTENSION_STRING_FM	Preparing Extension String.			
/INVMGO/FM_CUSTOM_DROPDOWN		Custom drop down			
I.	/INVMGO/FM_DYNAMICGET_FM_CALL	Get the transform orders list			
I.	/INVMGO/FM_DYNAMICPOST_FM_CALL	Get the transform orders list			
L	/INVMGO/FM_DYNAMIC_MODULE_ADD	Get the transform orders list			
L	/INVMGO/FM_FIELDS_PROCESS	Processing fields and store in final internal table			
L	/INVMGO/FM_FUNCTION_FIELDS	Get the Function Module Parameters List			
L.	/INVMGO/FM_GET_FMLIST	Get the Function modules list for app specific			
I.	/INVMGO/FM_GET_TABLESLIST	Get the Function modules list for app specific			
L	/INVMGO/GET_PARAMETERID_VALUES	Get Parameter ID vales			
	/INVMGO/SCOPING_FM	Scoping			
L	/INVMGO/WHERE_CONDITIONS	Where Condition			
L	/INVMGO/GLOBAL_FG	Global FG			
L	/INVMGO/BAPI_EXTENSION Extension Header				
L.	/INVMGO/BAPI_UI_LABELS	MGO/BAPI_UI_LABELS UI Labels based on Language			
L.	/INVMGO/BAPI_USER_DETAILS	MGO/BAPI_USER_DETAILS Logon User Details			
	/INVMGO/FM_CURRENCY_EXCHNG	Currench Exchange Rate			
	/INVMGO/FM_GET_CUURENCY_FORMAT	Currency Codes format			
1	/INVMGO/FM_GET_DECIMAL_FORMAT	Date Notation Format			
	4. 5				

## 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 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

PRepository Info System: Class/Interface Find (10 Hits)					
	-				
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 DOWNLOA	/INVCEC/IF BAPI ATTACH DOWNLOA				
/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				
/INVCEC/IF_ZDINSCREENCONF	/INVCEC/IF_2DINSCREENCONF				

## 3.6.4. Activate RACE™ OData Service

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

To activate the RACE™ OData:

- 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
--

Act	Activate and Maintain Services								
	🕲 히 🚍 🔊 🖂 🖂 🖂 The State								
Sen	/ice Catalog								
Туре	Technical Service Name	V Service Description	External Service Name	Namespace	OAut	Soft State Status	Is SAP Se		
BEP	ZPAGE BUILDER CUST	1 Pagebuilder - Customizing level	PAGE BUILDER CUST	/UI2/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	ZPAGE BUILDER PERS	1 Pagebuilder - Personalization level	PAGE BUILDER PERS	/UI2/					
BEP	ZPAGEBUILDER SERVICE V 0 1	1 Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBUILDER SERVICE V	<u>0 1</u> /UI2/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	ZPP PRODOPS CONFIRM SRV	1 Confirm Production Order Operation	PP PRODOPS CONFIRM SP	RV					
BEP	ZQUICKVIEW	1 Quickview Service	QUICKVIEW	/UI2/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	/INVCEC/RACE_SRV	1 Global Extensions	RACE_SRV	/INVCEC/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	ZRMTSAMPLEFLIGHT	1 OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT	/IWFND/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	ZRMTSAMPLEFLIGHT 2	1 OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT 2	/IWBEP/					
BEP	RSAO ODATA SRV	1 Tlogo and Bookmark access via Odata	RSAO 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 SC	EN RO SRV					
BEP	ZSAMPLE EPM EMPLOYEE LIST	1 Sample employee list service based on EPM	SAMPLE EPM EMPLOYEE	LIST /UI2/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	ZSAMPLE EPM POWL CACHED	1 Sample POWL for APPLID EPM_POWL (customizin_	SAMPLE EPM POWL CACH	IED /UI2/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	ZSAMPLE EPM POWL CODED	1 Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE EPM POWL CODE	D /UI2/	<ul> <li>Image: A start of the start of</li></ul>				
BEP	ZSAMPLE EPM POWL CUST	1 Sample POWL for APPLID EPM_POWL (customizin_	SAMPLE EPM POWL CUST	[ /UI2/	<b>V</b>				
BEP	ZSAMPLE POWL SFLIGHT ALL	1 Sample flight service based on POWL framework	SAMPLE POWL SFLIGHT A	ALL /UI2/	<ul> <li>Image: A start of the start of</li></ul>				
IC N	Node I Call Browser SAP Gateway	Client	Eo Add System Al	ias JE& Remove System Alias Kor Cus	tomizing	Service Impler	nentation		
A	Activate System Aliases								

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

Act	Activate and Maintain Services									
					1. 1919	1.0			150 150	
	🖴 🖻 🛍 😰 🔟 📲 🖌 🍞 Fiter	EO Ad	d Service 🔟 Delete Service 🔯 Service Details 🤮	Load Me	etadata 🛛 🐮 Error Loi	g 🛛 🏭 Request Statis	tics Ref	resh Cat	alog 🛛 🔍 OAuth 🕅 🍭	Soft State
Service Catalog										
Туре	Technical Service Name	^v	Service Description	Externa	Service Name	-	Namespace	OAut	Soft State Status	Is SAP Service
BEP	ZPAGEBUILDER SERVICE V 0 1	1	Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBL	ILDER SERVICE V 0	1	/UI2/	-		
BEP	ZPP PRODOPS CONFIRM SRV	1	Confirm Production Order Operation	PP PRC	DOPS CONFIRM SRV			<b>v</b>		
BEP	ZQUICKVIEW	1	Quickview Service	QUICKV	IEW		/UI2/	<b>v</b>		
BEP	/INVCEC/RACE_SRV	1	Global Extensions	RACE S	RV		/INVCEC/	<b>v</b>		
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider	RMTSA	APLEFLIGHT		/IWFND/	<b>v</b>		
BEP	ZRMTSAMPLEFLIGHT 2	1	OData Channel - Reference SFlight Data Provider	RMTSA	APLEFLIGHT 2		/IWBEP/	<b>v</b>		
BEP	RSAO ODATA SRV	1	Tlogo and Bookmark access via Odata	RSAO (	DDATA SRV			<b>v</b>	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	N RO SRV		-		
BEP	ZSAMPLE EPM EMPLOYEE LIST	1	Sample employee list service based on EPM	SAMPLE	EPM EMPLOYEE LIS	<u>5T</u>	/UI2/	<b>v</b>		
BEP	ZSAMPLE EPM POWL CACHED	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CACHE	D	/UI2/	-		
BEP	ZSAMPLE EPM POWL CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE	EPM POWL CODED		/UI2/	<b>v</b>		
BEP	ZSAMPLE EPM POWL CUST	1	Sample POWL for APPLID EPM_POWL (customizin_	SAMPLE	EPM POWL CUST		/UI2/	<b>V</b>		
BEP	ZSAMPLE POWL SFLIGHT ALL	1	Sample flight service based on POWL framework	SAMPLE	POWL SFLIGHT AL	L	/UI2/	<b>v</b>		
BEP	SEPM HANA EXT PAL ODATA SRV	1	SEPM_HANA_EXT_PAL_ODATA	SEPM H	ANA EXT PAL ODA	TA SRV		-	Not Supported	
BEP	ZSM_CATALOG_SRV	1	Social Media Remote Catalog OData Service	SM CA	TALOG SRV			-		
🖉 IO	IGF Node _   O Call Browser   = SAP Gateway Clent   Section 2016   Section 2									
ICF	Nodes				System Alias	es				
State	us ICF Node Session Time-out Soft	State	Description		SAP System Alias	Description			Default	Metadata
00	ODATA 00:00:00		Standard Mode							

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

- | 3 Install RACE<sup>™</sup> SAP<sup>®</sup> ECC and Gateway
  - 7. Click New Entries.

Figure 3-35 New Entries for System Alias

년able Viewditotoelectiontili	ties S <u>v</u> stem	Help					
Ø 🔹 🗸 🗐 🗞 🚱	😣 I 🗅 M K	81 10 10	2   🐹 🗾   😵 📑				
Change View "Assign SAP System	m Aliases t	o OData Si	ervice": Overview				
🎾 New Entries 🐚 🖬 🕼 🖪 🖪	🌮 New Entries 🐚 🖶 🕼 🖪						
Assign SAP c New Entries (F5) Jata Service							
Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	Metadata Default		

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

Figure 3-36 Assign SAP System Alias to Service

Table View Edit Goto Se	election <u>U</u> tilities S <u>v</u> stem	Help						
🖉 💽 👻 😓 🛛 🖏 🖄 🗳 🖄 🖏 🕄 🖏 🕄 💭 💭 🖉								
Change View "Assign S	SAP System Aliases to	o OData Service": O	verview					
🧐 New Entries 🗈 🗟 🗐 🖡	🦻 New Entries 🗓 民 🕫 🎚 🖡 🗈							
Assign SAP System Aliases to ODat	a Service							
Service Doc. Identifier	User Role Host	Name SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name		
/INVCEC/RACE_SRV_0001		ERD	1	✓	/INVCEC/RACE_SRV	RACE_SRV	*	
							•	

## 3.6.5. Activate UI5 Service

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

To activate UI5 Service:

- | 3 Install RACE™ SAP® ECC and Gateway
  - 1. Go to the transaction code SICF and navigate to /default\_host/sap/bc/bsp/invcec/ race\_2208\_ui5.
  - 2. Right-click RACE 2208 UI5 and click Activate Service.

로 <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> li	☞ <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> lient System <u>H</u> elp						
🖉 💽 👻 🤘	🔮 📄 🚽 🖉 😓 🛛 🚔 🏦 🎼 🏦 🏦 🎝 🎝 🎝 🎵 📰 🐨 💭						
Maintain service							
Create Host/Service 😚 📅 🛃 🗄	🛯 🖨 External Aliases 🛛 🏹	System Monitor Active 📲					
Filter Details       Virtual Host       ServiceName       RACE_2206_UI       Description       Lang.       English       Virtuelle Hosts / Services <ul> <li>Galattic Host</li> <li>Sap</li> <lu> <li>ServiceName</li> <li>ServiceName</li> <li>Reset</li> </lu></ul> Virtuelle Hosts / Services <ul> <li>Galattic Host</li> <li>Sap</li> <li>Service</li> <li>Reset</li> <li>Reset</li> <li>ServiceName</li> <li>ServiceNam</li> <li>ServiceNam</li> <li>Servic</li></ul>	New Sub-Element Display Service Delete Service Rename Service Deactivate Service Deactivate Service Test Load Balancing References to Service Obj. Directory Entry Qut Copy Paste New Obj Application Handler S	GED NOT T 5) ) RUNTIME APUIS Applc					
	< >						

Figure 3-37 Activate RACE BSP Service

- 3. Click Yes.
- 4. Go to /default\_host/sap/bc/ui5\_ui5/ invcec/race\_2208\_ui5.

E Service/Host Edit Goto 9	Client System Help	I \$ \$ \$ \$ \$ \$ \$   \$ \$ \$   \$ \$
Maintain service	፤ 🔿 External Aliases 🔲 🏷	5 Me System Monitor Active 📲
Filter Details       Virtual Host       ServiceName       RACE_2208_       Description       Lang.       English       Image: The serviceName	Service Path New Sub-Element Display Service Delete Service Rename Service	
Virtuelle Hosts / Services Virtuelle Hosts / Services C default_host C sap C bc C bsp C bc C more C arce_2208 C out_ut5 C out	Activate Service Deactivate Service Test Service Test Load Balancing References to Service Obj. Directory Entry Qut Sopy Paste	Referenz Service LIGED NOT T PNS) SP) RUNTIME APUIS Applic
• 😒 invec • 😨 race_2208_	Paste IRACE UIS Application 2208	J

Figure 3-38 Activate RACE UI5 service

- 5. Right-click RACE 2208 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\_2208\_ui5/ index.html?sap-client=100
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invcec/race\_2208\_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:

- | 3 Install RACE™ SAP® ECC and Gateway
  - 1. Go to the transaction code SICF and navigate to */default\_host/sap/bc/bsp/invcec/ race\_2208\_fiori*.
  - 2. Right-click RACE 2208 FIORI and click Activate Service.

☞ <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> lient	: S <u>y</u> sten	n <u>H</u> elp	
🖉 🔹 🗸 😵	🛛 🚷		
Maintain service			
Create Host/Service 🔌 📅 🗿 🗓	📫 Externa	l Aliases 🛛 🏹 🏓 System Mo	nitor Active 📲
Filter Details		New Sub-Element	
Virtual Host	Service	Display Service	
ServiceName RACE_2208_FIOR	I	Delete Service	
Description		Rename Service	
Lang. English	Ref.Sen	Activate Service	
🍞 Apply 🛣 Reset		Deactivate Service	
		Test Service	
		Test Load Balancing	
Virtuelle Hosts / Services Docume		References to Service	Referenz Service
<ul> <li>Image: Image: Ima</li></ul>	VIRTUAL	– Obi. Directory Entry	
▼ Sap	▼ Sap SAP NAM		
• ODC	BASIS II	Copy	
✓ Usp ✓ Op invcec	namespa	Date	
• 🕲 race_2208_fiori	RACE Fio		
▶ 1 ui5_ui5	SAPUI5 A	pplication Handler SAPUIS Applic	
	4 1		***

Figure 3-39 Activate RACE FIORI Service

- 3. Click Yes.
- 4. Go to /default\_host/sap/bc/ui5\_ui5/invcec/race\_2208\_fiori.

년 <u>S</u> ervice/Host Edit Goto Clier	nt S <u>y</u> stem <u>H</u> elp	
📀 🔍 👻 🤤	🗟 🙆 🖳   🖨 🕅 🚯   🎗	1 🗅 🞝 🗊   🛜 🔁   🞯 🖳
Maintain service		
Create Host/Service 🦻 📅 🔁 🚺	🔿 External Aliases 🛛 🚺 🎇 🏴	System Monitor Active 📲
Filter Details		
Virtual Host	Service Path	
ServiceName RACE_2208_FIG	New Sub-Element	
Description	Display Service	
Lang. English	Delete Service	
📅 Apply 🚾 Reset	Rename Service	
	Activate Service	
	Deactivate Service	
Virtuelle Hosts / Services	Test Service	Referenz Service
Image: Contract of the second seco	Test Load Balancing	
• 👽 sap • 🖓 hc	References to Service	10 NOT 1
• 🕑 bsp	Obj. Directory Entry	, RUNTIME
🕨 🞯 invcec	<u>C</u> ut	
• 10 inverse	<u>C</u> opy	UI5 Applic
• 🕲 race 2208 for	<u>P</u> aste	
	4 1	
	• •	

Figure 3-40 Activate RACE FIORI service

- 5. Right-click RACE 2208 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\_2208\_fiori/ index.html?sap-client=100
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invcec/race\_2208\_fiori/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false.

# 4. Install mWorkOrder SAP® ECC, Gateway, and UI5

**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.

Туре	Add-On	Description	Dependency
Add-On	EZY0021310268 0000005.PAT	INNOV: MWO:2208 SP02 ECC Objects	Install RACE <sup>™</sup> Add- On (EZY0021310268 0000004.PAT) be- fore installing the mWO Add-On (EZY0021310268 0000005.PAT)

### Table 4-1 MWO ECC Add-On and Support Packages

#### Table 4-2 MWO Gateway Add-On and Support Packages

Туре	Add-On	Description	Dependency
Add-On	NZY0021310268 0000007.PAT	INNOV MWO 2208 SP02 Gateway Ob- jects	Install RACE <sup>™</sup> Add- On (NZY0021310268 0000006.PAT) be- fore installing the mWO Add-On (NZY0021310268 0000007.PAT)

Туре	Add-On	Description	Dependency
Support Pack - SP01	NZY0021310268 0000009.PAT	INNOV MWO 2208 SP01 UI5 Application	Install mWO Add-on (NZY0021310268 0000007.PAT) before importing the support pack SP01
Support Pack - SP02	NZY0021310268 0000055.PAT	INNOV MWO 2208 SP02 FIORI Application	Install mWO Add-on (NZY0021310268 0000052.PAT) before importing the support pack SP02

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

For steps to install Add-ons, see Install mWorkOrder SAP® ECC, Gateway and UI5 Add-ons and support packs *(on page 48)*.

## 4.1. Install mWorkOrder SAP® ECC, Gateway and UI5 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 now you want to install the support packs (hotfixes), follow the procedure detailed in Install mWorkOrder SAP® ECC, Gateway, and UI5 Support packs (on page 55).

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

- 1. Extract the zip or .rar files that you received from Innovapptive representative and save the files 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.



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-N65C	OININVCEC	000	0000	Uploaded successfully	1

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

Figure 4-3	Installed	Add-ons
------------	-----------	---------

Add-On I	nstallation	n Tool	- Version 7.40/0061	
🕄 🧟   📔 🛛	8			
	Add-0	)n Insta	llation Tool : Installed Add-ons	
Add-ons and	Preconfigured :	Systems i	nstalled in the system	
Add-on/PCS	Release	Level	Description	Import 🛄
PI_BASIS	740	0008	Basis Plug-In	00
SAP_ABA	740	0008	Cross-Application Component	00
SAP_BASIS	740	0008	SAP Basis Component	00
SAP_BW	740	0008	SAP Business Warehouse	00
SAP_GWFND	740	0012	SAP Gateway Foundation 7.40	00
SAP_UI	740	0009	User Interface Technology 7.40	00
ST-PI	740	0000	SAP Solution Tools Plug-In	00
				*
				Υ.
			▲ ►	< >
Status/Remark	s			
C The over	view shows vou	u the inst	alled Add-ons and Preconfigured systems	
Choose [S]	TART1 to start	an installa	ation or an ungrade	
choose [o	i Aiti j to start	arrinstan		
Back	[B] 9	Start		× Cancel

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

Add-On Ins	tallation T	ool - Version 7.40/	0061	
🧟 📓   😰 🛅				
	Add-on	Installation Tool: Add-	on selection	
88 🛛 🛸	Stack Config	uration 🔍 🔍 Stack	XML File	
Installable Add-o	in packages for y	your system		
Add-On	Release	Description		Package type
INVCEC	NGW_605	INVCEC NGW_605: Add-Or	Installation	Installation
				÷
				×
				4 >
Status/Remarks				
G Select one of	or several packad	es from the installable Add-or	n packages	
- Choose [CON	TINUE) to start	, the calculation of the installat	ion queue	
- Choose [BåCk	() to go back to	the overview of the installed	Add-ons	
- Choose [LOAI	n] to load additic	anal nackanes from the annic	ation server	
- Choose [LOAI	b) to load additio	onal packages norm the applic	auuriservei	
6 Daala	D Continu	un 🙆 Loud	Courses 1.1.C	Cancel
Back Back	Continu		Screen 1 / 6	A Cancel

Figure 4-4 Select Add-on

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

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

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

Add-On Installa	tion Tool - Versia	on 7.40/0061		
🧐 📓   📓 📘				
Inst	allation of several	Add-ons : Calcula	ted queue	
Installation queue	Software Components			
OCS packages for im-	~~**			
OCS packages for imp	Dackage tune	Software Compo	Release	Short descript
SARK-NESCOTNENVCEC	Installation	TANCEC	NGW 605	
SAPK-NOSCOINIIVACEC	Installation	INVCEC	NGW_005	INVCEC INGYY
				Y
	<b>↓ ▶</b>			< >
Status/Remarks				
🚹 The displayed pack	ages must be imported w	hen installing the Add-	on	
- You have not select	ed any further Support Pa	ackages		
- Choose [CONTINUE]	) to add Modification Adju:	stment Transports to 1	the queue	
- Choose [BACK] to g	o back to the Support Pa	ckage selection		
🔂 Back 🛃	Continue S	Logs Sci	reen 3 / 6	🗙 Cancel

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 MWO Add-On

To verify the SAP® ECC MWO add-on:

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

Figure 4-6 Function Builder Initial Screen

Function Builder: Initial Screen	
🖆 🥕 🐺 🔂   📅 🗊 🚯 Reassign	
Function Module /INVMWO/*	

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

Figure 4-7 Function Modules

Function Builder: Initial Screen									
i 🥕 🖲	° 蒼 輻 吗 ፤   ጬ [] 帥 Reassign								
	🗁 Repository Info System: Function Mo	dules Find (152 Hits)		×					
Function I				-					
	Function group	Function group short text		-					
68° [	Function Module Name	Short text for function module							
	(THREED (FORD, DELETE	D-1-+- DODD							
	/INVMWO/FGRP_DELETE	delete objects							
	, INVINO, III_DEDETE								
	/INVMWO/FG_WO_INSPECT_LOT	FG for mWorkOrder inspectionlot							
	/INVMWO/BAPI_INSPECLOT_NO_LIST	Function Module for Inspection Lot Number List							
	/INVMWO/BAPI_INSPLOT_CODEGROUP	List of codes							
	/INVMWO/BAPI_INSPLOT_ORIGNLIST	Inspection lot origin list							
	/INVMWO/BAPI_INSP_CHAR_LIST	List of Inspection lot Characteristics							
	/INVMWO/BAPI_INSP_LOT_CHAR_DET	Inspection Lot Characteristics							
	/INVMWO/BAPI_INSP_LOT_CLASSES	Characteristic Classes							
	/INVMWO/BAPI_INSP_LOT_CLASSES1	Inspection Lot classes with upper and lower limits							
	/INVMWO/BAPI_INSP_OPERATIONS	List Inspection lot operations							
	/INVMWO/BAPI_INSP_RECORDRESULT	Inspection Lot Record Result							
	/INVMWO/BAPI_INSP_SINGLE_VALUE	Insp. result-single value level							
	/INVMWO/BAPI_SPECFICANINSPCLOT	Specification for the Inspection Lot							
	/INVMWO/BAPI_UDCODE_LIST	BAPI Usage Decision Code List							
	/INVMWO/FM_ATTRIBUTE	Inspection Lot Attribute	_						
	/INVMWO/FG WO USAGE DEC	FG for mWorkOrder Usage Decision							
	/INVMWO/BAPI CHARACTERSTICS	Inspection Lot Characterstics							
	/INVMWO/BAPI DEFECTS GET	Defects List							
	/INVMWO/BAPI INSP LOT STOCK	Inspection Lot Stock							
	/INVMWO/BAPI USAGE DEC LIST	Usage Decision Search							
	/INVMWO/BAPI USAGE DEC SAVE	Create Usage Decision							
				Ŧ					
	< >		4 1						
-			-						
		W Koll 41 4 b b 6 C (M) Koll New Selection	<b>PG</b>	X					

4.1.2. Verify SAP® GW MWO Add-On

To verify the SAP® GW MWO add-On:

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

Figure 4-8 Function Builder Initial Screen

Function Builder: Initial Screen	
🖆 🥕 🐺 🖬   📅 🗊 🔅 Reassign	
Function Module /INVMWO/*	
😚 Display 🖉 Change 🗋 Create	

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

CP Repostory Info System: Class/Interface Find (200 Hits)         Cobject Type Name       Short Description         Cobject Type Name       Short Description         Cobject Type Name       Data Provider Base Class         /INVMNO/CL_MWORKORDER_DPC       Data Provider Secondary Class         /INVMNO/CL_MWORKORDER_MPC       Data Provider Secondary Class         /INVMNO/CL_MWORKORDER_MPC       INVMNO/CL_MWORKORDER_MPC         /INVMNO/IF_BAPI_ACTIVITY_TYPI       /INVMNO/IF_BAPI_ACTIVITY_TYPI         /INVMNO/IF_BAPI_ACTIVITY_TYPI       /INVMNO/IF_BAPI_ACTIVITY_TYPE         /INVMNO/IF_BAPI_ATTACH_DOWNLI       /INVMNO/IF_BAPI_ATTACH_DOWNLI         /INVMNO/IF_BAPI_ATTACH_DOWNLIA       /INVMNO/IF_BAPI_ATTACH_DOWNLIA         /INVMNO/IF_BAPI_ATTACHMENT_CRE       /INVMNO/IF_BAPI_ATTACHMENT_CRE         /INVMNO/IF_BAPI_ATTACHMENT_S_I       /INVMNO/IF_BAPI_ATTACHMENTS_I         /INVMNO/IF_BAPI_ATTACHMENTS_I       /INVMNO/IF_BAPI_ATTACHMENTS_I         /INVMNO/IF_BAPI_ATTACHMENTS_I       /INVMNO/IF_BAPI_ATTACHMENTS_I         /INVMNO/IF_BAPI_ATTACHMENTS_I       /INVMNO/IF_BAPI_ATTACHMENTS_I         /INVMNO/IF_BAPI_ATTACHMENTS_I       /INVMNO/IF_BAPI_CALCU_KEY_LIST         /INVMNO/IF_BAPI_ATTACHMENTS_I       /INVMNO/IF_BAPI_CALCU_KEY_LIST         /INVMNO/IF_BAPI_CHAR_UNIT       /INVMNO/IF_BAPI_CALCU_KEY_LIST         /INVMNO/IF_BAPI_CHAR_CIRISTI				
E* Repository Info System: Class/Interface Find (200 Hits)         D         Object Type Name       Short Description         D       /INVMWO/CL_MWORKORDER_DPC         DI       Data Provider Base Class         DI/INVMWO/CL_MWORKORDER_DPC_EXT       Data Provider Secondary Class         /INVMWO/CL_MWORKORDER_MPC_EXT       Data Provider Base Class         /INVMWO/CL_MWORKORDER_MPC_EXT       INVMWO/CL_MWORKORDER_MPC_EXT         /INVMWO/IF_BAPI_ACTIVITY_TYPI       /INVMWO/IF_BAPI_ACTIVITY_TYPI         /INVMWO/IF_BAPI_APPLABEL_GET       /INVMWO/IF_BAPI_APPLABEL_GET         /INVMWO/IF_BAPI_APPLABEL_GET       /INVMWO/IF_BAPI_APPLABEL_GET         /INVMWO/IF_BAPI_ATTACH_DOWNLOA       /INVMWO/IF_BAPI_ATTACH_DOWNLOA         /INVMWO/IF_BAPI_ATTACH_DOWNLOA       /INVMWO/IF_BAPI_ATTACHMENT_CI         /INVMWO/IF_BAPI_ATTACHMENT_CI       /INVMWO/IF_BAPI_ATTACHMENT_CRE         /INVMWO/IF_BAPI_ATTACHMENT_LI       /INVMWO/IF_BAPI_ATTACHMENT_CRE         /INVMWO/IF_BAPI_ATTACHMENT_LI       /INVMWO/IF_BAPI_ATTACHMENT_LI         /INVMWO/IF_BAPI_ATTACHMENT_LI       /INVMWO/IF_BAPI_ATTACHMENT_LI         /INVMWO/IF_BAPI_ATTACHMENT_LI       /INVMWO/IF_BAPI_ATTACHMENT_LI         /INVMWO/IF_BAPI_CALCU_KEY_LIST       /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CALCU_KEY_LIST       /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_B				
D       Object Type Name       Short Description         D       /INVMWO/CL_MWORKORDER_DPC       Data Provider Base Class         /INVMWO/CL_MWORKORDER_DPC_EXT       Data Provider Secondary Class         /INVMWO/CL_MWORKORDER_MPC       /INVMWORKORDER_MPC         /INVMWO/CL_MWORKORDER_MPC       /INVMWORKORDER_MPC         /INVMWO/CL_MWORKORDER_MPC       /INVMWORKORDER_MPC         /INVMWO/CL_MWORKORDER_MPC       /INVMWORKORDER_MPC         /INVMWO/IF_BAPI_ACTIVITY_TYPI       /INVMWO/CL_MWORKORDER_MPC         /INVMWO/IF_BAPI_ACTIVITY_TYPI       /INVMWO/IF_BAPI_ACTIVITY_TYPE_         /INVMWO/IF_BAPI_ATTIVITY_TYPI       /INVMWO/IF_BAPI_ATTIXCH_DOWNIO         /INVMWO/IF_BAPI_ATTACH_DOWNLOA       /INVMWO/IF_BAPI_ATTACH_DOWNLOA         /INVMWO/IF_BAPI_ATTACHMENT_CRE       /INVMWO/IF_BAPI_ATTACHMENT_CRE         /INVMWO/IF_BAPI_ATTACHMENT_CRE       /INVMWO/IF_BAPI_ATTACHMENT_DEL         /INVMWO/IF_BAPI_ATTACHMENTS_LI       /INVMWO/IF_BAPI_ATTACHMENTS_LI         /INVMWO/IF_BAPI_ATTACHMENTS_LI       /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CALCU_KEY_LIST       /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CALCU_KEY_LIST       /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CHAR_CTERISTIC       /INVMWO/IF_BAPI_CHAR_CTERISTIC         /INVMWO/IF_BAPI_CHAR_CTERISTIC       /INVMWO/IF_BAPI_CHAR_CTERISTIC <tr< th=""><th>F</th><th>Repository Info System: Class/Interfa</th><th>ace Find (200 Hits)</th><th>X</th></tr<>	F	Repository Info System: Class/Interfa	ace Find (200 Hits)	X
Dipect Type Name         Short Description           Dipect Type Name         Short Description           /INVMWO/CL_MWORKORDER_DPC_EXT         Data Provider Base Class           /INVMWO/CL_MWORKORDER_MPC_EXT         Data Provider Secondary Class           /INVMWO/CL_MWORKORDER_MPC_EXT         /INVMWO/CL_MWORKORDER_MPC_EXT           /INVMWO/IF_BAPI_ACTIVITY_TYPE         /INVMWO/IF_BAPI_ACTIVITY_TYPE           /INVMWO/IF_BAPI_ACTIVITY_TYPE         /INVMWO/IF_BAPI_ACTIVITY_TYPE           /INVMWO/IF_BAPI_APPLABEL_GET         /INVMWO/IF_BAPI_ACTIVITY_TYPE           /INVMWO/IF_BAPI_ATTACH_DOWNLOA         /INVMWO/IF_BAPI_ATTACH_DOWNLOA           /INVMWO/IF_BAPI_ATTACH_DOWNLOA         /INVMWO/IF_BAPI_ATTACHMENT_C1           /INVMWO/IF_BAPI_ATTACHMENT_C1         /INVMWO/IF_BAPI_ATTACHMENT_C1           /INVMWO/IF_BAPI_ATTACHMENT_C1         /INVMWO/IF_BAPI_ATTACHMENT_C1           /INVMWO/IF_BAPI_ATTACHMENT_LEX         /INVMWO/IF_BAPI_ATTACHMENT_LEX           /INVMWO/IF_BAPI_ATTACHMENTS_LI         /INVMWO/IF_BAPI_ATTACHMENTS_LI           /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CALCU_KEY_LIST           /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CALCU_KEY_LIST           /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CALCU_KEY_LIST           /INVMWO/IF_BAPI_CALCU_KEY_LIST         /INVMWO/IF_BAPI_CALCU_KEY_LIST           /INVMWO/IF_BAPI_CALCU_KEY_LIST	typ	Reposicoly and byseem classy meene		
Object Type Name         Short Description           Di         /INVMWO/CL_MWORKORDER_DPC         Data Provider Base Class           /INVMWO/CL_MWORKORDER_MPC         Data Provider Secondary Class           /INVMWO/CL_MWORKORDER_MPC         /INVMWO/CL_MWORKORDER_MPC           /INVMWO/CL_MWORKORDER_MPC_EXT         /INVMWO/CL_MWORKORDER_MPC_EXT           /INVMWO/IF_BAPI_ACTIVITY_TYPE         /INVMWO/IF_BAPI_ACTIVITY_TYPE           /INVMWO/IF_BAPI_ACTIVITY_TYPE         /INVMWO/IF_BAPI_ACTIVITY_TYPE           /INVMWO/IF_BAPI_APPLABEL_GET         /INVMWO/IF_BAPI_APPLABEL_GET           /INVMWO/IF_BAPI_ATPLABEL_GET         /INVMWO/IF_BAPI_ATPLABEL_GET           /INVMWO/IF_BAPI_ATTACH_DOWNLO         /INVMWO/IF_BAPI_ATTACH_DOWNLO           /INVMWO/IF_BAPI_ATTACH_DOWNLO         /INVMWO/IF_BAPI_ATTACH_DOWNLO           /INVMWO/IF_BAPI_ATTACHMENT_C1         /INVMWO/IF_BAPI_ATTACH_DOWNLO           /INVMWO/IF_BAPI_ATTACHMENT_C2         /INVMWO/IF_BAPI_ATTACHMENT_C3           /INVMWO/IF_BAPI_ATTACHMENT_D1         /INVMWO/IF_BAPI_ATTACHMENT_L4           /INVMWO/IF_BAPI_ATTACHMENT_D1         /INVMWO/IF_BAPI_ATTACHMENT_L4           /INVMWO/IF_BAPI_ATTACHMENT_D1         /INVMWO/IF_BAPI_ATTACHMENT_L4           /INVMWO/IF_BAPI_ATTACHMENT_L4         /INVMWO/IF_BAPI_ATTACHMENT_L4           /INVMWO/IF_BAPI_ATTACHMENT_L4         /INVMWO/IF_BAPI_ATTACHMENT_L4           /INVMWO/IF_BAPI_ATT				 - 8
Di /INVMWO/CL_MWORKORDER_DPC Data Provider Base Class /INVMWO/CL_MWORKORDER_MPC_EXT /INVMWO/CL_MWORKORDER_MPC_EXT /INVMWO/CL_MWORKORDER_MPC_EXT /INVMWO/CL_MWORKORDER_MPC_EXT /INVMWO/CL_MWORKORDER_MPC_EXT /INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ACTIVITY_TYP2 /INVMWO/IF_BAPI_APILABEL_GET1 /INVMWO/IF_BAPI_APILABEL_GET1 /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C2 /INVMWO/IF_BAPI_ATTACHMENT_C2 /INVMWO/IF_BAPI_ATTACHMENT_C2 /INVMWO/IF_BAPI_ATTACHMENT_C2 /INVMWO/IF_BAPI_ATTACHMENT_D2 /INVMWO/IF_BAPI_ATTACHMENT_D2 /INVMWO/IF_BAPI_ATTACHMENT_S1 /INVMWO/IF_BAPI_ATTACHMENT_S1 /INVMWO/IF_BAPI_ATACHMENTS1 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L13 /INVMWO/IF_BAPI_CALCUTARACTERST1C /INVMWO/IF_BAPI_CALCUTARACTERST1C /INVMWO/IF_BAPI_CALCUTARACTERST1C /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L13 /INVMWO/IF_BAPI_CONTROLKEY_L13 /INVMWO/IF_BAPI_CONTROLKEY_L13 /INVMWO/IF_BAPI_CONTROLKEY_L13 /INVMWO/IF_BAPI_CONTROLKEY_L13 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF_BAPI_CONTROLKEY_L155 /INVMWO/IF BAPI_CONTROLKEY_L155 /INVMWO/IF BAPI_CONTROLKEY_L155 //INV	01	bject Type Name	Short Description	
<pre>/INVMWO/CL_MWORKORDER_DEC Data Provider Base Class /INVMWO/CL_MWORKORDER_MEC /INVMWO/CL_MWORKORDER_MEC /INVMWO/CL_MWORKORDER_MEC /INVMWO/CL_MWORKORDER_MEC /INVMWO/IF_BAPI_ACTIVITY_TYPI /INVMWO/IF_BAPI_ACTIVITY_TYPI /INVMWO/IF_BAPI_ACTIVITY_TYPI /INVMWO/IF_BAPI_APILABEL_GET /INVMWO/IF_BAPI_ACTIVITY_TYPE /INVMWO/IF_BAPI_APILABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACHMENT_CC /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACHMENT_CC /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_DEL /INVMWO/IF_BAPI_ATTACHMENT_DEL /INVMWO/IF_BAPI_ATTACHMENT_DEL /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENT_S_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALACTERISTI /INVMWO/IF_BAPI_CALACTERISTIC /INVMWO/IF_BAPI_CALACTERISTIC /INVMWO/IF_BAPI_CALACTERISTIC /INVMWO/IF_BAPI_CALACTERISTIC /INVMWO/IF_BAPI_CALACTERISTIC /INVMWO/IF_BAPI_CALACTERISTIC /INVMWO/IF_BAPI_CALACTERISTIC /INVMWO/IF_BAPI_CANACTERISTIC /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF BAPI_CONTROLKEY_LIS</pre>	Di			 
<pre>/INVMWO/CL_MWORKORDER_DEC_EXT Data Provider Secondary Class /INVMWO/CL_MWORKORDER_MEC_EXT /INVMWO/LI_MKORKORDER_MEC_EXT /INVMWO/LI_MKORKORDER_MEC_EXT /INVMWO/IF_BAPI_ACTIVITY_TYP /INVMWO/IF_BAPI_ACTIVITY_TYP /INVMWO/IF_BAPI_ACTIVITY_TYP /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_ATTACH_DOWNLO /INVMWO/IF_BAPI_ATTACH_DOWNLO /INVMWO/IF_BAPI_ATTACH_DOWNLOA /INVMWO/IF_BAPI_ATTACH_DOWNLOA /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_S1 /INVMWO/IF_BAPI_ATTACHMENT_S1 /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHAR_CTERISTIC /INVMWO/IF_BAPI_CHAR_CTERISTIC /INVMWO/IF_BAPI_CHAR_CTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS</pre>	/:	INVMWO/CL_MWORKORDER_DPC	Data Provider Base Class	
<pre>/INVMWO/CL_MWORKORDER_MEC /INVMWO/CL_MWORKORDER_MEC_EXT /INVMWO/IF_BAPI_ACTIVITY_TYPE /INVMWO/IF_BAPI_ACTIVITY_TYPE /INVMWO/IF_BAPI_ACTIVITY_TYPE /INVMWO/IF_BAPI_ACTIVITY_TYPE /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS</pre>	1	INVMWO/CL_MWORKORDER_DPC_EXT	Data Provider Secondary Class	
<pre>/INVMWO/CL_MWORKDRER_MEC_EXT /INVMWO/CL_MMORKORDER_MEC_EXT /INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ACTIVITY_TYP2 /INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ATPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACHMENT_CC /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_CCE /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_I /INVMWO/IF_BAPI_ATTACHMENTS_I /INVMWO/IF_BAPI_ATTACHMENTS_I /INVMWO/IF_BAPI_ATTACHMENTS_LI /INVMWO/IF_BAPI_ATTACHMENTS_I /INVMWO/IF_BAPI_ATTACHMENTS_LI /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHAR_UNIT /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHAR_CTERISTI /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHARACTERISTI /INVMWO/IF_BAPI_CHARACTERISTI /INVMWO/IF_BAPI_CHARACTERISTI /INVMWO/IF_BAPI_CHARACTERISTI /INVMWO/IF_BAPI_CHARACTERISTI /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CHARACTERISTICS /INVMWO/IF_BAPI_CONTROLKEY_LIS</pre>	1	INVMWO/CL_MWORKORDER_MPC	/INVMWO/CL_MWORKORDER_MPC	
<pre>/INVMWO/IF_BAPI_ACTIVITY_TYP1 //INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ACTIVITY_TYP2 //INVMWO/IF_BAPI_ACTIVITY_TYP2 /INVMWO/IF_BAPI_APILABEL_GET /INVMWO/IF_BAPI_ACTIVITY_TYP2 /INVMWO/IF_BAPI_APILABEL_GET /INVMWO/IF_BAPI_APILABEL_GET /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACH_MONILOA /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C2 /INVMWO/IF_BAPI_ATTACHMENT_C2 /INVMWO/IF_BAPI_ATTACHMENT_D2L /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D2L /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENT_L1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENT_L1 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_CTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERISTC /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERISTC /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERISTC /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERISTC /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L15</pre>	1	INVMWO/CL_MWORKORDER_MPC_EXT	/INVMWO/CL_MWORKORDER_MPC_EXT	
<pre>/INVMWO/IF_BAPI_ACTIVITY_TYPE_ /INVMWO/IF_BAPI_ACTIVITY_TYPE_ /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_MENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C12 /INVMWO/IF_BAPI_ATTACHMENT_C12 /INVMWO/IF_BAPI_ATTACHMENT_C12 /INVMWO/IF_BAPI_ATTACHMENT_D12 /INVMWO/IF_BAPI_ATTACHMENT_D12 /INVMWO/IF_BAPI_ATTACHMENT_D12 /INVMWO/IF_BAPI_ATTACHMENT_D12 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_CALCU_KEY_LI1 /INVMWO/IF_BAPI_CONTROLKEY_LI1 /INVMWO/IF_BAPI_CONTROLKEY_LI1 /INVMWO/IF_BAPI_CONTROLKEY_LI1 /INVMWO/IF_BAPI_CONTROLKEY_LI1 /INVMWO/IF_BAPI_CONTROLKEY_LI3</pre>	1	INVMWO/IF_BAPI_ACTIVITY_TYP1	/INVMWO/IF_BAPI_ACTIVITY_TYP1	
<pre>/INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET1 /INVMWO/IF_BAPI_APPLABEL_GET1 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACH_DOWNL0 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_CALCU_KEY_LI1 /INVMWO/IF_BAPI_CONTROLKEY_LI1 /INVMWO/IF_BAPI_CONTROLKEY_LI3 /INVMWO/IF_BAPI_CONTROLKEY_LI3 /INVMWO/IF BAPI_CONTROLKEY_LI3</pre>	1	INVMWO/IF_BAPI_ACTIVITY_TYPE_	/INVMWO/IF_BAPI_ACTIVITY_TYPE_	
<pre>/INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACHMENT_CT /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_CTE /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_L1 /INVMWO/IF_BAPI_ATTACHMENTS_L1 /INVMWO/IF_BAPI_ATTACHMENTS_L1 /INVMWO/IF_BAPI_ATTACHMENTS_L1 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CHAR_UNIT /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CHAR_UNIT /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_CTERIST1 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1C /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CHARACTERIST1C /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L15 /INVMWO/IF_BAPI_CONTROLKEY_L15</pre>	1	INVMWO/IF_BAPI_APPLABEL_GET	/INVMWO/IF_BAPI_APPLABEL_GET	
<pre>/INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL1 /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACH_DOWNL0A /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_CE /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L11 /INVMWO/IF_BAPI_CALCU_KEY_L121 /INVMWO/IF_BAPI_CALCU_KEY_L131 /INVMWO/IF_BAPI_CHAR_UNIT /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_CTERIST1 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1</pre>	1	INVMWO/IF_BAPI_APPLABEL_GET1	/INVMWO/IF_BAPI_APPLABEL_GET1	
<pre>/INVMWO/IF_BAPI_ATTACH_DOWNLOA /INVMWO/IF_BAPI_ATTACH_DOWNLOA /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_C1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENT_D1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_L1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_L1 /INVMWO/IF_BAPI_CALCU_KEY_LI1 /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_CTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1C /INVMWO/IF_BAPI_CHARACTERIST1C /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L15</pre>	1	INVMWO/IF_BAPI_ATTACH_DOWNL1	/INVMWO/IF_BAPI_ATTACH_DOWNL1	
<pre>/INVMMO/IF_BAPI_ATTACHMENT_C1 /INVMMO/IF_BAPI_ATTACHMENT_C2 /INVMMO/IF_BAPI_ATTACHMENT_C2 /INVMMO/IF_BAPI_ATTACHMENT_D1 /INVMMO/IF_BAPI_ATTACHMENT_D1 /INVMMO/IF_BAPI_ATTACHMENT_D1 /INVMMO/IF_BAPI_ATTACHMENTS_1 /INVMMO/IF_BAPI_ATTACHMENTS_1 /INVMMO/IF_BAPI_ATTACHMENTS_1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CONTROLKEY_L11 /INVMMO/IF_BAPI_CONTROLKEY_L15</pre>	1	INVMWO/IF_BAPI_ATTACH_DOWNLOA	/INVMWO/IF_BAPI_ATTACH_DOWNLOA	
<pre>/INVMMO/IF_BAPI_ATTACHMENT_CRE /INVMMO/IF_BAPI_ATTACHMENT_CRE /INVMMO/IF_BAPI_ATTACHMENT_DI /INVMMO/IF_BAPI_ATTACHMENTDI /INVMMO/IF_BAPI_ATTACHMENTS_I /INVMMO/IF_BAPI_ATTACHMENTS_I /INVMMO/IF_BAPI_ATTACHMENTS_LI /INVMMO/IF_BAPI_ATTACHMENTS_LI /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_CTERISTI /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CONTROLKEY_LI /INVMMO/IF_BAPI_CONTROLKEY_LI /INVMMO/IF_BAPI_CONTROLKEY_LIS</pre>	1	INVMWO/IF_BAPI_ATTACHMENT_C1	/INVMWO/IF_BAPI_ATTACHMENT_C1	
<pre>/INVMMO/IF_BAPI_ATTACHMENT_D1 /INVMMO/IF_BAPI_ATTACHMENT_D1 /INVMMO/IF_BAPI_ATTACHMENT_DEL /INVMMO/IF_BAPI_ATTACHMENT_DEL /INVMMO/IF_BAPI_ATTACHMENTS_I /INVMMO/IF_BAPI_ATTACHMENTS_1 /INVMMO/IF_BAPI_ATTACHMENTS_LI /INVMMO/IF_BAPI_ATTACHMENTS_LI /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CHAR_CTERIST1 /INVMMO/IF_BAPI_CHAR_UNIT1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1C /INVMMO/IF_BAPI_CONTROLKEY_LIS /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CONTROLKEY_LI /INVMMO/IF_BAPI_CONTROLKEY_LIS</pre>	1	INVMWO/IF_BAPI_ATTACHMENT_CRE	/INVMWO/IF_BAPI_ATTACHMENT_CRE	
<pre>/INVMMO/IF_BAPI_ATTACHMENT_DEL /INVMMO/IF_BAPI_ATTACHMENT_DEL /INVMMO/IF_BAPI_ATTACHMENTS_1 /INVMMO/IF_BAPI_ATTACHMENTS_1 /INVMMO/IF_BAPI_ATTACHMENTS_LI /INVMMO/IF_BAPI_ATTACHMENTS_LI /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHARACTERISTI /INVMMO/IF_BAPI_CHARACTERISTI /INVMMO/IF_BAPI_CHARACTERISTI /INVMMO/IF_BAPI_CHARACTERISTI /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L15</pre>	1	INVMWO/IF_BAPI_ATTACHMENT_D1	/INVMWO/IF_BAPI_ATTACHMENT_D1	
<pre>/INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_1 /INVMWO/IF_BAPI_ATTACHMENTS_LI /INVMWO/IF_BAPI_CALCU_KEY_LII /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHAR_UNIT /INVMWO/IF_BAPI_CALCU_KEY_LIST /INVMWO/IF_BAPI_CHAR_UNIT /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHARACTERISTI /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTICS /INVMWO/IF_BAPI_CHARACTERISTICS /INVMWO/IF_BAPI_CONTROLKEY_LI /INVMWO/IF_BAPI_CONTROLKEY_LIS</pre>	1	INVMWO/IF_BAPI_ATTACHMENT_DEL	/INVMWO/IF_BAPI_ATTACHMENT_DEL	
/INVMMO/IF_BAPI_ATTACHMENTS_LI /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT1 /INVMMO/IF_BAPI_CHAR_UNIT1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1C /INVMMO/IF_BAPI_CHARACTERIST1C /INVMMO/IF_BAPI_CHARACTERIST1C /INVMMO/IF_BAPI_CHARACTERIST1C /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_LIS	1	INVMWO/IF_BAPI_ATTACHMENTS_1	/INVMWO/IF_BAPI_ATTACHMENTS_1	
/INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LI1 /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT1 /INVMMO/IF_BAPI_CHAR_UNIT1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L15	1	INVMWO/IF_BAPI_ATTACHMENTS_LI	/INVMWO/IF_BAPI_ATTACHMENTS_LI	
/INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CALCU_KEY_LIST /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_CTERISTI /INVMMO/IF_BAPI_CHARACTERISTI /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L15	1	INVMWO/IF_BAPI_CALCU_KEY_LI1	/INVMWO/IF_BAPI_CALCU_KEY_LI1	
/INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT /INVMMO/IF_BAPI_CHAR_UNIT1 /INVMMO/IF_BAPI_CHAR_UNIT1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CHARACTERISTIC5 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L15	1	INVMWO/IF_BAPI_CALCU_KEY_LIST	/INVMWO/IF_BAPI_CALCU_KEY_LIST	
/INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHAR_UNIT1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERIST1 /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTIC /INVMWO/IF_BAPI_CHARACTERISTICS /INVMWO/IF_BAPI_CHARACTERISTICS /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1	1	INVMWO/IF_BAPI_CHAR_UNIT	/INVMWO/IF_BAPI_CHAR_UNIT	
/INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERIST1 /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1S	1	INVMWO/IF_BAPI_CHAR_UNIT1	/INVMWO/IF_BAPI_CHAR_UNIT1	
/INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTIC /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CHARACTERISTICS /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_L1 /INVMMO/IF_BAPI_CONTROLKEY_LIS /INVMMO/IF_BAPI_CONTROLKEY_LIS	1	INVMWO/IF_BAPI_CHARACTERIST1	/INVMWO/IF_BAPI_CHARACTERIST1	
/INVMWO/IF_BAPI_CHARACTERSTICS /INVMWO/IF_BAPI_CHARACTERSTICS /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1S /INVMWO/IF_BAPI_CONTROLKEY_L1S	1	INVMWO/IF_BAPI_CHARACTERISTIC	/INVMWO/IF_BAPI_CHARACTERISTIC	
/INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF_BAPI_CONTROLKEY_L1 /INVMWO/IF BAPI_CONTROLKEY_LIS /INVMWO/IF_BAPI_CONTROLKEY_LIS	1	INVMWO/IF_BAPI_CHARACTERSTICS	/INVMWO/IF_BAPI_CHARACTERSTICS	
/INVMWO/IF BAPI CONTROLKEY LIS /INVMWO/IF BAPI CONTROLKEY LIS	1	INVMWO/IF_BAPI_CONTROLKEY_L1	/INVMWO/IF_BAPI_CONTROLKEY_L1	
	1	INVMWO/IF_BAPI_CONTROLKEY_LIS	/INVMWO/IF_BAPI_CONTROLKEY_LIS	
				-

Figure 4-9 Object Classes

## 4.2. Install mWorkOrder SAP® ECC, Gateway, and UI5 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 mWorkOrder 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.

0	2	Support Package	⊑dit	<u>G</u> oto	E	xtr <u>a</u> s	Utilities	Environment	System	Нер
	6	Load packages			⊁	Bro	m Front E	End	1 6 2	🐺 🔽   🕜 🖪
		Import SPAM/SA	UNT Yp	date		Fro	im <u>Applica</u>	tion Server		
		Import gueue	s	Shift+F7		- Ve	rsion 7	7.40/0061	_	
	Ģ	Confirm	S	Shift+F6						
	-	Exit	S	Shift+F3						

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

• • • •	U	5
🔄 Support Package	<u>E</u> dit <u>G</u> oto Extr <u>a</u> s	Utilities Engironment System Help
Ø	- 4 🗉 🖒	oo 😧   📮 🖬 👪   St St St St   👿 🗖   🚱 📑
Support Pack	age Manager - V	ersion 7.40/0054
🔒 🤮 🗟 💋		
Queue		Display/define
		<u> </u>

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

click 🗹.

Figure 4-13 Component Selection

🔄 Com	Component Selection								
Choose	Choose the software component for which you want to import Support Packages								
<b>2</b> .	🐼 🔎 🗔 Stack XML file 🖌								
Co	mpID	Release	Short Description of Component	Support Package type					
EC	C-DIMP	600	DIMP	Add-on Support Pkg.					
ER	ECRUIT	600	E-Recruiting	Add-on Support Pkg.	Ŧ				
FI-	-CA	600	FI-CA	Add-on Support Pkg.					
FI-	CAX	600	FI-CA Extended	Add-on Support Pkg.					
IN	SURANCE	600	SAP Insurance	Add-on Support Pkg.					
IS-	-CWM	600	Industry Solution Catch Weight Mana	Add-on Support Pkg.					
IS-	-H	600	SAP Healthcare	Add-on Support Pkg.					
IS-	-M	600	SAP MEDIA	Add-on Support Pkg.					
IS-	-OIL	600	IS-OIL	Add-on Support Pkg.					
IS-	-PS-CA	600	IS-PUBLIC SECTOR CONTRACT ACCO	Add-on Support Pkg.					
IS-	-UT	600	SAP Utilities/Telecommunication	Add-on Support Pkg.					
LS	OFE	600	SAP Learning Solution Front-End	Add-on Support Pkg.					
SE	M-BW	600	SEM-BW: Strategic Enterprise Manag	Add-on Support Pkg.					
IN	VMGO	ECC_603	Innovapptive ECC RACE 6.0.3 Addon	Add-on Support Pkg.	٠				
	· · · · · · · · · · · · · · · · · · ·								
	Il Components S 2								

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

Figure 4-14 Confirm Queue

	I⊒r Define Queue for the Add-On INVMGO rel. ECC_603							
	Choose the highest Support Package you want or confirm the queue							
					_			
	Package ID	CompID	Release	Short Description				
	SAPK-E6302ININVMG0	INVMGO	ECC_603	INVMGO ECC_603: SP 2				
					_			
ŀ								
				✓क़₽Ѕ◙	×			

- 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**.

C	Support Package	Edit <u>G</u> oto	Ext	tr <u>a</u> s ∐t	ilities	Engironment	System	Help	
(	Load packages		•	C 🙆 🌘	1 🗅	日間日の	19.0.19	<b>※</b>	🔞 🖪
	Import SPAM/SA	INT Update							
	Import gueue	Shift+F7		- Vers	ion 7.	.40/0054	r		
1	Confirm	Shift+F6							
	Exit	Shift+F3							
Q	ueue s	APK-E630		<u>]</u>	9	Display/define	;]		
	Now Support Dacks	201			Output is defined for the				
	Aborted Support Packa	yes Irkanes			Software Component: INV/MGO				
O Imported Support Packages				SPAM s	tatus:	000			
○All Support Packages				Next ad	tion:	Import que	eue		
	≪ <mark>∽ Display</mark>				୫୫ ।	Package level	]		

Figure 4-15 Import Queue

10. Click  $\checkmark$  to start the import process.

Figure 4-16 Import Queue Confirm



11. Once the package is imported, a confirmation screen appears. Click  $\checkmark$  in 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.

¢	Support Package Edit Goto	E	xtr <u>a</u> s	Utilities	Engironment	System	Help
(	Load packages	►	C (	🔞   🗎	日間日の	19.0.19	🛒 🗾   🍘 🖪
_	Import SPAM/SAINT Update						
	Import gueue Shift+F	7	- Vei	rsion 7.	.40/0054	1	
Ģ	Confirm Shift+f	6					
	Exit Shift+F	3					
Q	Jeue SAPK-E630			[*//	Display/define	2	
	irectory			Status			
0	New Support Packages			Queue	imported for	the	
Aborted Support Packages				Softwa	re Componen	t: INVMGO	
Imported Support Packages			SPAM status: OAO				
(	All Support Packages			Next ac	tion:	Confirm qu	eue
	🛷 Display			<u>ଝେ ।</u>	Package level		

#### Figure 4-17 Confirm Support Package

## 4.3. Activate mWorkOrder OData Service

Once add-on and support packs / transports are installed, activate OData services like Work Order, Equipment, Functional Location & Attachments in the SAP NetWeaver Gateway system.

To activate OData services for mWorkOrder:

- 1. Run transaction /IWFND/MAINT\_SERVICE.
- 2. Select the service:

#### Table 4-3 oData Services

Service	Technical Service Name
Work Order	/INVMWO/MWORKORDER_SRV
Equipment	/INVMWO/MWOEQUIPMENT_SRV
Functional Location	/INVMWO/MWOFUNLOCATION_SRV
Attachments	/INVMWO/MWOATTACHMENTS_SRV
mWorkOrder Operator Round	/INVMWO/MWOOPERATORROUND_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

Serv	Service Catalog							
Туре	Technical Service Name			Service Description				
BEP	/INVMSC/MSHOP SRV	<u>/</u>	1	/INVMSC/CL_MSHOP_DPC_EXT				
BEP	/INVMWL/MWORKLIS	T 2 SRV	1	Mobile Worklist OData services				
BEP	/INVMWO/MWORKOR	DER SRV	1	mWorkOrder OData Services				
BEP	ZNAVIGATION RESO	LUTION	1	Navigation Resolution Service				
	/IWFND/SG MGW NO	DTIF STORE	1	ODATA Channel: Notification Store				
BEP	ZPAGE BUILDER CON	IF	1	Pagebuilder - Configuration level				
BEP	ZPAGE BUILDER CUS	T	1	Pagebuilder - Customizing level				
BEP	P ZPAGE BUILDER PERS			Pagebuilder - Personalization level				
BEP	ZPAGEBUILDER SERVICE V 0 1			Gateway Data Provider: Pagebuilder v0.1 (DB)				
BEP	ZPP PRODOPS CONFIRM SRV			Confirm Production Order Operation				
BEP	ZPP PRODORD CONFIRM			Confirm Production Order				
BEP	ZPP PRODORDER RELEASE SRV			Production Order Release				
BEP	ZQUICKVIEW		1	Quickview Service				
BEP	/INVCEC/RACE_SRV		1	Global Extensions				
BEP	ZRMTSAMPLEFLIGHT		1	OData Channel - Reference SFlight Data Provider				
ICF	ICF Node     Call Browser     AP Gateway Client							
A	ctivate							
Deactivate				Description				
Delete Devocion			state	Standard Mode				
	onfigure (SICE)	00.00.00		Stanuaru Moue				

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

The OData service is activated and the status turns green.

- 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. Activate Gateway UI5 Service

Activate gateway UI5 service, once mWorkOrder OData services are activated.

To activate Gateway UI5 Service:

- 1. Go to transaction code SICF and search for the service MWO\_UI5\_2208.
- Right-click the mWorkOrder 2208 UI5 service under default\_host > sap > bc > ui5\_ui5 > invmwo > mwo\_ui5\_2208 and click Activate Service.

Figure 4-19 Activate MWO UI5 Service

☞ <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> lient	S <u>y</u> stem <u>H</u> elp	
🖉 🔍 👻 🔛	🗟 😪   🖨 🖞 👘 I 🎝 🖞	) 🕂 🎝   🜄 🗖   🕲 🖳
Maintain service		
Create Host/Service 😚 📅 🛃 🖬	🕽 External Aliases 🛛 🚺 🎇 🕅 Sy	vstem Monitor Active 📲
Filter Details		
Virtual Host	Service Path	
ServiceName MWO_UI5_2208		1
Description	New Sub-Element	
Lang. English 👻	Display Service	
P Apply Reset	<u>D</u> elete Service	
	Rename Service	
	Activate Service	
Virtuelle Hosts / Services	Deactivate Service	Referenz Service
▼ □ default host	<u>T</u> est Service	
▼ 💮 sap	<u>T</u> est Load Balancing	NOT T
▼ ⊗ bc	References to Service	
• 🕲 bsp	Obj. Directory Entry	INTIME
• 🕅 mwo ui5 2208	Cut	
▼ ⑨ ui5_ui5	Copy	Applic
<ul> <li>invmwo</li> </ul>	Paste	
• 🕲 mwo_ui5_2208		1
	4 1	

3. Right-click the **mWorkOrder 2208 UI5** service under *default\_host > sap > bc > bsp > invmo > mwo\_ui5\_2208* and click **Activate Service**.

☞ Service/Host Edit Goto Client System Help					
- 🖉 📃 - 🗮 - 😪 😪 - 🚔 🛗 🛗 🖆 🗘 🎝 💭 - 🥃 🖉 💭 -					
Maintain service					
Create Host/Service 😚 📅 🔁 🚺	🗢 External Aliases 🛛 💟 🏂 🏴 Syst	em Monitor Active 📲			
Filter Details	New Sub-Element				
Virtual Host	<u>D</u> isplay Service				
ServiceName MWO_UI5_2208	Delete Service				
Description	Bename Service				
Lang. English	R				
Apply Reset	Activate Service				
	<u>Deactivate Service</u>				
	Test Service				
	Test Load Balancing				
Virtuelle Hosts / Services	D( References to Service	Referenz Service			
default_host	VIF Obi, Directory Entry				
▼ 🛇 sap	SA Out	DT T			
	BA CUL				
• O inumura	BU <u>C</u> opy	IME			
• M mwo ui5 2208	Paste				
▼ <sup>(Q)</sup> µi5 µi5	SAPLITS Application Handler SAPLITS A	SAPUIS Application Handler SAPUIS Applic			
▼ <sup>©</sup> invmwo	mWorkOrder	pp norm			
<ul> <li>         mwo_ui5_2208     </li> </ul>	mWorkOrder 2208 UI5 Application				

Figure 4-20 Activate MWO UI5 Service

#### 4. Click Yes.

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

- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_ui5\_2208/ index.html?sap-client=100.
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_ui5\_2208/
   index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false

## 4.5. Activate Gateway FIORI Service

Activate gateway FIORI service, once gateway UI5 service is activated.

To activate the Gateway FIORI Service:

- 1. Go to transaction code SICF and search for the service **MWO\_FIORI\_2208**.
- 2. Right-click the **mWorkOrder 2208 FIORI** service under *default\_host* > *sap* >*bc* > *ui5\_ui5* > *invmwo* > *mwo\_fiori\_2208* and click **Activate Service**.

☞ Service/Host Edit Goto Qient System Help						
🖉 🔄 💌 😓 🔛 🖏 😓 🛗 🛗 🛱 🛱 🛱 🛱 💭 💭 🗐 💭 💭						
Maintain service	Maintain service					
Create Host/Service 😚 📅 🗿 🚺	Create Host/Service 🧐 📅 🤂 🚹 🔿 External Aliases 🖤 🎊 🏴 System Monitor Active 📲					
Filter Details						
Virtual Host	Servi	ice Path				
ServiceName MWO_FIORI_2208						
Description		New Sub-Element				
Lang. English	Ref.	Display Service				
Apply 😽 Reset	1 🔝	Delete Service				
		Rename Service				
		Activate Service				
Virtuelle Hosts / Services Docu		Deactivate Service	Referenz Service			
<ul> <li>U default_host</li> </ul>	VIRT	Test Service				
▼ 🛇 sap	SAP I	Test Load Balancing	T			
• 🕥 bc	BASI	References to Service				
▼ <sup>(</sup> ) bsp BUSI		Obi, Directory Entry	<u>//E</u>			
• 💬 Invitiwo • 🕅 mwo, fiori 2208	mwo.					
▼ ③ ui5 ui5	SAPU	Conv	ic			
<ul> <li>Sinvmwo</li> </ul>	mWo	Basta				
• 🕅 mwo_fiori_2208	mWo.	Fasce				
	4 1		···· · · · · · · · · · · · · · · · · ·			

Figure 4-21 Activate MWO FIORI Service

3. Right-click the **mWorkOrder 2208 FIORI** service under *default\_host > sap > bc > bsp > invmwo > mwo\_fiori\_2208* and click **Activate Service**.

🔄 <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> lient System <u>H</u> elp					
🖉 🔄 💌 😌 😓 🖓 🖓 🖕 🖓 🖓 🗳 🖓 👘 🖓 🖉					
Maintain service					
Create Host/Service 🦻 📅 🔁 🚺	🔿 External Aliases 🛛 🔃 🎇 Systen	n Monitor Active 📲			
Filter Details         Virtual Host         ServiceName         Description         Lang.         English         Virtuelle Hosts / Services         Virtuelle Hosts / Services         Virtuelle Host / Services         Virtuele Host / Services         Virt	New Sub-Element           Ser         Display Service           Delete Service         Bename Service           Ref         Activate Service           Deactivate Service         Deactivate Service           Test Service         Test Service           UR         Beferences to Service           VIRT         Obj. Directory Entry           BASI         Cut           BUSI         Copy           mWurperter         SAPUIS Application Handler SAPUIS Application	Referenz Service			
	4 F	₩			

Figure 4-22 Activate MWO FIORI Service

4. Click Yes.

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

- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_fiori\_2208/ index.html?sap-client=100.
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_fiori\_2208/
   index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false.

## 4.6. Import mWorkOrder SAP® ECC, Gateway and UI5 Transports

Innovapptive recommends installing Add-ons instead of importing Transports for a smooth installation experience. 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 4-4 MWO SAP® ECC Transports

Transport	Description	Dependency
ERDK913571	Innov MWO 2208 SP02 ECC	Import ERDK913573 before
	Objects	Importing ERDK913571

#### Table 4-5 MWO SAP® Gateway Transports

Transport	Description	Dependency
NGTK910560	Innov MWO 2208 SP02 Gate-	Import NG5K903797 before
	way Objects	importing NGTK910560

#### Table 4-6 MWO UI5 Application Transports

Transport	Description	Dependency
NGTK910555	Innov MWO 2208 SP02 UI5 Application	Import TR Number NGTK910560 before importing NGTK910555
NGTK912147	Innov MWO 2208 SP02 FIORI Application	Import TR Number: NGTK912192 before importing NGTK912147

For steps to import Transports, see Import Transports (on page 35).

## 4.6.1. Verify SAP® ECC MWO Transport

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

To verify the SAP® ECC Transport:

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

Figure 4-23 Function Builder Initial Screen

🖆 🥕 🐺 🔂   📅 🗈 🙌 Reassign
Function Module /INVMWO/*

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

Function Builder: Initial Screen					
i 🥕 🕯	🚆 📫 📋 📅 🛅 🚺 Reassign				
	Repository Info System: Function Ma	dules Find (152 Hits)		X	
Function (				-	
	Function group	Function group about toyt		-	
Sec 1	Function Module Name	Short text for function module			
				#	
	/INVMWO/FGRP_DELETE	Delete FGRP			
	/INVMWO/FM_DELETE	delete objects			
	(INDAMA (FC WO INSPECT LOT	FG for mWorkOrder inspectionlat			
/INVMW0/FD_INSPECT_UOI FG for mworkOrder Inspectionict				1.1	
/INTWO/DRAFT_INSPLOT_CONGROUP_List of codes					
/INVWWO/BAPI INSPLOT ORIGNLIST Inspection lot origin list					
	/INVMWO/BAPT INSP CHAR LIST	AR LIST List of Inspection lot Characteristics			
	/INVMWO/BAPI INSP LOT CHAR DET	Inspection Lot Characteristics			
	/INVMWO/BAPI INSP LOT CLASSES	Characteristic Classes			
	/INVMWO/BAPI INSP LOT CLASSES1	Inspection Lot classes with upper and lower limits			
	/INVMWO/BAPI INSP OPERATIONS	List Inspection lot operations			
	/INVMWO/BAPI INSP RECORDRESULT	Inspection Lot Record Result			
/INVMWO/BAPI INSP SINGLE VALUE Insy		Insp. result-single value level			
	/INVMWO/BAPI SPECFICANINSPCLOT	Specification for the Inspection Lot			
	/INVMWO/BAPI UDCODE LIST	BAPI Usage Decision Code List			
	/INVMWO/FM_ATTRIBUTE	Inspection Lot Attribute			
	/INVMWO/FG WO USAGE DEC	FG for mWorkOrder Usage Decision			
	/INVMWO/BAPI CHARACTERSTICS	Inspection Lot Characterstics			
	/INVMWO/BAPI DEFECTS GET	Defects List			
	/INVMWO/BAPI INSP LOT STOCK	Inspection Lot Stock			
	/INVMWO/BAPI USAGE DEC LIST	Usage Decision Search			
	/INVMWO/BAPI_USAGE_DEC_SAVE	Create Usage Decision			
				-	
	< >		4		

#### Figure 4-24 Function Module Classes

## 4.6.2. Verify SAP® GW MWO Transport

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

To verify the SAP® GW Transport:

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

Figure 4-25 Function Builder Initial Screen

Function Builder: Initial Screen
🖆 🥕 🐺 🔂   📅 🗔 🕪 Reassign
Function Module /INVMWO/*
🗞 Display 🖉 Change Create

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

グ 驾 🕂 🗓   命	🗋 😥 🛛 Class Brow	ser		
Repository Ir	nfo System: Class/Interf	ace Find (200 Hits)		X
t typ	, , , , , , , , , , , , , , , , , , , ,			
				Ţ
Object Type	Name	Short Description		
Di				
/INVMWO/CL_M	WORKORDER_DPC	Data Provider Base Class		
/INVMWO/CL_M	WORKORDER_DPC_EXT	Data Provider Secondary Class		-
/INVMWO/CL_M	WORKORDER_MPC	/INVMWO/CL_MWORKORDER_MPC		
/INVMWO/CL_M	WORKORDER_MPC_EXT	/INVMWO/CL_MWORKORDER_MPC_EXT		
/INVMWO/IF_BAPI_ACTIVITY_TYP1 /INVMWO/IF_BAPI_ACTIVITY_TYP1				
/INVMWO/IF_E	/INVMWO/IF_BAPI_ACTIVITY_TYPE_/INVMWO/IF_BAPI_ACTIVITY_TYPE_			
/INVMWO/IF_E	/INVMWO/IF_BAPI_APPLABEL_GET /INVMWO/IF_BAPI_APPLABEL_GET			
/INVMWO/IF_E	SAPI_APPLABEL_GET1	LII /INVMWO/IF_BAPI_APPLABEL_GET1		
/INVMWO/IF_E	SAPI_ATTACH_DOWNL1	LOA /INVMWO/IF BAPI ATTACH DOWNLOA		
/INVMWO/IF_E	SAPI_ATTACH_DOWNLOA	/INVMWO/IF_BAPI_ATTACH_DOWNLOA		
/INVMWO/IF_E	SAPI_ATTACHMENT_C1	/INVMWO/IF_BAPI_ATTACHMENT_C1		
/INVMWO/IF_E	SAPI_ATTACHMENT_CRE	/INVMWO/IF_BAPI_ATTACHMENT_CRE		
/INVMWO/IF_E	SAPI_ATTACHMENT_D1	/INVMWO/IF_BAPI_ATTACHMENT_D1		
/INVMWO/IF_E	SAPI_ATTACHMENT_DEL	/INVMWO/IF_BAPI_ATTACHMENT_DEL		
/INVMWO/IF_E	SAPI_ATTACHMENTS_1	/INVMWO/IF_BAPI_ATTACHMENTS_1		
/INVMWO/IF_E	SAPI_ATTACHMENTS_LI	/INVMWO/IF_BAPI_ATTACHMENTS_LI		
/INVMWO/IF_E	SAPI_CALCU_KEY_LI1	/INVMWO/IF_BAPI_CALCU_KEY_LII		
/INVMWO/IF_E	SAPI_CALCU_KEY_LIST	/INVMWO/IF_BAPI_CALCU_KEY_LIST		
/INVMWO/IF_E	SAPI_CHAR_UNIT	/INVMWO/IF_BAPI_CHAR_UNII		
/INVMWO/IF_F	SAPI_CHAR_UNIII	/INVMWO/IF_BAPI_CHAR_UNIII		
/INVMWO/IF_F	SAPI_CHARACIERISII	/INVMWO/IF_BAPI_CHARACIERISII		
/INVMWO/IF_E	SAPI_CHARACTERISTIC	/INVMWO/IF_BAPI_CHARACTERISTIC		
/INVMWO/IF_E	SAPI_CHARACIERSIICS	/INVMWO/IF_BAPI_CHARACTERSTICS		
/INVMWO/IF_F	SAPI_CONTROLKEY_L1	/INVMWO/IF_BAPI_CONTROLKEY_L1		
/INVMWO/IF_E	SAPI_CONTROLKEY_LIS	//INVMWO/IF_BAPI_CONTROLKEY_LIS		-
				-

Figure 4-26 Object Classes

## 4.6.3. Activate mWorkOrder OData Service

Once add-on and support packs / transports are installed, activate OData services like Work Order, Equipment, Functional Location & Attachments in the SAP NetWeaver Gateway system.

To activate OData services for mWorkOrder:

### 1. Run transaction /IWFND/MAINT\_SERVICE.

2. Select the service:

#### Table 4-7 oData Services

Service	Technical Service Name
Work Order	/INVMWO/MWORKORDER_SRV
Equipment	/INVMWO/MWOEQUIPMENT_SRV
Functional Location	/INVMWO/MWOFUNLOCATION_SRV
Attachments	/INVMWO/MWOATTACHMENTS_SRV
mWorkOrder Operator Round	/INVMWO/MWOOPERATORROUND_SRV

#### 3. Click Activate from the drop-down list of ICF Node options.

A message appears notifying the package selection.

Service Catalog						
Туре	Technical Service Name	^v	Service Description			
BEP	/INVMSC/MSHOP_SRV	1	/INVMSC/CL_MSHOP_DPC_EXT			
BEP	/INVMWL/MWORKLIST 2 SRV	1	Mobile Worklist OData services			
BEP	/INVMWO/MWORKORDER_SRV	1	mWorkOrder OData Services			
BEP	ZNAVIGATION RESOLUTION	1	Navigation Resolution Service			
	/IWFND/SG MGW NOTIF STORE	1	ODATA Channel: Notification Store			
BEP	ZPAGE BUILDER CONF	1	Pagebuilder - Configuration level			
BEP	ZPAGE BUILDER CUST	1	Pagebuilder - Customizing level			
BEP	ZPAGE BUILDER PERS	1	Pagebuilder - Personalization level			
BEP	ZPAGEBUILDER SERVICE V 0 1	1	Gateway Data Provider: Pagebuilder v0.1 (DB)			
BEP	ZPP PRODOPS CONFIRM SRV	1	Confirm Production Order Operation			
BEP	ZPP PRODORD CONFIRM	1	Confirm Production Order			
BEP	ZPP PRODORDER RELEASE SRV	1	Production Order Release			
BEP	ZQUICKVIEW	1	Quickview Service			
BEP	/INVCEC/RACE_SRV		Global Extensions			
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider			
ICF Node 🖌 🔯 Call Browser 🕮 SAP Gateway Client						
<u>A</u> 0	Activate					
De	eactivate Session Time out Soft	State	Description			
De	elete 00.00.00	State	Standard Mode			
	onfigure (SICE)		Standard Mode			
<u> </u>						

Figure 4-27 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.

- 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.

## 4.6.4. Activate Gateway UI5 Service

Activate gateway UI5 service, once mWorkOrder OData services are activated.

To activate Gateway UI5 Service:

- 1. Go to transaction code SICF and search for the service **MWO\_UI5\_2208**.
- 2. Right-click the **mWorkOrder 2208 UI5** service under *default\_host > sap > bc > ui5\_ui5 > invmwo > mwo\_ui5\_2208* and click Activate Service.

-							
문 Service/Host Edit Goto Glient System Help							
- 🖉 📃 - 🗶 - 😓 - 🖓 - 😓 - 🖞 - 🖓 - 🖓 - 🖓 - 🖓 - 🖓							
Maintain service							
Create Host/Service 🦻 🔟 🗐	Create Host/Service 💖 📅 🔁 🔢 🔿 External Aliases 🛛 🕅 🎊 🎮 System Monitor Active 📲						
Filter Details	Filter Details						
Virtual Host	Virtual Host Service Path						
ServiceName MWO_UI5_2208	ServiceName MHO_UI5_2208						
Description	New Sub-Element						
Lang. English 🔻	Delete Service						
P Apply Reset	Rename Service						
	Activate Service						
	Deactivate Service						
Virtuelle Hosts / Services	Test Service	Referenz Service					
• Sap	Test Load Balancing	NOT T					
▼ <sup>©</sup> bc	References to Service						
• 🕲 bsp	Obj. Directory Entry	INTIME					
• 🕲 mwo ui5 2208	Cut						
▼ ⑨ ui5_ui5	<u>C</u> opy	Applic					
▼ (S) invmwo	Paste						
• @ mwo_ub_2208	metoricol 2200 010 represent	·					
	4.5						

Figure 4-28 Activate MWO UI5 Service

3. Right-click the **mWorkOrder 2208 UI5** service under *default\_host > sap > bc > bsp > invmo > mwo\_ui5\_2208* and click **Activate Service**.

-						
년 Service/Host Edit Goto Client System Help						
🖉 🔄 🔍 😪 😓 🖞 🖓 🗳 🖞 🖓 👘 🖓 🖉						
Maintain service						
- reate Host/Service 🚳 📅 🖓 🚹 🗈 External Aliaces 🛛 💥 🕅 System Monitor Artive 🍡						
Filter Details	New Sub-Element					
Virtual Host	S Display Service					
ServiceName MWO UI5 2208	Delate Canving					
Description	Delece Service					
Lease English	Rename Service					
Lang. English	Activate Service					
P Apply Reset	<u>Deactivate</u> Service					
	Test Service					
	Test Load Balancing					
Virtuelle Hosts / Services	D( References to Service	Referenz Service				
<ul> <li>U default_host</li> </ul>	VII Obi Disatas Satas					
▼ Sap	SA ODJ. Directory Entry	DT T				
▼ <sup>©</sup> bc	BA <u>C</u> ut					
▼ 🕲 bsp	BU <u>C</u> opy	TIME				
▼ 🛇 invmwo	mV Paste					
• 🕲 mwo_ui5_2208		,				
▼ W ui5_ui5	SAPUIS Application Handler SAPUIS Applic					
▼ 🛇 invmwo	mWorkOrder					
• ₪ mwo_ui5_2208	mWorkOrder 2208 UI5 Application					
	4					

Figure 4-29 Activate MWO UI5 Service

#### 4. Click Yes.

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

- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_ui5\_2208/ index.html?sap-client=100.
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_ui5\_2208/
   index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false

## 4.6.5. Activate Gateway FIORI Service

Activate gateway FIORI service, once gateway UI5 service is activated.

To activate the Gateway FIORI Service:

- 1. Go to transaction code SICF and search for the service MWO\_FIORI\_2208.
- 2. Right-click the **mWorkOrder 2208 FIORI** service under *default\_host* > *sap* >*bc* > *ui5\_ui5* > *invmwo* > *mwo\_fiori\_2208* and click **Activate Service**.

문 Service/Host Edit Goto Client System Help						
🖉 💽 💌 😓 🛛 🖓 🗳 🖓 🗳 🖓 👘 👘 👘						
Maintain service						
Create Host/Service 🤣 📅 🤂 🚹 🔿 External Aliases 🗉 🎊 🏴 System Monitor Active 📲						
Filter Details						
Virtual Host Service Path						
ServiceName MWO_FIORI_2208	_					
Description		New Sub-Element				
Lang, English	Ref	Display Service				
Apply Reset		Delete Service				
		Rename Service				
		Activate Service				
Virtuelle Hosts / Services	Doci	Deactivate Service	Referenz Service			
<ul> <li>U default_host</li> </ul>	VIRT	Test Service				
▼ 🛞 sap	SAP I	Test Load Balancing	T			
▼ <sup>(</sup> ) bc	BASI	References to Service				
▼ (S) bsp	BUSI	Obi Diractory Entry	ИЕ			
▼ ② invmwo	mWo	Obj. Directory Entry				
• @ mwo_fiori_2208	CADU	Cut	le l			
▼ @ invmwo	mW/o	<u>C</u> opy	IC			
• 🕲 mwo fiori 2208	mWo	<u>P</u> aste				
	4 5					

Figure 4-30 Activate MWO FIORI Service

3. Right-click the **mWorkOrder 2208 FIORI** service under *default\_host > sap > bc > bsp > invmwo > mwo\_fiori\_2208* and click **Activate Service**.
| Image: Construction of the service/Host     Edit     Goto     Client       Image: Optimized field of the service/Host     Image: Construction of the service/Host     Image: Construction of the service/Host     Image: Construction of the service/Host   | 로 <u>S</u> ervice/Host Edit <u>G</u> oto <u>Cli</u> ent System <u>H</u> elp<br>····································   |                    |  |  |  |
|---|---|--------------------|--|--|--|
| Maintain service<br>Create Host/Service 🧐 🗑 🚺 🖛   | 🗢 External Aliases 🛛 🕅 🎉 🍽 System   | n Monitor Active 📲 |  |  |  |
| Filter Details         Virtual Host         ServiceName       MMO_FIORI_2208         Description       English         Image: Ima | Ser Display Service<br>Delete Service<br>Bename Service<br>Deactivate Service<br>Test Service<br>Test Service<br>Test Service<br>Test Service<br>Test Service<br>Test Service<br>Deactivate Service<br>Service Service Deactivate Service<br>Service Service Service Deactivate Service Service Deactivate Service Service Deactivate Service Deactivate Service Service Deactivate Service Service Deactivate Service Dea | Referenz Service   |  |  |  |
|   | 4 Þ   |                    |  |  |  |

Figure 4-31 Activate MWO FIORI Service

4. Click Yes.

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

- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_fiori\_2208/ index.html?sap-client=100.
- http://<hostname>:<port\_number>/sap/bc/ui5\_ui5/invmwo/mwo\_fiori\_2208/
   index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false.

## 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**.

Figu	ure 5-	1 SM3	80							
¢	<u>T</u> able	<u>E</u> dit	<u>G</u> oto	S <u>v</u> stem <u>H</u> el	р					
				▼ « 🔚	💫 🔊	👷 I 🖨 🕅	俗日業	14446	5	0 🖬
	Maint	ain Ta	able V	'iews: Initia	al Sci	reen				
ĉ	hind M	aintenar	nce Dialo	g						
Tal	ole/View	1	[ 	/INVCEC/SCHEM	D					
Re	estrict Da	ata Ran <u>c</u>	je							
	) No Res ) Enter c ) Variant	trictions condition	S							
Se	D	isplay		Maintain		Transport		Customizing	)	

- 3. Click Maintain.
- 4. Click New Entries.

<u>T</u> able View <u>E</u> dit	<u>G</u> oto <u>S</u> election	<u>U</u> tilities S <u>v</u> stem	<u>H</u> elp	
Ø	🔹 🤘 🔛 🗸	3 (n 😑 I 🔊 🔕	\$ \$ \$ \$ \$ \$	
New Entries: O	verview of Aa	lded Entries		
🧐 🖥 🖪 🖪 🛱				
Table Entries for Scher	ma Change Indicator			
APP Name	9	Schema Indicator	<b>111</b>	
RACE Client	-	$\checkmark$	-	
MWORKORDER	•	$\overline{\checkmark}$	<b>•</b>	
	-			
	•			
	•			
	-			
	_			

Figure 5-2 Table Entries for Schema Change Indicator

- 5. Select RACE<sup>™</sup> Client and mWorkOrder 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.

Base URL	Old Schema	New Schema
/INVCEC/RACE_SRV	/INVCEC/RACE_SRV	RACECLIENT
/INVMWO/MWORKORDER SRV	/INVMWO/MWORKORDER SRV	MWORKORDER
/INVMWO/MWOEQUIPMEN- T_SRV	/INVMWO/MWOEQUIPMEN- T_SRV	MWOEQUIPMENT
/INVMWO/MWOFUNLO- CATION_SRV	/INVMWO/MWOFUNLO- CATION_SRV	MWOFUNLOCATION
/INVMWO/WOATTACHMEN- TS_SRV	/INVMWO/WOATTACHMEN- TS_SRV	MWOATTACHMENTS
/INVMWO/MWOOPERATOR- ROUND_SRV	/INVMWO/MWOOPERATOR- ROUND_SRV	MWOOPERATORROUND

#### Table 5-1 Schema Details

## 6. Clean SAP Gateway Cache

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

- 1. Login to SAP Gateway system.
- 2. Go to transaction /n/iwfnd/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.

Validate SAP Gateway Cache Cleanup

1. Navigate to t-code: /n/iwfnd/maint\_service

In HUB systems this step should be done in Gateway system

- 2. Filter **Technical Service Name** with **/INV\*** to view the Innovapptive specific services.
- 3. Click each service & click SAP Gateway Client.

91	1 <b>7 M</b> (%) 🖪	🚅 🗐 🔽 Filter	ad of a	d Service ) 🛅 Delete Service ) 🔯 Service Details ) 🛃		
Serv	rice Catalog					
Туре	Technical Service Nan	ne 🗸	^v	Service Description		
BEP	/INVMWO/MWOOPER	ATORROUND SRV	1	mWorkorder operator rounds module		
BEP	/INVMWL/MWORKLIS	T 2 SRV	1	Mobile Worklist OData services		
BEP	/INVMWL/MWORKLIS	T 3 SRV	1	mWorklist OData Service		
BEP	/INVMWL/MWORKLIS	T ICF SRV	1	test project		
BEP	/INVMWL/MWORKLIS	T SRV	1	/INVMWL/CL_MWORKLIST_DPC_EXT		
BEP	/INVMWO/MWORKOR	DER SRV Select	1	mWorkOrder OData Services		
BEP	/INVCEC/RACE_SRV	<u> </u>	1	Global Extensions		
BEP	P /INVCEC/SAMPLEDATA SRV 01 1 Sample data for lead capture					
BEP	/INVMWL/SP12 TEST SRV			SP12 Testing		
BEP	/INVMWL/TEST SP12	2 SRV	1	test sp12		
BEP	/INVMWL/TRANSPOR	T NGD SRV	1	Test Project for Transport		
BEP	/INVMWL/TRANSPORT NGD2 SRV			test2		
BEP	/INVCEC/TRANSREQU	IEST	1	Transport Request Service		
BEP	/INVMWO/WOATTAC	HMENTS SRV	1	WO Attachments		
ICF	Node 🖌 🙆 Call Brow	wser 🔄 SAP Gateway	Client	]		
ICF	ICF Nodes					
Statu	s ICF Node	Session Time-out Soft	State	Description		
	ODATA	00:00:00		Standard Mode		
	4 Þ					



4. Click **Execute** in the next screen.

You should see the value 200 in green.

Figure 6-3 Validate Clean up

SAP Gateway Client	
🔆 📿 Execute 🗢 👄 Select 🛛 🚱 Maintain Service 🖓 Service Implementation 📣 E	EntitySets Sa Add URI Option
HTTP Method @GET OPOST OPUT OPATCH OMERGE ODELETE	Reuse HTTP Connection (e.g. for Soft State)
Request URI /sap/opu/odata/INVCEC/RACE_SRV/?\$format=xml	Multiple Rows
Protocol  OHTTPOHTTPS Test Group	Test Case
🕄 🕅 👘 🖉 🔂 🔂 🚰 Add File Remove File 🖓 Data Explorer 💼	🕄 🕅 📩 Stresponse in Browser 🖳 Error Log Str HTTP Header 🗋 Use as Request Str Data Explorer 💷
HTTP Request	HTTP Response - Processing Time = 196 ms
Header Name Value	Header Name Value
	(~status_code 200 )
	Status_reason OK
	<pre><twn! encoding="UTF-8" version="1.0">&gt; &lt; app:service xml:lang="en" xmlns:sp="http://www.sap.com/Protocols/SAPData" xmlns:atom="http://stwn.wd.org/2007/08/dataservices/metadata" xmlns:atom="http://www.wd.org/2007/08/dataservices/metadata" xml:base="http://www.do.org/2007/app" ml:base="http://www.do.org/2007/app" clap:workspace&gt; &lt; app:collection hrd="SystemIDCollection" sap:content-version="1" sap:addresable="false" sap:pagable="false" sap:detabe="false" sap:collection.kttp:"&gt; &lt; app:collection hrd="SystemIDCollection" sap:content-version="1" sap:addresable="false" sap:pagable="false" sap:detabe="false" sap:collection.kttp:"&gt; </twn!></pre>

5. Navigate to t-code SICF: /sap/bc/ui5\_ui5/invcec/

In the following steps you will validate RACE UI5 Application

6. Click Test Service.



Figure 6-4 Validate Clean up

7. Enter user credentials in the RACE Screen (Gateway for HUB Systems) and authenticate.

- 8. Share the URL with the Innovapptive team. If there is web dispatcher, prefix the host and port to the path. For example, *https://instst.testing.com:44100/sap/bc/ui5\_ui5/incec/race\_2203\_ui5*
- 9. Test **UI 5 application**.

Figure 6-5 Validate Clean up

Maintain servic	æ				
Create Host/Service 6	≫ 🔂 🔂 🖬 🔿	External Aliases (	じ 🎊 🏴 Syst	em Monitor Active 🛛 🔓	
Filter Details					
Virtual Host		Service Path /s	ap/bc/ui5_ui5/in	ivmwo	
ServiceName					
Description					
Lang.	English 💌 I	Ref.Service:			
P Apply	Reset	Fine-Tune			
			J		
<b>⊇</b>  .					
Virtuelle Hosts / Services	1	Documentation		New Sub-Element	
• 💬	mwo7_fiori	mWorkorder Fiori A	pplication	Diroby Soprice	
• 🕲	mwo7fiori	mWorkorder Fiori a	pplication	Delate Canica	
• 🕲	mworkorder	Inno:UI5:4.2.1:SP0	1:mWorkOrde	Delete Service	
• 🕅	mworkorder6_ui5	mWorkorder UI5 a	oplication	Rename Service	
• 🛛	mworkorder/_fri	mWorkorder Hori A	pplication	Activate Service	
· @	mworkorder/_ub	mworkorder US A	ori RED	Deactivate Service	
• 🕅	mworkorderui5	INNOV:UI5:4.2.1:n	Workorder U	Test Service	
• 🕅	mwo_2003ui5	mWorkOrder Ui5 A	pplication	Test Load Balancing	
• 🖾	mwo_2003_ul5	mWorkOrder UI5 A	pplication	References to Service	
• 💬	mwo_fiori_2006	mworkOrder Fiori A	pplication	Obi Directory Entry	
• 🖾	mwo_fiori_2009	mWorkorder Fiori A	pplication	Obj. Directory Entry	
• 🕲	mwo_flori_2201	mWorkorder 2201	Fiori Applicatio	Cut	
• 0	mwo_ui5_2006	mWorkOrder UI5 A	pplication	Copy	
• 🕲	mwo_ui5_2009	mworkorder UIS A	pplication	<u>P</u> aste	
• 💬	mwo_ub_2201	mivvorkorder 2201	UB Application		e

10. Share the URL with the Innovapptive team. If there is web dispatcher, prefix the host and port to the path. For example, *https://instst.testing.com:44100/sap/bc/ui5\_ui5/invmwo/mwo\_ui5\_2203* 

## 7. Configure SAP Gateway for mWorkOrder

Plant maintenance workers can use mWorkOrder solution to do the following:

- Download work orders to mobile devices, view workorder history and assigned activities,
- Access asset information to facilitate diagnosis and repair, and issue and return parts
- Log timesheets, view documents, add images and attachments.
- Create personalized to-do lists that include the specific details for a task.
- Capture labor information accurately using start, stop, and pause controls.
- Print workorder reports with an ease.

## 7.1. Prerequisites for SAP Gateway Configuration

Ensure these components are installed and configured:

- Dependency
  - Innovapptive Add-Ons and Support Packs are installed successfully.
- Assumptions
  - The backend processes required for the app are enabled and related data is set up.
  - The Innovapptive mWorkOrder mobile solution 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.

The mWorkOrder mobile solution helps you do the following with SAP Plant Maintenance (PM) module.

- Work Orders
  - Create Work Order
  - Create Emergency Work Order
  - Change Work Order
  - Release and Complete Work Order
  - Time Confirmation of Work Order Operation
  - Overall Completion Confirmation
  - Component Issue
  - Component Issue Reversal
  - Configurable Dashboard–Work Orders

- Notifications
  - Create Notification
  - Create Follow-up Notification
  - Change Notification
  - Complete Tasks and Activities
  - Complete Notification
  - Configurable Dashboard–Notifications
- Equipment
  - Create Equipment
  - Modify Equipment
  - Display Equipment
  - Create a Notification
  - Create a Work Order
  - Equipment Dashboard
- Functional Locations
  - Create Functional Location
  - Modify Functional Location
  - Display Functional Location
  - Create a Notification
  - Create a Work Order
- Time Sheets
  - Create Time Sheet
  - Change Time Sheet
  - Display Time Sheet
- Measuring Points
  - Rounds processing
  - Measurement Readings
  - Measurement Document creation
- Inspection Lots
  - Inspection Lot display and Characteristics overview
  - Results Recording
- Usage Decisions
  - View Results
  - Usage Decisions

# 7.2. Configure screens based on Order Types and Notification Types

Configure screens or tabs based on Plant Maintenance Work Order Types or Notification Types.

- 1. In SAP NetWeaver Gateway, run T-Code /n/INVMWO/SCRCONFI. Table is /INVMWO/ SCRCONFI.
- 2. Add the following entries:

Figure 7-1 Screens based on Document Type - Notifications

Display View "Screen configuration based on Document Types": Overview						
🦻 🖪 🖪 🖗						
Screen configuration	n based on Docume	ent Types				
Module Name	Document Type	Screen ID	Description	Screen Name	Offline Sync	
NOTIFICATION	Ml	NO_AC	Corrective Notification	Notification Activities	True	-
NOTIFICATION	мі	NO_AT	Corrective Notification	Notification Attachments	True	•
NOTIFICATION	Ml	NO_CA	Corrective Notification	Notification Causes	True	-
NOTIFICATION	Ml	NO_GIS	Notification GIS		True	•
NOTIFICATION	Ml	NO_HD	Corrective Notification	Notification Header	True	-
NOTIFICATION	M1	NO_HI	Corrective Notification	Notification History	True	-
NOTIFICATION	Ml	NO_IT	Corrective Notification	Notification Items	True	•
NOTIFICATION	M1	NO_TS	Corrective Notification	Notification Tasks	True	-
NOTIFICATION	M2	NO_AC	Breakdown Notificati	Notification Activities	True	•
NOTIFICATION	M2	NO_AT	Breakdown Notificati	Notification Attachments	True	-
NOTIFICATION	M2	NO_CA	Breakdown Notificati	Notification Causes	True	•
NOTIFICATION	M2	NO_HD	Breakdown Notificati	Notification header	True	-
NOTIFICATION	M2	NO_HI	Corrective Notification	Notification History	True	•
NOTIFICATION	M2	NO_IT	Corrective Notification	Notification Items	True	-
NOTIFICATION	M2	NO_TS	Corrective Notification	Notification Tasks	True	-
NOTIFICATION	S1	NO_AC	Corrective Notification	Notification Activities	True	-
NOTIFICATION	S1	NO_AT	Corrective Notification	Notification Attachments	True	-
NOTIFICATION	S1	NO_CA	Corrective Notification	Notification Causes	True	-
NOTIFICATION	S1	NO_HD	Corrective Notification	Notification Header	True	-

Figure 7-2 Screens based on Document Ty	/pe - Work Orders
---	-------------------

Display View	w "Screen con	figuratio	on based on Document Types":	Overview	
🦻 🖪 🛱					
Screen configurat	ion based on Docume	ent Types			
Module Name	Document Type	Screen ID	Description	Screen Name	Offline Sync
WORKORDER	PM01	WOHIER	Hierarchy	Hierarchy	True 🔻
WORKORDER	PM01	WO_AT	Maintenance Order	Work Order Attachments	True 🔻
WORKORDER	PM01	WO_CO	Maintenance Order	Work Order Components	True 🔻
WORKORDER	PM01	WO_GIS	Work Order GIS		True 🔻
WORKORDER	PM01	WO_HD	Maintenance Order	Work Order Header	True 🔻
WORKORDER	PM01	WO_HI	Maintenance Order	Work Order History	True 🔻
WORKORDER	PM01	WO_OP	Maintenance Order	Work Order Operations	True 🔻
WORKORDER	PM01	WO_PL	Maintenance Order	Work Order Planning view	True 🔻
WORKORDER	PM01	WO_SG	Work Order Form	Work Order Form	True 🔻
WORKORDER	PM02	WOHIER	Hierarchy	Hierarchy	True 🔻
WORKORDER	PM02	TA_OW	Maintenance Order	Work Order Attachments	True 🔻
WORKORDER	PM02	WO_CO	Maintenance Order	Work Order Components	True 🔻
WORKORDER	PM02	WO_HD	Maintenance Order	Work Order Header	True 🔻
WORKORDER	PM02	WO_HI	Maintenance Order	Work Order History	True 🔻
WORKORDER	PM02	WO_OP	Maintenance Order	Work Order Operations	True 🔻
WORKORDER	PM02	WO_PL	Maintenance Order	Work Order Planning View	True 🔻
WORKORDER	PM06	WOHIER	Hierarchy	Hierarchy	True 🔻
WORKORDER	PM06	WO_AT	Maintenance Order	Work Order Attachments	True 🔻
WORKORDER	PM06	WO_CO	Maintenance Order	Work Order Components	True 🔻
WORKORDER	PM06	WO_HD	Maintenance Order	Work Order Header	True 🔻

Table 7-1 Screen	attributes
------------------	------------

Field	Description
Module Name	Module in the mobile app like Notification or Work Order for which the Document Type is configured.
Document Type	Document Type (Work Order Type/Notifi- cation Type) for use on the mWorkOrder Mobile App.
Screen ID	Unique ID of the screen for the <b>Document</b> <b>Type</b> .
Description	Description of the <b>Document Type</b> .
Screen Name	Description to identify the Screen.
Offline Sync	To show/hide screen on the mobile appli- cation.

## 7.3. Configure Plant Maintenance Emergency Order Types

To configure plant maintenance emergency work order types:

#### 1. In SAP ECC, run T-Code **/n/INVMWO/EMGDOC**. Table is **/INVMWO/EMGDOC**.

2. Add the following entries:

		-	-	-
FIGUITE	7-3	Fmergency	/Document	Type
iguio	, 0	Linergene	Document	1900

	Display View "Emergency document type": Overview					
6	🤣 🗈 🖪 🕼					
	Emergency document type					
	Module Name	User Name	Document Type	Description	<b>111</b>	
	WORKORDER	*	PM01	Maint Order	-	
	WORKORDER	E5000250	PM02	Test	•	

Table 7-2 Emergency Order Document Type Attributes

Field	Description		
Module Name	Name of the module where the Document Type is configured.		
User Name	User to whom the Document Type is available in the application. Note: It is recommended to configure this field as '*' so that the Docu- ment Type is available to all the users.		
Document Type	Indicates the Document Type like Work Order Type.		
Description	Description of the Document Type.		

## 7.4. Map Measuring Entry List to Mobile User

To map measuring entry list to users:

1. In SAP ECC, run SM30. Give the Table Name as /INVMWO/MPLIST.

2. Click Maintain.

Figure 7-4 SM30

Maintain Table Views: Initial Screen						
🛗 Find Maintenance	🛗 Find Maintenance Dialog					
Table/View	7	INVMWO/MPLI	ST			
Restrict Data Range						
No Restrictions						
O Enter conditions						
○ Variant						
රිය Display		Maintain	-	Transport		Customizing

3. Click **New Entries** and maintain new entries. Entry List is the Readings Task List and Reading Taken by is the Mobile user to whom the Task List will be assigned and sent to capture Readings.

4	Change View "Measurement Reading Lists Assignment": Overview					
6	6 New Entries 🗈 🖶 🖚 🕃 🕵					
	Measurement Re	ading Lists Assig	nment			
	Entry list	Reading take	Description	<b>111</b>		
	116	WLTEST1		-		
	117	WLTEST1		•		
	118	WLTEST1		-		
	120	WLTEST1				
	121	WLTEST1				
	122	WLTEST1				
	125	MWORKORDER				
	125	MWORKORDER2				
	125	WLTEST1				
	126	KEVINK				
	126	MWORKORDER				
	126	MWORKORDER2				
	127	MWORKORDER				
	127	MWORKORDER2				
	127	WLTEST1				
	128	MWORKORDER				

Figure 7-5 Measurement Reading Lists Assignment

## 7.5. Configure Priority and System Status Color Coding

To configure priority and system status in Work Order and Notification Modules:

- 1. In SAP ECC, run T-Code SM30. Table is /INVMWO/PRICOLOU.
- 2. Add the following entries:

Figure 7-6 Priority Color

4	Displa	y View "l	Priorit	ty Colour": Overview	
63	🍄 🗈 🗳				
P	Priority Co	olour			
	App Id	Keys	value	Colour	
	APP01	IPHAS	CRTD	ff0000	
	APP01	IPHAS	REL	6DB580	
	APP01	IPHAS	TECO	B0BEC5	
	APP01	PRIOK	1	4F5EB0	
	APP01	PRIOK	2	FBC02D	
	APP01	PRIOK	3	161e14	
	APP01	PRIOK	4	B0BEC5	
	APP01	PRIOK	5	A020F0	
	APP01	PRIOK	А	FFA500	
	APP01	PRIOK	В	DC5F61	
	APP01	PRIOK	с	6F7BBE	
	APP01	PRIOK	D	619DCF	
	APP01	PRIOK	E	00A797	
	APP01	PRIOK	F	FFA500	
	APP01	PRIOK	Z	B0BEC5	
	APP02	IPHAS	NOCO	B0BEC5	
	APP02	IPHAS	NOPR	6DB580	
	APP02	IPHAS	OSNO	E8C86E	
	APP02	PRIOK	1	4F5EB0	

Table 7-3 Priority and System Status configuration attributes

Field	Description
Арр ID	Unique application ID to identify the mod- ule where the priority color coding is con- figured.
Кеу	Standard SAP field (Priority/Status) key to configure color coding.

Field	Description
Value	SAP field (Priority/Status) value to config- ure color coding.
Colour	Indicates the hexa decimal code of the color for Priority/Status.

## 7.6. Configure Work Order Numbers Color Coding

To configure work order numbers color coding in work order module:

#### 1. In SAP ECC, run T-Code **SM30**. Table is **/INVMWO/WO\_CLRCD**.

2. Add the following entries:

#### Figure 7-7 Work Order Color Coding



#### Table 7-4 Work Order Color Coding configuration attributes

Field	Description
Field Name	Work Order field key.

Field	Description
Value	Value of the field to be compared.
Operator	Formula (<, >, =, ≥, ≤)
Color	This field allows you to enter desired color coding for Work Order Numbers. Use the HTML color codes to define the Work Order Number colors.

## 7.7. Configure DMS Document Object Links

To configure DMS document object links:

1. In SAP ECC, run T-Code /n/INVMWO/OBJLINK. Table is /INVMWO/OBJLINK.

2. Add the following entries:

	Display View "Document Object Links": Overview				
e	🤣 🖪 🖪 🖪				
	Document Object Links				
	Module Name	SAP object	Active	<b>11</b>	
	EQUIPMENT	EQUI	✓		
	FUNCTIONALLOCATION	IFLOT	✓	-	
	WORKORDER	CRVS_B	✓	44	
	WORKORDER	EQUI	✓		
	WORKORDER	IFLOT	✓		
	WORKORDER	IMPTT	✓		
	WORKORDER	MARA	<b>√</b>		

Figure 7-8 DMS Document Object Links

#### Table 7-5 DMS Document Object Links attributes

Field	Description
Module Name	Name of the module where the object link is configured.
SAP Object	Source field to configure DMS document object link.
ACTIVE	To enable/disable the object link.

## 7.8. Configure staging table for Equipment and Functional Location master

Learn how to configure staging table for standard tables of Equipment and Functional Location master.

This process is applicable only if the Scoping ID **APPSTG** is enabled in RACE™.

To configure staging table:

#### 1. In SAP ECC, run T-Code **/n/INVMWO/EQ\_STG**.

2. Enter selection criteria and execute.

Figure 7-9	Fauipment	Selection	Criteria
ingalo / o	Equipriment	0010001011	onconia

Equipment List			
D 🔁			
Equipment		to	<u>e</u>
Equipment description		to	
Status	AVLB	to	
Equipment category		to	
Type of Technical Object		to	2
Functional Location		to	2
Main work center		to	2
Created on		to	2
Created by		to	2
Maintenance Plant	1000	to	3
Location		to	2
Plant Section		to	2
Work Center	MECHANIK	to	2
ABC indicator		to	2
Sort field		to	2
Business Area		to	2
Cost Center		to	2
Planning plant	1000	to	2
Planner group		to	2
Main Asset Number		to	2
Superordinate Equipment		to	2

3. Entries are shown in these tables:

- a. /INVMWO/EQ\_HIERA
- b. /INVMWO/EQ\_MEASU
- c. /INVMWO/EQ\_H\_SUB
- d. /INVMWO/EQ\_LIST
- e. /INVMWO/EQ\_HEADR
- f. /INVMWO/EQ\_GEOLC
- g. /INVMWO/EQ\_CLSIT
- h. /INVMWO/EQ\_CLSHD
- i. /INVMWO/EQ\_PRTNR

L	oata Broi	wser:	: Table /	INVMWC	D/EQ_	HIER	IA Se	lect l	Entr	ies	31	
66	, 🥶 🔁 🗌	<b>B B</b>		7 🛛 🖓	1	🦉 🚯	1 1 1 1		1			
B	EQUNR	EQKT	X HEQUI	HEQUI_TXT	MATNR	MAKTX	MENGE	MEINS	FLAG	LA_FLAG	TPLNR	SNO
	10008892		10000470				0,000					1
	10008895						0,000		х	x	1000-100-AB-02	1
	10008897						0,000		х		CF1-A309-0026	1
	10009900						0,000		х		CF1-A309-0027	1
	10009901						0,000		х		CF1-A309-0028	1
	10009902						0,000		Х		1000-101-AB-07	1
	10009904						0,000		Х		1000-100-AB-11	1
	10009905						0,000		Х		1000-100-AB-11	1
	10009906		10003557				0,000					1
	10009907						0,000		Х	Х	1000-100-AB-13	1
	10009908		10009907				0,000			Х		1
	10009909						0,000		Х	Х	1000-100-AB-14	1
	10009910						0,000		Х		CF1-A309-0029	1
	10009911						0,000		Х		CF1-A309-0030	1
	10009912						0,000		Х	Х	1000-100-AB-19	1
	10009915						0,000		Х		2108-AUT	1
	10009918						0,000		Х		CF1-A309-0031	1
	10009919						0,000		Х		CF1-A309-0032	1
	10009920						0,000		Х		CF1-A309-0033	1
	10009921						0,000		Х		CF1-A309-0034	1
	10009922						0,000		Х		CF1-A309-0035	1
	10009923						0,000		Х		CF1-A309-0036	1
	10009924						0,000		Х		CF1-A309-0037	1
	10009925						0,000		Х		CF1-A309-0038	1
	10009927						0,000		Х		CF1-A309-0039	1
	10011273						0,000		Х		CF1-A309-0041	1

Figure 7-10 Equipment Hierarchy table

4. In SAP ECC, run T-Code **/n/INVMWO/FL\_STG**.

5. Enter selection criteria and execute.

Functional Location Exp	and for Staging	g Table	
<b>(</b>			
Functional Location		to 💽	
Description of functional lo		to	
Functional location category		to 📄	
Main Work Center	MECHANIK	to 💽	
Type of Technical Object		to	
Status		to 📑	
Created on		to 📑	
Created by		to 📑	
Maintenance Plant	1000	to 📑	
Location		to 📑	
Plant Section	100	to 📄	
Work Center		to 📑	
ABC indicator		to 📄 📑	
Sort field		to 🛃	
Business Area	1000	to 📄	
Cost Center		to 📑	
Planning plant	1000	to 📄	
Planner group		to 📄	
Main Asset Number		to 📄	
WBS Element		to 💽	
Construction type		to 📑	
Authorization group		to 📄	

Figure 7-11 Functional Location Selection Criteria

- 6. Entries are shown in these tables:
  - a. /INVMWO/FL\_IFLO
  - b. /INVMWO/FL\_HI\_DE
  - c. /INVMWO/FCHEADER
  - d. /INVMWO/FL\_HIER
  - e. /INVMWO/FL\_MEAS
  - f. /INVMWO/NOTF\_GEO

L	Data Browser:	Table /INVMWO/FL_IFLO	Select E	Intries	89							
60	9	1	🕅 I 🎟 🖷	I 🖷								
	1000 100 AD 01	PLIXI Production Area	TPLKZ	FLIYP I	WERK LGWIL	INGRP ST	IXIFLII	X STIXUE	X TENSION	ARBPL	LABELS	HERS I
	1000-100-AB-01	Froduction Area	A .	1	000	100				MECHANIK	{ entries :[{ TP_	Fgf11
	1000-100-AB-02	Functional location edit	A .	1	000	100				MECHANIK		MOLOIS 12
	1000-100-AB-03	Functional offine1	A	1	000	100				MECHANIK		ABC.CO
	1000-100-AB-04	Suppository packing line	A	1	000					MECHANIK		MOTO
	1000-100-BA-01	REGULATOR STATION R1000	A	1	000							
	1000-100-PS-41	Technical Spec	A	1	000					MECHANIK		BMW
	2108-AUT	Automation Servers & Hubs	A	1	000	100						Automation Serve
	2108-BLK	Bulk Storage	A	1	000	100				ELEKTRIK		
	2108-BLK-CH	Bulk Chemical Storage1	Α									Automation serve
	DL-EH	Primary Substation EHALLANDALE 1	WDI01	1	000							
	DL-EH-01	Sub EHALLANDALE - Feeder EHALL 1	WDI01	1	000							
	DL-EH-01-S01	THE DIPLOMAT 1	WDI01	1	000							
	DL-EH-01-S02	THE DIPLOMAT 2	WDI01	1	000							
	DL-EH-01-S03	THE DIPLOMAT 3	WDI01	1	000	103				ITSERV		
	DL-EH-01-S04	THE DIPLOMAT 4	WDI01	1	000							
	DL-EH-01-S05	THE DIPLOMAT 5	WDI01	1	000							
	DL-EH-01-S06	THE DIPLOMAT 6	WDI01	1	000							
	DL-EH-01-S07	THE DIPLOMAT 7	WDI01	1	000							
	DL-EH-01-S08	THE DIPLOMAT GOLF RESORT	WDI01	1	000							
	DL-EH-02	Sub EHALLANDALE - Feeder EHALL 2	WDI01	1	000	100				MECHANIK		tell
	DL-EH-02-P01	PS3345	WDI01	1	000	100				MECHANIK		
	DL-EH-02-P02	PS3346	WDI01	1	000	100				MECHANIK		
	DL-EH-02-P03	PS3347	WDI01	1	000	100				MECHANIK		
	DL-EH-02-P04	P53348	WDI01	1	000	100				MECHANIK		
	DL-EH-02-P05	PS3349	WDI01	1	000	100				MECHANIK		



Update the tables with background scheduled jobs regularly.

 Configure these filters in RACE<sup>™</sup>, to filter and populate data in the staging table when no value is entered for a field in the selection screen (/INVMWO/ FM\_EQ\_EXPAND\_STG).

Master	Filter
Equipment	EQSTG_FILTERs
Functional Location	FLSTG_FILTERs

Configure these when using Staging process:

Master	Filter	Table Name				
Equipment	EQSTG_FILTER	/INVMWO/EQ_LIST				
Functional Location	FLSTG_FILTER	/INVMWO/FCHEADER				

#### Note:

Data is filtered only for the fields in tables /INVMWO/FCHEADER and /INVMWO/ EQ\_LIST.

## 8. Configure RACE<sup>™</sup> for mWorkOrder

Innovapptive's Connected Workforce Platform<sup>™</sup> 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<sup>™</sup>) 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.





Deployment ecosystem consists of the following:

- 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<sup>™</sup> Add-On has both the front-end components and the back-end data tables for the RACE<sup>™</sup> Lite Configuration tool.
- 3. **Native App Client + Desktop Web App**: Application front-end solutions are offered on all three major 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
  - Windows OS Developed using Windows development kits.
  - 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 mWorkOrder

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

When you use the RACE<sup>™</sup> 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  $RACE^{TM}$  section in the Configure mWorkOrder using  $RACE^{TM}$  document.

## 9. SAP transactions and tables for mWorkOrder

The following table provides the list of key SAP transactions and tables that are relevant to the mWorkOrder mobile solution.

Module Name	Applicable Table	Transaction Code
Work Orders	AUFK, AFIH, AFKO, RESB, MARD, MARA	IW31, IW32, IW33, IW34, IW39,
	VIAUFKST	IW41, IW42, IW43, IW45, MIGO, MMBE
Notifications	QMEL, QMIH	IW21, IW22, IW23, IW29
	QMSM, QMUR	
	QMFE, QPCT	
Equipment	EQUI, EQUZ	IE01, IE02, IE03, IH08
	EQKT	
Functional Locations	IFLO, IFLOT	IL01, IL02, IL03, IH06
	ILOA	
Measuring Points	IMPTT	IK01, IK02, IK03, IK11, IK13, IK34
	IMRG	
Time Sheets	CATSDB	CAT2
Usage Decisions	QALS	QA03
	QAMV	
Inspection Lots	QALS	QA13
	QMFEL	

Table 9-1 SAP Transactions and Tables

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

To deploy MWO 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 (mWorkOrder) 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 on Activate.

Figure 10-1 Application Details - Versions

≡			SAP Cloud Platform Cockpit		ມ <sup>12</sup> ⊚			
	Overview	合 Home [US East (Ashbur	n)] / 🌐 US East (Ashburn) 🖂 / 😹 Innovapptive Inc. / 🖹	] Innovapptive Inc. ${\scriptstyle\checkmark}/{\rm O}$	mworkorderui5jameena $\!$			
	Versioning	Source Location					Ċ	2
86	Roles	Git Repository URL: http	os://git.us1.hana.ondemand.com/b70068d2c/mworkorderui5jamee	ena				
	Resource Consumption	DA Luit Online						
	Logging	History					Ċ	2
		C Refresh     ⊥ Impo       Version     6.0.2       Required Destinations	rt from File	Active /	Actions           X	<u>,</u>		
		Assign a destination from	your subaccount to each required destination of the application. Required Destination (from Application Descriptor)	Mapped	Subaccount Destination			
	Useful Links	X Edit	SAP_Gateway: Netweaver Gateway	SAP_C	Gateway (default mapping)		]	
	Legal Information							

- 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

≡			SAP Cloud Platform Cockpit							
٥	Overview	🕱 Home [US East (Ashburn	🏠 Home [US East (Ashburn)] / ⊕ US East (Ashburn) ∨ / 爲 Innovapptive Inc. / 🖻 Innovapptive Inc. ∨ / ۞ mworkorderul5jameena ∨							
٦	Versioning	Application Details						?		
86	Roles	Application Name:	mworkorderul5jameena							
Ø	Resource Consumption	Display Name:	mworkorderui5jameena							
Ĩ	Logging	Description:								
			Edit							
		Actions						?		
		Started	• • • •							
		Active Version						?		
		Active Application Version:	Active Application Version: 6.0.2							
		Application ORE.								
		Required Destinations					?			
		Assign a destination from ye								
		Available	Required Destination (from Application Descriptor)	Mapped Subaccount Desti	ination					
?	Useful Links	X	SAP_Gateway: Netweaver Gateway	SAP_Gateway (default m	napping)					
វរុំច	Legal Information	Edit								

## 11. Implement BADIs

mWorkOrder uses SAP oDATA based on RESTful design. mWorkOrder 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, mWorkOrder and select BADI as shown in the image.

For the list of BADIs available for mWorkOrder, see List of BADIs for mWorkOrder *(on page 108)*.

Figure 11-2 SPRO IMG Structure

Disp	play IMG	
V 🚛	Existing BC Sets & BC Sets for Activity	ିଙ୍≁Activated BC Sets for Ac
Structu	ure	
- 🛃	SAP Customizing Implementation Guide	
•	Retail Workforce Management	
•	Innovapptive - Mobile Solutions	
,	mRelease	
,	mWorklist	
•	mWorkorder	
-	Business Add-Inns	
	· Usage Decision	
	<ul> <li>Inspection Lot</li> </ul>	
	<ul> <li>Measuring Point</li> </ul>	
	<ul> <li>Time Sheet</li> </ul>	
	<ul> <li>Functional Location</li> </ul>	
	· Equipment	
	· Global	
	· Workorder	
	<ul> <li>Notification</li> </ul>	

- 4. Click Execute.
- 5. Alternatively, you can use transaction SE37 and view the function module /INVMWO/ BAPI\_WO\_CONFIG\_DB. This FM is related to service call that gets WorkOrder Configurable Dashboard.

F	unction	Builder: Display /INVMW	O/BAPI_WO_CONFI	G_DB	
¢	🖘   🍄	3 🖻 🞯   🏜 🥕 🐺   류 ,	🚊 💷 🚺   👰 💁 Pattern	Pretty Printer	Function Module Documentat
Fund	tion modul	e /INVMWO/BAPI WO CONFIG	DB Active		
	Attributes	Import Export Changing	Tables Exceptions So	urce code	
	7 teenbaceb	Impore Expore changing			
	421	7 +			
	421 -	* Padi Daf Object Dealawat			*
	423	* Badi ker Ubject Declarat . *	101		
	424	DATA : lo badi woconfied	D TYPE PEE TO		
	425	/invmwo/badi woconfigdb.			
	426	/ invitatio, baai_accountingab.			
	427				
	428	** Check condition for in	itial BADI		
	429	GET BADI lo badi woconfi	gdb.		
	430 E	IF lo badi woconfigdb IS	BOUND.		
	431 E	TRY.			
	432	CALL BADI lo_badi_	woconfigdb->woconfigdb		
	433	EXPORTING			
	434	it_cockpit	<pre>= it_cockpit</pre>		
	435	it_filter	<pre>= it_filters</pre>		
	436	im_skip	= im_skip		
	437	im_top	= im_top		
	438	it_ui_labels	<pre>= lt_ui_labels</pre>		
	439	CHANGING			
	440	et_list	= et_list		
	441	ev_skiptoken	= ev_skiptoken		
	442	return	= return.		
	443 0	CAICH CX_badi_not_im	premented.	"#EC	NO_HANDLER
	444	- LNDIKI.			
	441 442 443 444 445	ev_sklptoken return • CATCH cx_badi_not_im • ENDTRY. • ELSE.	<pre>= ev_skiptoken = return. plemented.</pre>	"#EC	NO_HANDLER

Figure 11-3 FM: /INVMWO/BAPI\_WO\_CONFIG\_DB

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



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

#### Figure 11-4 SE18

3	**
	* Badi Ref Object Declaration
-	**
	DATA : lo_badi_woconfigdb TYPE REF TO /invmwo/badi_woconfigdb.



9. Click the Implementation

icon for BADI.

🖉 🔄 👻 🖌	a 😪 i 🗁 ñ 🔥 i 🕯	🖏 🔁 🞝 🕼 I 🧮 🔚 I 🕜 🖳							
Enhancement Spot /INVMWO/ENH_MWORKORDER Display									
- 🏟 🖬 🖗 😵 📫   🚑 🥕   💑 🏯 🖽 🖪   💥 🗈 🛅   👫 🏭									
Enhancement Spot /INVMWO/ENH_MWORKORDER Active									
Attributes Enhancem. Implementations	Attributes Enhancem. Implementations Technical Details Enh. Spot Element Definitions								
	BAdI Definition	/INVMWO/BADI_WOCONFIGDB							
BAdI Definitions Description	Description	BADI for WO ConfigDB							
▶ 📟 /INVMWO/BADI_ST badi for storage k 🛎	Interface	/INVMWO/IF_WOCONFIGDB							
▶ 🥋 /INVMWO/BADI_ST BADI Definition fc ▼	Usability								
INVMWO/BADI_SUBADI Definition fc	Multiple Use								
<ul> <li>INVMWO/BADI_SY Badii for system c</li> </ul>		mented CAD internally							
INVMWO/BADI_TABAdi for Tasklists		menteu SAP-internaliy							
<ul> <li>INVMWO/BADI_TIBADI for Employe</li> </ul>	ye Limited Filter Use								
INVMWO/BADI_TIBADI for Employe									
INVMWO/BADI_TIBADI for Update	Instance Creation Mo	ode							
INVMWO/BADI_TI BADI Definition fc	Newly Creating Ins	stantiation							
INVMWO/BADI_UDBADI Definition fc									
INVMWO/BADI_UN BAdi for Units of I		.011							
<ul> <li>INVMWO/BADI_UN badi definition for</li> </ul>	O Context-Specific Ir	instantiation							
INVMWO/BADI_US BADI Definitions f									
INVMWO/BADI_US BADI Definitions f	Call fallback if no in	nplementation is executed							
INVMWO/BADI_US BADI Definition fc	Fallback Class								
INVMWO/BADI_US BADI Definitions f									
INVMWO/BADI_VABADI for Value De			_						
/INVMWO/BADI_W/Wage Type	Implementation Exam	nple Classes							
/INVMWO/BADI_W(Update Persons c									
VINVMWO/BADI_W BADI for WO Con									
• Dinterface									
• Unplementations									
INVMWO/BADI_W(BADI for object s) (INVMWO/BADI_W(BADI for object s)									
INVMWO/BADI WIBADI Definition fc									

10. 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 /INVMWO/	/ENH_MWORKORDER Change
🗢 🔿   🌮 😘 📫   🖆 🥕 🖷 🔂   🛔	. 差 💷 🗓   💥 🗈 📭   光 🖴
Enhancement Spot //I Attributes Enhancem, Implementations	INVMWO/ENH_MWORKORDER Active
Attroutes F Enhancem. Implementations  Attroutes F Enhancementations  Attroutes F Enhancementations  Attroutes F Enhancementations  Attroutes F Enhancementation  Attrou	Inplementations         BAdI Definition         /INVMWO/BADI_WOCONFIGDB         ate BAdI Implementation         mplementation         ZWOCONFIG_DB         ption         Enhancement Spot for Implementation for Configurable DB         nenting Class
/INV/MW/O/RADI_W/RADI for object e	

- 11. Enter the package name.
- 12. Enter an appropriate name starting with Y/Z for BADI implementation and any Z/Y

name for implementing a class.

Enhancement Spot /INVMWO/ENH_MWORKORDER Display									
- 🗢 🔿   🦘 😘 🖆   🚣 🥕   💑 🏯 💷 🚺   💥 🗈 🕞   🏍 🏔									
Enhancement Spot /INVMWO/ENH_MWORKORDER Active									
Attributes Enhancem. Implementations	Technical Details	Enh. Spot Element Definitions							
D 💼 🖶 🕞 🖊 🖴 🗐	BAdI Definition	/INVMWO/BADI_WOCONFIGDB 🔛 tech. 1							
BAdI Definitions Description	Description	BADI for WO ConfigDB							
▶ 🛄 /INVMWO/BADI_ST badi for storage k 🔺 Interface /INVMWO/IF_WOCONFIGDB									
INVMWO/BADI_ST BADI Definition fc      Usability									
M C / INVANAO/DADT CURADT Defection fo									

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

Enhancement Implementation ZENH_MWORKORDER Display									
🗢 🔿   🌮 😘 혐   🍜 🗡 🖷 🤤   👗 🧵 🗉 🚹   🐰 🗅 🙃 🎋									
Enhancement Implementation ZENH_MORKORDER Inactive Properties History Technical Details Enh. Implementation Elements									
	Implementing Class								
BAdI Implementations Description	Interface	/INVMWO/IF_WOCONFIGDB							
ZBADI_EQU_CATEGOFBadi for equipment category	Implementing Class								
ZWOCONFIG_DB Enhancement Spot for Imple	Method Short description								
• 🗐 Implementing Class	/INVMWO/IF_WOCONFIGDB	~WOCONFIGDB	WO CONFIG DB						

- 14. Click Yes.
- 15. Perform the development activity (code changes and enhancements) to meet the business requirements:
  - a. By default, the BADI is initially blank.
  - b. Copy all the lines of the code from the standard Innovapptive-delivered FM / INVMWO/BADI\_WOCONFIGDB to this section.

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

Cl	Class Builder: Class ZWOCONFIGDB Display										
\$	🗇 🗇 😚 😫 🖆 🎯   🍰 🧪 專 🔖   🏯 🤶 🗆 🚺 🖷 🚭 Pattern 🛛 Pretty Printer 📄 Signature 🗏 🖀 Public Section 🖀 Protected Section 🖉 Private Section										
Ty.	Parameter	Type spec.	Description								
Þ	VALUE( IM_SKIP )	TYPE INT4 OPTIONAL	Natural Number								
Þ	VALUE( IM_TOP )	TYPE INT4 OPTIONAL	Natural Number								
Þ	VALUE( IT_UI_LABELS )	TYPE /INVMGO/T_UI_LABELT OPTIONAL	Table type for UI label text								
Þ	VALUE( IT_COCKPIT )	TYPE /INVMGO/T_COCKPIT OPTIONAL	mwork Order Cockpit								
Þ	VALUE( IT_FILTER )	TYPE /INVMGO/FILTER_T OPTIONAL	Filters								
ÞØÞ	VALUE( EV_SKIPTOKEN )	TYPE INT4 OPTIONAL	Natural Number								
ÞØÞ	VALUE( ET_LIST )	TYPE /INVMWO/T_WO_DBCONFIG OPTIONAL	WO Config DB								
Þ¤Þ	VALUE( RETURN )	TYPE /INVMWO/T_BAPIRET2 OPTIONAL	Table Type for BAPIRET2								
Method /INVMMO/IF_WOCONFIGDB~WOCONFIGDB Inactive											
	1 Inethod /INVMWO/IF	WOCONFIGDB~WOCONFIGDB.									
	2 Lendmethod.										

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

11.3. Verify BADI Implementation

1. Run SE37 and display the function module /INVMWO/BAPI\_WOCONFIGDB.

Figure 11-5 Function Module: /INVMWO/BAPI\_WOCONFIGDB

Function module //INVMWO/BAPI_WO_CONFIG_DB Active												
_	/	Attribute	es	Import	Export	Chang	ing T	Fables	Exception	s Source	code	
		418	Τ		10	_artpr		TYPE	artpr	VALUE	'PM',	
ſ		419		п.,	10	: langu		TYPE	sylangu	VALUE	'E'.	
Ļ	-	420		ц.,								
		421	þ	*								 ****
		422		* Badi	Ref Obje	ect Decla	aration					
		423	ŀ	*								 *
		424		DATA	: lo bad	li woconf	Eigdb	TYPE	REF TO			
		425		/invmwo	/badi wo	_ configdk	<b>.</b>					
		426			_							

2. Double-click the BADI //INVMWO/BADI\_WOCONFIGDB

Enhancement Spot /I	NVMWO/ENH_MWORKORDE	R Act	tive	
Attributes Enhancem. Implementations	Technical Details	Enh. Spot Element Definition	S	
D 💼   🔂   🗔 🎜 🖺	BAdI Definition	/INVMWO/BADI_WOCONFIGD	B 🔛 🔛 tech.	1
BAdI Definitions Description	Description	BADI for WO ConfigDB		
▶ 📟 /INVMWO/BADI_SU BADI Definition fc ▲	Interface	/INVMWO/IF_WOCONFIGDB		
🕨 🐖 /INVMWO/BADI_SY Badii for system c 💌	Usability			
<ul> <li>INVMWO/BADI_TABAdi for Tasklists</li> </ul>	✓ Multiple Use			
INVMWO/BADI_TIBADI for Employe	Can only be implem	onted SAD-internally		
INVMWO/BADI_TIBADI for Employe		enced over-incentally		
INVMWO/BADI_TIBADI for Update				
► MARCEL AND				
INVMWO/BADI_UDBADI Definition for Investor (Investor)	Instance Creation Mod	e		
INVMWO/BADI_UN BAdi for Units of I	Newly Creating Inst	antiation		
INVMWO/BADI_UN Dadi definition for Manual Annual	OReusing Instantiatio	n		
/INVMVO/BADI_03 BADI Definitions f	O Context-Specific In	stantiation		
✓/INV/MWO/BADI_US BADI Definition fr	O concerce op cente int			
/INVMWO/BADI_03BADI Definitions f				
INVMVO/BADI VABADI for Value De	Call fallback if no imp	plementation is executed		
/INVMWO/BADI W/Wage Type	Fallback Class			
/INVMWO/BADI W(Update Persons c				
/INVMWO/BADI_W BADI for WO Con	Implementation Examp	ole Classes		
• 🗐 Interface				
O Implementation:				
· <b>-</b> · · · · · · · · · · · · · · · · · · ·				

Figure 11-6 BADI: //INVMWO/BADI\_WOCONFIGDB

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

3. Verify the Implementation is active check box.

## 11.4. List of BADIs for mWorkOrder

List of BADIs (Business Add-Ins) available as part of the mWorkOrder SAP ECC Add-on component to enhance the standard functionality with ABAP development.
MODULE NAME	BADI Name	<b>BADI Description</b>	Screen Description
EQUIPMENT	/INVMWO/BADI_AD- DRNO_CREATE	BADI Definition for Ad- dress Number Create and Update	Equipment Address Create
EQUIPMENT	/INVMWO/BADI_E-	BADI Definition for	Equipment General
	QUIPMENT_DETAIL	Equipment List	Display
EQUIPMENT	/INVMWO/BADI_E-	BADI Definition for	Equipment Header
	QUIPMENT_LIST	Equipment List	Display
EQUIPMENT	/INVMWO/BADI_E-	BADI definition for	Equipment Location
	QUI_CREATE	Equipment Create	Create
EQUIPMENT	/INVMWO/BADI MAINTENANCE_PLANS	Maintenance Plans	Equipment Display Maintenance plant
EQUIPMENT	/INVMWO/BADI_E-	BADI Definition for	Equipment Display Bill
	QUIPMENT_BOM	Equipment BOM	of Material
EQUIPMENT	/INVMWO/BADI_E- QUIP_ATTACHMENTS	BADI for Equip At- tachments	Equipment Filters
FUNCTIONAL LO- CATION	/INVMWO/BADI IFLO_CREATE	BADI Definition for Functional Location Create	Functional Location Header Display
FUNCTIONAL LO-	/INVMWO/BADI_FL	BADI Definition for	Functional Location
CATION	LAST_MEASPOINT	Last MP List	Measuring Counter
FUNCTIONAL LO- CATION	/INVMWO/BADI_E- QUIP_NEAR_ME	BADI Definition for Equipment Last Ac- tive Orders	Functional Location Near Me Notification Filters
FUNCTIONAL LO-	/INVMWO/BADI	BADI Definition for	Functional Location
CATION	PARTNER_LIST	Partner List	Partner Create
FUNCTIONAL LO-	/INVMWO/BADI	BADI Definition for	Functional Location
CATION	FUNCTIONAL_DETAIL	Functional Location	Search
INSPECTIONLOT	/INVMWO/BADI	BADI Definition for In-	Inspection Lot Char-
	INSP_CHAR_LIST	spection Lot List	acteristics Display

Table 11-1 BADIs in mWorkOrder Application

Tuble II-I BADIS III III WORKOI dei Application (continued)
---

MODULE NAME	BADI Name	<b>BADI Description</b>	Screen Description
INSPECTIONLOT	/INVMWO/BADI INSP_OPERATIONS	BADI Definition for in- spection Lot Opera- tions	Inspection Lot Opera- tions Display
INSPECTIONLOT	/INVMWO/BADI INSPECLOT_NO_LIST	BADI Definition for In- spection Lot List	Inspection Lot Search
MEASURINGPOINT	/INVMWO/BADI_EN- TRYLIST	BADI for Entry list	Measuring Point Entry List Display
MEASURINGPOINT	/INVMWO/BADI MEASURING_POINT	BADI Definition for Get List of Measuring point	Measuring Point Range Limits Display
MEASURINGPOINT	/INVMWO/BADI MEASPOINT_CREATE	BADI Definition for Create Measuring Point	Measuring Point Header Create
MEASURINGPOINT	/INVMWO/BADI MEASDOC_HISTORY	BADI Definition for MP History	Measuring Point His- tory Display
NOTIFICATION	/INVMWO/BADI WO_NOTIF_LIST	BADI for Notification List	Notification Map
NOTIFICATION	/INVMWO/BADI NOTIF_ACTIVITY_LI	BADI for Notification Activity List	Notification Activities Create
NOTIFICATION	/INVMWO/BADI NOTIF_CREATE	BADI for Notification Create	Notification Header Create
NOTIFICATION	/INVMWO/BADI NOTIF_ITEM_UPDATE	BADI Definition for No- tify Item Update	Notification Items Create
NOTIFICATION	/INVMWO/BADI WO_NOTIF_DETAILS	BADI for Notification Details	Notification Header
NOTIFICATION	/INVMWO/BADI NOTIF_ITEMS_DISP	BADI for Notification Items List	Notification Items
NOTIFICATION	/INVMWO/BADI NOTIF_CAUSES_LIST	BADI for Notification Causes list	Notification Causes

MODULE NAME	BADI Name	<b>BADI</b> Description	Screen Description
NOTIFICATION	/INVMWO/BADI NOTIF_TASK_LIST	BADI for Notification Task List	Notification Tasks
NOTIFICATION	/INVMWO/BADI	Notification Release	Notification Task Cre-
	NOTIFTASK_REL_COM	and Complete	ate
NOTIFICATION	/INVMWO/BADI NOTIF_HISTORY	BADI Definition for No- tification History	Notification History
NOTIFICATION	/INVMWO/BADI	BADI for Notification	Notification Header
	NOTIF_CAUSES_UPD	Causes Update	Display
WORKORDER	/INVMWO/BADI WO_COMPONENT LIST	BADI for Components list	Work Order Compo- nents Create
WORKORDER	/INVMWO/BADI	BADI for work order	Work Order Header
	WORKORDERS_LIST	list	Create
WORKORDER	/INVMWO/BADI	Work Order Operation	Work Order Opera-
	WO_OPERATION_LIST	List	tions Create
WORKORDER	/INVMWO/BADI	BADI Definition for	Work Order Header
	WORKORDER_CREATE	Create Workorder	Display
WORKORDER	/INVMWO/BADI MATERIAL_GETLIST	BADI for Material List	Material Search
WORKORDER	/INVMWO/BADI_E- QUI_CREATE	BADI definition for Equipment Create	Work Order Header
WORKORDER	/INVMWO/BADI	BADI for PLANNING	Work Order Planning
	PLANNING_VIEW	VIEW	tasks Display
WORKORDER	/INVMWO/BADI	BADI Definitions for	Work Order History
	WORKORDER_HISTORY	Workorder History	Display
WORKORDER	/INVMWO/BADI	Work Order Operation	Work Order Opera-
	WO_OPERATION_LIST	List	tions
WORKORDER	/INVMWO/BADI	BADI definition for	Work Order Compo-
	WO_BOM_DETAILS	BOM details	nents

Table 11-1 BADIs in mWorkOrder Application (continued)

MODULE NAME	BADI Name	<b>BADI Description</b>	Screen Description
WORKORDER	/INVMWO/BADI OPECONF_DETAILS	BADI Definitions for WO Operations	Work Order Operation Confirmation Create
WORKORDER	/INVMWO/BADI ALM_CONF_CANCEL	BADI Definitions for Priority Count	Workorder DB search
WORKORDER	/INVMWO/BADI_AT- TACHMENT_CREATE	BADI Definition for at- tachment create	Workorder Attach- ments
WORKORDER	/INVMWO/BADI MATERIAL_STOCK	BADI Definition for Material Stock	Material Availability Filters
WORKORDER	/INVMWO/BADI WOTYPES_GETLIST	BADI for Work Order Types	WO DocType Filters
WORKORDER	/INVMWO/BADI_D- DWORKORDERS_LIST	BADI Definitions for DD Workorders List	Work Order Search
WORKORDER	/INVMWO/BADI NOTIF_EQUIPT_LIST	BADI for Notification Equipment list	DD Equipment Filters
WORKORDER	/INVMWO/BADI NOTIF_FUNLOC_LIST	BADI Notification function location list	DD Functional Loca- tion Filters
USAGEDECISION	/INVMWO/BADI USAGE_DEC_LIST	BADI Definitions for Usage Decision List	Usage Decision Header Display
USAGEDECISION	/INVMWO/BADI_DE- FECTS_GET	BADI Definitions for Defects List	Usage Decision De- fects Display
USAGEDECISION	/INVMWO/BADI USAGE_DEC_SAVE	BADI Definitions for Usage Decision Save	Usage Decision Save
TIMESHEET	/INVMWO/BADI TIME_ENTRY_OVRVEW	BADI for Employee Time Entry Overview	Timesheet Filters
TIMESHEET	/INVMWO/BADI TIME_ENTRY_CREATE	BADI for Employee Time Entry Creation	Time Sheet Create
CREWMANAGEMENT	/INVMWO/BADI_W- C_PERSONS_UPD	Update Persons of Work Center	Pernr Search

Table 11-1 BADIs in mWorkOrder Application (continued)

MODULE NAME	BADI Name	<b>BADI Description</b>	Screen Description
CREWMANAGEMENT	/INVMWO/BADI_D- DEMP_LIST	BADI Definitions for Employee List	Pernr Search
WORKORDER	/INVMWO/BADI WO_ATTACH_DEL	BADI to delete WO at- tachments	Work Order
EQUIPMENT	/INVMWO/BADI_E- QUIP_ATTACH_DEL	BADI to delete Equip- ment attachments	Equipment
FUNCTIONALLOCATION	/INVMWO/BADI_FL ATTACH_DEL	BADI to delete FL at- tachments	Functional location
NOTIFICATION	/INVMWO/BADI NOTIF_ATTACH_DEL	BADI to delete Notifi- cation attachments	Notification
MEASURINGPOINT	/INVMWO/BADI_MP ATTACH_DEL	BADI to delete Mea- suring Points attach- ments	Measuring Points
WORKORDER	/INVMWO/BADI WOCONFIGDB	BADI Definition for WOCONFIGDB	Work Order
NOTIFICATION	/INVMWO/BADI_NO- CONFIGDB	BADI Definition for NOCONFIGDB	Notification
WORKORDER	/INVMWO/BADI_VAL- UE_DESC	BADI Definition for Value Descriptions	Work Order
WORKORDER	/INVMWO/BADI WOOBJ_STATUS_LIST	BADI for object status and individual status for an object	Work Order
NOTIFICATION	/INVMWO/BADI NOOBJ_STATUS_LIST	BADI for Object or In- dividual status for an object	Notification
WORKORDER	/INVMWO/BADI ALM_CONF_CANCEL	BADI for Confirmation Cancelation	Work Order

Table 11-1 BADIs in mWorkOrder Application (continued)

MODULE NAME	BADI Name	<b>BADI Description</b>	Screen Description
WORKORDER	/INVMWO/BADI MULTIOPER_CONF	BADI for Work Order Multi Operation con- firmation	Work Order
NOTIFICATION	/INVMWO/BADI NOTIF_UPDATE	BADI for Notif Update for overall conf	Notification
WORKORDER	/INVMWO/BADI WO_OPERATION_UPD	BADI for Updating the work order	Work Order
WORKORDER	/INVMWO/BADI UNIT_OF_WORK	BADI Definition for Unit of Work	Work Order
WORKORDER	/INVMWO/BADI WO_TLIST_COMP PRT	BADI Definition for Tasklists Components	Work Order
WORKORDER	/INVMWO/BADI TASKLIST_CREATE	BADI Definition for Tasklists Create	Work Order
WORKORDER	/INVMWO/BADI TASKLIST_CHANGE	BADI Definition for Tasklists Change	Work Order
WORKORDER	/INVMWO/BADI IFLO_UPDATE	BADI Definition for Functional Location Update	Work Order
WORKORDER	/INVMWO/BADI MEASDOC_CREATE	BADI Definition for Create Measuring Document	Work Order
WORKORDER	/INVMWO/BADI WO_PRT_DOCS	BADI Definition for WO Display PRT's Docu- ment	Work Order
WORKORDER	/INVMWO/BADI WO_TLIST_PRTS_DOC	BADI Definition for WO Create PRT's Docu- ment	Work Order

Table 11-1 BADIs in mWorkOrder Application (continued)

MODULE NAME	BADI Name	<b>BADI Description</b>	Screen Description
NOTIFICATION	/INVMWO/BADI NOTIF_CODEGR_LIST	BADI Definition for No- tification Code group List	Notification
WORKORDER	/INVMWO/BADI WO_OBJECTS_DETAIL	BADI Definition to get Object list	Work Order
WORKORDER	/INVMWO/BADI WO_OBJECTS_UP- DATE	BADI Definition to up- date object details	Work Order
WORKORDER	/INVMWO/BADI WO_OBJECTS_CRE- ATE	BADI Definition to cre- ate new object	Work Order
WORKORDER	/INVMWO/BADI MULTDFORM_DISPLAY	BADI Definition to get multiple form list of Workorder	Work Order
NOTIFICATION	/INVMWO/BADI MULTDFORM_DISPLAY	BADI Definition to get multiple form list of Notification	Notification
WORKORDER	/INVMWO/BADI MULDFORM_UPDATE	BADI Definition to up- date forms of worko- rder	Work Order
NOTIFICATION	/INVMWO/BADI MULDFORM_UPDATE	BADI Definition to up- date forms of Notifi- cation	Notification
TIMESHEET	/INVMWO/BADI TIME_ENTRY_CONFRM	BADI definition for timesheet confirma- tion	Timesheet
TIMESHEET	/INVMWO/BADI TIMESHEET_RELEASE	BADI for Timesheet Release	Timesheet

Table 11-1 BADIs in mWorkOrder Application (continued)

MODULE NAME	BADI Name	<b>BADI Description</b>	Screen Description
WORKORDER	/INVMWO/BADI WO_DASHBOARD	BADI Definition for Work Order and Op- erations Dashboard	Work Order Dash- board screen
WORKORDER	/INVMWO/BADI WO_DASHBOARD LIST	BADI Definition for Work Order and Op- erations Dashboard	Work Order Dash- board screen
WORKORDER	/INVMWO/BADI WO_WC_PERSONS	BADI Definition for Work Center and Per- sons Relation	Work Order Dash- board screen
WORKORDER	/INVMWO/BADI NOTIFSCODEGROUP	Badi for Notifications Code-group in offline.	Notification
WORKORDER	/INVMWO/BADI NOTIFICATIONCODE	Badi for Notification Codes	Notification
WORKORDER	/INVMWO/BADI WO_NO_EXPAND NEW	Badi for Workorder store(General store) in offline	Work Order

Table 11-1 BADIs in mW	orkOrder Application	(continued)

#### Table 11-2 BADIs for mWorkOrder

Module Name	BADI Name	<b>BADI Description</b>
WORKORDER	/INVMWO/BADI_WOORDER- ENTITYSET	BADI Definition for to get workorder details
WORKORDER	/INVMWO/BADI_WO- ORDEROPER	BADI Definition for to get op- eration details
WORKORDER	/INVMWO/BADI_WO- ORDEROPERDEL	BADI Definition for Workorder Operations delete
WORKORDER	/INVMWO/BADI_WO_DYND- DENTITYSET	Dynamic Dropdown
WORKORDER	/INVMWO/BADI_WO_DYN CREATE	Create Dynamic extension collection

Table 11-2 BADIs for mWorkOrder (	(continued)
-----------------------------------	-------------

Module Name	<b>BADI Name</b>	<b>BADI Description</b>
WORKORDER	/invmwo/badi_wo_han- dlchangeset	Workorder Handle change set
WORKORDER	/INVMWO/BADI_WO_OPER UPDATE	Work order Operation Update
WORKORDER	/INVMWO/BADI_WO_OR- DERSUPDATE	Work order update
WORKORDER	/INVMWO/BADI_WOORDER- COMPDEL	Work Order Component Delete
WORKORDER	/INVMWO/BADI_WOORDER- COMP	WorkOrder Component
WORKORDER	/INVMWO/BADI_WODYNEX- TUPDATESET	Dynamic Extension Update
WORKORDER	/INVMWO/BADI_WODYNEX- TENTITYSET	Dynamic Extension
WORKORDER	/INVMWO/BADI_WODYNEX- TUPDATESET	Dynamic Extension Update
WORKORDER	/INVMWO/BADI_WOORDER- COMP	WorkOrder Component
WORKORDER	/INVMWO/BADI_WOORDER- COMPDEL	Work Order Component Delete
WORKORDER	/INVMWO/BADI_WOORDER- ENTITYSET	Work order collection
WORKORDER	/INVMWO/BADI_WO- ORDEROPER	BADI Definition for Workorder Operations
WORKORDER	/INVMWO/BADI_WO- ORDEROPERDEL	BADI Definition for Workorder Operations delete
WORKORDER	/INVMWO/BADI_WO_DYND- DENTITYSET	Dynamic Dropdown

Table 11-2 BADIs for mWorkOrder (co	ontinued)
-------------------------------------	-----------

Module Name	<b>BADI Name</b>	<b>BADI Description</b>
WORKORDER	/INVMWO/BADI_WO_DYN CREATE	Create Dynamic extension collection
WORKORDER	/invmwo/badi_wo_han- dlchangeset	Workorder Handle change set
WORKORDER	/INVMWO/BADI_WO_OPER UPDATE	Work order Operation Update
WORKORDER	/INVMWO/BADI_WO_OR- DERSUPDATE	Work order update
WORKORDER	/INVMWO/BADI_WODYNEX- TENTITYSET	Dynamic Extension
WORKORDER	/INVMWO/BADI_WOCOUN- TENTITYSET	Count Entity
WORKORDER	/INVMWO/BADI_WOAT- TACHENTITYSET	Workorder Attachment
WORKORDER	/INVMWO/BADI_WOAPP- DATAENTITYSE	App Data Configuration
WORKORDER	/INVMWO/BADI_USER_DE- TAILS	User details
WORKORDER	/INVMWO/BADI_SEARCH_FIL- TER	Search and filters
WORKORDER	/INVMWO/BADI_OPER- ATION_LIST	Operation List
WORKORDER	/INVMWO/BADI_DD_DROP- DOWN	Dynamic drop down : sub
WORKORDER	/INVMWO/BADI_COMPONEN- T_UPDATE	Component update
WORKORDER	/INVMWO/BADI_COMPONEN- T_LIST	Get Component List

Table 11-2 BADIs for mWorkOrder	(continued)
---------------------------------	-------------

Module Name	BADI Name	<b>BADI Description</b>
WORKORDER	/INVMWO/BADI_ATTACHCRE- ATESET	Attachment creation

### 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 Se	econdary Indice	- Table and Field
---------------	-----------------	-------------------

Table	Field for Secondary Index
PLKO	WERKS
AFIH	GEWRK
AUFK	WERKS

### 12.1. Create Secondary Index

To create secondary index:

- 1. Log in to SAP ECC.
- 2. Go to transaction SEII.
- 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

l Table Edt goto Utities(W) Extras Environment System Help
Dictionary: Display Table
🗇 🗢 🕎 😘 📸 🍻 🗡 🗳 👗 🧟 🗆 🗓 🎼 🎆 🔚 Technical Settings Indexes Append Structure
Transp. Table Z24_WOTYPE Active
Ind Ex     C Coate Index     Unque Author     Date     DB index name     D IE/DBS / DBS / DBS / DBS / DBS       Table Hame     224 WOTYEE       Index Name     Zee

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

Figure 12-3 Table Fields



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



11. Click Activate.

Figure 12-5 Activate Index

		111111			
ctionary: Display Table					
⇒ 1% % n i û / e i	A 💷 🗊 📴 🖬 🖞	Technical Settings	Indexes Append Structure		
n Table 724 WOTYPE	Active				
ndices for Table Z24_WOTYPE	Active				×
11		I) 🗅 🔒 🖗	1		
Ex. Short text	Status Uniq	ue Author I	Date DB index name	D IE DBS DBS DBS DBS	
secondary index	Active	E5000151	28.11.2016 Z24_WOTYPE~ZOR	E	
					××
					 ××
					VX
					×
					××
					VX
					X

# 13. Update Resource File

This section describes the steps to view and modify the content, format, and structure of the Resources file.

As part of the initial product deployment, Innovapptive will provide a default zip file that needs to be updated to reflect your settings and branding needs.

**mWorkOrder** application resource file **resources\_mworkorder.zip** on Windows platform is used as an example to demonstrate the steps and actions that are needed to be performed. The same steps can be followed for other products and platforms as well using the appropriate file and product names for other products.

To prepare and update the resource file:

- 1. Download the resources\_mworkorder\_zip file to the local drive.
- 2. Extract the resource\_mmworkorder.zip file.

The folder structure: **resource\_mworkorder**, **Dev**, **ios** is displayed after successful extraction:

3. Navigate to the iOS folder. (Same file and settings are applicable for iOS, Android, and Windows).

Standard images, logo, and the settings file are displayed in the folder.

- 4. Open the file **settings.json** in Notepad/Notepad++ (any standard text file editor).
- 5. Modify the default setting from **settings.json** file as required.

Attribute	Description
AppName	This field is used to identify the Innovapp- tive product name.
	Conditions: Use uppercase alphabets.
	<b>Possible Values:</b> Based on the product, refer to the table Table 13-3 : AppName and App id <i>(on page 130)</i> .
	Example: MWORKORDER

#### Table 13-1 json file attributes

Attribute	Description
Environment	Identifies the landscape to which the mo- bile application is connected. This value is displayed on the Login page of the mobile app.
	Conditions: None
	<b>Possible Values:</b> Development/Quali- ty/Production
ShowDemoButton	Set to True to display the Sample Data button on the application Login page. Up- on clicking the sample data, the user can view the demo data.
	Conditions: Use lowercase alphabets.
	Possible Values: true/false
hcolor	Custom header color for application. Use this parameter to customize the app screen elements, such as the header bar, to meet your corporate branding needs. Work with your appropriate branding team to identify the color that meets your enterprise palette.
	<b>Tip:</b> Using the Google Hex color picker, you can identify the Hex color code value that needs to be set up. To find the hex color code, go to www.google.com and search for "hex color picker." Select the desired color and you will see the color code.
	<b>Condition:</b> Use the Hex color code value based on the color you would like to see on the mobile app screen elements.
	<b>Possible Values:</b> As per the requirement.

Attribute	Description	
	Example:#42c2f4	
Touchld	Set the value as <b>True</b> to enable the <b>Touch</b> ID feature in application.	
AppPassCode	Set the value as <b>True</b> to enable the <b>App</b> <b>Passcode</b> feature in application.	
ForgotPwd	Set the value as <b>True</b> to enable the <b>Forgot</b> <b>Password</b> feature in application.	
ForgotPwdLink	Set the value as <b>True</b> to display the web- site link to reset password.	
ForgotPwdMsg	Set the value as <b>True</b> to display the mes- sage to reset password.	
Languages	Languages that are configured in the <b>set- tings.json</b> file are displayed to the user as a drop-down menu for selection. Addi- tional languages can be added provided the language is available in SAP and the necessary translations are maintained. <b>Syntax:</b>	
	<pre>{"id":<sequencenumber>,"key":"<saplanguagecode>","va lue":     "<languagename>"} Possible Values:Languages supported by</languagename></saplanguagecode></sequencenumber></pre>	
	SAP Example: {"id":1,"key":"E","value":"English"}	
	► Note: For RACE <sup>™</sup> Dynamic Forms, only English language is supported.	

Attribute	Description
Timeout	Application idle Timeout (in minutes). This setting allows the administrator to specify the automatic time out when apps are left idle.
	Example:D30

6. Review and update the content block for each environment (Development, Quality, and Production).

### Note:

Values described in the following table are case sensitive and are recommended to be used in the same format as mentioned in the Description section. All the values are mandatory.

#### Table 13-2 json parameters

Parameter	Description
Server	The DNS/HostName of the SMP/SCPms servers, which will be used for mobile ap- plication connection.
	<b>Example:</b> smp.innovapptive.com
Port	The application establishes the commu- nication to the server based on the speci- fied port number.
	<b>Possible Values:</b> 8080, 8081, 443
	<b>Example:</b> HTTP/HTTPs (SMP default HTTP port 8080, HTTPs 8081, SCPms HTTPs 443 and custom ports for proxy)

Parameter	Description
ApplicationID	ApplicationID is the ID configured in SMP/ SCPms and the mobile application will use it to connect to server for the registra- tion.
	<b>Condition:</b> Use the same application ID as defined in SMP/SCPms.
	<b>Possible Values:</b> Based on the product, refer to the table below.
	Example:.com.innovapptive.mworkorder
SecurityType	This field is used to identify the security type configured in SMP/SCPms server for the application. Security types are used based on authentication mechanism/lo- gin mechanism selected for the applica- tion.
	<b>Condition:</b> Use the same security profile name as defined in SMP/SCPms.
	<b>Example:</b> Basic Authentication (SSO2), SAML Authentication (SAML) and x509 au- thentication(x509) mechanisms.
https	This field is used to identify the protocol type. The default value should be set to <b>false</b> .
	Conditions: Use lowercase alphabets.
	Possible Values: true/false

Parameter	Description
Whitelist [ApplicationID]	All Innovapptive applications require con- nection settings for RACE™ services and may require other connection settings al- so.
	mWorkOrder application requires con- nection setting for RACE <sup>™</sup> , EQUIPMENT, FUNCTIONALLOCATION, and ATTACHMENT. <b>Example</b> . com.innovapptive.race, mwo.e- quipment, mwo.funloc and mwo.attach.
Whitelist [StoreName]	This field describes the name Offline stores for whitelist ApplicationIDs. RACE™ store is common for all Innovapptive ap- plications. mWorkOrder application requires to con- figure for following StoreName – RACE™, EQUIPMENT, FUNCTIONALLOCATION, and ATTACHMENT.

Figure 13-1 Sample JSON Settings file



**ApplicationID** and **AppName** depend on the app that you configure. The following table will help to configure the details.

Name	APP ID	AppName
Mobile Asset Tag	com.innovapptive.masset- tag	MASSETTAG
Mobile Inventory	com.innovapptive.minven- tory	MINVENTORY
Mobile Service Order	com.innovapptive.mser- viceorder	MSERVICEORDER
Mobile Shopping Cart	com.innovapptive.mshop	MSHOP
Mobile Worklist	com.innovapptive.mwork- list	MWORKLIST
Mobile Work Order	com.innovapptive.mworko- rder	MWORKORDER
RACE™ Dynamic Forms	com.innovapptive.racedy- namicforms	RACEDYNAMICFORMS

#### Table 13-3 AppName and App id

- 7. Save the **settings.json** file with the same name. (As a best practice, maintain a backup of the file with a different name)
- 8. Update the Image files.

The .png image files that are provided can be replaced with images to meet your branding needs. Ensure that the file format, image size, quality, resolution, and so on are aligned with the image that is being replaced.

- 9. Compress the following files with the updated files from Part 1 & 2 into a zip file with the name **resources\_ios.zip**. Ensure that the content and filenames are exactly matching.
  - App\_BG\_iPad\_Landscape.png
  - App\_BG\_iPad\_Protrait.png
  - App\_BG\_iPhone.png
  - App\_Logo.png
  - settings.json

# 14. 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 latest version of mWorkOrder app from Apple App Store, Google Play or the Microsoft Store and install it.