Upgrade Guide for mWorkOrder 2504

Connected Worker Solutions



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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*TM.

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

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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)

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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)

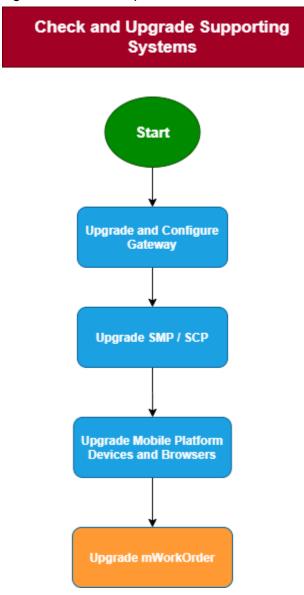
1.1. Upgrade supporting systems

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

Table 1-1 Prerequisites

Table 1-1 Prerequisites (continued)	
SAP Business Suite	 ECC 6.0 EHP 5 with SAP_BASIS 702 and above (recommended) Lower versions are compatible (requires evaluation) SAP S/4HANA Business Suite 1709, 1809, 1909 and 2021 (versions requires evaluation)
Compatible Security Authentication Mech- anism	 Basic authentication SSO2 between SMP and NetWeaver Gateway Active Directory SSO SAML 2.0 Authentication
Access	 SAP Basis System Admin with access to 000 clients in Gateway and ECC sys- tems. Access to SAP File directory usr/sap/ trans/EPS/in to upload PAT files.
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

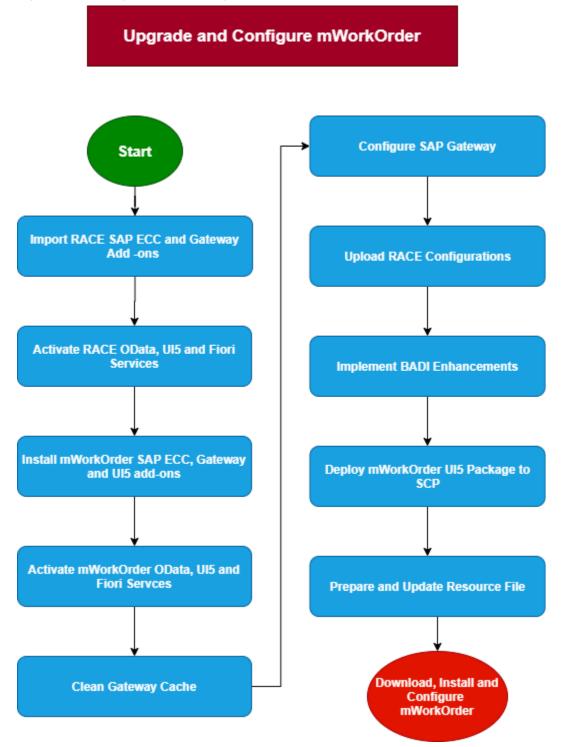


Table 1-2 References

Task	Reference to section	
Install RACE™ SAP ECC and Gateway Add- ons or Support Packs / Import Transports	 Install RACE[™] SAP[®] ECC and Gateway (on page 15) Import RACE[™] SAP[®] ECC and Gateway ABAP Transports (on page 35) 	
Activate RACE™ oData, UI5, and Fiori Services	Activate RACE™ OData Service (on page 29)	
	Activate UI5 Service (on page 31)	
	Activate FIORI Service (on page 33)	
Install mWorkOrder SAP ECC, Gateway and UI5 Add-ons/ Import Transports	 Install mWorkOrder SAP® ECC, Gate- way, and UI5 (on page 48) Import mWorkOrder SAP® ECC, Gate- way and UI5 Transports (on page 65) 	
Activate mWorkOrder oData, Gateway UI5 and Fiori Services	Activate mWorkOrder OData Service <i>(on page 60)</i>	
	Activate Gateway UI5 Service (on page 62)	
	Activate Gateway FIORI Service <i>(on page 63)</i>	
Check Schema Indicator	Check Schema Change Indicator <i>(on page</i> 75)	
Clean Gateway Cache	Clean SAP Gateway Cache (on page 77)	
Configure SAP Gateway for mWorkOrder	Configure SAP Gateway for mWorkOrder <i>(on page 81)</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 100)</i>	

|1 - Upgrade mWorkOrder

Table 1-2 References (continued)

Task	Reference to section
Prepare & Update Resource File	Update Resource File <i>(on page 125)</i>
Download and Install App	Download App and Install (on page 132)

2. Back up/Save RACE™ table configurations

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

Repeat the download process for each table and store:

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

3. Install RACE[™] SAP[®] ECC and Gateway

Add-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
SP49	EZY0021310268 0000144.PAT	Innov RACE 2502.3 ECC Objects	Dependency
SP50	EZY0021310268 0000151.PAT	Innov RACE 2503.3 ECC Objects	Dependency
SP51	EZY0021310268 0000153.PAT	Innov RACE 2504.01 ECC Objects	Dependency

Table 3-1 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

Туре	Add-On	Description	Dependency
SP59	NZY0021310268 0000149.PAT	RACE 2208 SP02 UI5 (HF26 - HF35)	Dependency
SP60	NZY0021310268 0000150.PAT	RACE 2208 SP02 Fiori (HF26 - HF35)	Dependency
SP61	NZY0021310268 0000152.PAT	RACE 2208 SP02 HF36 GW Objects	Dependency
SP62	NZY0021310268 0000154.PAT	RACE 2208 SP02 UI5 (HF03 - HF35)	Dependency
SP63	NZY0021310268 0000155.PAT	RACE 2208 SP02 Fiori (HF00 - HF35)	Dependency
SP74	NZY0021310268 0000179.PAT	RACE 2208 SP02 GW Addon (HF36 - HF46)	Dependency
SP75	NZY0021310268 0000182.PAT	RACE 2208 SP02 Fiori (HF36 - HF46)	Dependency
SP76	NZY0021310268 0000183.PAT	RACE 2208 SP02 HF47 GW Objects	Dependency
SP77	NZY0021310268 0000184.PAT	RACE 2208 SP02 HF48 GW Objects	Dependency
SP78	NZY0021310268 0000186.PAT	RACE 2208 SP02 HF49 GW Objects	Dependency
SP79	NZY0021310268 0000191.PAT	RACE 2208 SP02 HF50 GW Objects	Dependency
SP80	NZY0021310268 0000194.PAT	RACE 2208 SP02 2501.1 GW Objects	Dependency
SP81	NZY0021310268 0000195.PAT	RACE 2208 SP02 2501.1 Fiori Objects	Dependency
SP82	NZY0021310268 0000197.PAT	RACE 2208 SP02 2501.2 Fiori Objects	Dependency

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

Туре	Add-On	Description	Dependency
SP83	NZYO021310268 0000200.PAT	RACE 2208 SP02 2501.3 GW Objects	Dependency
SP84	NZY0021310268 0000202.PAT	RACE 2208 SP02 2501.4 GW Objects	Dependency
SP85	NZY0021310268 0000215.PAT	RACE 2208 SP02 2503.3 GW Objects	Dependency
SP86	NZY0021310268 0000218.PAT	RACE 2208 SP02 2504.01 GW Objects	Dependency

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

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

Install the add-ons and support packs at one go using the steps given below. However, if you have already installed add-ons and now you want to install the support packs (hotfixes), follow the procedure detailed in Support packs installation procedure *(on page 24)*.

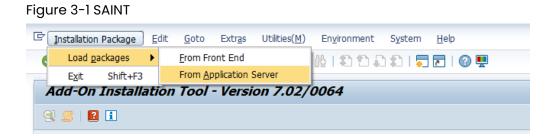
To install RACE[™] SAP[®] ECC and Gateway add-ons:

- 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.

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 3-2 SAINT: Upload Packages

SAINT: Uploading Packages from the File System							
3 🛱 🛆 🖄 🕼	Choose	Saving					
	Package				Message Tex		
NGA0020732638_0000028.PAT	SAPK-N650	OININVCEC	000	0000	Uploaded su	ccessfully	

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

Add-ons and I Add-on/PCS	Preconfigured Release		nstalled in the system Description	Import
PI BASIS	740		Basis Plug-In	
SAP_ABA	740	0008		00
SAP_BASIS	740		SAP Basis Component	
SAP BW	740		SAP Business Warehouse	00
SAP_GWFND	740	0012	SAP Gateway Foundation 7.40	00
SAP_UI	740	0009	User Interface Technology 7.40	OC
ST-PI	740	0000	SAP Solution Tools Plug-In	00
			 11 	4 F
Status/Remarks		u the inst	alled Add-ons and Preconfigured systems	
-			ation or an upgrade	

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

		ool - Version 7.40/0061	
S 🛛 🖉 🗄			
	Add-on	Installation Tool: Add-on selection	
B 🛛 🖻	Stack Config	uration 🗔 Stack XML File	
Installable Add	on packages for y	our system	
Add-On	Release	Description	Package type
INVCEC	NGW_605	INVCEC NGW_605: Add-On Installation	Installation
J			4.1
			1 1
tatus/Remarks			
~	or several packag	es from the installable Add-on packages	
 Select one 		the calculation of the installation queue	
		the calculation of the installation queue	
- Choose [CO	-	all a second second data and the disk of the second	
- Choose [CO - Choose [BA	CK] to go back to	the overview of the installed Add-ons	
- Choose [CO - Choose [BA	CK] to go back to	the overview of the installed Add-ons mal packages from the application server	
- Choose [CO - Choose [BA	CK] to go back to		
- Choose [CO - Choose [BA	CK] to go back to		

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	tion Tool - Versi	on 7.40/0061		
1 🔟 🛯				
Inst	allation of several	Add-ons : Calcula	ted queue	
Installation queue	Software Components			
OCS packages for imp	ort			
OCS Package	Package type	Software Compo	Release	Short descrip
SAPK-N65COININVCEC	Installation	INVCEC	NGW_605	INVCEC NGW
	↓ ► ::::			{ }
Status/Remarks				
A	ages must be imported w	hen installing the Add	on	
•	ed any further Support P			
	to add Modification Adju	-	the queue	
- Choose [BACK] to g	o back to the Support Pa	ckage selection	·	
		-		

Figure 3-5 Add-on Queue

11. Click **No**, when asked to add Modification Adjustment Transports to the queue.

- 12. Click the Import 🗹 icon.
- 13. Click Finish.

3.1.1. Verify SAP[®] ECC RACE[™] Add-On

To verify the SAP[®] ECC RACE[™] add-on:

- | 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
Function Module
Function Module
ब्दि Display 🖉 Change 🗋 Create

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

	ion Builder: Initial Screen		
· / •	📱 🕂 🚺 📅 🔲 🙌 Reassign		
(~		
	C Repository Info System: Function Mo	odules Find (22 Hits)	
nction [
	Function group	Function group short text	
C	Function Module Name	Short text for function module	
		Extensions	
	/INVMGO/BAPI_ATTACHMENTS_LIST		
	/INVMGO/BAPI_ATTACH_DOWNLOAD		
	/INVMGO/BAPI_DYNAMIC_DROPDOWN		
	/INVMGO/EXTENSION_STRING_FM	Preparing Extension String.	
		Custom drop down	
	/INVMGO/FM_DYNAMICGET_FM_CALL		
	/INVMGO/FM_DYNAMICPOST_FM_CALL		
	/INVMGO/FM_DYNAMIC_MODULE_ADD		
	/INVMGO/FM_FIELDS_PROCESS	Processing fields and store in final internal table	
	/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		
	/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	
	< >		4 1

Figure 3-7 Function Module Classes

3.1.2. Verify SAP® GW RACE™ Add-On

To verify the SAP[®] GW RACE[™] Add-On:

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

Figure 3-8 Object Classes

bject 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[™] SAP[®] ECC and Gateway Support packs

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

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

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

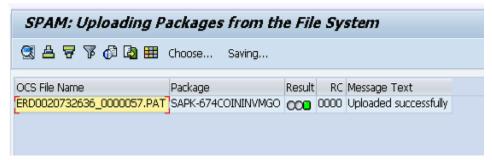
Figure	3-9	SAINT
--------	-----	-------

¢	Support Package	<u>E</u> dit <u>G</u> oto E	Extr <u>a</u> s <u>U</u> tilities	Engironment	System	Нер
(Load packages	•	Erom Front	End	1.0 20	🛒 🔽 🕜 📑
	Import SPAM/SA)	From Applic	From Application Server			
	Import gueue	Shift+F7	- Version	7.40/0061	_	
l l	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 Pack	age Edit Goto Extras Utilities Engironment System Help
Ø	▼ 4 🔲 🕸 🚱 😫 🗎 🏙 👑 25 竹 凸 25 🥁 🚱 🖷
Support P	Package Manager - Version 7.40/0054
🔒 🕄 🗟 🖉	1991 🖬
Queue	Display/define

Figure 3-11 Support Package Manager

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

Figure 3-12 Component Selection

Stack	XML file 🔺		
CompID	Release	Short Description of Component	Support Package type
ECC-DIMP	600	DIMP	Add-on Support Pkg.
<u>ERECRUIT</u>	600	E-Recruiting	Add-on Support Pkg.
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.

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

Figure 3-13 Confirm Queue

E Define Queue for the Add-On INVMGO rel. ECC_603								
Choose the highest S	Choose the highest Support Package you want or confirm the queue							
Package ID	CompID	Release	Short Description					
Fackage ID	compip	Release	Shore Description					
SAPK-E6302ININVMG0	INVMGO	ECC_603	INVNGO ECC_603: SP 2					
▲ ▶		4 4		< >				
				✔₽₽₽₩×				

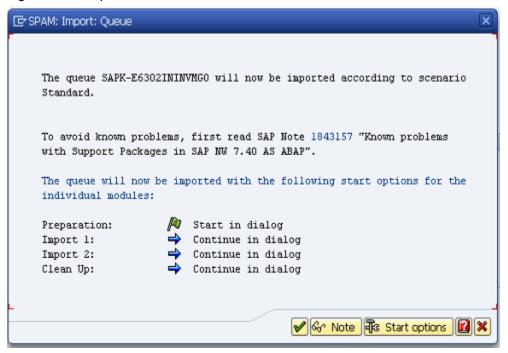
- 8. Click **No**, when asked to add Modification Adjustment Transports to the queue.
- 9. Go to **Support package** in the menu bar and click **Import Queue**.

C	Support Package	Edit <u>G</u> oto	Extras	Utilities	Engironment	System	Help	
(Load packages	•	C 📀	😧 🗅	日日日	0.02	ж 🧖	1 🕜 🖪
_	Import SPAM/SAI	NT Update						
	Import gueue	Shift+F7	- Ve	rsion 7.	.40/0054			
6	<u>C</u> onfirm	Shift+F6						
	Exit	Shift+F3						
				Status	Display/define			
	Directory	~			is defined for t	ha		
	New Support Packag Aborted Support Packag			-	is defined for t re Component:			
	Imported Support Pa	_		SPAM s		000		
(All Support Packages			Next ac		Import que	ue	
	ଟିଙ୍ Display			ଝେ ।	Package level)		

Figure 3-14 Import Queue

10. Click $\boxed{\checkmark}$ 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.

¢	Support Package E	dit <u>G</u> oto Ex	tr <u>a</u> s !	Utilities Environment System Help
(Load packages	•	C 🙆	💀 🗋
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	Import gueue	Shift+F7	- Ver	rsion 7.40/0054
Ģ	Confirm	Shift+F6		
	E <u>x</u> it	Shift+F3		
Qu	Jeue SAPI	K-E630		10 Display/define
	Virectory			Status
	New Support Package	s		Queue imported for the
0	Aborted Support Pack	ages		Software Component: INVMGO
0	Imported Support Packages			SPAM status:
	All Support Packages			Next action: Confirm queue
	ବିଟଂ Display			🔗 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

Activate and Maintain Services									
alı		🗟 Add Service 🛅 Delete Service 📓 Service Details 👰	Lond Methodata		och Cat	alog 💐 OAuth 🔌	Coft State		
		EQ Add Service Delete Service Service Details 2			esir cau		SUIL STALE		
Ser	vice 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/	<				
BEP	ZPAGE BUILDER PERS	1 Pagebuilder - Personalization level	PAGE BUILDER PERS	/UI2/	<				
BEP	ZPAGEBUILDER SERVICE V 0 1	 Gateway Data Provider: Pagebuilder v0.1 (DB) 	PAGEBUILDER SERVICE V 0 1	/UI2/	<				
BEP	ZPP PRODOPS CONFIRM SRV	1 Confirm Production Order Operation	PP PRODOPS CONFIRM SRV		✓				
BEP	ZQUICKVIEW	1 Quickview Service	QUICKVIEW	/UI2/	✓				
BEP	/INVCEC/RACE_SRV	1 Global Extensions	RACE_SRV	/INVCEC/	Image: A transmission of the second secon				
BEP	ZRMTSAMPLEFLIGHT	1 OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT	/IWFND/	✓				
BEP	ZRMTSAMPLEFLIGHT 2	1 OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT 2	/IWBEP/	V				
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 SCEN RO SRV		V				
BEP	ZSAMPLE EPM EMPLOYEE LIST	1 Sample employee list service based on EPM	SAMPLE EPM EMPLOYEE LIST	/UI2/	<				
BEP	ZSAMPLE EPM POWL CACHED	1 Sample POWL for APPLID EPM_POWL (customizin	SAMPLE EPM POWL CACHED	/UI2/	Image: A state of the state				
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BEP	ZSAMPLE POWL SFLIGHT ALL	1 Sample flight service based on POWL framework	SAMPLE POWL SFLIGHT ALL	/UI2/	1				
10	F Node 🖌 💽 Call Browser 🕮 SAP Gateway	Client	Add System Alias Remove Syst	em Alias	omizina	Service Impler	nentation		
				0 0000	omaing	1 10 Service Impler	in the doin		
A	ctivate		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	ivate and Maintain Services								
	E Catalog	C Ad	d Service) 📅 Delete Service) 🔯 Service Details 🛛	Load Me	tadata 🛛 🔡 Error Log 🗍 🌆 Request St	atistics Refr	esh Cat	alog 🕅 OAuth 🔌	Soft State
	Technical Service Name	• 17	Service Description	Dutama	Service Name	Namespace	OAut	Soft State Status	Is SAP Service
BEP	ZPAGEBUILDER SERVICE V 0 1		Gateway Data Provider: Pagebuilder v0.1 (DB)		ILDER SERVICE V 0 1	/UI2/	VAUL.	SUIT STATE STATUS	IS SAP Service
BEP	ZPP PRODOPS CONFIRM SRV		Confirm Production Order Operation		DOPS CONFIRM SRV	1012/	V		
BEP	ZOUICKVIEW		Oujckview Service	OUICKV		/UI2/	 		
EP	/INVCEC/RACE SRV	1	Global Extensions	RACE S	RV	/INVCEC/	 Image: Construction Image: Construction<		
BEP	ZRMTSAMPLEFLIGHT		OData Channel - Reference SFlight Data Provider		PLEFLIGHT	/IWFND/	▼		
EP	ZRMTSAMPLEFLIGHT 2	1	OData Channel - Reference SFlight Data Provider	RMTSAN	IPLEFLIGHT 2	/IWBEP/			
EP	RSAO ODATA SRV	1	Tlogo and Bookmark access via Odata	RSAO C	DATA SRV		V	Not Supported	
EP	S EPM SADL GW DEV SCEN RO SRV	1	EPM: SADL-based GW-Service 'NW 2013 Dev. Sce.	S EPM	SADL GW DEV SCEN RO SRV				
EP	ZSAMPLE EPM EMPLOYEE LIST	1	Sample employee list service based on EPM	SAMPLE	EPM EMPLOYEE LIST	/UI2/	✓		
BEP	ZSAMPLE EPM POWL CACHED	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CACHED	/UI2/	•		
EP	ZSAMPLE EPM POWL CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE	EPM POWL CODED	/UI2/	~		
BEP	ZSAMPLE EPM POWL CUST	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CUST	/UI2/	-		
BEP	ZSAMPLE POWL SFLIGHT ALL	1	Sample flight service based on POWL framework	SAMPLE	POWL SFLIGHT ALL	/UI2/	~		
BEP	SEPM HANA EXT PAL ODATA SRV	1	SEPM_HANA_EXT_PAL_ODATA	SEPM H	ANA EXT PAL ODATA SRV		V	Not Supported	
BEP	ZSM_CATALOG_SRV	1	Social Media Remote Catalog OData Service	SM CAT	ALOG_SRV		-		
/ ICF	Node 🖌 💽 Call Browser 🖳 SAP Gateway	Client			Add System Alias Remove Syst	em Alias 🚱 Cust	omizing	Service Impler	nentation
ICF	Nodes				System Aliases				
Statu	s 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[™] SAP[®] ECC and Gateway
 - 7. Click New Entries.

Figure 3-19 New Entries for System Alias

7 <u>T</u> able View <u>E</u> dit <u>G</u> oto <u>S</u> elec	tion <u>U</u> tilities S <u>y</u> stem	Help			
Ø 🔹 🗸 🛛	😋 🚱 🚷 📮 🛗 i	BI\$P\$P\$P\$P	🕱 🗾 😵 📭		
Change View "Assign SAI	P System Aliases	to OData Ser	vice": Overview		
🦻 New Entries 🐚 🔒 🖒 📑 📑	L 🖪				
Assign SAP SNew Entries (F5) Jata Se	ervice				
Service Doc. Identifier	User Role	Host Name SA	P 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

<u>T</u> able View <u>E</u> dit <u>G</u> oto	Selection <u>U</u> tilities	S <u>v</u> stem <u>H</u> elp						
· ·	« 🔚 🗞 🚷 民	🖴 (i) (i) 🕄	1991 20	0 🖳				
Change View "Assign	SAP System A	liases to OD	ata Service": Ov	verview				
🔌 New Entries 🗈 🗟 📼	R R R							
Assign SAP System Aliases to Ol	oata 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.

☞ <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> li	ent S <u>v</u> stem <u>H</u> elp	
 * • 	1 I 🗞 🚯 😪 I 🖨 M M I 1	L L L L I
Maintain service		
Create Host/Service 🤌 📅 🛃 🛙	🛯 🖨 External Aliases 🛛 🏷	Respective and the second seco
Filter Details Virtual Host ServiceName PACE_2208_UT Description Lang. English Virtuelle Hosts / Services Virtuelle Hosts / Services	Rename Service Activate Service Deactivate Service Iest Service Iest Load Balancing References to Service Obj. Directory Entry Qut Copy Paste	GED NOT T S) } RUNTIME APUIS Applc
	< >	

Figure 3-21 Activate RACE BSP Service

- 3. Click **Yes**.
- 4. Go to /default_host/sap/bc/ui5_ui5/ invcec/race_2208_ui5.

도 Service/Host Edit Goto G			
⊘		1 1 1 1 1 1 7 7 1 0 1	
Create Host/Service 😚 📅 🔁	🚺 🖨 External Aliases 🛛 🏷	Ne System Monitor Active	
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▼ ♥ invcec	Paste	APUIS Applic	
• 🕑 race 2208	RACE UIS Application 2208	,	
	4 F		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**.

	System	<u>H</u> elp : -⊇ //i //i /1 12 12 12 12 13	
Maintain service			
Apply Reset Virtuele Hosts / Services Virtuele Graut_host © Sap © Dc © Dc © Dsp	Service	New Sub-Element Display Service Delete Service Rename Service Activate Service Deactivate Service Deactivate Service Dest Load Balancing References to Service Obj. Directory Entry Qut Copy Paste	Referenz Service
• 🕅 race_2208_fiori	RACE Fion	Paste 2200 Application plication Handler SAPUI5 Applic.	
	4 F		

- 3. Click Yes.
- 4. Go to /default_host/sap/bc/ui5_ui5/invcec/race_2208_fiori.

년 Service/Host Edit Goto Client System Help							
🔮 🔍 👻 🤤	I I 🗟 🚱 I 🖨 🕅 🚯 I 🎗	1 1 1 1 2 2					
Maintain service							
Create Host/Service 😚 📅 🛃 🗓	📄 🔿 External Aliases 🛛 🚺 🎇 🖡	System Monitor Active 🛛 📴					
Filter Details							
Virtual Host	Service Path						
ServiceName RACE_2208_FI	New Sub-Element						
Description	Display Service						
Lang. English	Delete Service						
P Apply Reset	Rename Service						
	Activate Service	l					
	Deactivate Service						
Virtuelle Hosts / Services	Test Service	Referenz Service					
 C default_host 	Test Load Balancing						
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▼ ⑨ bsp	Obj. Directory Entry) RUNTIME					
Invcec	Cut						
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	Paste						
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	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[™] SAP[®] ECC and Gateway ABAP Transports

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

Note:

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

Table 3-3 RACE™ SAP® ECC Transports

Transport	Description	Dependency
ERDK913573	Innov RACE 2208 SP02 ECC Objects	None

Table 3-4 RACE™ Gateway Transports

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

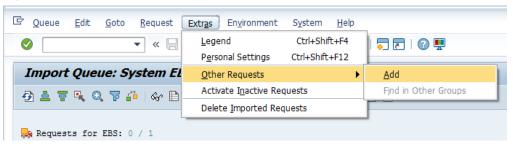
3.6.1. Import Transports

Import transports in the order of dependency.

To 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[™] SAP[®] 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
Ð≜₹ҚQ;	7 ∔ 🗞 🖹 🗐 🔜 🔝 🖴 🛼 🛼 🛫 🖉 🖉 🖺 🛽
💂 Requests for EH	17: 0 / 82
🖻 Add Transport Req	uest 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 3-2	7 Import	Queue
------------	----------	-------

•					
Impor	t Queue: Sj	yste	m EH7		
0 ± 1	R Q 7 (<mark>"</mark> ⊒ 6	ir 🖹 🔳 🛤 🛤		
	sts for EH7: (st ERDK901948) / 1		01.08.2016 14:2	27:35
Number	Request	RC	Owner	Short Text	St
83	ERDK901948		E5000103		Г <u>і</u>

- 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	
🕹 🚔 🏹 🔍 🖓 🍰 🗞 🗎 🗐 🔜 🛛) 🖴 🛼 🖳 🚍 😰 😰 🔳
Requests for EH7: 0 / 1	Import Transport Request INNOV:MWL:4.1.0:ECC objects Target System EH7 System EH7 System EH7 Target Client B00 Targ.Client=Source Client Date Execution Options Import Options Verwrite Originals Overwrite Objects in Unconfirmed Repairs Ignore Non-Permitted Transport Type 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

📅 Reque:	st ERDK901948				
Number	Request	RC	Owner	Short Text	St
13	ERDK901948		E5000131	Innov:mWorklist:Global Transport for ECC	ц,

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
Function Module
😚 Display 🖉 Change 🗋 Create

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

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

<i>)</i> * \$	🖳 📫 🔝 📅 🗔 🕪 Reassign		
ction	🔄 Repository Info System: Function	Modules Find (22 Hits)	
LUOIT			
	Function group	Function group short text	
[Function Module Name	Short text for function module	
	(THERE OF THE TONG TO	Extensions	
	/INVMGO/EXTENSIONS_FG		
	/INVMGO/BAPI_ATTACHMENTS_LIST		
	/INVMGO/BAPI_ATTACH_DOWNLOAD		
	/INVMGO/BAPI_DYNAMIC_DROPDOWN		
	/INVMGO/EXTENSION_STRING_FM	Preparing Extension String. Custom drop down	
	/INVMGO/FM_CUSTOM_DROPDOWN		
		Get the transform orders list	
		I Get the transform orders list	
		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_VALUE		
	/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 FORMA		
	/INVMGO/FM GET DECIMAL FORMAT		
	······		

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

G 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

3.6.4. 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.

alı	🛓 🕇 🖍 🟠 💽 🗸 🖽 🗸 🔽 Fiter	🔁 Add Service 🕅 Delete Service 🔀 Service Details 🖗		tatistics	och Cat	alog 🔯 Qauth 🔯	Coft Ctote
			Error Log Metadata	Causuus 2 Keii	esir cau		SUIL SLAL
Sei V Type	Technical Service Name	V Service Description	External Service Name	Namespace	OAut	Soft State Status	Te CAD C
BEP	ZPAGE BUILDER CUST	1 Pagebuilder - Customizing level	PAGE BUILDER CUST	/UI2/	V	, Sore State Status	15 JAP 3
BEP	ZPAGE BUILDER PERS	1 Pagebuilder - Personalization level	PAGE BUILDER PERS	/UI2/	 Image: Construction Image: Construction<		
BEP	ZPAGEBUILDER SERVICE V 0 1	1 Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBUILDER SERVICE V 0 1	/UI2/			
BEP	ZPP PRODOPS CONFIRM SRV	1 Confirm Production Order Operation	PP PRODOPS CONFIRM SRV		<		
BEP	ZQUICKVIEW	1 Quickview Service	QUICKVIEW	/UI2/	<		
BEP	/INVCEC/RACE_SRV	1 Global Extensions	RACE SRV	/INVCEC/			
BEP	ZRMTSAMPLEFLIGHT	1 OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT	/IWFND/	v		
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 SCEN RO SRV		v		
BEP	ZSAMPLE EPM EMPLOYEE LIST	1 Sample employee list service based on EPM	SAMPLE EPM EMPLOYEE LIST	/UI2/	•		
BEP	ZSAMPLE EPM POWL CACHED	1 Sample POWL for APPLID EPM_POWL (customizin,	SAMPLE EPM POWL CACHED	/UI2/	✓		
BEP	ZSAMPLE EPM POWL CODED	1 Sample POWL for APPLID EPM_POWL (ABAP code	SAMPLE EPM POWL CODED	/UI2/	<		
BEP	ZSAMPLE EPM POWL CUST	1 Sample POWL for APPLID EPM_POWL (customizin,	SAMPLE EPM POWL CUST	/UI2/	<		
BEP	ZSAMPLE POWL SFLIGHT ALL	1 Sample flight service based on POWL framework	SAMPLE POWL SFLIGHT ALL	/UI2/	v		

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

		Eo Ad	d Service 📅 Delete Service 🔯 Service Details 🔮	Load Me	tadata 🛛 😃 Error Log 🛛 🔚 Request Sta	tistics Refi	resh Cat	alog 🔌 OAuth 🔌	Soft State
Ser\	vice 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/	v		
BEP	ZPP PRODOPS CONFIRM SRV	1	Confirm Production Order Operation	PP PRO	DOPS CONFIRM SRV		v		
EP	ZQUICKVIEW	1	Quickview Service	QUICKV	IEW	/UI2/	-		
BEP	/INVCEC/RACE_SRV	1	Global Extensions	RACE S	RV	/INVCEC/	v		
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider	RMTSAI	1PLEFLIGHT	/IWFND/	v		
BEP	ZRMTSAMPLEFLIGHT_2	1	OData Channel - Reference SFlight Data Provider	RMTSAM	1PLEFLIGHT 2	/IWBEP/	-		
BEP	RSAO ODATA SRV	1	Tlogo and Bookmark access via Odata	RSAO (DATA SRV		v	Not Supported	
BEP	S EPM SADL GW DEV SCEN RO SRV	1	EPM: SADL-based GW-Service 'NW 2013 Dev. Sce	S EPM	SADL GW DEV SCEN RO SRV		-		
BEP	ZSAMPLE EPM EMPLOYEE LIST	1	Sample employee list service based on EPM	SAMPLE	EPM EMPLOYEE LIST	/UI2/	v		
BEP	ZSAMPLE EPM POWL CACHED	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CACHED	/UI2/	-		
EP	ZSAMPLE EPM POWL CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE	EPM POWL CODED	/UI2/	~		
BEP	ZSAMPLE EPM POWL CUST	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CUST	/UI2/	 Image: A start of the start of		
BEP	ZSAMPLE POWL SFLIGHT ALL	1	Sample flight service based on POWL framework	SAMPLE	POWL SFLIGHT ALL	/UI2/	~		
BEP	SEPM HANA EXT PAL ODATA SRV	1	SEPM_HANA_EXT_PAL_ODATA	SEPM H	ANA EXT PAL ODATA SRV		 Image: A start of the start of	Not Supported	
BEP	ZSM_CATALOG_SRV	1	Social Media Remote Catalog OData Service	SM CAT	ALOG SRV		~		
/ IC	Node 🖌 🐼 Call Browser 🖳 SAP Gateway	Client			Add System Alias Remove Syste	m Alias 🚱 Cust	omizing	Service Implen	nentation
	Nodes	Gioric	1		System Aliases		orniary	In the borned angles	in the test of tes

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

- | 3 Install RACE[™] SAP[®] ECC and Gateway
 - 7. Click New Entries.

Figure 3-35 New Entries for System Alias

로 Table View Edit Goto Selecti	on <u>U</u> tilities S <u>v</u> stern	Help			
Ø 🔹 🖌 🖌	😋 🚱 🚷 I 🖴 🕅 I	8 8 10 0 5	🗅 🕱 🗾 🕜 🖪		
Change View "Assign SAP	System Aliases	to OData Se	rvice": Overview		
🎾 New Entries 🐚 📑 🖒 📑 🖷	B				
Assign SAP SNew Entries (F5) ata Ser	vice				
Service Doc. Identifier	User Role	Host Name	SAP System Alias	Default System	n 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

<u>T</u> able View <u>E</u> dit <u>G</u> oto	Selection Utilities	S <u>v</u> stem <u>H</u> elp						
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Change View "Assign	n SAP System A	liases to OD	ata Service": O	verview				
🌶 New Entries 🗈 🗟 🔊								
Assign SAP System Aliases to OI	Data 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	

3.6.5. 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.

☞ <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> li	ent S <u>v</u> stem <u>H</u> elp	
 • • • 	i M M 🔒 i 🗩 🔕 😡 i E	월 월 월 월 I 🧮 🛃 I 🕜 🖳
Maintain service		
Create Host/Service 😚 📅 🛃 🗄	🛯 🖨 External Aliases 🛛 🏹	System Monitor Active 📲
Filter Details Virtual Host ServiceName PACE_2206_UI Description Lang. English Image: Services Virtuelle Hosts / Services Image: Services <t< th=""><th>Rename Service Activate Service Deactivate Service Iest Service Iest Load Balancing References to Service Obj. Directory Entry Cut Copy Paste</th><th>GED NOT T 5)) RUNTIME APUIS Applc</th></t<>	Rename Service Activate Service Deactivate Service Iest Service Iest Load Balancing References to Service Obj. Directory Entry Cut Copy Paste	GED NOT T 5)) RUNTIME APUIS Applc
	4 b	

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		I \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Maintain service	፤ 🔿 External Aliases 🔲 🏷	🖇 🏴 System Monitor Active 🛛 🏗
Filter Details Virtual Host ServiceName RACE_2208_ Description Lang. English V Apply	Service Path New Sub-Element Display Service Delete Service Rename Service	
Virtuelle Hosts / Services Virtuelle Hosts / Services Sap Sap Sap Sap Sap Sap Sap Sap	Activate Service Deactivate Service Test Service Test Load Balancing References to Service Obj. Directory Entry Cut Copy Paste	Referenz Service LIGED NOT T PNS) SP) RUNTIME IAPUIS Applic
	Paste	

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.

ngare e ee neurae	0 10/10		
☞ <u>S</u> ervice/Host <u>E</u> dit <u>G</u> oto <u>C</u> lien	t Syster	n <u>H</u> elp	
🖉 🔍 👻 🧧	🜏 🚫	212 n n 1 1 1 1 1 2 2	
Maintain service			
Create Host/Service 🔌 📅 🔁 🚺	📫 Externa	al Aliases 🛛 🏹 🏓 System Mo	nitor Active 📲
Filter Details		New Sub-Element	
Virtual Host	Service	Display Service	
ServiceName RACE_2208_FI0	RI	Delete Service	
Description		Rename Service	
Lang. English	 Ref.Sen 		
P Apply Reset		Deactivate Service	
		Test Service	
		Test Load Balancing	
Virtuelle Hosts / Services	Docume		Referenz Service
 I default_host 	VIRTUAL	Obj. Directory Entry	
▼ [©] sap	SAP NAM		
• © bc	BASIS TH		
Solution Solution	BUSINES	= • •	
• 🔞 race_2208_fiori		Paste	
► 🕞 ui5_ui5		Application Handler SAPUIS Applic	
	4 Þ 📃		······································

Figure 3-39 Activate RACE FIORI Service

- 3. Click Yes.
- 4. Go to /default_host/sap/bc/ui5_ui5/invcec/race_2208_fiori.

년 Service/Host Edit Goto Clier	nt S <u>y</u> stem <u>H</u> elp	
🖉 🔍 🗸 🤤	😪 🚱 🖨 🖞 🖏 🎗	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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	
P Apply Reset	Rename Service	
	Activate Service	
	Deactivate Service	
Virtuelle Hosts / Services	Test Service	Referenz Service
default_host Sap	Test Load Balancing	
• 😗 sap • 🎯 bc	References to Service	ED NOT T
• 🛇 bsp	Obj. Directory Entry	, RUNTIME
► 🕅 invcec	<u>C</u> ut	
 ▼ ③ ui5_ui5 ▼ ⑤ invcec 	<u>C</u> opy	UI5 Applic
• 🕥 race_2208_fior	<u>P</u> aste	
	4 F	

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 [™] 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 [™] 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 49)*.

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 56).

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

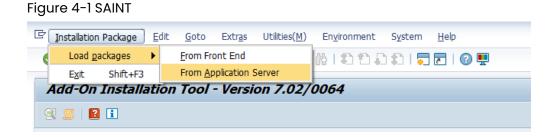
- 1. Extract the zip or .rar files that you received from Innovapptive representative and save the files to your local machine.
- 2. Upload/copy the Add-On files and Support Packs from software deployment package to the USR/SAP/TRANS/EPS/in path on SAP ECC & GW systems.

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 P	ackage	s from ti	he Fi	le Sy	rstem	
3 4 7 7 6 B 🖽 (Choose	Saving				
	Package				Message Text	
NGA0020732638_0000028.PAT	SAPK-N650	COININVCEC	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	d-ons
--------------------------	-------

Add-on/PCS Release Level Description Impor PI_BASIS 740 0008 Basis Plug-In SAP_ABA 740 0008 Cross-Application Component SAP_BASIS 740 0008 SAP Basis Component SAP_BW 740 0008 SAP Basis Component SAP_GWFND 740 0008 SAP Business Warehouse SAP_GWFND 740 0012 SAP Gateway Foundation 7.40 SAP_UI 740 0009 User Interface Technology 7.40 SAP_SOLUTION SAP Solution Tools Plug-In SAP SAP Solution Tools Plug-In SAP Solution Tools Plug-In SAP Solution Tools Plug-In SAP SAP Solution Tools Plug-In SAP Solution Tools Plug-In </th <th>00</th>	00
SAP_ABA 740 0008 Cross-Application Component SAP_BASIS 740 0008 SAP Basis Component SAP_BW 740 0008 SAP Business Warehouse SAP_GWFND 740 0012 SAP Gateway Foundation 7.40 SAP_UI 740 0009 User Interface Technology 7.40	
SAP_BASIS 740 0008 SAP Basis Component SAP_BW 740 0008 SAP Business Warehouse SAP_GWFND 740 0012 SAP Gateway Foundation 7.40 SAP_UI 740 0009 User Interface Technology 7.40	
SAP_BW 740 0008 SAP Business Warehouse SAP_GWFND 740 0012 SAP Gateway Foundation 7.40 SAP_UI 740 0009 User Interface Technology 7.40	00
SAP_UI 740 0009 User Interface Technology 7.40	00
	00
ST-PI 740 0000 SAP Solution Tools Plug-In	00
	OC
4 Þ	۲.
Status/Remarks The overview shows you the installed Add-ons and Preconfigured systems	

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

	Add-on	Installation Tool: Add-on selection	
E 7 =	Stack Config	uration 🔍 😡 Stack XML File	
Installable Add	-on packages for y	our system	
Add-On	Release	Description	Package type
INVCEC	NGW_605	INVCEC NGW_605: Add-On Installation	Installation
J			() () () () () () () () () ()
			1
tatus/Remarks			
🚹 Select one	or several packag	es from the installable Add-on packages	
- Choose [CO	NTINUE) to start f	the calculation of the installation queue	
- Choose [BAI	CK] to go back to	the overview of the installed Add-ons	
-		onal packages from the application server	

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.

Inst	allation of several	Add-ons : Calcula	ted queue	
Installation queue	Software Component	5		
OCS packages for imp	port			
OCS Package	Package type	Software Compo	Release	Short descrip
SAPK-N65COININVCEC	Installation	INVCEC	NGW_605	INVCEC NGW
				-
				4 F
	• •			
Status/Remarks				
🕦 The displayed pack	ages must be imported	when installing the Add-	on	
- You have not select	ed any further Support I	Packages		
- Choose [CONTINUE]) to add Modification Adj	ustment Transports to f	the queue	
		ackage selection		

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/*
😚 Display 🖉 Change 🗋 Create

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

Figure 4-7 Function Modules

tion Builder: Initial Screer		
🖳 🕂 🗓 📅 🗔 🚺 Reassign		
C Repository Info System: Function	Aodules Find (152 Hits)	
Function group	Function group short text	
Function Module Name	Short text for function module	
/INVMWO/FGRP_DELETE	Delete FGRP	
/INVMWO/FM_DELETE	delete objects	
/INVMWO/FG_WO_INSPECT_LOT	FG for mWorkOrder inspectionlot	
	I Function Module for Inspection Lot Number List	
/INVMWO/BAPI_INSPLOT_CODEGROU		
/INVMWO/BAPI_INSPLOT_ORIGNLIS		
/INVMWO/BAPI_INSP_CHAR_LIST	List of Inspection lot Characteristics	
	I Inspection Lot Characteristics	
/INVMWO/BAPI_INSP_LOT_CLASSES		
	1 Inspection Lot classes with upper and lower limits	
/INVMWO/BAPI_INSP_OPERATIONS		
	I Inspection Lot Record Result	
	E Insp. result-single value level	
	T Specification for the Inspection Lot	
/INVMWO/BAPI_UDCODE_LIST /INVMWO/FM ATTRIBUTE	BAPI Usage Decision Code List Inspection Lot Attribute	
/INVERO/ PR_ATTRIBUTE	The section for 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 F		

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.

1	🖳 🚭 🗓 📅 🗊 🚺 🚺 Class Bro	wser	
	E Repository Info System: Class/Inte	arface Find (200 Hits)	×
ct typ			
_	Object Type Name	Short Description	
D			
	/INVMWO/CL_MWORKORDER_DPC	Data Provider Base Class	
	/INVMWO/CL_MWORKORDER_DPC_EX	_	
	/INVMWO/CL_MWORKORDER_MPC	/INVMWO/CL_MWORKORDER_MPC	
	/INVMWO/CL_MWORKORDER_MPC_EX		
	/INVMWO/IF_BAPI_ACTIVITY_TYP		
	/INVMWO/IF_BAPI_ACTIVITY_TYP		
	/INVMWO/IF_BAPI_APPLABEL_GET		
	/INVMWO/IF_BAPI_APPLABEL_GET		
	/INVMWO/IF_BAPI_ATTACH_DOWNL		
		OA /INVMWO/IF_BAPI_ATTACH_DOWNLOA	
	/INVMWO/IF_BAPI_ATTACHMENT_C		
		RE /INVMWO/IF_BAPI_ATTACHMENT_CRE	
		1 /INVMWO/IF_BAPI_ATTACHMENT_D1	
	/INVEWO/IF_BAPI_ATTACHMENT_D	EL /INVMWO/IF_BAPI_ATTACHMENT_DEL	
		1 /INVMWO/IF_BAPI_ATTACHMENTS_1 LI /INVMWO/IF BAPI ATTACHMENTS LI	
	/INVMWO/IF BAPI CALCU KEY LI		
		ST /INVMWO/IF BAPI CALCU KEY LIST	
	/INVMWO/IF BAPI CHAR UNIT	/INVMWO/IF BAPI CHAR UNIT	
	/INVMWO/IF BAPI CHAR UNIT1	/INVMWO/IF_BAPI CHAR_UNIT1	
	/INVMWO/IF BAPI CHARACTERIST		
		IC /INVMWO/IF BAPI CHARACTERISTIC	
		CS /INVMWO/IF BAPI CHARACTERSTICS	
		1 /INVMWO/IF BAPI CONTROLKEY L1	
		IS /INVMWO/IF_BAPI_CONTROLKEY_LIS	
			4 1

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.

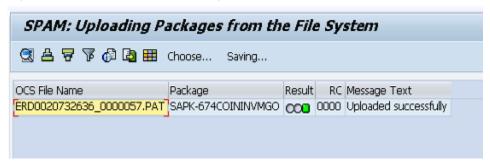
¢(Support Package	Edit	<u>G</u> oto	E	xtr <u>a</u> s	Utilities	En <u>v</u> ironment	System	Нер
6	Load packages			×	Ero	m Front E	End	1 6 2	🛒 🔁 🕜 📑
	Import SPAM/SA	UNT Upo	date		Fro	m <u>A</u> pplica	tion Server		
	Import gueue	S	hift+F7		- Vei	rsion 7	7.40/0061	_	
Ģ	Confirm	S	hift+F6						
	Exit	S	hift+F3						
					-				

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
8	- 4 🗉 🕲	0 😢 🗋 1 11 11 11 11 11 11 🐺 💭 10 📭
Support Pack	age Manager - V	ersion 7.40/0054
🔒 🕄 🗟 📓 💅		
Queue		[Display/define]

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

click 🗹.

Figure 4-13 Component Selection

🐼 🔎 🧏 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.						
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.						
				t.					

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

Figure 4-14 Confirm Queue

Er 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	INVNGO ECC_603: SP 2						
< >	44 20	a 4							

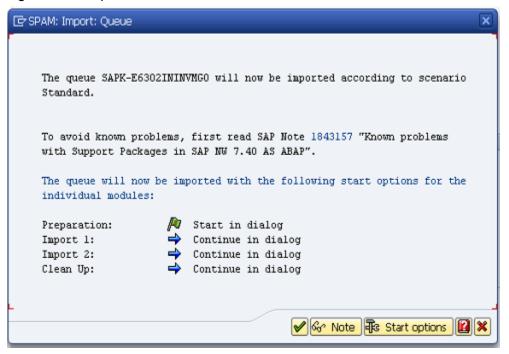
- 8. Click **No**, when asked to add Modification Adjustment Transports to the queue.
- 9. Go to **Support package** in the menu bar and click **Import Queue**.

¢	Support Package	Edit <u>G</u> oto B	Extras	Utilities	Engronment	System	Help	
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Ģ	Confirm	Shift+F6						
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	New Support Package			-	is defined for t			
	Aborted Support Pac	_		Software Component: INVMGO				
O Imported Support Packages			SPAM :		040			
	All Support Packages			Next a	ction: Package level	Import que	Pue	

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	🛒 🗾 🍞 🖪	
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(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	vice Catalog					
Туре	Technical Service Name		^v	Service Description		
BEP	/INVMSC/MSHOP SRV			/INVMSC/CL_MSHOP_DPC_EXT		
BEP	/INVMWL/MWORKLIS	T 2 SRV	1	Mobile Worklist OData services		
BEP	/INVMWO/MWORKORDER_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	<u>IF</u>	1	Pagebuilder - Configuration level		
BEP	ZPAGE BUILDER CUS	T	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		1	Global Extensions		
BEP	ZRMTSAMPLEFLIGHT		1	OData Channel - Reference SFlight Data Provider		
	Node 🗐 🙆 Call Bron	wser 🔄 🛱 SAP Gateway	Client]		
D	Deactivate Session Time-out Soft S		State	Description		
D	Delete 00:00:00			Standard Mode		
C	onfigure (SICF)					
		1				

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

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Create Host/Service 💖 📅 🔂 🚺 🖨	External Aliases 🕕 🎇 IPI Sy	stem Monitor Active
Filter Details		
Virtual Host	Service Path	
ServiceName MWO_UI5_2208		
Description	New Sub-Element	
Lang. English 💌	Display Service	
🔽 Apply 🔤 Reset	Delete Service	
	Rename Service	
	Activate Service	
Virtuelle Hosts / Services	Deactivate Service	Referenz Service
▼	Test Service	
 ♥ Sap ♥ bc 	<u>T</u> est Load Balancing	NOT T
▼ S bsp	References to Service	INTIME
 invmwo 	Obj. Directory Entry	
• 🐑 mwo_ui5_2208	<u>C</u> ut	
	Copy	Applic
	Paste	

3. Right-click the **mWorkOrder 2208 UI5** service under *default_host > sap > bc > bsp > invmo > mwo_ui5_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		
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▼ ③ ui5_ui5	SAPUIS Application Handler SAPUIS A	spplic	
▼ [©] invmwo	mWorkOrder		
 mwo_ui5_2208 	mWorkOrder 2208 UI5 Application		
	4 Þ	···	

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**.

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Filter Details				
Virtual Host	Servi	ce Path		
ServiceName MWO_FIORI_2208	_			
Description		New Sub-Element		
Lang. English	Ref.	Display Service		
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		Rename Service		
		Activate Service		
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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**.

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Apply Apply Reset Vituelle Hosts / Services	Deactivate Service Test Service Test Load Balancing Doc References to Service	Referenz Service
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	< >	

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		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 36).

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

Function Builder: Initial Screen
🖆 🥕 🐺 🔂 📅 🗔 🕪 Reassign
Function Module /INVMWO/*

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

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Le Repository find System. Punction M		
[
Function group	Function group short text	
Function Module Name	Short text for function module	
/INVMWO/FGRP DELETE	Delete FGRP	
/INVMWO/FM DELETE	delete objects	
· · · -		
/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	
		1

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.

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ct typ			
	Object Type Name	Short Description	
Di			-
	/INVMWO/CL_MWORKORDER_DPC	Data Provider Base Class	
	/INVMWO/CL_MWORKORDER_DPC_EXT	_	
	/INVMWO/CL_MWORKORDER_MPC	/INVMWO/CL_MWORKORDER_MPC	
	/INVMWO/CL_MWORKORDER_MPC_EXT		
	/INVMWO/IF_BAPI_ACTIVITY_TYP1	/INVMWO/IF_BAPI_ACTIVITY_TYP1	
	/INVMWO/IF_BAPI_ACTIVITY_TYPE		
	/INVMWO/IF_BAPI_APPLABEL_GET	/INVMWO/IF_BAPI_APPLABEL_GET	
	/INVMWO/IF_BAPI_APPLABEL_GET1		
	/INVMWO/IF_BAPI_ATTACH_DOWNL1	/INVMWO/IF_BAPI_ATTACH_DOWNL1	
		A /INVMWO/IF_BAPI_ATTACH_DOWNLOA	
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	· · ·	/INVMWO/IF_BAPI_ATTACHMENT_CRE	
		/INVMWO/IF_BAPI_ATTACHMENT_D1	
		/INVMWO/IF_BAPI_ATTACHMENT_DEL	
	/INVMWO/IF_BAPI_ATTACHMENTS_1		
		/INVMWO/IF_BAPI_ATTACHMENTS_LI	
	/INVMWO/IF_BAPI_CALCU_KEY_LI1		
		/INVMWO/IF_BAPI_CALCU_KEY_LIST	
	/INVMWO/IF_BAPI_CHAR_UNIT	/INVMWO/IF_BAPI_CHAR_UNIT	
	/INVMWO/IF_BAPI_CHAR_UNIT1	/INVMWO/IF_BAPI_CHAR_UNIT1	
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		/INVMWO/IF_BAPI_CHARACTERISTIC	
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		/INVMWO/IF_BAPI_CONTROLKEY_L1	
	/INVMWO/IF_BAPI_CONIROLKEY_LI:	/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.

Can dea Catalan							
Service Catalog							
Туре	Technical Service Nan	ne	^v	Service Description			
BEP	/INVMSC/MSHOP SRV	<u>/</u>	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 NO	DTIF 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		1	Global Extensions			
BEP	ZRMTSAMPLEFLIGHT		1	OData Channel - Reference SFlight Data Provider			
ICF Node Call Browser SAP Gateway Client							
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	ctivate						
Deactivate Session Time-out Soft S		State	Description				
D	Delete 00:00:00			Standard Mode			
C	Configure (SICF)						

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.

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Filter Details								
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ServiceName MWO_UI5_2208	New Sub-Element							
Description	Display Service							
Lang. English	Delete Service							
Apply Reset	Rename Service							
	Activate Service							
	Deactivate Service							
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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**.

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문 Service/Host Edit Goto Client System Help							
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Description	Delete Service						
	Rename Service						
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▼ [©] invmwo	mWorkOrder						
• ₪ mwo_ui5_2208	mWorkOrder 2208 UI5 Application						
	4 F	## ()					

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**.

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Filter Details									
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ServiceName MWO_FIORI_2208	_								
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	4 1								

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 for the service/Host Image: Construction of the service/Host Image: Construction of the service/Host Image: Construction of the service/Host	System Help	\$1 🜄 🖂 🕲 🖳
Maintain service Create Host/Service 🧐 🗑 🚺 🖛	🕏 External Aliases 🛛 🏷 🏴 Systen	n Monitor Active 📲
Apply Reset Image: Apply Image: Apply Virtuelle Hosts / Services Image: Apply Image: Ap	Ser Display Service Delete Service Rename Service Deactivate Service Deactivate Service Test Service Test Service Test Load Balancing Doc References to Service VIR Obj. Directory Entry BASI Gut BUSI Copy mWX Paste mWX New York Construction SAPUIS Application Handler SAPUIS App	Referenz Service
	< >	

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**.

Fig	ure 5-	1 SM3	30							
¢	<u>T</u> able	<u>E</u> dit	<u>G</u> oto	S <u>y</u> stem <u>H</u>	elp					
				▼ « 📙	🔕 🚫	👷 I 🖨 M		11111	-	🕜 🖳
	Mainta	ain Ta	able V	liews: Init	tial Sc	reen				
Ó	🖞 Find Ma	aintenar	nce Dialo	g						
	ble/View estrict Da		Ŀ	/INVCEC/SCHE	мајо]			1	
	No Rest		-							
0)Enter o	ondition	IS		_					
	Variant									
66		isplay		Maintain		Transport				

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

-		-				
도 <u>T</u> able View <u>E</u> dit	<u>G</u> oto <u>S</u> election <u>U</u> tilities	s S <u>y</u> stem <u>H</u> elp				
Ø	🔹 🚷 🔛 🛛 🖉	🗁 前 龄 む 1	D 🞝 🕄 I 🧮 🗖 I 🖉 🖳			
New Entries: Overview of Added Entries						
🦘 🗗 🖪 🖪 🗳						
Table Entries for Schem	a Change Indicator					
APP Name	Schema I	ndicator				
RACE Client	•		A			
MWORKORDER	-		•			
	-					
	-					
	-					
	-					
	_	_				

Figure 5-2 Table Entries for Schema Change Indicator

- 5. Select RACE[™] 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.

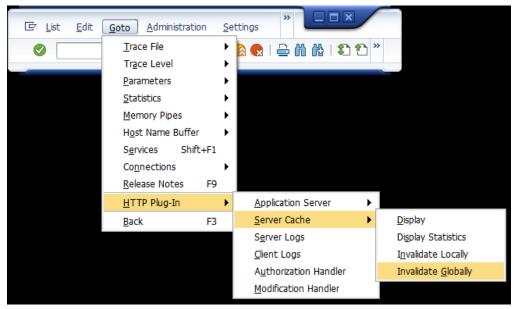


Figure 6-1 smicm transaction

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.

🕄 🛋 🚍 👘 🏠 📴 🚛 🗐 📅 Filter 🛛 🔂 Add Service 🛅 Delete Service 📓 Service Details 🛃								
Service Catalog								
Туре	Technical Service Nan	ne ,	^v	Service De	escription			
BEP	/INVMWO/MWOOPER				ler operator round	s module		
BEP	/INVMWL/MWORKLIS	T 2 SRV	1	Mobile Wo	orklist OData service	95		
BEP	/INVMWL/MWORKLIS	T 3 SRV	1	mWorklist	OData Service			
BEP	/INVMWL/MWORKLIS	T ICF SRV	1	test proje	ct			
BEP	/INVMWL/MWORKLIS	T SRV	1	/INVMWL/	CL_MWORKLIST_	OPC_EXT		
BEP	/INVMWO/MWORKOF	RDER_SRV Select	1	mWorkOrd	der OData Services	1		
BEP	/INVCEC/RACE_SRV	4	1	Global Ext	ensions			
BEP	/INVCEC/SAMPLEDAT	A SRV 01	1	Sample da	ta for lead capture)		
BEP	/INVMWL/SP12 TEST	<u>r srv</u>	1	1 SP12 Testing				
BEP	/INVMWL/TEST SP12	2 SRV	1	1 test sp12				
BEP	/INVMWL/TRANSPOR	T NGD SRV	1	1 Test Project for Transport				
BEP	/INVMWL/TRANSPOR	T NGD2 SRV	1	test2				
BEP	/INVCEC/TRANSREQU	IEST	1	Transport	Request Service			
BEP	/INVMWO/WOATTAC	CHMENTS SRV	1	WO Attac	hments			
		7						
ICF	ICF Node Call Browser SAP Gateway Client							
ICF Nodes								
Statu	IS ICF Node	Session Time-out Soft	State	Descrip	tion			
	ODATA	00:00:00		Standa	rd Mode			
	4 F	222						
	< >	424 444						



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

You should see the value 200 in green.

Figure 6-3 Validate Clean up

SAP Gatew	vay Client								
C Execute) 🔿 回 Select 🛛 📝 Mainta	in Service 🍕 Service Imp	ementation	EntitySets	Sa Add URI Option				
HTTP Method		OPATCH OMERGE O	DELETE			Reuse HTTP Connect	tion (e.g. for Soft State)		
Request URI	/sap/opu/odata/INVCEC/RA	CE_SRV/?\$format=xml						Multiple Rows	
Protocol	●HTTP ○HTTPS	Test Group		Test Case					
	👌 🖉 🔂 🔂 🚰 Add Fi	e Remove File 🖓 Data Exp	xorer 💼	S M	🚯 🖓 Response	in Browser 🔡 Error Log	🕽 🖓 HTTP Header 🖸 Use as	Request 🖓 Data Ex	plorer 💼
HTTP Re	equest			HTTP	Response - P	Processing Time	e = 196 ms		
Header Name	Value			Header Na	ame Value				
				<pre>~status_c</pre>					
				status_r	reason OK				
1			r	- <apj xmin xmin xmin xmin</apj 	p:service xml:lan hs:m="http://se hs:atom="http://se base="http://I <app:workspace <atom:title t<br="">- <app:collecti< td=""><td>chemas.microsoft. //www.w3.org/20 NNONGWTST:800 > ype="text">Data < on href="SystemII</td><td><pre>"http://www.sap.com com/ado/2007/08/da 05/Atom "xmlns:app="l 0/sap/opu/odata/INV /atom:title> Collection" sap:content:</pre></td><td>taservices/met http://www.w3 CEC/RACE_SRV version="1" sap:</td><td>adata" .org/2007/app" /"> addressable="false"</td></app:collecti<></atom:title></app:workspace 	chemas.microsoft. //www.w3.org/20 NNONGWTST:800 > ype="text">Data < on href="SystemII	<pre>"http://www.sap.com com/ado/2007/08/da 05/Atom "xmlns:app="l 0/sap/opu/odata/INV /atom:title> Collection" sap:content:</pre>	taservices/met http://www.w3 CEC/RACE_SRV version="1" sap:	adata" .org/2007/app" /"> addressable= "false "
					<atom:ti< td=""><td>tle type="text">Sy mber-title>System</td><td>ble="false" sap:updatabl stemIDCollectionID</td><td></td><td>eatable="false"></td></atom:ti<>	tle type="text">Sy mber-title>System	ble="false" sap:updatabl stemIDCollectionID		eatable ="false ">

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.

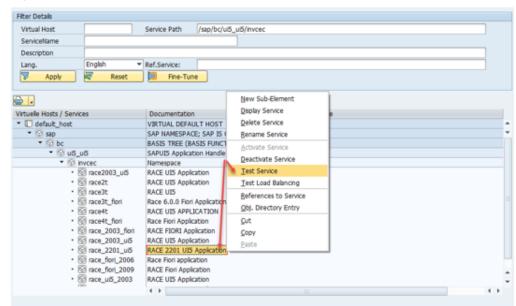


Figure 6-4 Validate Clean up

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 service		
Create Host/Service 😚 📅 🔂 🚺 🛋	External Alases 🛛 💟 🌟 🏴 Sys	tem Monitor Active
iter Details		
Virtual Host	Service Path /sap/bc/ui5_ui5/i	nvmwo
ServiceName		
Description		
Lang. English 💌	Ref.Service:	
P Apply Reset	Fine-Tune	
è .		
irtuelle Hosts / Services	Documentation	New Sub-Element
• 😰 mwo7_fiori	mWorkorder Fiori Application	Display Service
• 💇 mwo7fiori	mWorkorder Fiori application	
	Inno:UI5:4.2.1:SP01:mWorkOrde	
	mWorkorder UI5 application	Rename Service
• 🕲 mworkorder7_fri	mWorkorder Fiori Application	Activate Service
ি mworkorder7_ui5 M mworkorderfiori	mWorkorder UI5 Application mWorkOrder UI5 Fiori BSP	Deactivate Service
	INNOV:UI5:4.2.1:mWorkorder UI	Test Service
• 1 mwo_2003ui5	mWorkOrder UiS Application	Test Load Balancing
• 1 mwo_2003_ui5	mWorkOrder UI5 Application	
 mwo_fiori_2006 	mworkOrder Fiori Application	References to Service
 mwo_fiori_2009 	mWorkorder Fiori Application	Obj. Directory Entry
 mwo_flori_2201 	mWorkorder 2201 Fiori Applicatio	Gut
• 🖾 mwo_ui5_2006	mWorkOrder UI5 Application	Copy
• 🐑 mwo_ui5_2009	mWorkorder UI5 Application 🚽	Paste
 mwo_ui5_2201 	mWorkorder 2201 UI5 Application	

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						
» B B B						
Screen configuration	on 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	Ml	NO_HI	Corrective Notification	Notification History	True	
NOTIFICATION	Ml	NO_IT	Corrective Notification	Notification Items	True	
NOTIFICATION	Ml	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	Type - Work Orders
--------------------------------------	--------------------

Screen configurati	on based on Docume	ent Types			
Module Name	Document Type	Screen ID	Description	Screen Name	Offline Sync
ORKORDER	PM01	WOHIER	Hierarchy	Hierarchy	True
ORKORDER	PM01	WO_AT	Maintenance Order	Work Order Attachments	True
ORKORDER	PM01	wo_co	Maintenance Order	Work Order Components	True
ORKORDER	PM01	WO_GIS	Work Order GIS		True
ORKORDER	PM01	WO_HD	Maintenance Order	Work Order Header	True
ORKORDER	PM01	WO_HI	Maintenance Order	Work Order History	True
ORKORDER	PM01	WO_OP	Maintenance Order	Work Order Operations	True
ORKORDER	PM01	WO_PL	Maintenance Order	Work Order Planning view	True
ORKORDER	PM01	WO_SG	Work Order Form	Work Order Form	True
ORKORDER	PM02	WOHIER	Hierarchy	Hierarchy	True
ORKORDER	PM02	WO_AT	Maintenance Order	Work Order Attachments	True
ORKORDER	PM02	WO_CO	Maintenance Order	Work Order Components	True
ORKORDER	PM02	WO_HD	Maintenance Order	Work Order Header	True
ORKORDER	PM02	WO_HI	Maintenance Order	Work Order History	True
ORKORDER	PM02	WO_OP	Maintenance Order	Work Order Operations	True
ORKORDER	PM02	WO_PL	Maintenance Order	Work Order Planning View	True
ORKORDER	PM06	WOHIER	Hierarchy	Hierarchy	True
ORKORDER	PM0 6	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 Sci	reen 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 Document Type .
Description	Description of the Document Type .
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:

Figure	7 2 Fm	rachov	Decument	Tuno
rigure	7-S EILIE	ergency	Document	Type

Display Vie	w "Emergei	ncy documen	t type": Overview	
» B B B				
Emergency docur	ment type			
Module Name	User Name	Document Type	Description	
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 Tab	le Vie	ws: Init	ial Scr	een	
🛗 Find Maintenance	e Dialog				
Table/View	/IN	VMWO/MPLI	ST		
Restrict Data Range					
 No Restrictions 					
OEnter 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.

Change	View "Measur	ement Reading Lists Assignment	": Overview
💖 New Ent	rries 🗈 🖥 🗖 🚦		
Measurement	t Reading Lists Assign	iment	
Entry list	Reading take	Description	•••
116	WLTEST1		A
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

Display View "Priority Colour": Overview					
69 🗈 🛛	°≫				
Deite eite a					
Priority C	olour	1			
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	Е	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:



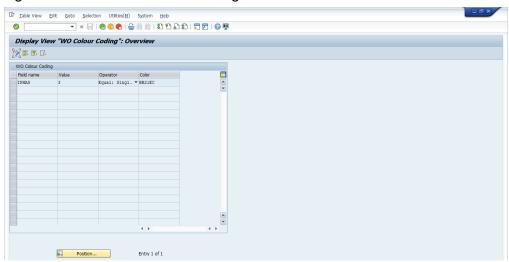


Table 7-4 Work Order Color Coding configuration attributes

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 "Do	ocument (Object	Links": Overview	
🦻 🗈 🖪				
Document Object Links				
Module Name	SAP object	Active	•••••	
EQUIPMENT	EQUI	v	A	
FUNCTIONALLOCATION	IFLOT	v	•	
WORKORDER	CRVS_B	v		
WORKORDER	EQUI	√		
WORKORDER	IFLOT	✓		
WORKORDER	IMPTT	✓		
WORKORDER	MARA	✓		

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 Ec	uipment Selectio	on Critoria
iguie / alc	alpinent selection	JI CILLENU

Equipment List			
▶ 15-			
Equipment		to	
Equipment description		to	🖻
Status	AVLB	to	
Equipment category		to	
Type of Technical Object		to	
Functional Location		to	
Main work center		to	
Created on		to	
Created by		to	
Maintenance Plant	1000	to	
Location		to	
Plant Section		to	
Work Center	MECHANIK	to	
ABC indicator		to	
Sort field		to	
Business Area		to	
Cost Center		to	
Planning plant	1000	to	
Planner group		to	
Main Asset Number		to	
Superordinate Equipment		to	

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

êr 🕄 🔁		÷ .	7 2 1 đ	s) д -	🦉 🚯	1	•	- 19			
EQUNR	EQKTX	HEQUI	HEQUI_TX	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		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	<u>-</u>
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

TPLNR	PLTXT	TPLKZ	FLTYP IWE	RK LGWID	INGRP	STTXT	FLTTX	STTXU	EXTENSION	ARBPL	LABELS	HERST
1000-100-AB-01	Production Area	A	1000		100					MECHANIK	{"entries":[{"TP_	Fgh1
1000-100-AB-02	Functional location edit	A	1000		100					MECHANIK		motors 12
1000-100-AB-03	Functional offline1	A	1000		100					MECHANIK		ABC.co
1000-100-AB-04	Suppository packing line	A	1000							MECHANIK		Moto
1000-100-BA-01	REGULATOR STATION R1000	A	1000									
1000-100-PS-41	Technical Spec	A	1000							MECHANIK		BMW
2108-AUT	Automation Servers & Hubs	A	1000		100							Automation Sen
2108-BLK	Bulk Storage	A	1000		100					ELEKTRIK		
2108-BLK-CH	Bulk Chemical Storage1	Α										Automation serv
DL-EH	Primary Substation EHALLANDALE 1	WDI01	1000									
DL-EH-01	Sub EHALLANDALE - Feeder EHALL 1	WDI01	1000									
DL-EH-01-S01	THE DIPLOMAT 1	WDI01	1000									
DL-EH-01-S02	THE DIPLOMAT 2	WDI01	1000									
DL-EH-01-S03	THE DIPLOMAT 3	WDI01	1000		I03					ITSERV		
DL-EH-01-S04	THE DIPLOMAT 4	WDI01	1000									
DL-EH-01-S05	THE DIPLOMAT 5	WDI01	1000									
DL-EH-01-S06	THE DIPLOMAT 6	WDI01	1000									
DL-EH-01-S07	THE DIPLOMAT 7	WDI01	1000									
DL-EH-01-S08	THE DIPLOMAT GOLF RESORT	WDI01	1000									
DL-EH-02	Sub EHALLANDALE - Feeder EHALL 2	WDI01	1000		100					MECHANIK		tell
DL-EH-02-P01	PS3345	WDI01	1000		100					MECHANIK		
DL-EH-02-P02	PS3346	WDI01	1000		100					MECHANIK		
DL-EH-02-P03	PS3347	WDI01	1000		100					MECHANIK		
DL-EH-02-P04	PS3348	WDI01	1000		100					MECHANIK		
DL-EH-02-P05	PS3349	WDI01	1000		100					MECHANIK		



Update the tables with background scheduled jobs regularly.

 Configure these filters in RACE[™], 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:

Table 7-6	Staging	Configuration

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[™] for mWorkOrder

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

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

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

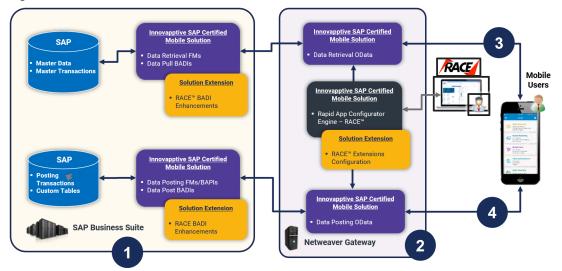


Figure 8-1 RACE™ Architecture

Deployment ecosystem consists of the following:

- SAP ECC Integration Component (SAP Certified Add-On in Innovapptive Namespace): This SAP-certified add-on is developed on ABAP. You can deploy this add-on on SAP ECC through an Add-On Package. You can make enhancements to this through BADI by developing those enhancements in ABAP. This add-on helps you manage Data retrieval and do posting to BAPI's or Function Modules.
- 2. SAP NetWeaver Integration Component with OData Web Services: Developed on ABAP and OData and offered as an SAP Certified Add-On. This add-on is deployed through an Add-On Package on SAP NetWeaver. You can make enhancements through RACE Configurations. This add-on helps manage the OData integration components (i.e. OData Web Services) to interface with the mobile app. The RACE[™] Add-On has both the front-end components and the back-end data tables for the RACE[™] Lite Configuration tool.
- 3. **Native App Client + Desktop Web App**: Application front-end solutions are offered on 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[™] configurations are provided in spreadsheets. Upload these spreadsheets to your RACE application instance to enable the latest RACE[™] features that are developed for mWorkOrder. Contact your Innovapptive representative for the RACE configuration spreadsheets for your release.

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

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

For detailed information on RACE configurations, see the Upload Application Configurations Using $RACE^{TM}$ 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		@ 📰		
	Overview	合 Home [US East (Ashbur	n)] / 🌐 US East (Ashburn) 🖂 / 😹 Innovapptive Inc. / 🖻] Innovapptive Inc. $ \sim / {igodot}$ mworkorder	ui5jameena 🗸		
	Versioning	Source Location				G	2
86	Roles		s://git.us1.hana.ondemand.com/b70068d2c/mworkorderui5jamee	ena			
	Resource Consumption	🖧 Edit Online					
	Logging	History				C	Ð
		Refresh Impo Version 6.0.2 Required Destinations I		Active Actions	s application version		
		-	our subaccount to each required destination of the application.				
	Useful Links	Available C Edit	Required Destination (from Application Descriptor) SAP_Gateway: Netweaver Gateway	Mapped Subaccount]	
	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		ഫ <mark>12</mark> ⊚			
٥	Overview	🕱 Home [US East (Ashburn)] / ⊕ US East (Ashburn) 🗸 / 品 Innovapptive Inc. / 営 Innovapptive Inc.	✓ / ◎ mworkorderui5jam	ieena 🗸			
٦	Versioning	Application Details					?	
86	Roles	Application Name:	mworkorderul5jameena					
0	Resource Consumption	Display Name:	mworkorderul5jameena					
Ĩ	Logging	Description:						
		Active Version Active Application Version:	Eat				0	
		Required Destinations					?	
		Assign a destination from y	our subaccount to each required destination of the application.					
		Available	Required Destination (from Application Descriptor)	Mapped Subaccount Destin	ation			
?	Useful Links	X	SAP_Gateway: Netweaver Gateway	SAP_Gateway (default ma	ipping)			
গ্রহ	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.

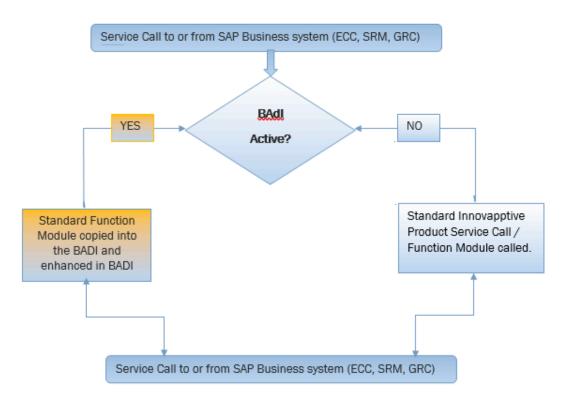


Figure 11-1 BADI Implementation

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 109)*.

Figure 11-2 SPRO IMG Structure

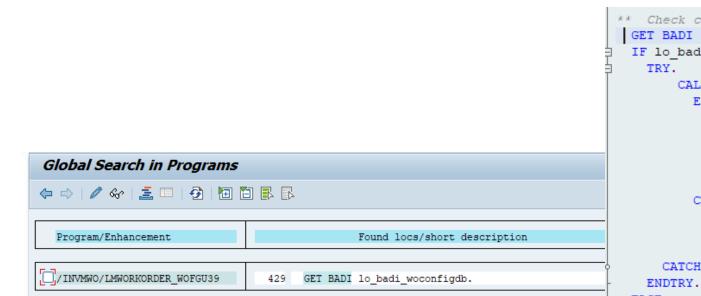
Displa	ay IMG	
V 🚛 🖬	Existing BC Sets & BC Sets for Activity	$\mathcal{E}_{\mathcal{O}}$ Activated BC Sets for Ac
Structure		
- 🗟 🛛 S	SAP Customizing Implementation Guide	
•	Retail Workforce Management	
•	Innovapptive - Mobile Solutions	
,	mRelease	
,	mWorklist	
-	mWorkorder	
•	Business Add-Inns	
,	Usage Decision	
,	Inspection Lot	
,	Measuring Point	
,	Time Sheet	
,	Functional Location	
,	Equipment	
,	Global	
,	Workorder	
,	Notification	

- 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.

Function Builder: Display /INVMWO/BAPI_WO_CONFIG	_DB	
(수 수) 🍄 🧐 🖆 🥟 🚑 🥕 晶 🚊 🗉 🚺 😋 💁 Pattern	Pretty Printer	Function Module Documentat
Function module /INVMWO/BAPI_WO_CONFIG_DB Active		
Attributes Import Export Changing Tables Exceptions Sou	rce code	
		*
422 * Badi Ref Object Declaration 423 *		
424 DATA : lo badi woconfigdb TYPE REF TO		^
425 /invmwo/badi woconfigdb.		
426		
427		
428 ** Check condition for initial BADI		
429 GET BADI lo_badi_woconfigdb.		
430 🗗 IF lo_badi_woconfigdb IS BOUND.		
431 C TRY.		
432 CALL BADI lo_badi_woconfigdb->woconfigdb		
433 EXPORTING		
434 it_cockpit = it_cockpit		
435 it filter = it filters		
436 im_skip = im_skip		
437 im_top = im_top		
438 it_ui_labels = lt_ui_labels 439 CHANGING		
439 CHANGING 440 et list = et list		
440 et_list - et_list 441 ev_skiptoken = ev_skiptoken		
442 return = return.		
443 o CATCH cx badi not implemented.	"#EC	NO HANDLER
444 - ENDTRY.	*50	
445 ¢ ELSE.		

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.

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Enhancement Spot /INVMWO/ENH_MWORKORDER Display								
← → ※ % 📫 4 / / 팩 🕂 晶 🚊 💷 🖪 💥 🖻 🛅 % 🖴								
Enhancement Spot / INVMWO/ENH_MWORKORDER Active								
Attributes Enhancem. Implementations	Technical Details	Enh. Spot Element Definitions						
▶	BAdI Definition	/INVMWO/BADI_WOCONFIGDB	🔛 🔛 tech.					
BAdI Definitions Description	Description	BADI for WO ConfigDB						
/INVMWO/BADI ST badi for storage k *	Interface	/INVMWO/IF WOCONFIGDB						
 M /INVMVO/BADI_STBADI Definition fc 	Usability	· · · · ·						
 INVMWO/BADI_SUBADI Definition fc 								
/INVMWO/BADI SY Badii for system c	✓ Multiple Use							
/INVMWO/BADI TA BAdi for Tasklists	Can only be impler	mented SAP-internally						
/INVMWO/BADI_TI BADI for Employe	Limited Filter Use							
/INVMWO/BADI_TI BADI for Employe								
/INVMWO/BADI_TI BADI for Update	Instance Creation Mo	ode						
/INVMWO/BADI_TI BADI Definition fc	ON-web Constinue To							
/INVMWO/BADI_UD BADI Definition fc	 Newly Creating In: 							
INVMWO/BADI_UN BAdi for Units of I	OReusing Instantiat	tion						
INVMWO/BADI_UN badi definition for	O Context-Specific I	instantiation						
INVMWO/BADI_US BADI Definitions f								
INVMWO/BADI_US BADI Definitions f	Coll follback if no in	nplementation is executed						
INVMWO/BADI_US BADI Definition fc		Iplementation is executed						
INVMWO/BADI_US BADI Definitions f	Fallback Class							
/INVMWO/BADI_VABADI for Value De								
INVMWO/BADI_W Wage Type	Implementation Exam	nple Classes						
\[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[
▼ 🐨 /INVMWO/BADI_W BADI for WO Con								
• (3) Interface								
• O Implementation								
INVMWO/BADI_W BADI for object s								
Generation for the second								

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.)

inhancement Spot / INVMU • 🐟 🍄 😘 📫 🖆 🥕 🖷 🔂		-	
ancement Spot	/INVMWO/ENH_MWORKORDER	Active	
Attributes Enhancem. Implementati	ons Technical Details Enh.	Spot Element Definitions	
	Implementations		
BAdI Definitions Description	BAdI Definition / IN	VMWO/BADI_WOCONFIGDB	
/INVMWO/BADI_ST badi for storage	x 🛋		
/INVMWO/BADI_ST BADI Definiti	Create BAdI Implementation		×
M /INVMVVO/BADI_SUBADI Definition			
/INVMWO/BADI_SY Badii for syster BA	dI Implementation	ZWOCONFIG_DB	
/INVMWO/BADI_TABAdi for Task De	scription	Enhancement Spot for Implementation for Configurable DB	
/INVMWO/BADI_TI BADI for Emp	plementing Class		
/INVMWO/BADI_TI BADI for Emp /INVMWO/BADI_TI BADI for Upd			
/INVMWO/BADI_TIBADI TO Opd			
/INVMWO/BADI_UDBADI Definition f	c		
/INVMWO/BADI_UN BAdi for Units of			
INVMWO/BADI_UN badi definition fo			
/INVMWO/BADI_US BADI Definitions			
/INVMWO/BADI_US BADI Definitions	f		
/INVMWO/BADI_US BADI Definition f	c		
/INVMWO/BADI_US BADI Definitions	f		
/INVMWO/BADI_VA BADI for Value D	<		
🐖 /INVMWO/BADI_W/Wage Type			
/INVMWO/BADI_W Update Persons			
/INVMWO/BADI_W BADI for WO Co	1		
• 🗐 Interface			
 O Implementation 			

- 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 Def	initions					
	BAdI Definition /INVMWO/BADI_WOCONFIGDB							
BAdI Definitions Description	Description	BADI for WO ConfigDB						
► 🦏 /INVMWO/BADI_ST badi for storage k ▲	Interface	/INVMWO/IF_WOCONFI	GDB					
→ 🖼 /INVMWO/BADI_ST BADI Definition fc 🍸 Usability								
Interview Contract Contraction for the second se								

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

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Enhancement Implementation ZENH_MWORKORDER Display							
(수 수) 🦻 🕄 🖆 🏄 🦉 특히 🛔 差 🗉 🗓	🔀 🗈 🔁 🎋						
Enhancement Implementation ZENH_MWORKOF Properties History Technical Details Enh. Imp	NDER	Inactive					
	Implementing Class						
BAdI Implementations Description	Interface	/INVMWO/IF_WOCONFIGDB					
ZBADI_EQU_CATEGOF Badi for equipment category	Implementing Class	ZWOCONFIGDB	🖉 🔗				
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.

Cla	Class Builder: Class ZWOCONFIGDB Display							
⊲	> 🍄 😘 🖻 🔘 🖆 🧪	* 🛱 🔂 📇 差 💷 🚺 🚭 💁 Pattern 🛛 Pre	etty 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					
¢⊞≬	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 Bathod /INVMWO/IF WOCONFIGDB-WOCONFIGDB.								
	2 endmethod.	-						

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

F	unc	tion modul	e /	/INVMWO/BA	PI_WO_CONFIC	G_DB	Active			
	/	Attributes	Import	Export	Changing	Tables	Exceptio	ns Source	code	
		418		lc	artpr	TYPE	artpr	VALUE	'PM',	
1		419	7	lc	langu	TYPE	sylangu	VALUE	'E'.	
4		420	L							
		421 E	*							 *
		422	* Badi	Ref Objed	t Declarat	tion				
		423	*							 *
		424	DATA	: lo badi	_woconfig	ib TYPE	REF TO			
		425	/invmwo	/badi woo	onfigdb.					
		426		-						

2. Double-click the BADI //INVMWO/BADI_WOCONFIGDB

Enhancement Spot /I	NVMWO/ENH_MWORKORDE	R Ac	tive		
Attributes Enhancem. Implementations	Technical Details	Enh. Spot Element Definition	15		
D 💼 🔂 🗔 🎜 🖺	BAdI Definition	/INVMWO/BADI_WOCONFIGD	B	tech. 🚺	
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				
 INVMWO/BADI_TABAdi for Tasklists 	✓ Multiple Use				
INVMWO/BADI_TIBADI for Employe	Can only be implement	ontod SAD-internally			
 INVMWO/BADI_TII BADI for Employe 	Limited Filter Use	enced SAF-incentally			
INVMWO/BADI_TIBADI for Update					
INVMWO/BADI_TI BADI Definition fc					
INVMWO/BADI_UD BADI Definition fc	Instance Creation Mod	le			
 INVMWO/BADI_UN BAdi for Units of I INVMWO/BADI UN badi definition for 	 Newly Creating Inst 	antiation			
 M /INVMWO/BADI_UN badi definition for M /INVMWO/BADI_US BADI Definitions f 	OReusing Instantiatio	in			
 M /INVMVO/BADI_OS BADI Definitions f M /INVMVO/BADI_US BADI Definitions f 	O Context-Specific Ins	stantiation			
 M /INVMVO/BADI_03 BADI Definitions f M /INVMVO/BADI_US BADI Definition fc 	O concerte opecare an	Searreacion			
 M /INVNVO/BADI_03 BADI Definition f M /INVMVO/BADI_US BADI Definitions f 					
✓ INVMWO/BADI_VABADI for Value De		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	ple Classes			
• (🗐 Interface					
 Implementation: 					

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	BADI Description	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

Table 11-1 BADIs in mWorkOrder Application ((continued)
----------------------------------------------	-------------

MODULE NAME	BADI Name	BADI Description	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	BADI 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	BADI Description	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	BADI Description	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	BADI Description	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	BADI Description	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	BADI Description	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 mWa	rkOrder Application	(continued)

Table 11-2 BADIs for mWorkOrder

Module Name	BADI Name	BADI Description
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)
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Module Name	BADI Name	BADI Description
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)
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Module Name	BADI Name	BADI Description
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)
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Module Name	BADI Name	BADI Description
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 Secondary Indice - Table and Field

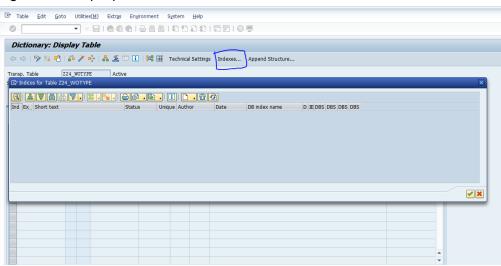
Table	Field for Secondary Index
PLKO	WERKS
AFIH	GEWRK
AUFK	WERKS

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



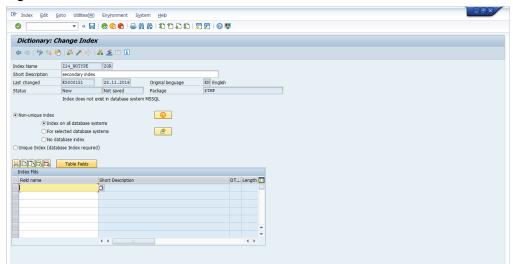
- 6. Click Create and select Create Index.
- 7. Enter the Index Name.

Figure 12-2 Create Index - Index Name

E Table Edit Goto Utilities(M) Extras Environment System Help
Dictionary: Display Table
🗇 🗇 🥬 😘 🛱 🕼 🗡 🚱 🛔 🌋 🗆 🗓 📓 🗱 Technical Settings 🛛 Indexes Append Structure
Transp. Table Z24_NOTYPE Active
Ind Ex. (Create Index Unque Author Date DB Index name D IE DBS DBS DBS Table Name Iz24 W0TYPZ Index Name Index

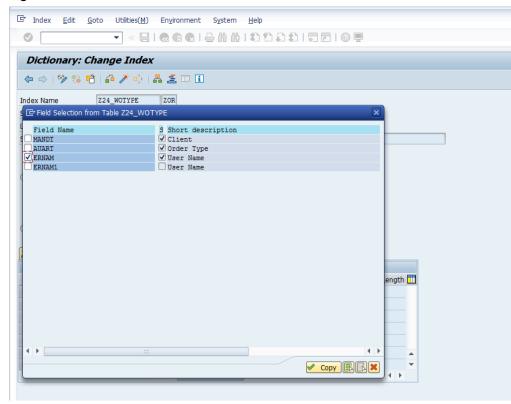
- 8. Enter description in the displayed fields.
- 9. Select Table Fields option to enter the Field name.

Figure 12-3 Table Fields



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

Figure	12-4 Select	Table Fields
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11. Click Activate.

Figure 12-5 Activate Index

	Extras Environment System Help			
▼ « 🔒	0001000010000			
ictionary: Display Table				
🔿 🦘 😘 📫 🌆 🧪 🕂	👫 🚊 💷 🚺 🏥 🏢 🛛 Technical Setti	ngs Indexes Append Structure		
sp. Table Z24_WOTYPE	Active			
Indices for Table Z24_WOTYPE				×
Ex Short text	Status Unique Author Active E5000151	Date DB index name D I	EDBS DBS DBS	
5		Lotter Lot Lot Lot Lot	•	
				VX

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.
	Possible Values: Based on the product, refer to the table Table 13-3 : AppName
	and App id <i>(on page 131)</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 i displayed on the Login page of the mobil app. Conditions: None	
	Possible Values: 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.	
	Tip: 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.	
	Condition: Use the Hex color code value based on the color you would like to see on the mobile app screen elements.	
	Possible Values: As per the requirement.	

Attribute	Description	
	Example:#42c2f4	
Touchld	Set the value as True to enable the Touch ID feature in application.	
AppPassCode	Set the value as True to enable the App Passcode feature in application.	
ForgotPwd	Set the value as True to enable the Forgot Password feature in application.	
ForgotPwdLink	Set the value as True to display the web- site link to reset password.	
ForgotPwdMsg	Set the value as True to display the mes- sage to reset password.	
Languages	Languages that are configured in the set- tings.json 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.	
	Syntax: {"id": <sequencenumber>,"key":"<saplanguagecode>","va lue": "<languagename>"} Possible Values: Languages supported by SAP Example: {"id":1,"key":"E","value":"English"}</languagename></saplanguagecode></sequencenumber>	
	Note: For RACE™ 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. Example: smp.innovapptive.com
Port	The application establishes the commu- nication to the server based on the speci- fied port number. Possible Values: 8080, 8081, 443
	Example: 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.
	 Condition: Use the same application ID as defined in SMP/SCPms. Possible Values: 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.
	Condition: Use the same security profile name as defined in SMP/SCPms. Example: 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 false .
	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 [™] , EQUIPMENT, FUNCTIONALLOCATION, and ATTACHMENT. Example . 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.