

Install Guide for mWorkOrder 2509

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 Install and do related configurations for mWorkOrder, a Mobile Workorder Management Solution of *Connected Workforce Platform*TM.

Document Conventions

Table 0-1 Conventions followed in the document

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

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1. Install Supporting Systems

Install the following supporting systems as part of the pre-installation requirements.

Table 1-1 Prerequisites

Software	• BTP (SAP Business Technology Platform) • SAP Cloud Connector latest version • SAP NetWeaver Gateway 7.4 and above with SAP_GWFND 740 component (SP 13 and above) • Reverse proxy (SAP Web Dispatcher, Apache, Junos Pulse, NetScaler proxy servers are recommended. Others need to be evaluated) • SAP_UI 740 SP13 and above or SAP_UI 750 SP01 and above • SPAM Version 69 and above (only for Add-Ons)
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 1909, 2021, 2022, and 2023 (lower versions requires evaluation) • SAP S/4HANA Business Suite 1709, 1809, 1909, 2021 and 2022 (lower versions requires evaluation)
Compatible Security Authentication Mechanism	• SSO2 between BTP and NetWeaver Gateway Active Directory SSO • SAML 2.0 Authentication

Table 1-1 Prerequisites (continued)

Access	• Sap Basis & security access is required as per the access sheet provided (minimum display access)
Assumptions	Access to the RACE™ portal provided with required roles assigned

2. Install mWorkOrder

Once you complete all pre-installation requirements, proceed with the mWorkOrder installation. The following flow gives you an overview of the installation process.

The sections in the following table guide you with the mWorkOrder installation process

Table 2-1 References

Task	Reference to section
Install RACE™ Add-ons in SAP® S/4HANA or Hub Systems (ECC & Gateway)	Install RACE™ Add-ons in SAP® S/4HANA or Hub Systems (ECC & Gateway) (on page 10)
Install mWorkOrder Add Ons in SAP S/4HANA or Hub Systems (ECC & Gateway)	Install mWorkOrder Add Ons in SAP® S/4HANA or Hub Systems (ECC & Gateway) (on page 13)
Import RACE™ and mWorkOrder SAP® ECC and Gateway Transports in Target SAP Environments	Install RACE™ Add-ons in SAP® S/4HANA or Hub Systems (ECC & Gateway) (on page 10)
Install mWorkOrder Add Ons in SAP® ECC, Gateway, S/4HANA and UI5	Install mWorkOrder Add Ons in SAP® S/4HANA or Hub Systems (ECC & Gateway) (on page 13)
Import RACE™ and mWorkOrder SAP® ECC and Gateway Transports	Import RACE™ and mWorkOrder SAP® ECC and Gateway Transports in Target SAP Environments (on page 30)
Activate OData, UI5, and FIORI Services	• Activate RACE™ & mWorkOrder OData Services (on page 51) • Activate UI5 Service (on page 53) • Activate FIORI Service (on page 55)

2.1. Install Add Ons

Add-On/Transports: Install the add-on or transports for the current release that is provided by Innovapptive representative.

Please follow the SAP standard process to install add ons. For more information, see https://help.sap.com/doc/saphelp_gbt10/1.0/en-US/18/e08d38dfc44765e10000009b38f842/content.htm?no_cache=true.

**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.

2.2. Install RACE™ Add-ons in SAP® S/4HANA or Hub Systems (ECC & Gateway)

Table 2-2 RACE™ ECC Add-On and Support Packages (applicable for both S/4 HANA and Hub)

Type	Add-On	Description	Dependency
Add-On	EZY002I3I0268_-0000004.PAT	INNOV:RACE™:2208 SP02 ECC Objects	None
SP01	EZY002I3I0268_-0000006.PAT	Innov RACE 2208 SP02 HF01 ECC Objects	Dependency
SP21	EZY002I3I0268_-0000053.PAT	Innov RACE 2208 SP02 HF03-HF25 ECC Objects	Dependency
SP31	EZY002I3I0268_-0000078.PAT	Innov RACE 2208 SP02 HF26-HF35 ECC Objects	Dependency
SP42	EZY002I3I0268_-0000104.PAT	Innov RACE 2208 SP02 HF36-HF46 ECC Objects	Dependency
SP43	EZY002I3I0268_-0000118.PAT	Innov RACE 2208 SP02 HF47.1 ECC Objects	Dependency
SP44	EZY002I3I0268_-0000119.PAT	Innov RACE 2208 SP02 HF48 ECC Objects	Dependency

Table 2-2 RACE™ ECC Add-On and Support Packages (applicable for both S/4 HANA and Hub) (continued)

Type	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 2-3 RACE™ Gateway Add-On and Support Packages (applicable for both S/4 HANA and Hub)

Type	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

Table 2-3 RACE™ Gateway Add-On and Support Packages (applicable for both S/4 HANA and Hub) (continued)

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

Table 2-3 RACE™ Gateway Add-On and Support Packages (applicable for both S/4 HANA and Hub) (continued)

Type	Add-On	Description	Dependency
SP82	NZY0021310268_- 0000197.PAT	RACE 2208 SP02 2501.2 Fiori Objects	Dependency
SP83	NZY0021310268_- 0000200.PAT	RACE 2208 SP02 2501.3 GW Objects	Dependency
SP84	NZY0021310268_- 0000202.PAT	RACE 2208 SP02 2501.4 GW Objects	Dependency
SP85	NZY0021310268_- 0000215.PAT	RACE 2208 SP02 2503.3 GW Objects	Dependency
SP86	NZY0021310268_- 0000218.PAT	RACE 2208 SP02 2504.01 GW Objects	Dependency

2.3. Install mWorkOrder Add Ons in SAP® S/4HANA or Hub Systems (ECC & Gateway)

Table 2-4 MWO ECC Add-On and Support Packages (applicable only for Hub (ECC System))

Type	Add-On	Description	Dependency
Add-On	EZY0021310268_- 0000005.PAT	INNOV: MWO:2208 SP02 ECC Objects	Install RACE™ Add-On (EZY0021310268_-0000004.PAT) before installing the mWO Add-On (EZY0021310268_-0000005.PAT)
SP01	EZY0021310268_- 0000007.PAT	INNOV: MWO:2208 SP02 HF01 ECC Objects	Install MWO Add-On (EZY0021310268_-0000005.PAT) before installing SP01

**Table 2-4 MWO ECC Add-On and Support Packages (applicable only for Hub (ECC System))
(continued)**

Type	Add-On	Description	Dependency
SP22	EZY0021310268_- 0000054.PAT	INNOV: MWO:2208 SP02 HF03- HF25 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000007.PAT) before installing SP22
SP31	EZY0021310268_- 0000076.PAT	INNOV: MWO:2208 SP02 HF26- HF35 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000054.PAT) before installing SP31
SP43	EZY0021310268_- 0000105.PAT	INNOV: MWO:2208 SP02 HF36- HF46 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000076.PAT) before installing SP43
SP56	EZY0021310268_- 0000171.PAT	INNOV: MWO:2208 SP02 HF47- 2505.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000105.PAT) before installing SP56
SP57	EZY0021310268_- 0000189.PAT	INNOV: MWO: 2505.3 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000171.PAT) before installing SP57
SP58	EZY0021310268_- 0000175.PAT	INNOV: MWO: 2506.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000189.PAT) before installing SP58
SP59	EZY0021310268_- 0000178.PAT	INNOV: MWO: 2506.2 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000175.PAT) before installing SP59

**Table 2-4 MWO ECC Add-On and Support Packages (applicable only for Hub (ECC System))
(continued)**

Type	Add-On	Description	Dependency
SP60	EZY0021310268_- 0000196.PAT	INNOV: MWO: 2508.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000178.PAT) before installing SP60
SP61	EZY0021310268_- 0000200.PAT	INNOV: MWO: 2508.2 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000196.PAT) before installing SP61
SP62	EZY0021310268_- 0000202.PAT	INNOV: MWO: 2509.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000200.PAT) before installing SP62

Table 2-5 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System))

Type	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)
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

Table 2-5 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System)) (continued)

Type	Add-On	Description	Dependency
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
Support Pack – SP40	NZY0021310268_ - 0000114.PAT	INNOV MWO 2208 SP02 HF01 – HF25 Gateway Objects	Install mWO Add-on (NZY0021310268_ - 0000009.PAT) before importing the support pack SP01
Support Pack – SP41	NZY0021310268_ - 0000115.PAT	INNOV MWO 2208 SP02 HF01 – HF25 UI5 Application	Install mWO Add-on (NZY0021310268_ - 0000114.PAT) before importing the support pack SP40
Support Pack – SP42	NZY0021310268_ - 0000116.PAT	INNOV MWO 2208 SP02 HF01 – HF25 Fiori Application	Install mWO Add-on (NZY0021310268_ - 0000114.PAT) before importing the support pack SP42
Support Pack – SP52	NZY0021310268_ - 0000151.PAT	INNOV MWO 2208 SP02 HF26 – HF35	Install mWO Add-on (NZY0021310268_ - 0000114.PAT) before importing the support pack SP52
Support Pack – SP74	NZY0021310268_ - 0000238.PAT	INNOV MWO 2208 SP02 HF36 – 2505.1	Install mWO Add-on (NZY0021310268_ - 0000151.PAT) before importing the support pack SP74

Table 2-5 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System)) (continued)

Type	Add-On	Description	Dependency
Support Pack – SP75	NZY0021310268_-0000239.PAT	INNOV MWO 2505.03 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000238.PAT) before importing the support pack SP75
Support Pack – SP76	NZY0021310268_-0000242.PAT	INNOV MWO 2506.1 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000239.PAT) before importing the support pack SP76
Support Pack – SP77	NZY0021310268_-0000244.PAT	INNOV MWO 2506.2 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000242.PAT) before importing the support pack SP77
Support Pack – SP78	NZY0021310268_-0000255.PAT	INNOV MWO 2508.1 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000244.PAT) before importing the support pack SP78
Support Pack – SP79	NZY0021310268_-0000258.PAT	INNOV MWO 2508.2 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000255.PAT) before importing the support pack SP79
Support Pack – SP80	NZY0021310268_-0000260.PAT	INNOV MWO 2509.1 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000258.PAT) before importing the support pack SP80

Table 2-5 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System)) (continued)

Type	Add-On	Description	Dependency
Support Pack – SP81	NZY0021310268_-0000261.PAT	INNOV MWO 2509.01.01 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000260.PAT) before importing the support pack SP76

Table 2-6 MWO Embedded (S/4 HANA) Add-On and Support Packages

Type	Add-On	Description	Dependency
Add-On	MZY0021310268_-0000003.PAT	INNOV MWO 2208 SP02 EMB Addon	Install RACE™ Add-On (EZY0021310268_-0000004.PAT) before Installing RACE™ Add-On (NZY0021310268_-0000006.PAT) before installing MZY0021310268_-0000003.PAT
Support Pack – SP01	MZY0021310268_-0000004.PAT	INNOV MWO 2208 SP01 UI5 Application	Install mWO Add-on (MZY0021310268_-0000003.PAT) before importing the support pack SP01
Support Pack – SP40	MZY0021310268_-0000057.PAT	INNOV MWO 2208 SP02 HF01 – HF25 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000004.PAT) before importing the support pack SP40

Table 2-6 MWO Embedded (S/4 HANA) Add-On and Support Packages (continued)

Type	Add-On	Description	Dependency
Support Pack – SP41	MZY0021310268_-0000058.PAT	INNOV MWO 2208 SP01 HF01 – Hf25 UI5 Application	Install mWO Add-on (MZY0021310268_-0000057.PAT) before importing the support pack SP41
Support Pack – SP42	MZY0021310268_-0000059.PAT	INNOV MWO 2208 SP01 HF01 – HF25 Fiori Application	Install mWO Add-on (MZY0021310268_-0000057.PAT) before importing the support pack SP42
Support Pack – SP52	MZY0021310268_-0000093.PAT	INNOV MWO 2208 SP02 HF26 – HF35 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000057.PAT) before importing the support pack SP52
Support Pack – SP77	MZY0021310268_-0000192.PAT	INNOV MWO 2208 SP02 HF36 – 2505.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000093.PAT) before importing the support pack SP77
Support Pack – SP78	MZY0021310268_-0000205.PAT	INNOV MWO 2505.3 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000192.PAT) before importing the support pack SP78
Support Pack – SP79	MZY0021310268_-0000195.PAT	INNOV MWO 2506.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000205.PAT) before importing the support pack SP79

Table 2-6 MWO Embedded (S/4 HANA) Add-On and Support Packages (continued)

Type	Add-On	Description	Dependency
Support Pack – SP80	MZY0021310268_-0000199.PAT	INNOV MWO 2506.2 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000195.PAT) before importing the support pack SP80
Support Pack – SP81	MZY0021310268_-0000215.PAT	INNOV MWO 2508.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000199.PAT) before importing the support pack SP81
Support Pack – SP82	MZY0021310268_-0000223.PAT	INNOV MWO 2508.2 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000215.PAT) before importing the support pack SP82
Support Pack – SP83	MZY0021310268_-0000224.PAT	INNOV MWO 2509.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000223.PAT) before importing the support pack SP83
Support Pack – SP84	MZY0021310268_-0000225.PAT	INNOV MWO 2509.01.01 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000224.PAT) before importing the support pack SP84

2.3.1. Verify SAP® ECC RACE™ and MWO Add-On

To verify the SAP® ECC RACE™ and MWO add-on:

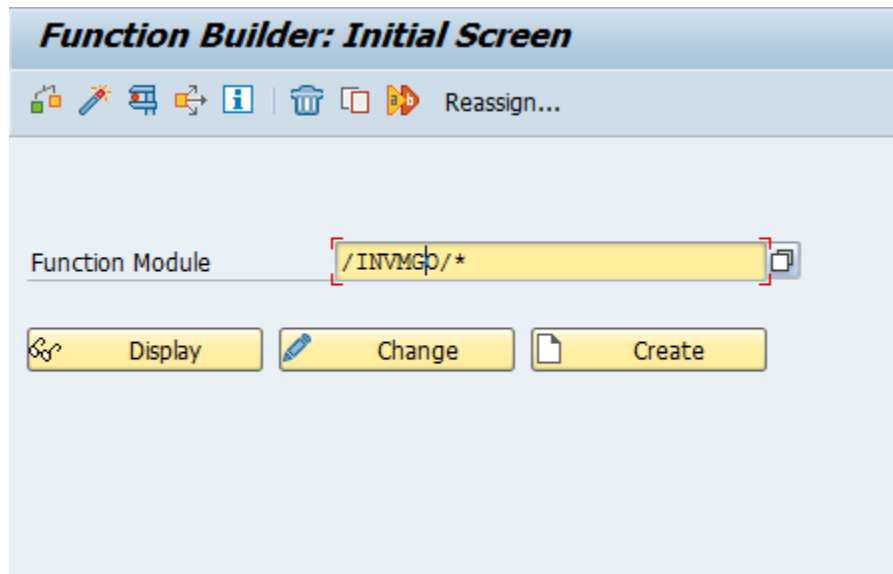
1. Run the transaction code **SE37**.
2. Enter the program name as **/INVMGO/*** in the **Function Module** field.



Note:

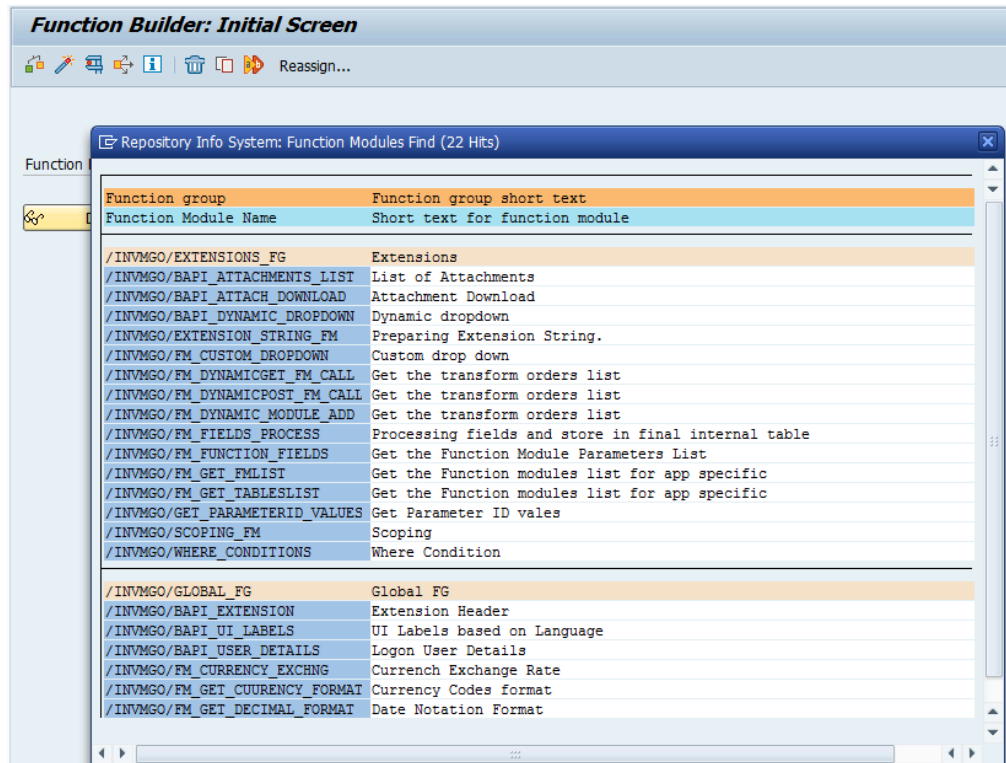
Use the program name as **/INVMWO/*** for MWO.

Figure 2-1 Function Builder Initial Screen



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

Figure 2-2 Function Module Classes



2.3.2. Verify SAP® GW RACE™ and MWO Add-On

To verify the SAP® GW RACE™ and MWO Add-On:

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



Note:

Use the object type as **/INVMWO/*** for MWO.

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

Figure 2-3 Object Classes

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

2.4. Install mWorkOrder Add Ons in SAP® S/4HANA or Hub Systems (ECC & Gateway)

Table 2-7 MWO ECC Add-On and Support Packages (applicable only for Hub (ECC System))

Type	Add-On	Description	Dependency
Add-On	EZY0021310268_- 0000005.PAT	INNOV: MWO:2208 SP02 ECC Objects	Install RACE™ Add-On (EZY0021310268_-0000004.PAT) before installing the mWO Add-On (EZY0021310268_-0000005.PAT)
SP01	EZY0021310268_- 0000007.PAT	INNOV: MWO:2208 SP02 HF01 ECC Objects	Install MWO Add-On (EZY0021310268_-0000005.PAT) before installing SP01

**Table 2-7 MWO ECC Add-On and Support Packages (applicable only for Hub (ECC System))
(continued)**

Type	Add-On	Description	Dependency
SP22	EZY0021310268_- 0000054.PAT	INNOV: MWO:2208 SP02 HF03- HF25 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000007.PAT) before installing SP22
SP31	EZY0021310268_- 0000076.PAT	INNOV: MWO:2208 SP02 HF26- HF35 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000054.PAT) before installing SP31
SP43	EZY0021310268_- 0000105.PAT	INNOV: MWO:2208 SP02 HF36- HF46 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000076.PAT) before installing SP43
SP56	EZY0021310268_- 0000171.PAT	INNOV: MWO:2208 SP02 HF47- 2505.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000105.PAT) before installing SP56
SP57	EZY0021310268_- 0000189.PAT	INNOV: MWO: 2505.3 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000171.PAT) before installing SP57
SP58	EZY0021310268_- 0000175.PAT	INNOV: MWO: 2506.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000189.PAT) before installing SP58
SP59	EZY0021310268_- 0000178.PAT	INNOV: MWO: 2506.2 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000175.PAT) before installing SP59

**Table 2-7 MWO ECC Add-On and Support Packages (applicable only for Hub (ECC System))
(continued)**

Type	Add-On	Description	Dependency
SP60	EZY0021310268_- 0000196.PAT	INNOV: MWO: 2508.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000178.PAT) before installing SP60
SP61	EZY0021310268_- 0000200.PAT	INNOV: MWO: 2508.2 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000196.PAT) before installing SP61
SP62	EZY0021310268_- 0000202.PAT	INNOV: MWO: 2509.1 ECC Objects	Install MWO Add-On (EZY0021310268_- 0000200.PAT) before installing SP62

Table 2-8 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System))

Type	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)
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

Table 2-8 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System)) (continued)

Type	Add-On	Description	Dependency
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
Support Pack – SP40	NZY0021310268_ - 0000114.PAT	INNOV MWO 2208 SP02 HF01 – HF25 Gateway Objects	Install mWO Add-on (NZY0021310268_ - 0000009.PAT) before importing the support pack SP01
Support Pack – SP41	NZY0021310268_ - 0000115.PAT	INNOV MWO 2208 SP02 HF01 – HF25 UI5 Application	Install mWO Add-on (NZY0021310268_ - 0000114.PAT) before importing the support pack SP40
Support Pack – SP42	NZY0021310268_ - 0000116.PAT	INNOV MWO 2208 SP02 HF01 – HF25 Fiori Application	Install mWO Add-on (NZY0021310268_ - 0000114.PAT) before importing the support pack SP42
Support Pack – SP52	NZY0021310268_ - 0000151.PAT	INNOV MWO 2208 SP02 HF26 – HF35	Install mWO Add-on (NZY0021310268_ - 0000114.PAT) before importing the support pack SP52
Support Pack – SP74	NZY0021310268_ - 0000238.PAT	INNOV MWO 2208 SP02 HF36 – 2505.1	Install mWO Add-on (NZY0021310268_ - 0000151.PAT) before importing the support pack SP74

Table 2-8 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System)) (continued)

Type	Add-On	Description	Dependency
Support Pack – SP75	NZY0021310268_-0000239.PAT	INNOV MWO 2505.03 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000238.PAT) before importing the support pack SP75
Support Pack – SP76	NZY0021310268_-0000242.PAT	INNOV MWO 2506.1 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000239.PAT) before importing the support pack SP76
Support Pack – SP77	NZY0021310268_-0000244.PAT	INNOV MWO 2506.2 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000242.PAT) before importing the support pack SP77
Support Pack – SP78	NZY0021310268_-0000255.PAT	INNOV MWO 2508.1 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000244.PAT) before importing the support pack SP78
Support Pack – SP79	NZY0021310268_-0000258.PAT	INNOV MWO 2508.2 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000255.PAT) before importing the support pack SP79
Support Pack – SP80	NZY0021310268_-0000260.PAT	INNOV MWO 2509.1 Gateway Objects	Install mWO Add-on (NZY0021310268_-0000258.PAT) before importing the support pack SP80

Table 2-8 MWO Gateway Add-On and Support Packages (applicable only for Hub (Gateway System)) (continued)

Type	Add-On	Description	Dependency
Support Pack – SP81	NZY0021310268_- 0000261.PAT	INNOV MWO 2509.01.01 Gateway Objects	Install mWO Add-on (NZY0021310268_- 0000260.PAT) before importing the support pack SP76

Table 2-9 MWO Embedded (S/4 HANA) Add-On and Support Packages

Type	Add-On	Description	Dependency
Add-On	MZY0021310268_- 0000003.PAT	INNOV MWO 2208 SP02 EMB Addon	Install RACE™ Add- On (EZY0021310268_- 0000004.PAT) before Installing RACE™ Add- On (NZY0021310268_- 0000006.PAT) before installing MZY0021310268_- 0000003.PAT
Support Pack – SP01	MZY0021310268_- 0000004.PAT	INNOV MWO 2208 SP01 UI5 Application	Install mWO Add-on (MZY0021310268_- 0000003.PAT) before importing the support pack SP01
Support Pack – SP40	MZY0021310268_- 0000057.PAT	INNOV MWO 2208 SP02 HF01 – HF25 Gateway Objects	Install mWO Add-on (MZY0021310268_- 0000004.PAT) before importing the support pack SP40

Table 2-9 MWO Embedded (S/4 HANA) Add-On and Support Packages (continued)

Type	Add-On	Description	Dependency
Support Pack – SP41	MZY0021310268_-0000058.PAT	INNOV MWO 2208 SP01 HF01 – Hf25 UI5 Application	Install mWO Add-on (MZY0021310268_-0000057.PAT) before importing the support pack SP41
Support Pack – SP42	MZY0021310268_-0000059.PAT	INNOV MWO 2208 SP01 HF01 – HF25 Fiori Application	Install mWO Add-on (MZY0021310268_-0000057.PAT) before importing the support pack SP42
Support Pack – SP52	MZY0021310268_-0000093.PAT	INNOV MWO 2208 SP02 HF26 – HF35 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000057.PAT) before importing the support pack SP52
Support Pack – SP77	MZY0021310268_-0000192.PAT	INNOV MWO 2208 SP02 HF36 – 2505.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000093.PAT) before importing the support pack SP77
Support Pack – SP78	MZY0021310268_-0000205.PAT	INNOV MWO 2505.3 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000192.PAT) before importing the support pack SP78
Support Pack – SP79	MZY0021310268_-0000195.PAT	INNOV MWO 2506.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000205.PAT) before importing the support pack SP79

Table 2-9 MWO Embedded (S/4 HANA) Add-On and Support Packages (continued)

Type	Add-On	Description	Dependency
Support Pack – SP80	MZY0021310268_-0000199.PAT	INNOV MWO 2506.2 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000195.PAT) before importing the support pack SP80
Support Pack – SP81	MZY0021310268_-0000215.PAT	INNOV MWO 2508.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000199.PAT) before importing the support pack SP81
Support Pack – SP82	MZY0021310268_-0000223.PAT	INNOV MWO 2508.2 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000215.PAT) before importing the support pack SP82
Support Pack – SP83	MZY0021310268_-0000224.PAT	INNOV MWO 2509.1 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000223.PAT) before importing the support pack SP83
Support Pack – SP84	MZY0021310268_-0000225.PAT	INNOV MWO 2509.01.01 Gateway Objects	Install mWO Add-on (MZY0021310268_-0000224.PAT) before importing the support pack SP84

2.5. Import RACE™ and mWorkOrder SAP® ECC and Gateway Transports in Target SAP Environments

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.

Please follow the SAP standard process to import transports. For more information, see https://help.sap.com/doc/saphelp_nw74/7.4.16/en-US/44/c54a4278bbb56be10000000a155106/content.htm?no_cache=true.

**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 2-10 RACE™ SAP® ECC Transports

Transport	Description	Dependency
ERDK913573	Innov RACE 2208 SP02 ECC Objects	None
ERDK913587	Innov RACE 2208 SP02 HF01 ECC Objects	ERDK913573
ERDK913595	Innov RACE 2208 SP02 HF03 ECC Objects	ERDK913587
ERDK913634	Innov RACE 2208 SP02 HF04 ECC Objects	ERDK913595
ERDK913675	Innov RACE 2208 SP02 HF05 ECC Objects	ERDK913634
ERDK913685	Innov RACE 2208 SP02 HF06 ECC Objects	ERDK913675
ERDK913716	Innov RACE 2208 SP02 HF07 ECC Objects	ERDK913685
ERDK913744	Innov RACE 2208 SP02 HF08 ECC Objects	ERDK913716
ERDK913751	Innov RACE 2208 SP02 HF09 ECC Objects	ERDK913744
ERDK913815	Innov RACE 2208 SP02 HF10 ECC Objects	ERDK913751

Table 2-10 RACE™ SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK913840	Innov RACE 2208 SP02 HF11 ECC Objects	ERDK913815
ERDK913869	Innov RACE 2208 SP02 HF12 ECC Objects	ERDK913840
ERDK913908	Innov RACE 2208 SP02 HF13 ECC Objects	ERDK913869
ERDK913930	Innov RACE 2208 SP02 HF15 ECC Objects	ERDK913908
ERDK914084	Innov RACE 2208 SP02 HF17 ECC Objects	ERDK913930
ERDK914106	Innov RACE 2208 SP02 HF19 ECC Objects	ERDK914084
ERDK914151	Innov RACE 2208 SP02 HF20 ECC Objects	ERDK914106
ERDK914232	Innov RACE 2208 SP02 HF21 ECC Objects	ERDK914151
ERDK914280	Innov RACE 2208 SP02 HF22 ECC Objects	ERDK914232
ERDK914330	Innov RACE 2208 SP02 HF24 ECC Objects	ERDK914280
ERDK914375	Innov RACE 2208 SP02 HF25 ECC Objects	ERDK914330
ERDK914416	Innov RACE 2208 SP02 HF26 ECC Objects	ERDK914375
ERDK914464	Innov RACE 2208 SP02 HF27 ECC Objects	ERDK914416
ERDK914514	Innov RACE 2208 SP02 HF28 ECC Objects	ERDK914464

Table 2-10 RACE™ SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK914534	Innov RACE 2208 SP02 HF29 ECC Objects	ERDK914514
ERDK914625	Innov RACE 2208 SP02 HF32 ECC Objects	ERDK914534
ERDK914629	Innov RACE 2208 SP02 HF33 ECC Objects	ERDK914625
ERDK914803	Innov RACE 2208 SP02 HF34 ECC Objects	ERDK914629
ERDK914807	Innov RACE 2208 SP02 HF34.1 ECC Objects	ERDK914803
ERDK914805	Innov RACE 2208 SP02 HF35 ECC Objects	ERDK914807
ERDK914901	Innov RACE 2208 SP02 HF36 ECC Objects	ERDK914805
ERDK915056	Innov RACE 2208 SP02 HF37 ECC Objects	ERDK914901
ERDK915062	Innov RACE 2208 SP02 HF38 ECC Objects	ERDK915056
ERDK915127	Innov RACE 2208 SP02 HF39 ECC Objects	ERDK915062
ERDK915233	Innov RACE 2208 SP02 HF40 ECC Objects	ERDK915127
ERDK915250	Innov RACE 2208 SP02 HF41 ECC Objects	ERDK915233
ERDK915308	Innov RACE 2208 SP02 HF42 ECC Objects	ERDK915250
ERDK915415	Innov RACE 2208 SP02 HF44 ECC Objects	ERDK915308

Table 2-10 RACE™ SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK915491	Innov RACE 2208 SP02 HF45 ECC Objects	ERDK915415
ERDK915541	Innov RACE 2208 SP02 HF46 ECC Objects	ERDK915491
ERDK915582	Innov RACE 2208 SP02 HF47.1 ECC Objects	ERDK915541
ERDK915640	Innov RACE 2208 SP02 HF48 ECC Objects	ERDK915582
ERDK915655	Innov RACE 2208 SP02 HF49 ECC Objects	ERDK915640
ERDK915720	Innov RACE 2208 SP02 HF50 ECC Objects	ERDK915655
ERDK915817	Innov RACE 2501.1 ECC Ob- jects	ERDK915720
ERDK915970	Innov RACE 2502.1 ECC Ob- jects	ERDK915817
ERDK916012	Innov RACE 2502.3 ECC Ob- jects	ERDK915970
ERDK916119	Innov RACE 2503.3 ECC Ob- jects	ERDK916012
ERDK916142	Innov RACE 2504.1 ECC Ob- jects	ERDK916119
ERDK916175	Innov RACE 2504.2 ECC Ob- jects	ERDK916142
ERDK916208	Innov RACE 2505.1 ECC Ob- jects	ERDK916175
ERDK916228	Innov RACE 2505.2 ECC Ob- jects	ERDK916208

Table 2-10 RACE™ SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK916267	Innov RACE 2505.3 ECC Objects	ERDK916228
ERDK916445	Innov RACE 2507.1 ECC Objects	ERDK916267
ERDK916543	Innov RACE 2508.1 ECC Objects	ERDK916445
ERDK916603	Innov RACE 2509.1 ECC Objects	ERDK916543
ERDK916606	Innov RACE 2509.1.01 ECC Objects	ERDK916603

Table 2-11 RACE™ Gateway Transports

Transport	Description	Dependency
NG5K903797	Innov RACE 2208 SP02 Gateway Objects	None
NG5K903799	Innov RACE 2208 SP01 UI5 Application	NG5K903797
NG5K903821	Innov RACE 2208 SP02 HF03 Gateway Objects	NG5K903799
NG5K903817	Innov RACE 2208 SP02 HF03 UI5 Application	NG5K903821
NG5K903824	Innov RACE 2208 SP02 HF04 Gateway Objects	NG5K903817
NG5K903858	Innov RACE 2208 SP02 HF05 Gateway Objects	NG5K903817
NG5K903828	Innov RACE 2208 SP02 HF05 UI5 Application	NG5K903858
NG5K903869	Innov RACE 2208 SP02 HF06 Gateway Objects	NG5K903828

Table 2-11 RACE™ Gateway Transports (continued)

Transport	Description	Dependency
NG5K903875	Innov RACE 2208 SP02 HF06 UI5 Application	NG5K903869
NG5K903910	Innov RACE 2208 SP02 .01 HF06 GW Objects	NG5K903875
NG5K903904	Innov RACE 2208 SP02 HF07 Gateway Objects	NG5K903910
NG5K903908	Innov RACE 2208 SP02 HF07 UI5 Application	NG5K903904
NG5K903947	Innov RACE 2208 SP02 HF08 Gateway Objects	NG5K903908
NG5K903949	Innov RACE 2208 SP02 HF09 Gateway Objects	NG5K903947
NG5K903983	Innov RACE 2208 SP02 HF09 UI5 Application	NG5K903949
NG5K904016	Innov RACE 2208 SP02 HF10 Gateway Objects	NG5K903983
NG5K904010	Innov RACE 2208 SP02 HF10 UI5 Application	NG5K904016
NG5K904057	Innov RACE 2208 SP02 HF11 Gateway Objects	NG5K904010
NG5K904053	Innov RACE 2208 SP02 HF11 UI5 Application	NG5K904057
NG5K904067	Innov RACE 2208 SP02 HF12 Gateway Objects	NG5K904053
NG5K904084	Innov RACE 2208 SP02 HF13 Gateway Objects	NG5K904067
NG5K904077	Innov RACE 2208 SP02 HF11 UI5 Application	NG5K904084

Table 2-11 RACE™ Gateway Transports (continued)

Transport	Description	Dependency
NG5K904110	Innov RACE 2208 SP02 Fiori Application	NG5K904077
NG5K904090	Innov RACE 2208 SP02 HF15 Gateway Objects	NG5K904110
NG5K904103	Innov RACE 2208 SP02 Fiori Application	NG5K904090
NG5K904133	Innov RACE 2208 SP02 HF17 Gateway Objects	NG5K904103
NG5K904108	Innov RACE 2208 SP02 HF17 UI5 Application	NG5K904133
NG5K904158	Innov RACE 2208 SP02 HF19 Gateway Objects	NG5K904108
NG5K904163	Innov RACE 2208 SP02 HF20 Gateway Objects	NG5K904158
NG5K904175	Innov RACE 2208 SP02 HF21 Gateway Objects	NG5K904163
NG5K904161	Innov RACE 2208 SP02 HF21 UI5 Application	NG5K904175
NG5K904143	Innov RACE 2208 SP02 HF21 fiori Application	NG5K904161
NG5K904207	Innov RACE 2208 SP02 HF22 Gateway Objects	NG5K904143
NG5K904211	Innov RACE 2208 SP02 HF23 Gateway Objects	NG5K904207
NG5K904193	Innov RACE 2208 SP02 HF23 UI5 Application	NG5K904211
NG5K904217	Innov RACE 2208 SP02 HF24 Gateway Objects	NG5K904193

Table 2-11 RACE™ Gateway Transports (continued)

Transport	Description	Dependency
NG5K904196	Innov RACE 2208 SP02 HF25 UI5 Application	NG5K904217
NG5K904227	Innov RACE 2208 SP02 HF25 Gateway Objects	NG5K904196
NG5K904238	Innov RACE 2208 SP02 HF26 UI5 Application	NG5K904227
NG5K904232	Innov RACE 2208 SP02 HF26 UI5 Application	NG5K904238
NG5K904245	Innov RACE 2208 SP02 HF26.01 UI5 Application	NG5K904232
NG5K904235	Innov RACE 2208 SP02 HF27 Gateway Objects	NG5K904245
NG5K904253	Innov RACE 2208 SP02 HF28 Gateway Objects	NG5K904235
NG5K904271	Innov RACE 2208 SP02 HF29 Gateway Objects	NG5K904253
NG5K904281	Innov RACE 2208 SP02 HF30 Gateway Objects	NG5K904271
NG5K904247	Innov RACE 2208 SP02 HF30 UI5 Application	NG5K904281
NG5K904285	Innov RACE 2208 SP02 HF32 Gateway Objects	NG5K904247
NG5K904294	Innov RACE 2208 SP02 HF32 Fiori Application	NG5K904285
NG5K904296	Innov RACE 2208 SP02 HF33 gateway Objects	NG5K904294
NG5K904315	Innov RACE 2208 SP02 HF34 gateway Objects	NG5K904296

Table 2-11 RACE™ Gateway Transports (continued)

Transport	Description	Dependency
NG5K904298	Innov RACE 2208 SP02 HF34 Fiori Application	NG5K904315
NG5K904317	Innov RACE 2208 SP02 HF35 gateway Objects	NG5K904298
NG5K904310	Innov RACE 2208 SP02 HF35 UI5 Application	NG5K904317
NG5K904337	Innov RACE 2208 SP02 HF35.1 gateway Objects	NG5K904310
NG5K904198	Innov RACE 2208 SP02 HF36 Fiori Application	NG5K904337
NG5K904343	Innov RACE 2208 SP02 HF36 GW Objects	NG5K904198
NG5K904372	Innov RACE 2208 SP02 HF37 GW Objects	NG5K904343
NG5K904400	Innov RACE 2208 SP02 HF38 Fiori Application	NG5K904372
NG5K904402	Innov RACE 2208 SP02 HF39 GW Objects	NG5K904400
NG5K904428	Innov RACE 2208 SP02 HF40 GW Objects	NG5K904402
NG5K904432	Innov RACE 2208 SP02 HF41 GW Objects	NG5K904428
NG5K904452	Innov RACE 2208 SP02 HF42 GW Objects	NG5K904432
NG5K904481	Innov RACE 2208 SP02 HF43 GW Objects	NG5K904452
NG5K904471	Innov RACE 2208 SP02 HF44 GW Objects	NG5K904481

Table 2-11 RACE™ Gateway Transports (continued)

Transport	Description	Dependency
NG5K904502	Innov RACE 2208 SP02 HF45 GW Objects	NG5K904471
NG5K904504	Innov RACE 2208 SP02 HF46 GW Objects	NG5K904502
NG5K904509	Innov RACE 2208 SP02 HF47 GW Objects	NG5K904504
NG5K904519	Innov RACE 2208 SP02 HF48 GW Objects	NG5K904509
NG5K904541	Innov RACE 2208 SP02 HF49 GW Objects	NG5K904519
NG5K904543	Innov RACE 2208 SP02 HF50 GW Objects	NG5K904541
NG5K904552	Innov RACE 2208 SP02 2501.1 GW Objects	NG5K904543
NG5K904525	Innov RACE 2208 SP02 2501.1 Firoi Objects	NG5K904552
NG5K904562	Innov RACE 2208 SP02 2501.2 GW Objects	NG5K904525
NG5K904566	Innov RACE 2208 SP02 2501.3 GW Objects	NG5K904562
NG5K904573	Innov RACE 2208 SP02 2501.4 GW Objects	NG5K904566
NG5K904576	Innov RACE 2208 SP02 2503.3 GW Objects	NG5K904573
NG5K904591	Innov RACE 2208 SP02 2504.01 GW Objects	NG5K904576
NG5K904601	Innov RACE 2208 SP02 2505.1 GW Objects	NG5K904591

Table 2-11 RACE™ Gateway Transports (continued)

Transport	Description	Dependency
NG5K904603	Innov RACE 2208 SP02 2505.3 GW Objects	NG5K904601
NG5K904610	Innov RACE 2208 SP02 2506.1 GW Objects	NG5K904603
NG5K904619	Innov RACE 2208 SP02 2508.1 GW Objects	NG5K904610
NG5K904624	Innov RACE 2508.02 GW Objects	NG5K904619
NG5K904629	Innov RACE 2508.02 UI5 Application	NG5K904624
NG5K904632	Innov RACE 2208 SP02 2508.02 Firoi Objects	NG5K904629

Table 2-12 MWO SAP® ECC Transports

Transport	Description	Dependency
ERDK913571	Innov MWO 2208 SP02 ECC Objects	Import ERDK913573 before importing ERDK913571
ERDK913575	Innov MWO 2208 SP02 HF01 ECC Objects	ERDK913571
ERDK913616	Innov MWO 2208 SP02 HF03 ECC Objects	ERDK913575
ERDK913637	Innov MWO 2208 SP02 HF04 ECC Objects	ERDK913616
ERDK913664	Innov MWO 2208 SP02 HF05 ECC Objects	ERDK913637
ERDK913680	Innov MWO 2208 SP02 HF06 ECC Objects	ERDK913664
ERDK913709	Innov MWO 2208 SP02 HF07 ECC Objects	ERDK913680

Table 2-12 MWO SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK913740	Innov MWO 2208 SP02 HF08 ECC Objects	ERDK913709
ERDK913753	Innov MWO 2208 SP02 HF09 ECC Objects	ERDK913740
ERDK913800	Innov MWO 2208 SP02 HF10 ECC Objects	ERDK913753
ERDK913828	Innov MWO 2208 SP02 HF11 ECC Objects	ERDK913800
ERDK913862	Innov MWO 2208 SP02 HF12 ECC Objects	ERDK913828
ERDK913899	Innov MWO 2208 SP02 HF13 ECC Objects	ERDK913862
ERDK913968	Innov MWO 2208 SP02 HF15 ECC Objects	ERDK913899
ERDK914066	Innov MWO 2208 SP02 HF17 ECC Objects	ERDK913968
ERDK914117	Innov MWO 2208 SP02 HF19 ECC Objects	ERDK914066
ERDK914141	Innov MWO 2208 SP02 HF20 ECC Objects	ERDK914117
ERDK914246	Innov MWO 2208 SP02 HF21 ECC Objects	ERDK914141
ERDK914248	Innov MWO 2208 SP02 HF22 ECC Objects	ERDK914246
ERDK914288	Innov MWO 2208 SP02 HF23 ECC Objects	ERDK914248
ERDK914320	Innov MWO 2208 SP02 HF24 ECC Objects	ERDK914288

Table 2-12 MWO SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK914385	Innov MWO 2208 SP02 HF25 ECC Objects	ERDK914320
ERDK914453	Innov MWO 2208 SP02 HF26 ECC Objects	ERDK914385
ERDK914455	Innov MWO 2208 SP02 HF27 ECC Objects	ERDK914453
ERDK914557	Innov MWO 2208 SP02 HF29 ECC Objects	ERDK914455
ERDK914555	Innov MWO 2208 SP02 HF30 ECC Objects	ERDK914557
ERDK914627	Innov MWO 2208 SP02 HF32 ECC Objects	ERDK914555
ERDK914695	Innov MWO 2208 SP02 HF33 ECC Objects	ERDK914627
ERDK914704	Innov MWO 2208 SP02 HF34 ECC Objects	ERDK914695
ERDK914887	Innov MWO 2208 SP02 HF35 ECC Objects	ERDK914704
ERDK914947	Innov MWO 2208 SP02 HF36 ECC Objects	ERDK914887
ERDK915054	Innov MWO 2208 SP02 HF37 ECC Objects	ERDK914947
ERDK915059	Innov MWO 2208 SP02 HF038 ECC Objects	ERDK915054
ERDK915107	Innov MWO 2208 SP02 HF039 ECC Objects	ERDK915059
ERDK915213	Innov MWO 2208 SP02 HF40 ECC Objects	ERDK915107

Table 2-12 MWO SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK915305	Innov MWO 2208 SP02 HF41 ECC Objects	ERDK915213
ERDK915310	Innov MWO 2208 SP02 HF42 ECC Objects	ERDK915305
ERDK915373	Innov MWO 2208 SP02 HF43 ECC Objects	ERDK915310
ERDK915410	Innov MWO 2208 SP02 HF44 ECC Objects	ERDK915373
ERDK915458	Innov MWO 2208 SP02 HF45 ECC Objects	ERDK915410
ERDK915531	Innov MWO 2208 SP02 HF46 ECC Objects	ERDK915458
ERDK915623	Innov MWO 2208 SP02 HF47 ECC Objects	ERDK915531
ERDK915649	Innov MWO 2208 SP02 HF48 ECC Objects	ERDK915623
ERDK915687	Innov MWO 2208 SP02 HF49 ECC Objects	ERDK915649
ERDK915815	Innov MWO 2208 SP02 HF50(2501.1) ECC Objects	ERDK915687
ERDK915819	Innov MWO 2208 SP02 2501.2 ECC Objects	ERDK915815
ERDK915895	Innov MWO 2208 SP02 2502.1 ECC Objects	ERDK915819
ERDK915960	Innov MWO 2208 SP02 2502.2 ECC Objects	ERDK915895
ERDK916104	Innov MWO 2502.3 ECC Ob- jects	ERDK915960

Table 2-12 MWO SAP® ECC Transports (continued)

Transport	Description	Dependency
ERDK916030	Innov MWO 2503.2 ECC Objects	ERDK916104
ERDK916063	Innov MWO 2503.3 ECC Objects	ERDK916030
ERDK916165	Innov MWO 2504.01 ECC Objects	ERDK916063
ERDK916180	Innov MWO 2505.01 ECC Objects	ERDK916165
ERDK916274	Innov MWO 2505.03 ECC Objects	ERDK916180
ERDK916373	Innov MWO 2506.01 ECC Objects	ERDK916274
ERDK916405	Innov MWO 2506.02 ECC Objects	ERDK916373
ERDK916401	Innov MWO 2508.01 ECC Objects	ERDK916405
ERDK916591	Innov MWO 2508.02 ECC Objects	ERDK916401
ERDK916599	Innov MWO 2509.01 ECC Objects	ERDK916591

Table 2-13 MWO SAP® Gateway Transports

Transport	Description	Dependency
NGTK910560	Innov MWO 2208 SP02 Gateway Objects	Import NG5K903797 before importing NGTK910560
NGTK910555	Innov mWO 2208 SP01 UI5 Application	NGTK910560
NGTK910564	Innov mWO 2208 SP02 HF01 Gateway Objects	NGTK910555

Table 2-13 MWO SAP® Gateway Transports (continued)

Transport	Description	Dependency
NGTK910570	Innov mWO 2208 SP02 HF01 UI5 Application	NGTK910564
NGTK910619	Innov mWO 2208 SP02 HF03 Gateway Objects	NGTK910570
NGTK910615	Innov mWO 2208 SP02 HF03 UI5 Application	NGTK910619
NGTK910626	Innov mWO 2208 SP02 HF04 Gateway Objects	NGTK910615
NGTK910621	Innov mWO 2208 SP02 HF04 UI5 Application	NGTK910626
NGTK910650	Innov mWO 2208 SP02 HF05 Gateway Objects	NGTK910621
NGTK910646	Innov mWO 2208 SP02 HF05 UI5 Application	NGTK910650
NGTK910665	Innov mWO 2208 SP02 HF06 Gateway Objects	NGTK910646
NGTK910668	Innov mWO 2208 SP02 HF06 UI5 Application	NGTK910665
NGTK910680	Innov mWO 2208 SP02 HF07 Gateway Objects	NGTK910668
NGTK910685	Innov mWO 2208 SP02 HF07 UI5 Application	NGTK910680
NGTK910703	Innov mWO 2208 SP02 HF08 Gateway Objects	NGTK910685
NGTK910712	Innov mWO 2208 SP02 HF09 Gateway Objects	NGTK910703
NGTK910710	Innov mWO 2208 SP02 HF09 UI5 Application	NGTK910712

Table 2-13 MWO SAP® Gateway Transports (continued)

Transport	Description	Dependency
NGTK910762	Innov mWO 2208 SP02 HF10 Gateway Objects	NGTK910710
NGTK910767	Innov mWO 2208 SP02 HF10 UI5 Application	NGTK910762
NGTK910790	Innov mWO 2208 SP02 HF11 Gateway Objects	NGTK910767
NGTK910793	Innov mWO 2208 SP02 HF11 UI5 Application	NGTK910790
NGTK910815	Innov mWO 2208 SP02 HF12 Gateway Objects	NGTK910793
NGTK910852	Innov mWO 2208 SP02 HF13 Gateway Objects	NGTK910815
NGTK910862	Innov mWO 2208 SP02 HF13 UI5 Application	NGTK910852
NGTK910928	Innov mWo 2208 SP02 Fiori Application	NGTK910862
NGTK910903	Innov mWO 2208 SP02 HF15 Gateway Objects	NGTK910928
NGTK910996	Innov mWo 2208 SP02 HF16 Fiori Application	NGTK910903
NGTK910988	Innov mWO 2208 SP02 HF17 Gateway Objects	NGTK910996
NGTK910990	Innov mWO 2208 SP02 HF17 UI5 Application	NGTK910988
NGTK911026	Innov mWo 2208 SP02 HF17 Fiori Application	NGTK910990
NGTK912132	Innov mWO 2208 SP02 HF19 Gateway Objects	NGTK911026

Table 2-13 MWO SAP® Gateway Transports (continued)

Transport	Description	Dependency
NGTK912163	Innov mWo 2208 SP02 HF19 Fiori Application	NGTK912132
NGTK912166	Innov mWO 2208 SP02 HF20 Gateway Objects	NGTK912163
NGTK912181	Innov mWO 2208 SP02 HF21 Gateway Objects	NGTK912166
NGTK912192	Innov mWO 2208 SP02 HF21 UI5 Application	NGTK912181
NGTK912147	Innov mWo 2208 SP02 HF21 Fiori Application	NGTK912192
NGTK912218	Innov mWO 2208 SP02 HF22 Gateway Objects	NGTK912147
NGTK912253	Innov mWO 2208 SP02 HF23 Gateway Objects	NGTK912218
NGTK912278	Innov mWO 2208 SP02 HF24 Gateway Objects	NGTK912253
NGTK912298	Innov mWO 2208 SP02 HF25 Gateway Objects	NGTK912278
NGTK912304	Innov mWO 2208 SP02 HF26 Gateway Objects	NGTK912298
NGTK912326	Innov mWO 2208 SP02 HF27 Gateway Objects	NGTK912304
NGTK912363	Innov mWO 2208 SP02 HF28 Gateway Objects	NGTK912326
NGTK912379	Innov mWO 2208 SP02 HF29 Gateway Objects	NGTK912363
NGTK912381	Innov mWO 2208 SP02 HF30 Gateway Objects	NGTK912379

Table 2-13 MWO SAP® Gateway Transports (continued)

Transport	Description	Dependency
NGTK912409	Innov mWO 2208 SP02 HF32 Gateway Objects	NGTK912381
NGTK912424	Innov mWO 2208 SP02 HF33 Gateway Objects	NGTK912409
NGTK912454	Innov mWO 2208 SP02 HF34 Gateway Objects	NGTK912424
NGTK912518	Innov mWO 2208 SP02 HF35 Gateway Objects	NGTK912454
NGTK912570	Innov mWO 2208 SP02 HF36 Gateway Objects	NGTK912518
NGTK912632	Innov mWO 2208 SP02 HF37 Gateway Objects	NGTK912570
NGTK912671	Innov mWO 2208 SP02 HF38 Gateway Objects	NGTK912632
NGTK912706	Innov mWO 2208 SP02 HF39 Gateway Objects	NGTK912671
NGTK912789	Innov mWO 2208 SP02 HF40 Gateway Objects	NGTK912706
NGTK912817	Innov mWO 2208 SP02 HF41 Gateway Objects	NGTK912789
NGTK912875	Innov mWO 2208 SP02 HF42 Gateway Objects	NGTK912817
NGTK912905	Innov mWO 2208 SP02 HF43 Gateway Objects	NGTK912875
NGTK912936	Innov mWO 2208 SP02 HF44 Gateway Objects	NGTK912905
NGTK912970	Innov mWO 2208 SP02 HF45 Gateway Objects	NGTK912936

Table 2-13 MWO SAP® Gateway Transports (continued)

Transport	Description	Dependency
NGTK913043	Innov mWO 2208 SP02 HF46 Gateway Objects	NGTK912970
NGTK913093	Innov mWO 2208 SP02 HF47 Gateway Objects	NGTK913043
NGTK913091	Innov MWO 2208 SP02 HF46.2 Gateway Objects	NGTK913093
NGTK913114	Innov mWO 2208 SP02 HF48 Gateway Objects	NGTK913091
NGTK913143	Innov mWO 2208 SP02 HF49 Gateway Objects	NGTK913114
NGTK913186	Innov mWO 2501.1 Gateway Objects	NGTK913143
NGTK913221	Innov mWO 2501.2 Gateway Objects	NGTK913186
NGTK913276	Innov mWO 2502.1 Gateway Objects	NGTK913221
NGTK913295	Innov mWO 2502.3 Gateway Objects	NGTK913276
NGTK913344	Innov mWO 2503.3 Gateway Objects	NGTK913295
NGTK913380	Innov mWO 2504.01 Gateway Objects	NGTK913344
NGTK913436	Innov mWO 2505.01 Gateway Objects	NGTK913380
NGTK913442	Innov mWO 2505.03 Gateway Objects	NGTK913436
NGTK913464	Innov mWO 2506.01 Gateway Objects	NGTK913442

Table 2-13 MWO SAP® Gateway Transports (continued)

Transport	Description	Dependency
NGTK913462	Innov mWO 2506.02 Gateway Objects	NGTK913464
NGTK913529	Innov mWO 2508.01 Gateway Objects	NGTK913462
NGTK913591	Innov mWO 2508.02 Gateway Objects	NGTK913529
NGTK913613	Innov mWO 2509.01 Gateway Objects	NGTK913591
NGTK913618	Innov mWO 2509.01.01 Gate-way Objects	NGTK913613

2.5.1. Activate RACE™ & mWorkOrder OData Services

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

To activate the RACE™ OData Service:

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

A message appears notifying the package selection appears.

Figure 2-4 Activate and Maintain Services

Activate and Maintain Services									
Service Catalog									
Type	Technical Service Name	Service Description	External Service Name	Namespace	OAUT.	Soft State	Status	Is SAP Ser	
BEP	ZPAGE_BUILDER_CUST	1 Pagebuilder - Customizing level	PAGE_BUILDER_CUST	/UIZ/	✓				
BEP	ZPAGE_BUILDER_PERS	1 Pagebuilder - Personalization level	PAGE_BUILDER_PERS	/UIZ/	✓				
BEP	ZPAGEBUILDER_SERVICE_V_0_1	1 Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBUILDER_SERVICE_V_0_1	/UIZ/	✓				
BEP	ZPP_PRODOPS_CONFIRM_SRV	1 Confirm Production Order Operation	PP_PRODOPS_CONFIRM_SRV	/UIZ/	✓				
BEP	ZQUICKVIEW	1 Quickview Service	QUICKVIEW	/UIZ/	✓				
BEP	/INVCE/RACE_SRV	1 Global Extensions	RACE_SRV	/INVCE/	✓				
BEP	ZRMITSAMPLEFLIGHT	1 OData Channel - Reference SFlight Data Provider	RMITSAMPLEFLIGHT	/RMFND/	✓				
BEP	ZRMITSAMPLEFLIGHT_2	1 OData Channel - Reference SFlight Data Provider	RMITSAMPLEFLIGHT_2	/RMFND/	✓				
BEP	RSOA_ODATA_SRV	1 Tlogo and Bookmark access via Odata	RSOA_ODATA_SRV		✓		Not Supported		
BEP	S_EPM_SADL_GW_DEV_SCEN_RO_SRV	1 EPM: SADL-based GW-Service "NW 2013 Dev. Sce	S_EPM_SADL_GW_DEV_SCEN_RO_SRV		✓				
BEP	ZSAMPLE_EPM_EMPLOYEE_LIST	1 Sample employee list service based on EPM	SAMPLE_EPM_EMPLOYEE_LIST	/UIZ/	✓				
BEP	ZSAMPLE_EPM_POWL_CACHED	1 Sample POWL for APPLID EPM_POWL (customizn	SAMPLE_EPM_POWL_CACHED	/UIZ/	✓				
BEP	ZSAMPLE_EPM_POWL_CODED	1 Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE_EPM_POWL_CODED	/UIZ/	✓				
BEP	ZSAMPLE_EPM_POWL_CUST	1 Sample POWL for APPLID EPM_POWL (customizn	SAMPLE_EPM_POWL_CUST	/UIZ/	✓				
BEP	ZSAMPLE_POWL_SLIGHT_ALL	1 Sample flight service based on POWL framework	SAMPLE_POWL_SLIGHT_ALL	/UIZ/	✓				

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

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

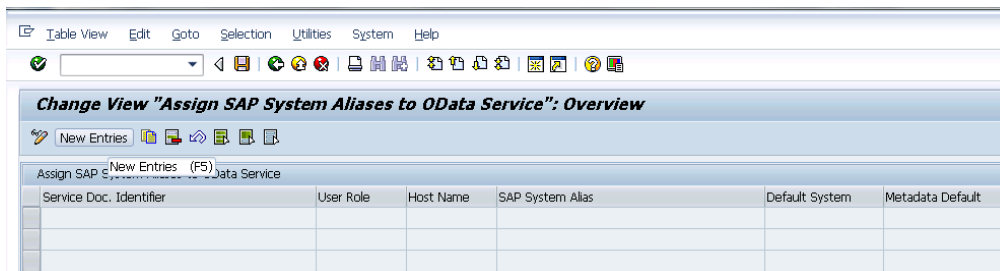
Figure 2-5 Service Status

Activate and Maintain Services									
Service Catalog									
Type	Technical Service Name	Service Description	External Service Name	Namespace	OAUT.	Soft State	Status	Is SAP Service	
BEP	ZPAGEBUILDER_SERVICE_V_0_1	1 Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBUILDER_SERVICE_V_0_1	/UIZ/	✓				
BEP	ZPP_PRODOPS_CONFIRM_SRV	1 Confirm Production Order Operation	PP_PRODOPS_CONFIRM_SRV	/UIZ/	✓				
BEP	ZQUICKVIEW	1 Quickview Service	QUICKVIEW	/UIZ/	✓				
BEP	/INVCE/RACE_SRV	1 Global Extensions	RACE_SRV	/INVCE/	✓				
BEP	ZRMITSAMPLEFLIGHT	1 OData Channel - Reference SFlight Data Provider	RMITSAMPLEFLIGHT	/RMFND/	✓				
BEP	ZRMITSAMPLEFLIGHT_2	1 OData Channel - Reference SFlight Data Provider	RMITSAMPLEFLIGHT_2	/RMFND/	✓				
BEP	RSOA_ODATA_SRV	1 Tlogo and Bookmark access via Odata	RSOA_ODATA_SRV		✓		Not Supported		
BEP	S_EPM_SADL_GW_DEV_SCEN_RO_SRV	1 EPM: SADL-based GW-Service "NW 2013 Dev. Sce	S_EPM_SADL_GW_DEV_SCEN_RO_SRV		✓				
BEP	ZSAMPLE_EPM_EMPLOYEE_LIST	1 Sample employee list service based on EPM	SAMPLE_EPM_EMPLOYEE_LIST	/UIZ/	✓				
BEP	ZSAMPLE_EPM_POWL_CACHED	1 Sample POWL for APPLID EPM_POWL (customizn	SAMPLE_EPM_POWL_CACHED	/UIZ/	✓				
BEP	ZSAMPLE_EPM_POWL_CODED	1 Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE_EPM_POWL_CODED	/UIZ/	✓				
BEP	ZSAMPLE_EPM_POWL_CUST	1 Sample POWL for APPLID EPM_POWL (customizn	SAMPLE_EPM_POWL_CUST	/UIZ/	✓				
BEP	ZSAMPLE_POWL_SLIGHT_ALL	1 Sample flight service based on POWL framework	SAMPLE_POWL_SLIGHT_ALL	/UIZ/	✓				
BEP	SEPM_HANA_EXT_PAL_ODATA_SRV	1 SEPM_HANA_EXT_PAL_ODATA	SEPM_HANA_EXT_PAL_ODATA_SRV		✓		Not Supported		
BEP	ZSM_CATALOG_SRV	1 Social Media Remote Catalog OData Service	SM_CATALOG_SRV		✓				

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

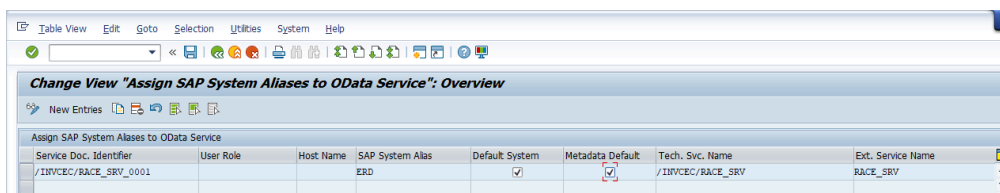
7. Click **New Entries**.

Figure 2-6 New Entries for System Alias



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

Figure 2-7 Assign SAP System Alias to Service



9. For the below mWorkOrder services, follow the above steps (1-8).

Service	Technical Service Name
Work Order	/INVMWO/MWORKORDER_SRV
Equipment	/INVMWO/MWOEQUIPMENT_SRV
Functional Location	/INVMWO/MWOFUNLOCATION_SRV
Attachments	/INVMWO/MWOATTACHMENTS _SRV

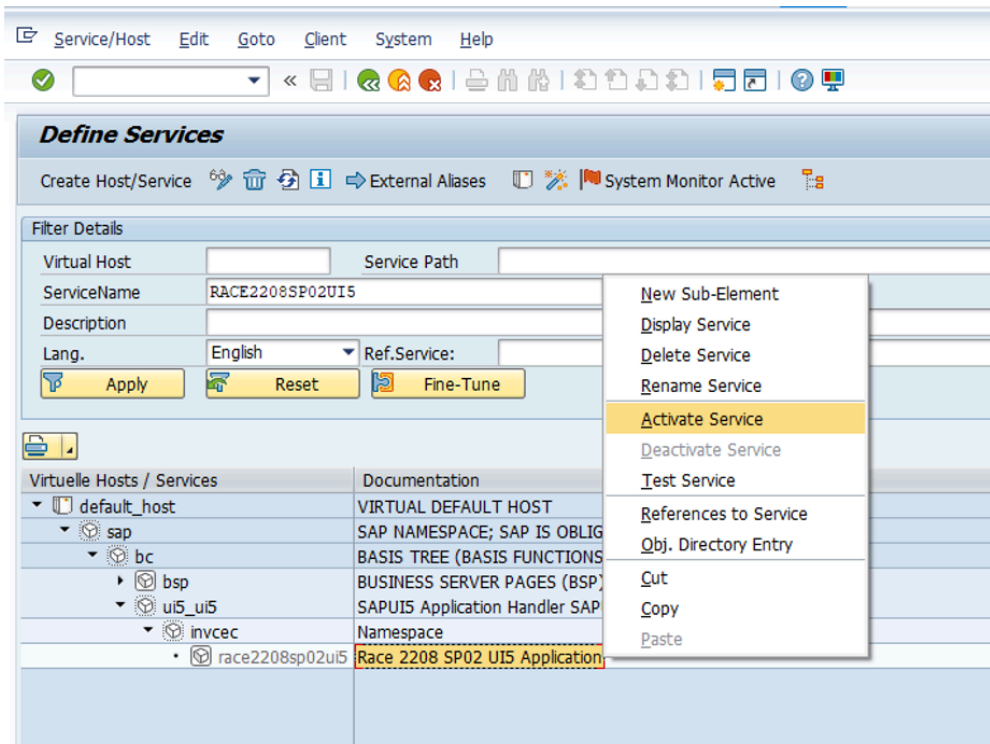
2.5.2. Activate UI5 Service

Activate UI5 Service once you have activated RACE™ and mWorkOrder OData Services.

To activate UI5 Service:

1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/ui5_ui5/ invcec/ race2208sp02ui5**.
2. Right-click **RACE 2208 SP02 UI5** and click **Activate Service**.

Figure 2-8 Activate RACE BSP Service



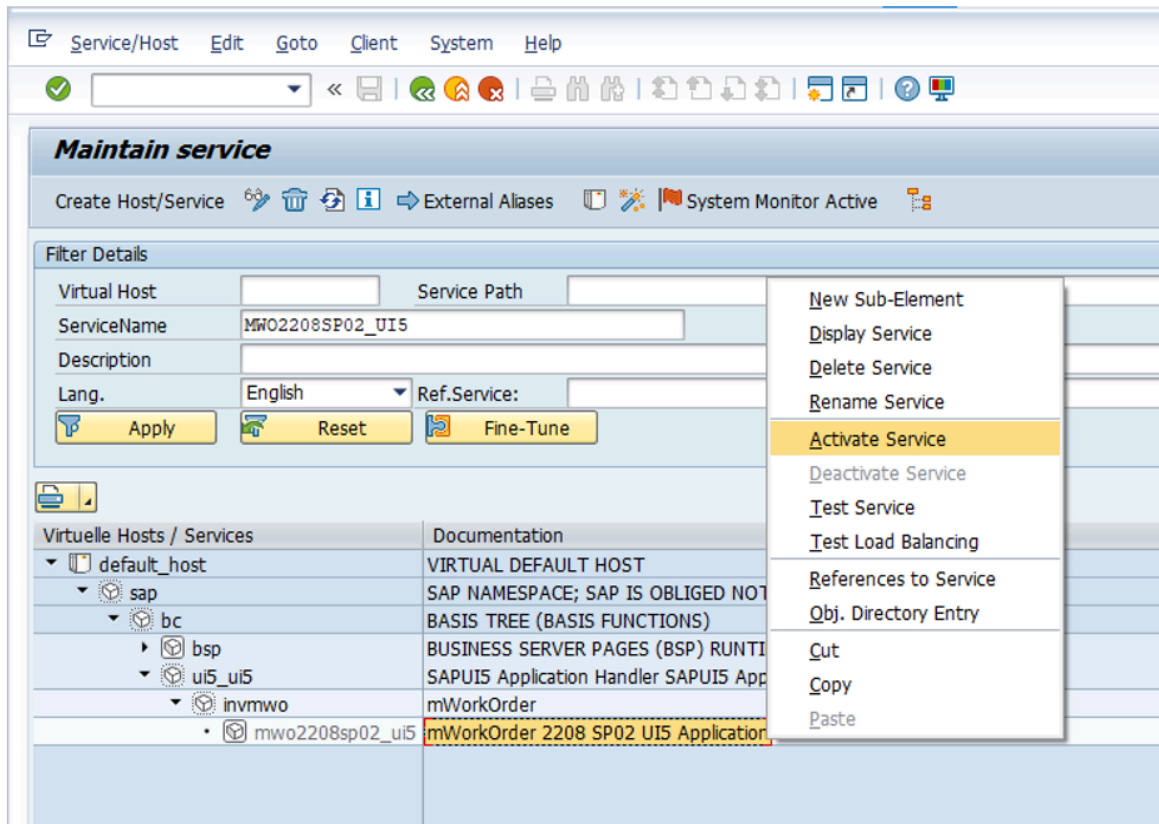
3. Click **Yes**.

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/race2208sp02ui5/index.html?sap-client=100***



Note:

To activate the mWorkOrder UI5 service, follow the above steps (1-3).



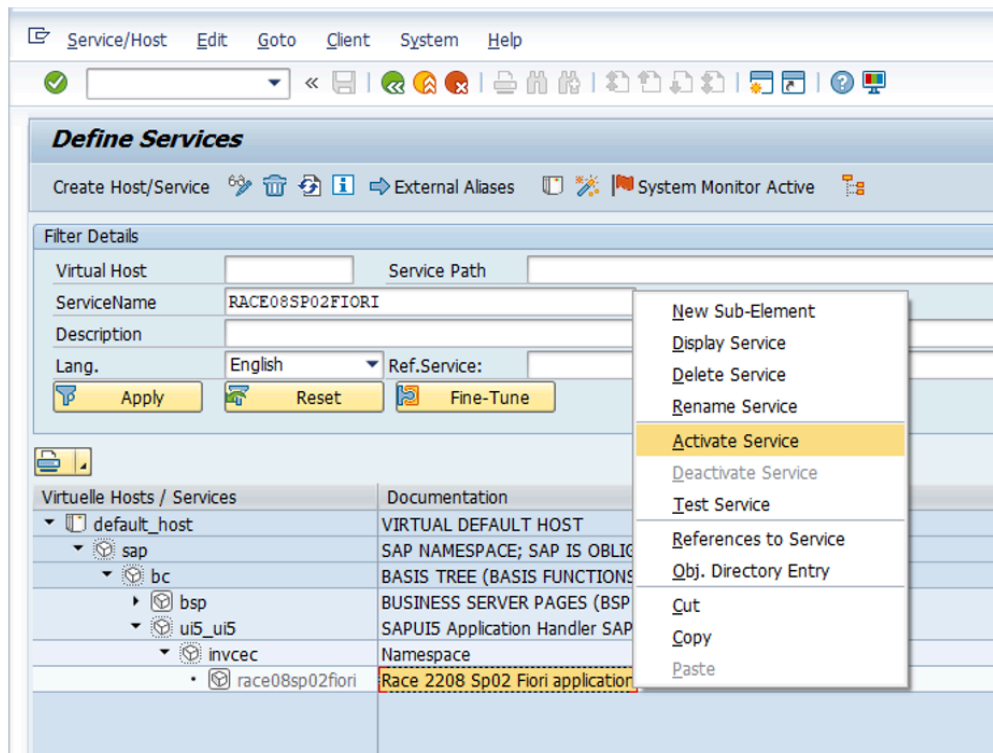
2.5.3. Activate FIORI Service

Activate FIORI service after you have activated UI5 service.

To activate FIORI Service:

1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/ui5_ui5/invcec/race08sp02fiori**.
2. Right-click **RACE 2208 SP02 FIORI** and click **Activate Service**.

Figure 2-9 Activate RACE FIORI Service

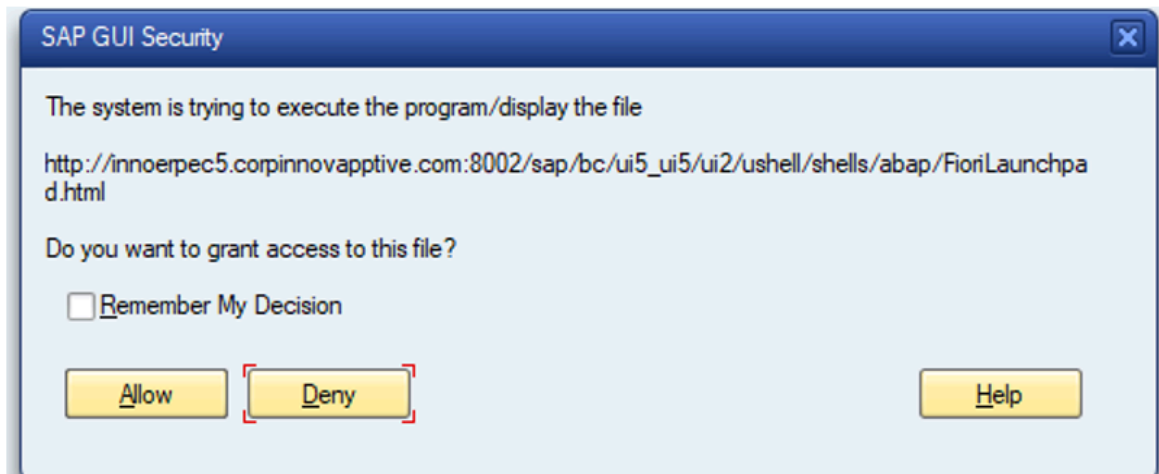


3. Click **Yes**.

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/race08sp02fiori/index.html?sap-client=100`

4. Click **Allow**.



5. The steps to assign the catalog or group to the role are as follows:
6. On the login page, provide the credentials to login.

A screenshot of the SAP login page. It has a dark blue background. In the center, there are three light blue input fields. The first field is labeled 'User'. The second field is labeled 'Password'. The third field is labeled 'Language' and contains the text 'EN - English' with a dropdown arrow on the right side.

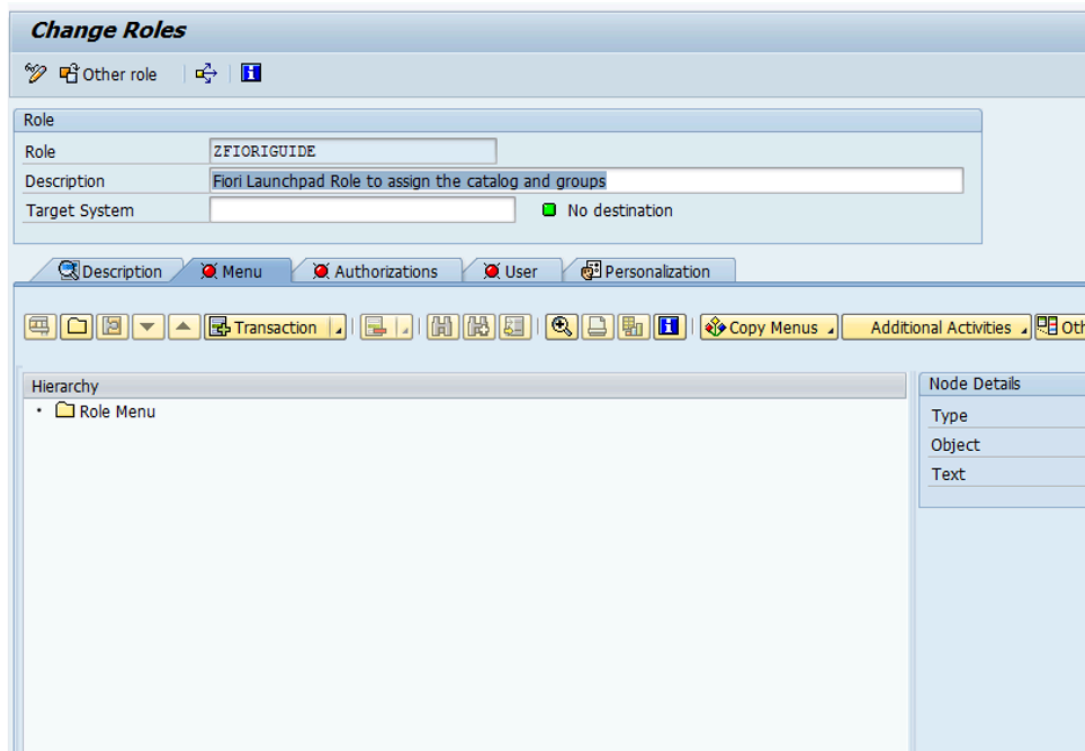
Note:

The logged in user can see only assigned application tiles.

Our team will share Tile & catalog transports along with products add-ons.

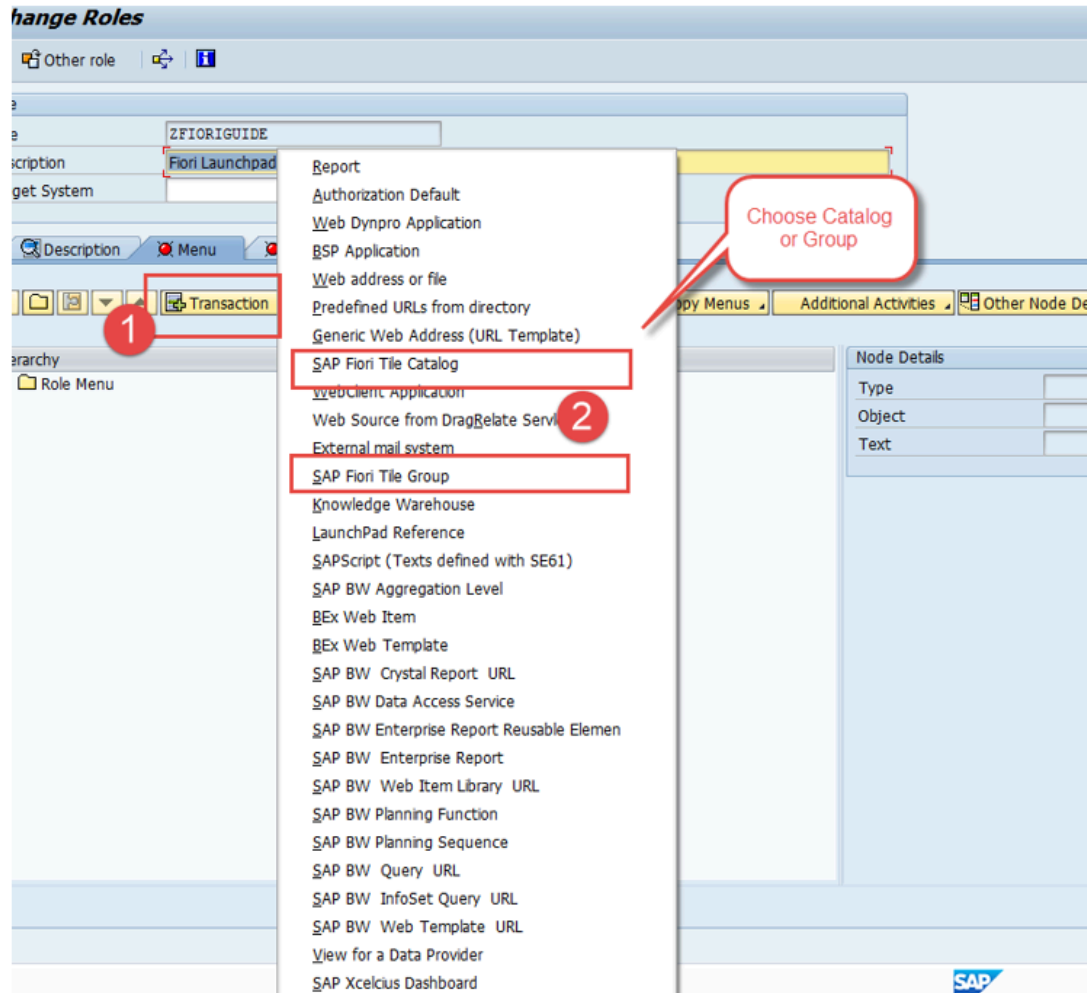
7. The steps to assign the catalog or group to the role are as follows:

- a. Log on to Gateway SAP system and call the transaction PFCG.

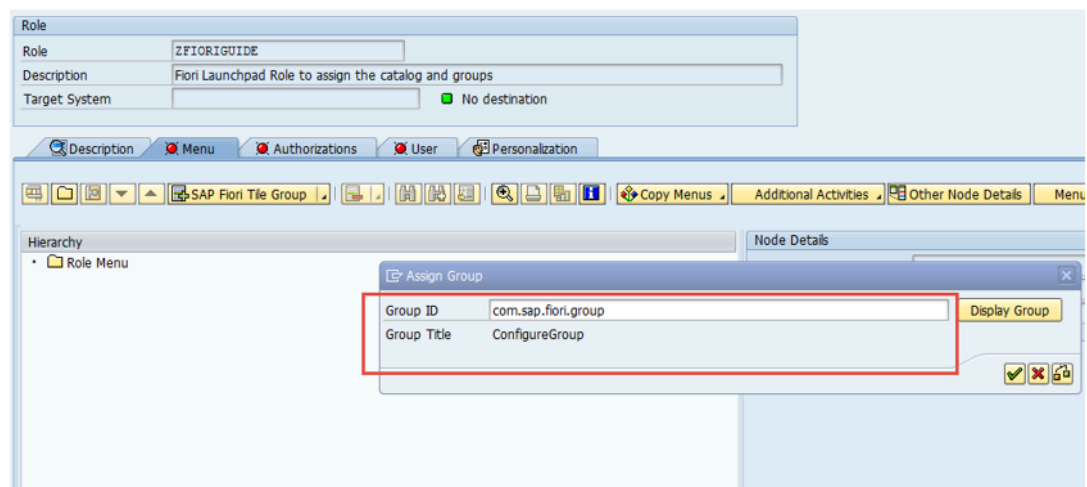


- b. In the Role menu, click on the button with plus symbol and select the option to either add a tile catalog or tile group.

| 2 - Install mWorkOrder



c. Provide the catalog / group name and submit.

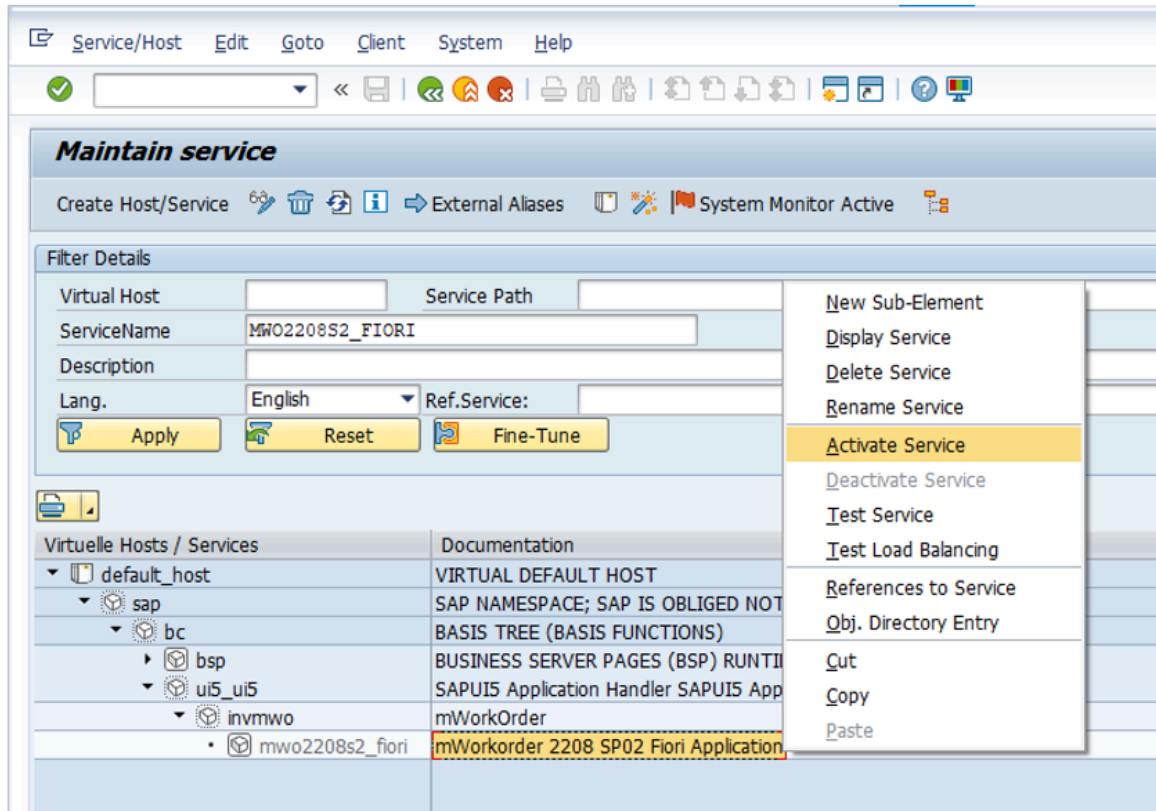


d. Save the changes to the role.



Note:

To activate the mWorkOrder FIORI service, follow the above steps (1-5).

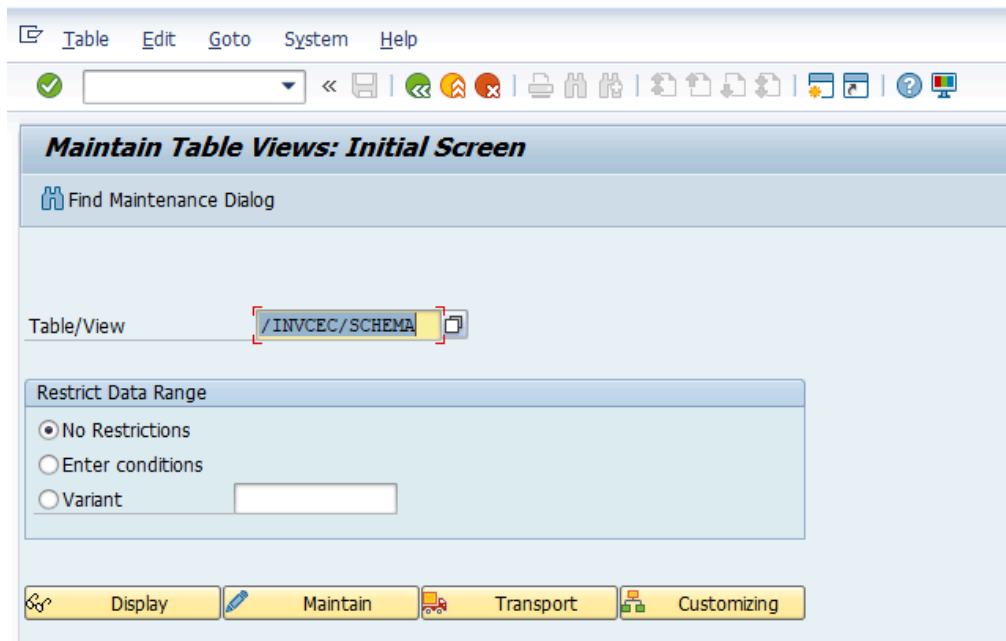


3. Check Schema Change Indicator

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

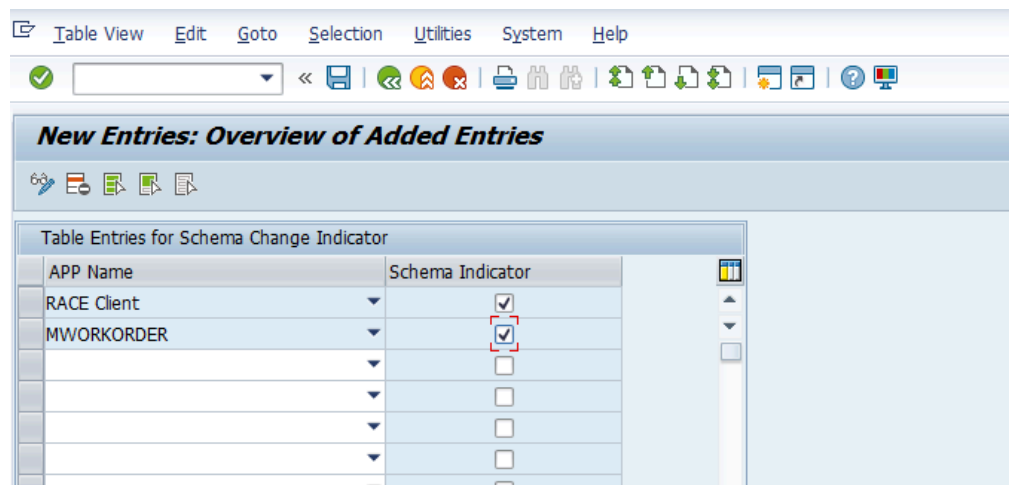
1. Login to SAP Gateway system.
2. Go to **tcode – SM30**.

Figure 3-1 SM30



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

Figure 3-2 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.

Table 3-1 Schema Details

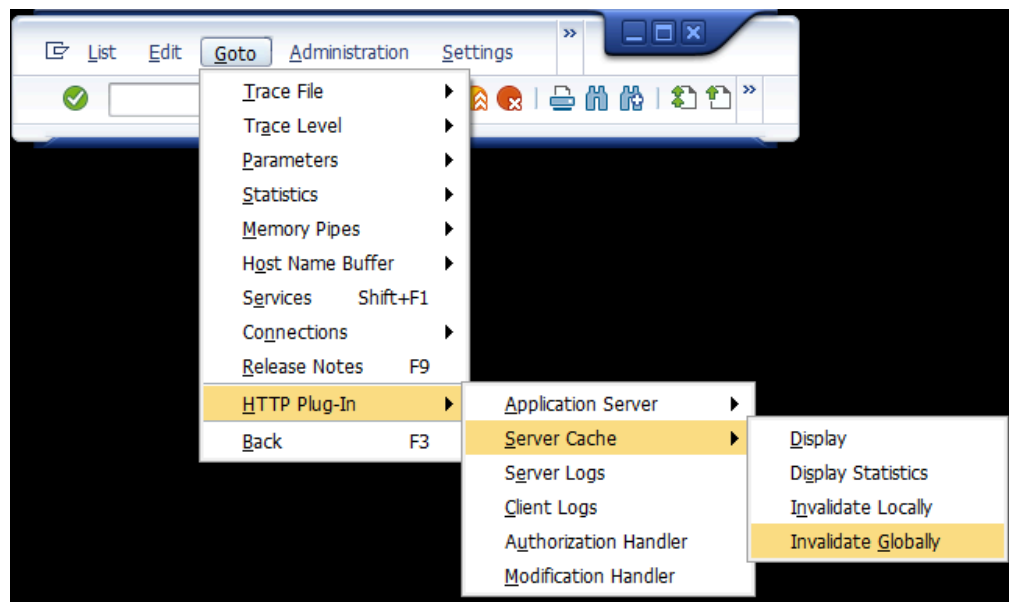
Base URL	Old Schema	New Schema
/INVCEC/RACE_SRV	/INVCEC/RACE_SRV	RACECLIENT
/INVMWO/MWORKORDER_ SRV	/INVMWO/MWORKORDER_ SRV	MWORKORDER
/INVMWO/MWOEQUIPMEN- T_SRV	/INVMWO/MWOEQUIPMEN- T_SRV	MWOEQUIPMENT
/INVMWO/MWOFUNLO- CATION_SRV	/INVMWO/MWOFUNLO- CATION_SRV	MWOFUNLOCATION
/INVMWO/WOATTACHMEN- TS_SRV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

4. 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 4-1 smicm transaction



8. Click **Yes**.

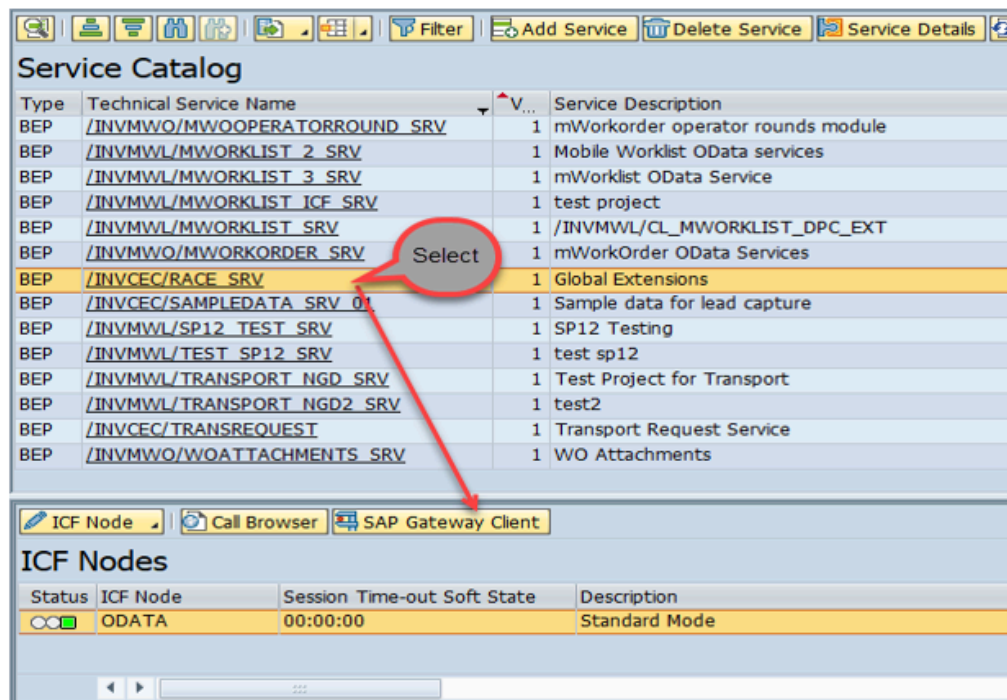
Validate SAP Gateway Cache Cleanup

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**.

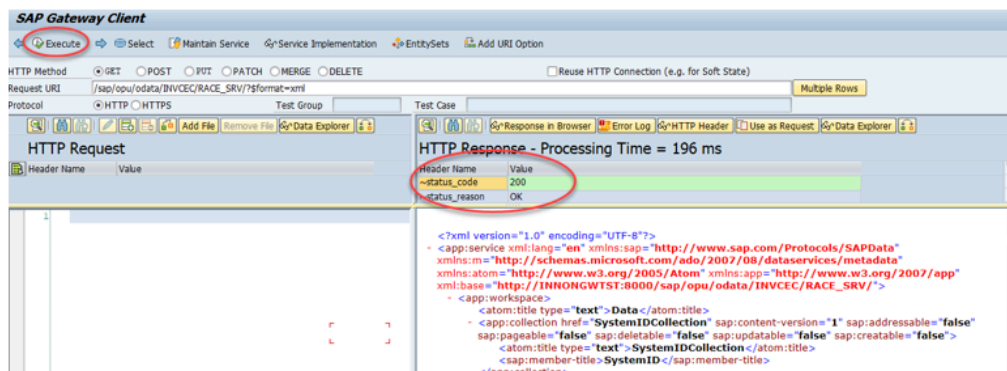
Figure 4-2 Validate Clean up of each service



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

You should see the value 200 in green.

Figure 4-3 Validate Clean up

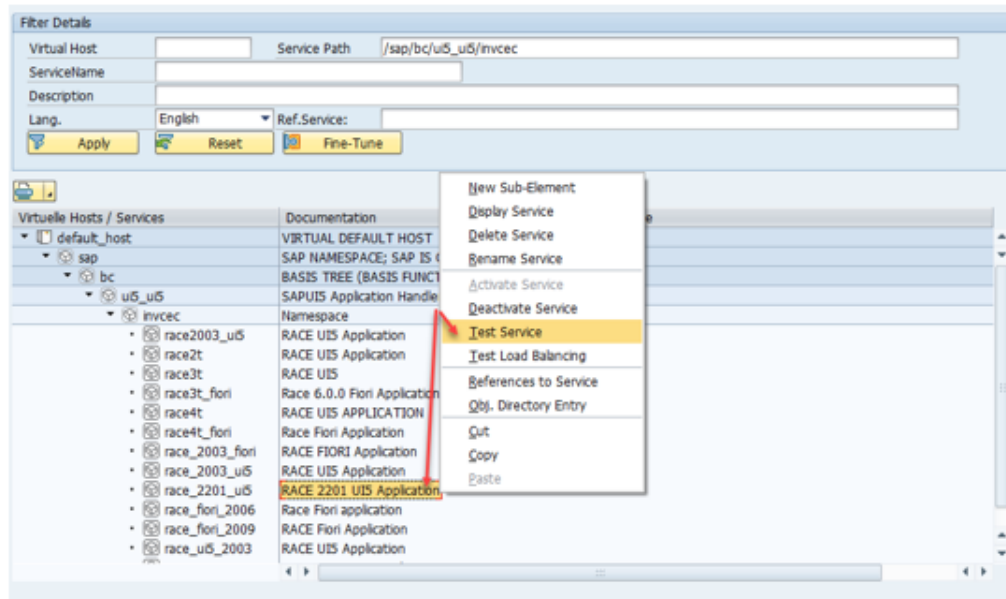


5. Navigate to t-code SICF: **/sap/bc/ui5_ui5/invcec/**

In the following steps you will validate RACE UI5 Application

6. Click **Test Service**.

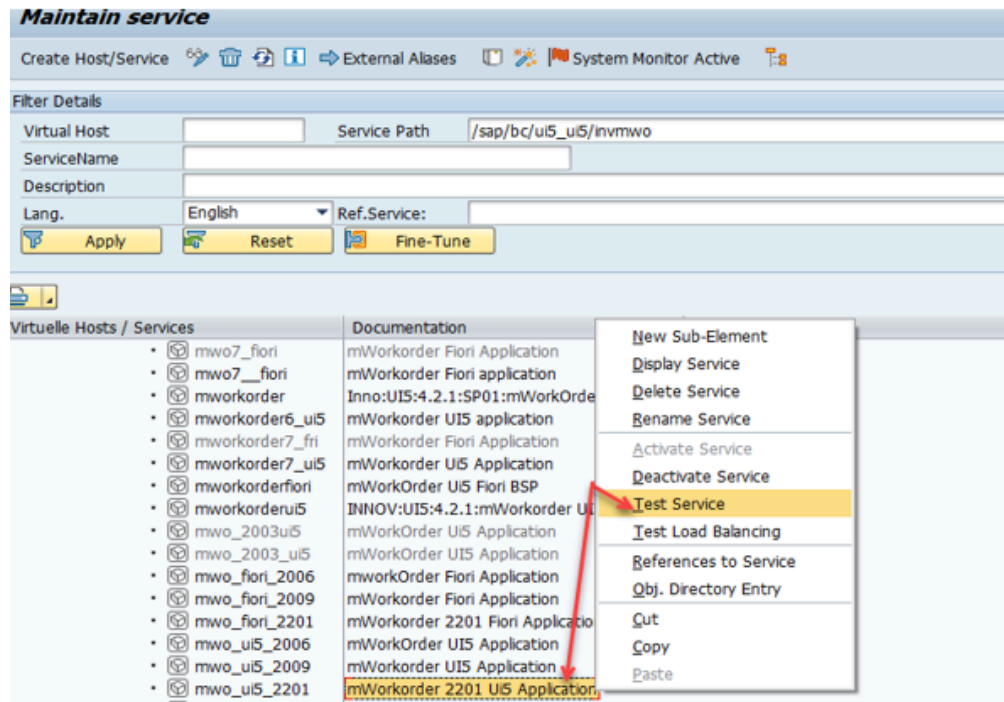
Figure 4-4 Validate Clean up



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 4-5 Validate Clean up



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

5. 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.

5.1. 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

5.2. 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 5-1 Screens based on Document Type - Notifications

Display View "Screen configuration based on Document Types": Overview



Module Name	Document Type	Screen ID	Description	Screen Name	Offline Sync
NOTIFICATION	M1	NO_AC	Corrective Notification	Notification Activities	True
NOTIFICATION	M1	NO_AI	Corrective Notification	Notification Attachments	True
NOTIFICATION	M1	NO_CA	Corrective Notification	Notification Causes	True
NOTIFICATION	M1	NO_GIS	Notification GIS		True
NOTIFICATION	M1	NO_HD	Corrective Notification	Notification Header	True
NOTIFICATION	M1	NO_HI	Corrective Notification	Notification History	True
NOTIFICATION	M1	NO_IT	Corrective Notification	Notification Items	True
NOTIFICATION	M1	NO_TS	Corrective Notification	Notification Tasks	True
NOTIFICATION	M2	NO_AC	Breakdown Notificati	Notification Activities	True
NOTIFICATION	M2	NO_AI	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_AI	Corrective Notification	Notification Attachments	True
NOTIFICATION	S1	NO_CA	Corrective Notification	Notification Causes	True
NOTIFICATION	S1	NO_HD	Corrective Notification	Notification Header	True

Figure 5-2 Screens based on Document Type - Work Orders

Display View "Screen configuration based on Document Types": Overview



Module Name	Document Type	Screen ID	Description	Screen Name	Offline Sync
WORKORDER	PM01	WOHIER	Hierarchy	Hierarchy	True
WORKORDER	PM01	WO_AI	Maintenance Order	Work Order Attachments	True
WORKORDER	PM01	WO_CO	Maintenance Order	Work Order Components	True
WORKORDER	PM01	WO_GIS	Work Order GIS		True
WORKORDER	PM01	WO_HD	Maintenance Order	Work Order Header	True
WORKORDER	PM01	WO_HI	Maintenance Order	Work Order History	True
WORKORDER	PM01	WO_OP	Maintenance Order	Work Order Operations	True
WORKORDER	PM01	WO_PL	Maintenance Order	Work Order Planning view	True
WORKORDER	PM01	WO_SG	Work Order Form	Work Order Form	True
WORKORDER	PM02	WOHIER	Hierarchy	Hierarchy	True
WORKORDER	PM02	WO_AI	Maintenance Order	Work Order Attachments	True
WORKORDER	PM02	WO_CO	Maintenance Order	Work Order Components	True
WORKORDER	PM02	WO_HD	Maintenance Order	Work Order Header	True
WORKORDER	PM02	WO_HI	Maintenance Order	Work Order History	True
WORKORDER	PM02	WO_OP	Maintenance Order	Work Order Operations	True
WORKORDER	PM02	WO_PL	Maintenance Order	Work Order Planning View	True
WORKORDER	PM06	WOHIER	Hierarchy	Hierarchy	True
WORKORDER	PM06	WO_AI	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 5-1 Screen attributes

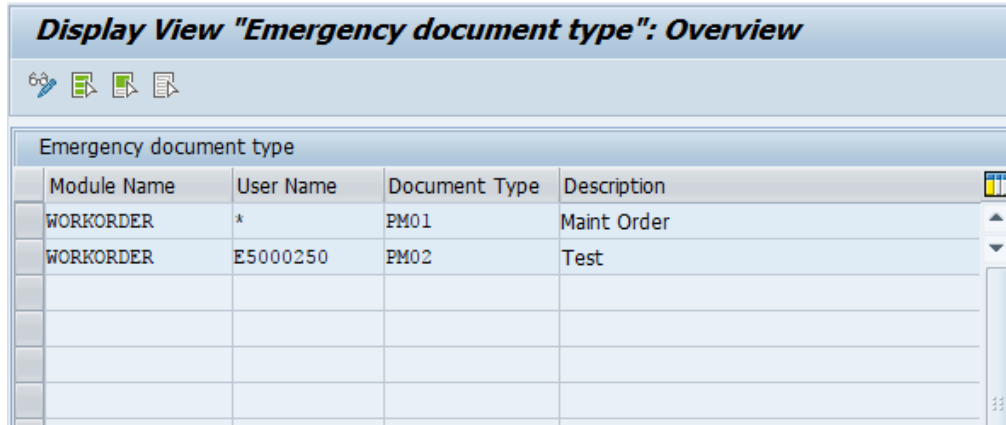
Field	Description
Module Name	Module in the mobile app like Notification or Work Order for which the Document Type is configured.
Document Type	Document Type (Work Order Type/Notification Type) for use on the mWorkOrder Mobile App.
Screen ID	Unique ID of the screen for the Document Type .
Description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

5.3. 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 5-3 Emergency Document Type



Emergency document type			
Module Name	User Name	Document Type	Description
WORKORDER	*	PM01	Maint Order
WORKORDER	E5000250	PM02	Test

Table 5-2 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 Document Type is available to all the users.
Document Type	Indicates the Document Type like Work Order Type.
Description	Description of the Document Type.

5.4. 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 5-4 SM30

Maintain Table Views: Initial Screen

Find Maintenance Dialog

Table/View: /INVMWO/MPLIST

Restrict Data Range

☒ No Restrictions
☐ Enter conditions
☐ Variant

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.

Figure 5-5 Measurement Reading Lists Assignment

Change View "Measurement Reading Lists Assignment": Overview

New Entries

Entry list	Reading take...	Description
116	WLTEST1	
117	WLTEST1	
118	WLTEST1	
120	WLTEST1	
121	WLTEST1	
122	WLTEST1	
125	MWORKORDER	
125	MWORKORDER2	
125	WLTEST1	
126	KEVINK	
126	MWORKORDER	
126	MWORKORDER2	
127	MWORKORDER	
127	MWORKORDER2	
127	WLTEST1	
128	MWORKORDER	

5.5. 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 5-6 Priority Color

Display View "Priority Colour": Overview				
Priority Colour				
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	A	FFA500	
APP01	PRIOK	B	DC5F61	
APP01	PRIOK	C	6F7BBE	
APP01	PRIOK	D	619DCF	
APP01	PRIOK	E	00A797	
APP01	PRIOK	F	FFA500	
APP01	PRIOK	Z	B0BEC5	
APP02	IPHAS	NOCO	B0BEC5	
APP02	IPHAS	NOPR	6DB580	
APP02	IPHAS	OSNO	E8C86E	
APP02	PRIOK	1	4F5EB0	

Table 5-3 Priority and System Status configuration attributes

Field	Description
App ID	Unique application ID to identify the module where the priority color coding is configured.
Key	Standard SAP field (Priority/Status) key to configure color coding.

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

5.6. Configure Work Order Numbers Color Coding

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

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

Figure 5-7 Work Order Color Coding

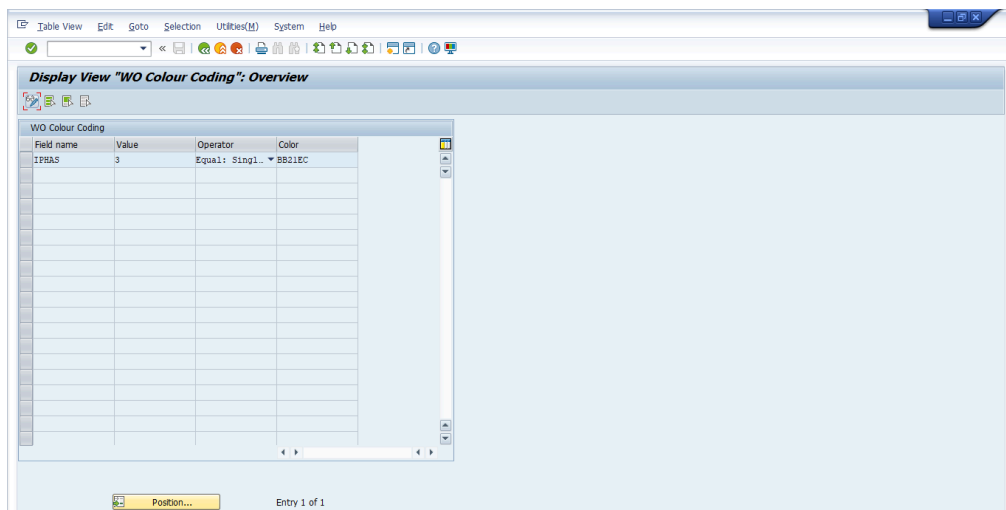


Table 5-4 Work Order Color Coding configuration attributes

Field	Description
Field Name	Work Order field key.

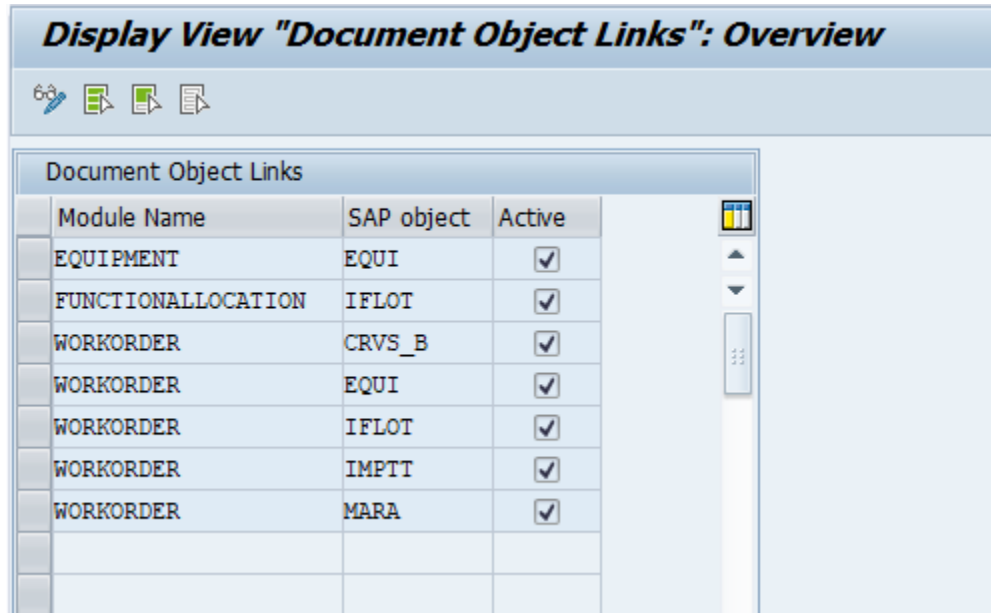
Field	Description
Value	Value of the field to be compared.
Operator	Formula (<, >, =, ≥, ≤)
Color	This field allows you to enter desired color coding for Work Order Numbers. Use the HTML color codes to define the Work Order Number colors.

5.7. 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:

Figure 5-8 DMS Document Object Links



Module Name	SAP object	Active
EQUIPMENT	EQUI	☒
FUNCTIONALLOCATION	IFLOT	☒
WORKORDER	CRVS_B	☒
WORKORDER	EQUI	☒
WORKORDER	IFLOT	☒
WORKORDER	IMPTT	☒
WORKORDER	MARA	☒

Table 5-5 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.

5.8. 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 5-9 Equipment Selection Criteria

Equipment List			
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**

Figure 5-10 Equipment Hierarchy table

Data Browser: Table /INVMWO/EQ_HIERA Select Entries											31
EQUNR	EQTX	HEQUI	HEQUI_TXT	MATNR	MAKTX	MENGE	MEINS	FLAG	LA_FLAG	TPLNR	SNO
10008892		10000470				0,000					1
10008895						0,000		X	X	1000-100-AB-02	1
10008897						0,000		X		CF1-A309-0026	1
10009900						0,000		X		CF1-A309-0027	1
10009901						0,000		X		CF1-A309-0028	1
10009902						0,000		X		1000-101-AB-07	1
10009904						0,000		X		1000-100-AB-11	1
10009905						0,000		X		1000-100-AB-11	1
10009906		10003557				0,000					1
10009907						0,000		X	X	1000-100-AB-13	1
10009908		10009907				0,000			X		1
10009909						0,000		X	X	1000-100-AB-14	1
10009910						0,000		X		CF1-A309-0029	1
10009911						0,000		X		CF1-A309-0030	1
10009912						0,000		X	X	1000-100-AB-19	1
10009915						0,000		X		2108-AUT	1
10009918						0,000		X		CF1-A309-0031	1
10009919						0,000		X		CF1-A309-0032	1
10009920						0,000		X		CF1-A309-0033	1
10009921						0,000		X		CF1-A309-0034	1
10009922						0,000		X		CF1-A309-0035	1
10009923						0,000		X		CF1-A309-0036	1
10009924						0,000		X		CF1-A309-0037	1
10009925						0,000		X		CF1-A309-0038	1
10009927						0,000		X		CF1-A309-0039	1
10011273						0,000		X		CF1-A309-0041	1

4. In SAP ECC, run T-Code **/n/INVMWO/FL_STG**.
5. Enter selection criteria and execute.

Figure 5-11 Functional Location Selection Criteria

Functional Location Expand for Staging Table



Functional Location		to		
Description of functional lo		to		
Functional location category		to		
Main Work Center	MECHANIK	to		
Type of Technical Object		to		
Status		to		
Created on		to		
Created by		to		
Maintenance Plant	1000	to		
Location		to		
Plant Section	100	to		
Work Center		to		
ABC indicator		to		
Sort field		to		
Business Area	1000	to		
Cost Center		to		
Planning plant	1000	to		
Planner group		to		
Main Asset Number		to		
WBS Element		to		
Construction type		to		
Authorization group		to		

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

Figure 5-12 Functional Location table

Data Browser: Table /INVMWO/FL_IFLO Select Entries 89

TPLN	PLTX	TPKZ	FLTP	IWERK	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 Serve
2108-BLK	Bulk Storage	A		1000	100						ELEKTRIK		
2108-BLK-CH	Bulk Chemical Storage1	A											Automation serve
DL-EH	Primary Substation EHALLANDALE 1	WD101		1000									
DL-EH-01	Sub EHALLANDALE - Feeder EHALL 1	WD101		1000									
DL-EH-01-S01	THE DIPLOMAT 1	WD101		1000									
DL-EH-01-S02	THE DIPLOMAT 2	WD101		1000									
DL-EH-01-S03	THE DIPLOMAT 3	WD101		1000		103					ITSERV		
DL-EH-01-S04	THE DIPLOMAT 4	WD101		1000									
DL-EH-01-S05	THE DIPLOMAT 5	WD101		1000									
DL-EH-01-S06	THE DIPLOMAT 6	WD101		1000									
DL-EH-01-S07	THE DIPLOMAT 7	WD101		1000									
DL-EH-01-S08	THE DIPLOMAT GOLF RESORT	WD101		1000									
DL-EH-02	Sub EHALLANDALE - Feeder EHALL 2	WD101		1000	100						MECHANIK		tel
DL-EH-02-P01	PS3345	WD101		1000	100						MECHANIK		
DL-EH-02-P02	PS3346	WD101		1000	100						MECHANIK		
DL-EH-02-P03	PS3347	WD101		1000	100						MECHANIK		
DL-EH-02-P04	PS3348	WD101		1000	100						MECHANIK		
DL-EH-02-P05	PS3349	WD101		1000	100						MECHANIK		



Note:

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 5-6 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.

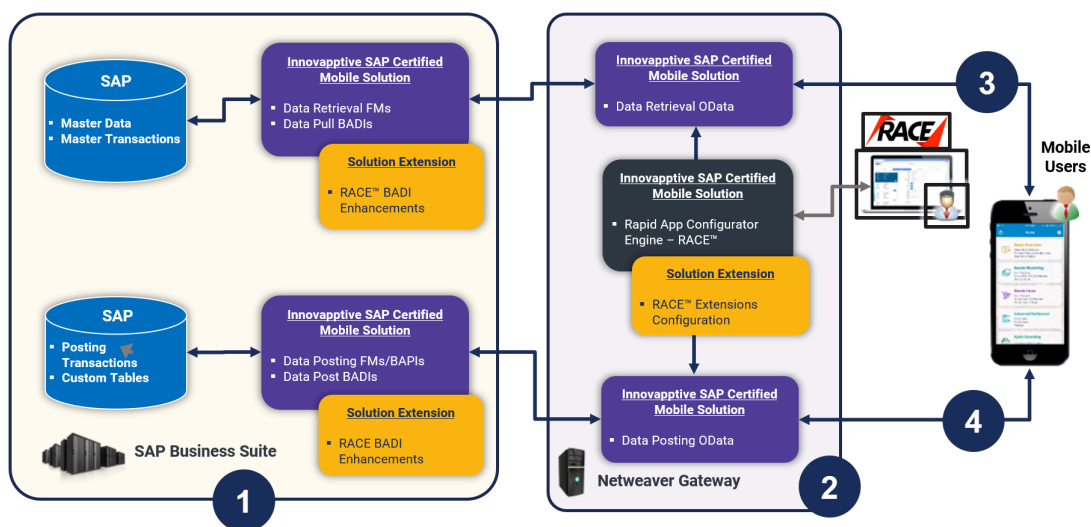
6. Configure RACE™ for mWorkOrder

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 6-1 RACE™ Architecture



Deployment ecosystem consists of the following:

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

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

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

3. **Native App Client + Desktop Web App:** Application front-end solutions are offered on 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

6.1. 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.

6.2. 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™* section in the *Configure mWorkOrder using RACE™* document.

7. 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.

Table 7-1 SAP Transactions and Tables

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	

8. Create User Groups

Perform the following steps to create user groups (for user persona) in the client box and assign them to respective users.

1. Login to the ECC system.
2. Go to **tcode – SUGR**.
3. Create the following user groups:
 - Planner - /INVMWO/PLAN
 - Supervisor - /INVMWO/SUPR
 - Technician - /INVMWO/TECH
 - Operator - /INVMWO/OPER



Note:

You can create user groups as you require.

4. User groups have to be set up in each box Dev, Quality and Production environment.
5. Map the created user groups with Innovapptive user groups using the table maintenance (Tcode–SM30) /INVMGO/UGRP_MAP in the ECC system.



Note:

You can do only 1:1 mapping. For example, INVMWO/TECH with <Customer/TECH>.

9. View Technician Dashboard

For specific user to view Technician dashboard view, need to maintain below in ECC system:

1. In the **Scoping** section, activate App id **TECH_V**.
2. Maintain user parameter '/INVMWO/TECH_V' with value 'X' in SU01.



Note:

When the above both settings are active then the user is able to view the Technician dashboard. It's just a view and does not impact any data.

10. Maintenance Tables for mWorkOrder

List of tables available for mWorkOrder.

Environment	Table Name	Usage
Gateway	/INVM-WO/SCR-CONFI	To maintain Screens/Tabs to display in Work Order and Notifications details.
ECC	/INVM-WO/DOC-TYPES	To maintain Document types for Work Order and Notifications.
ECC	/INVM-WO/EMG-DOC	To maintain Document types for Emergency Work Order creation.
Gateway	/IN-VCEC/SOURCE-TYPE	To maintain Source types for getting drop down values in RACE extension source type field.
Gateway	/IN-VCEC/STORE-TYP	To maintain store types to display DBs progressing bars, while syncing data to application. Note: Without maintaining these store types configuration, sync cannot be processed.
Gateway	/IN-VCEC/SYSTEM-MS	To maintain system destinations for connection between Gateway and EMS.
Gateway	/IN-VCEC/SCHEMA	To maintain Schema to overcome backward slash issue with SMP 3.0 SPI6 library. Note: To Maintain Schema configuration, application names should be defined in the RACE at prior.
ECC	/INVM-WO/FC-HEADER	To maintain Functional Location data staging table to fetch data into application.

		Note: To fill data into Functional Location Staging tables, please use program '/INVMWO/FM_FL_EXPAND_STG'.
ECC	/INVM- WO/EQ_- HEADR	To maintain Equipment data staging table to fetch data into application. Note: To fill data into Equipment Staging tables, please use program '/INVMWO/FM_EQ_EXPAND_STG'.
Gate- way	/IN- VCEC/FIL- TERS	To configure IDs, to get dropdown values for static filters (Like to Configure WOOPRA to apply filter for operation requirement assignment tab).
ECC	/INVM- WO/TASK_- RCS	To maintain Task Skip Reason codes while executing rounds.
ECC	/INVM- WO/SCAN_- RCS	To maintain Asset scan skip Reason codes while executing rounds.
ECC	/INVM- WO/PRI- COLOU	To maintain color codes for objects based on Priority value.
ECC	/INVM- WO/OB- J_STAT	To maintain Filters for WOs and NOs based on System Status and User Status combination.
Gate- way	/IN- VCEC/CTRL- TYPK	

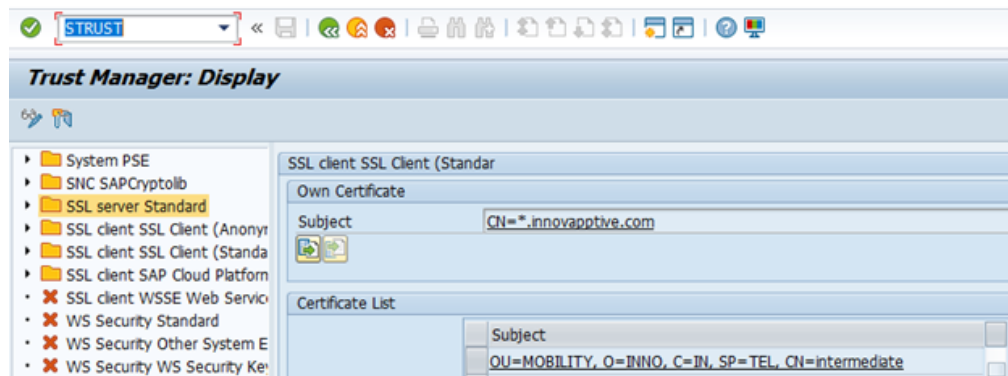
11. Configure Google Maps

Upload the Google certificates to Server and Client standards to access the Maps in the mobile application.

To upload google maps:

1. Login to SAP client.
2. Execute the transaction STRUST.

Figure 11-1 Upload Certificates to Server Standard



3. Upload the following Google certificates to SSL Server Standard:

Figure 11-2 GTS CA 1C3

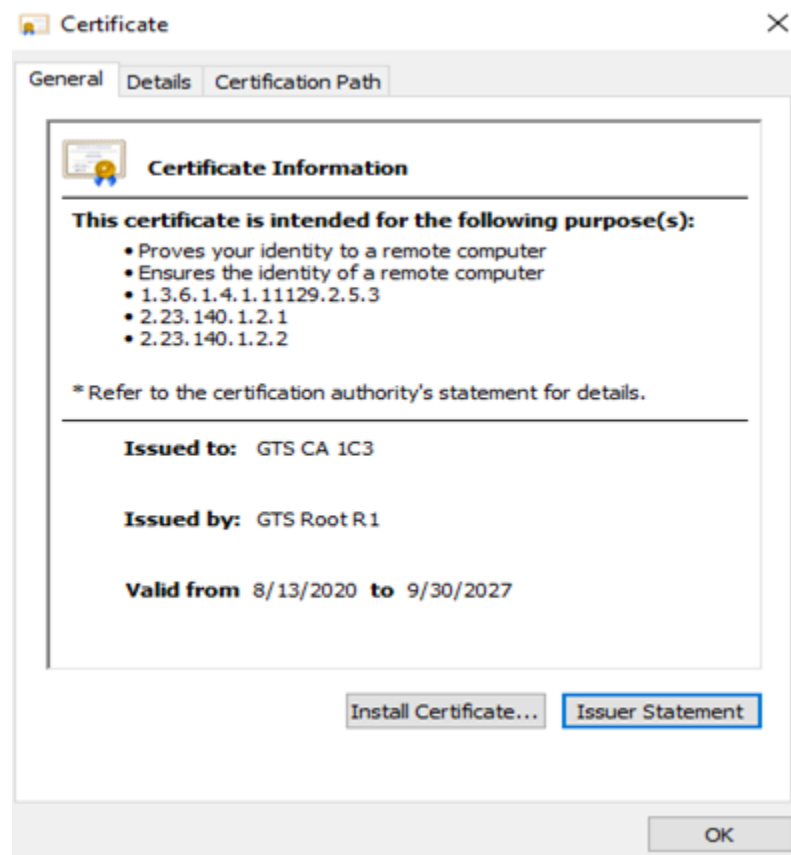
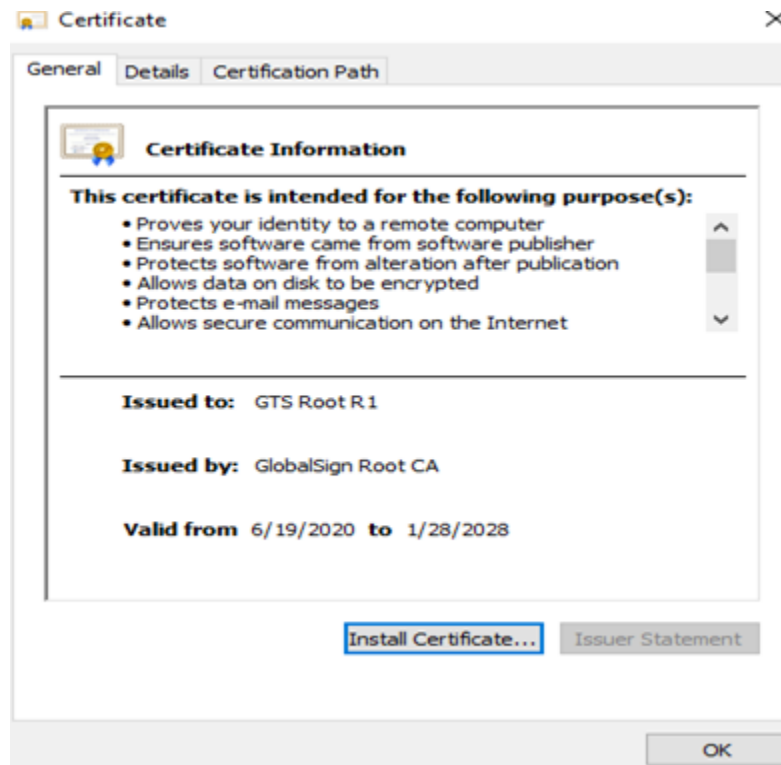
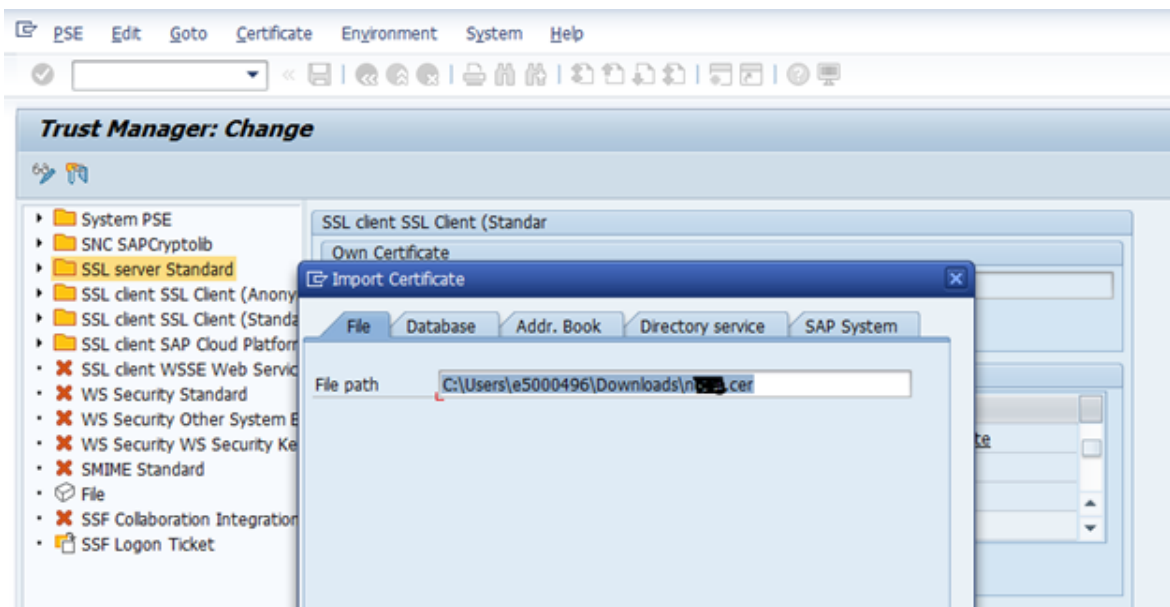


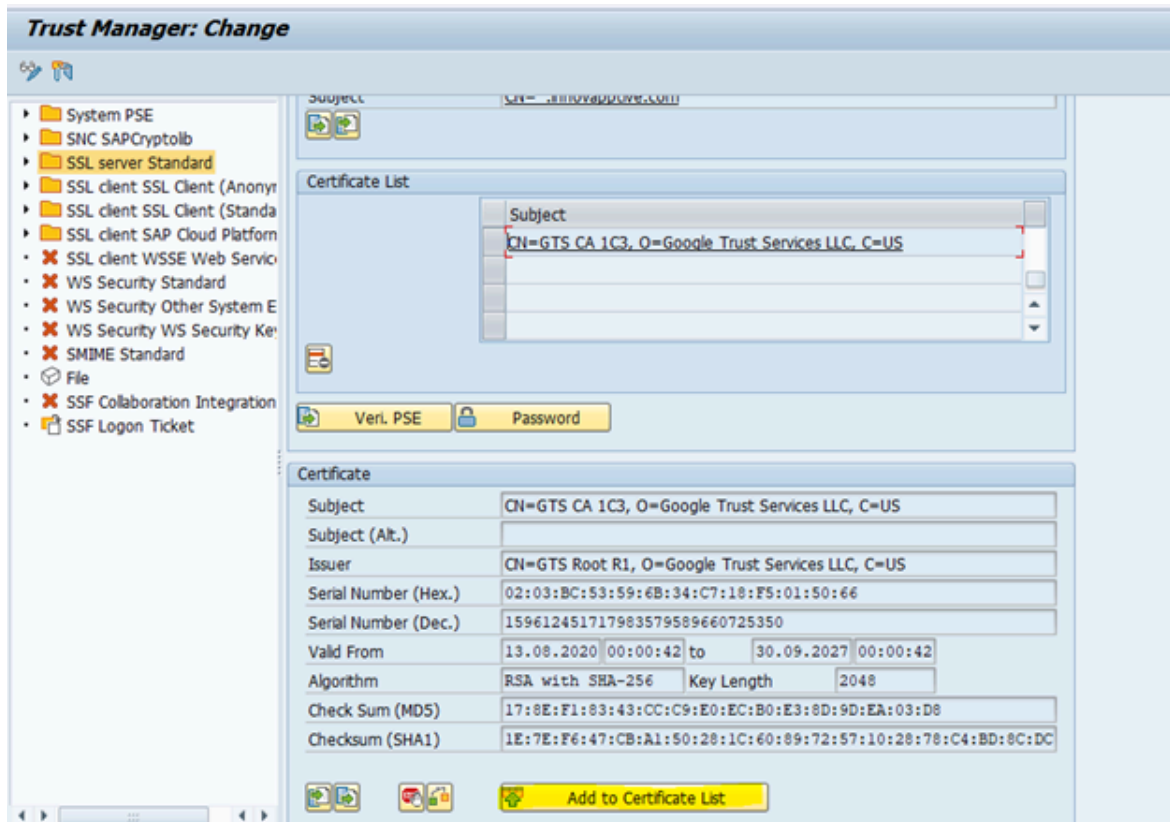
Figure 11-3 GTS Root R1



- Select the **SSL Server Standard** folder on the left side pane.
- Click the **Certificate** button.
- Click the **Import** button and select the above certificates.

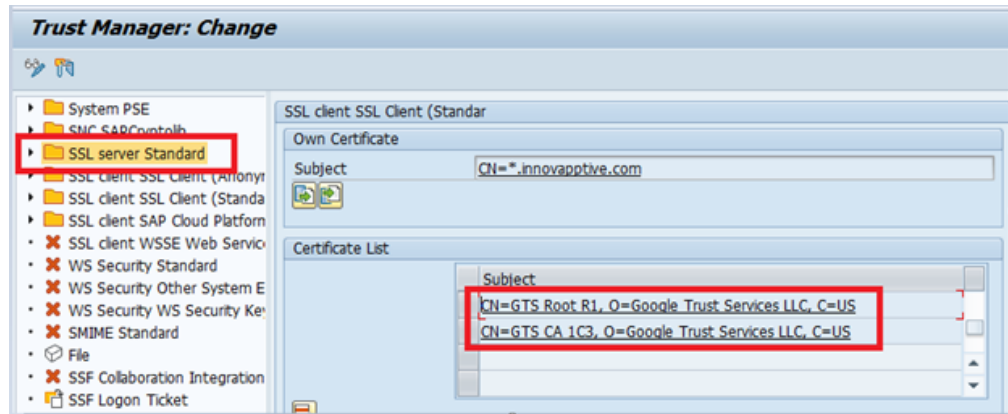


- Click the **Add to Certificate List** button.



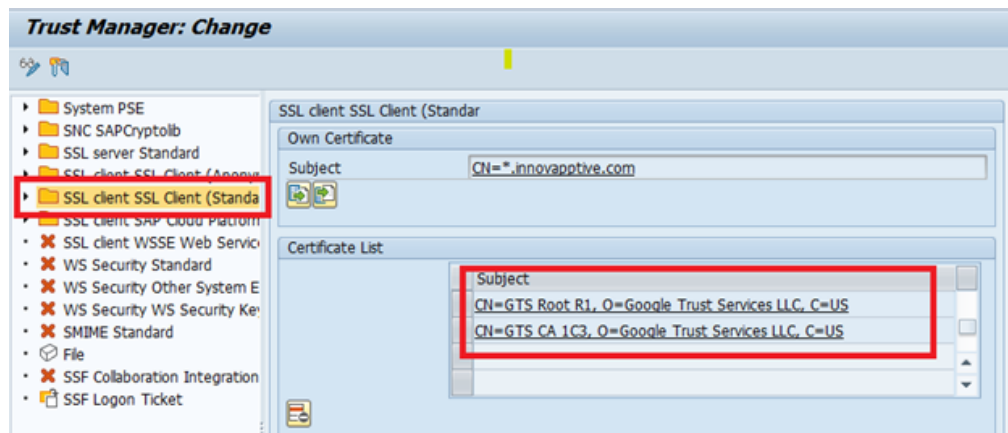
The GTS CA 1C3 and GTS Root R1 certificates are successfully added to SSL Server Standard.

Figure 11-4 Certificates are Added to SSL Server Standard



4. Upload the same certificates into **SSL Client SSL Client (Standard)**.

Figure 11-5 Upload Certificates to Client Standard

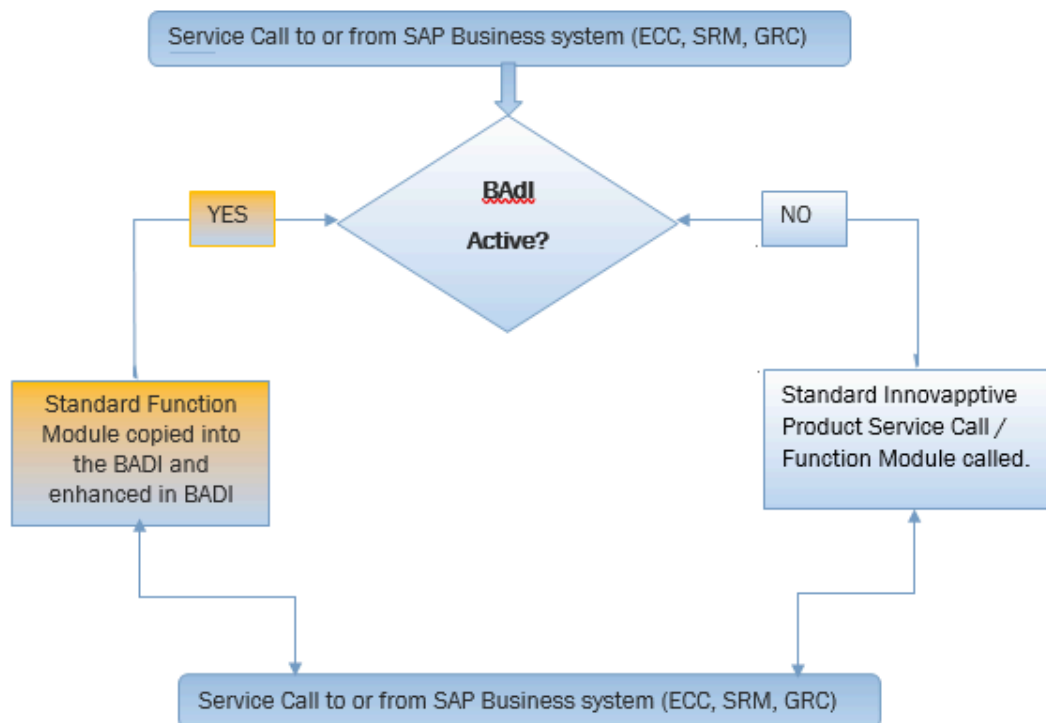


12. Implement BADIs

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 12-1 BADI Implementation



12.1. 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.

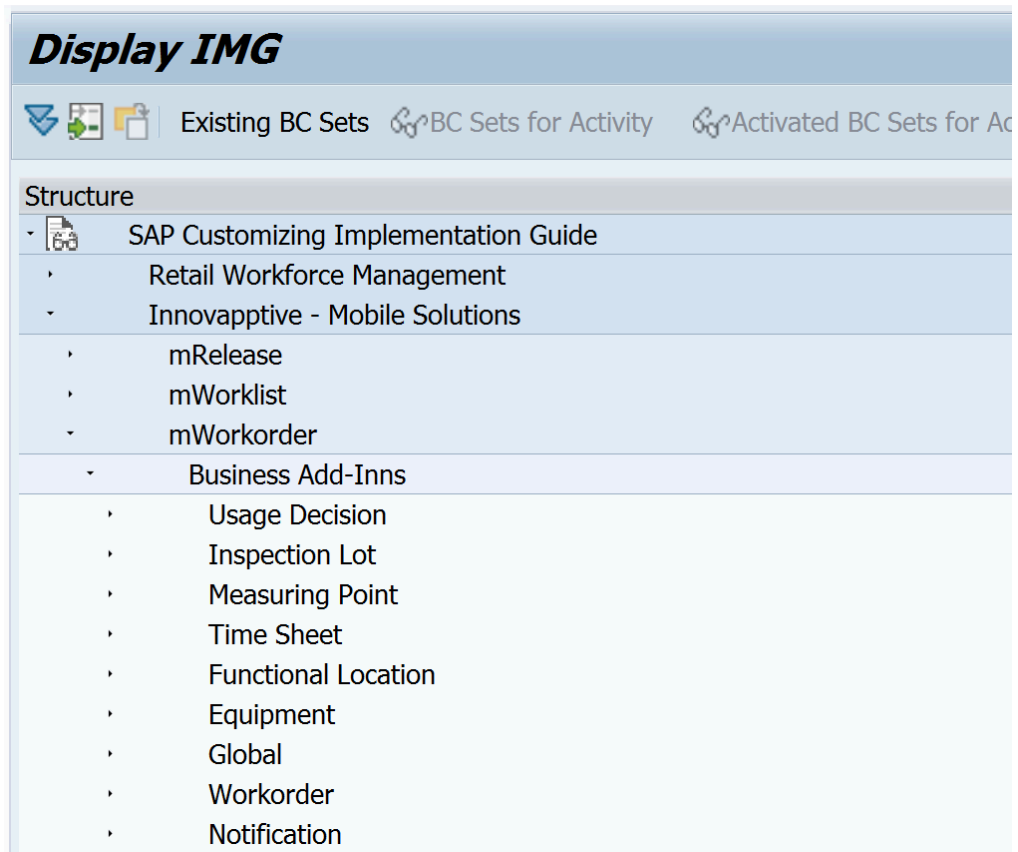
12.2. Activate and Implement BADI

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 \(on page 102\)](#).

Figure 12-2 SPRO IMG Structure



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.

Figure 12-3 FM: /INVMWO/BAPI_WO_CONFIG_DB

```

421  *-----*
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  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
440          et_list        = et_list
441          ev_skiptoken   = ev_skiptoken
442          return         = return.
443  CATCH cx_badi_not_implemented.
444      ENDTRY.
445  ELSE.

```

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

Program/Enhancement	Found locs/short description
/INVMWO/BAPI_WO_CONFIG_DB	429 GET BADI lo_badi_woconfigdb.

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

Figure 12-4 SE18

```

] *-----*
* Badi Ref Object Declaration
*-----*

DATA : lo_badi_woconfigdb TYPE REF TO
      /invmwo/badi_woconfigdb.

```



9. Click the Implementation icon for BADI.

Enhancement Spot **/INVMWO/ENH_MWORKORDER** Display

Enhancement Spot: **/INVMWO/ENH_MWORKORDER** Active

Attributes | Enhancem. Implementations | Technical Details | Enh. Spot Element Definitions

BAdI Definitions

BAdI Definitions	Description
/INVMWO/BADI_ST badi for storage k	
/INVMWO/BADI_ST BADI Definition fc	
/INVMWO/BADI_SU BADI Definition fc	
/INVMWO/BADI_SY Badii for system c	
/INVMWO/BADI_TA BADI for Tasklists	
/INVMWO/BADI_TII BADI for Emplo	
/INVMWO/BADI_TII BADI for Emplo	
/INVMWO/BADI_TII BADI for Update	
/INVMWO/BADI_TII BADI Definition fc	
/INVMWO/BADI_UC BADI Definition fc	
/INVMWO/BADI_UN Badi for Units of I	
/INVMWO/BADI_UN badi definition for	
/INVMWO/BADI_US BADI Definitions f	
/INVMWO/BADI_US BADI Definitions f	
/INVMWO/BADI_US BADI Definition fc	
/INVMWO/BADI_US BADI Definitions f	
/INVMWO/BADI_VA BADI for Value De	
/INVMWO/BADI_W Wage Type	
/INVMWO/BADI_W Update Persons c	
/INVMWO/BADI_W BADI for WO Con	
Interface	
Implementation	
/INVMWO/BADI_W BADI for object s	
/INVMWO/BADI_W BADI Definition fc	

BAdI Definition: **/INVMWO/BADI_WOCONFIGDB**

Description: **BADI for WO ConfigDB**

Interface: **/INVMWO/IF_WOCONFIGDB**

Usability

☒ Multiple Use

☐ Can only be implemented SAP-internally

☐ Limited Filter Use

Instance Creation Mode

☒ Newly Creating Instantiation

☐ Reusing Instantiation

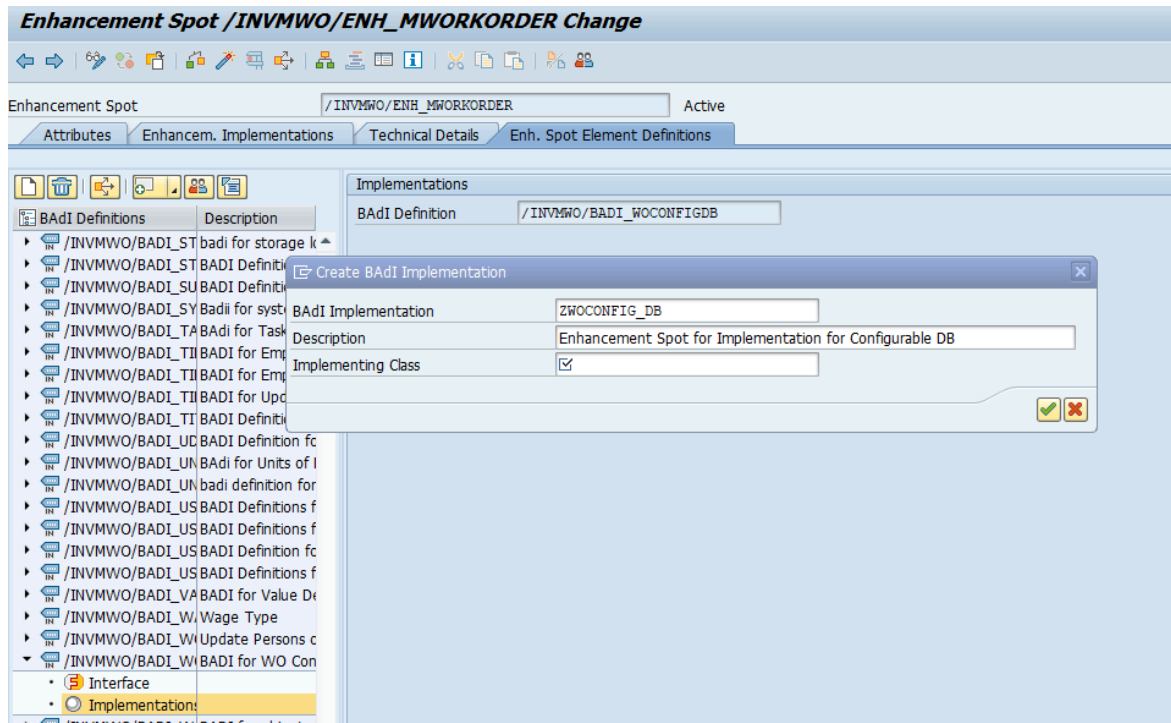
☐ Context-Specific Instantiation

☐ Call fallback if no implementation is executed

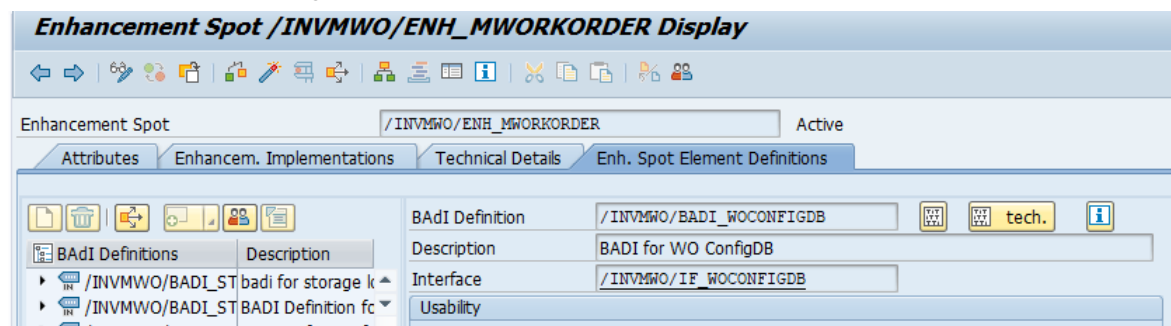
Fallback Class:

Implementation Example Classes

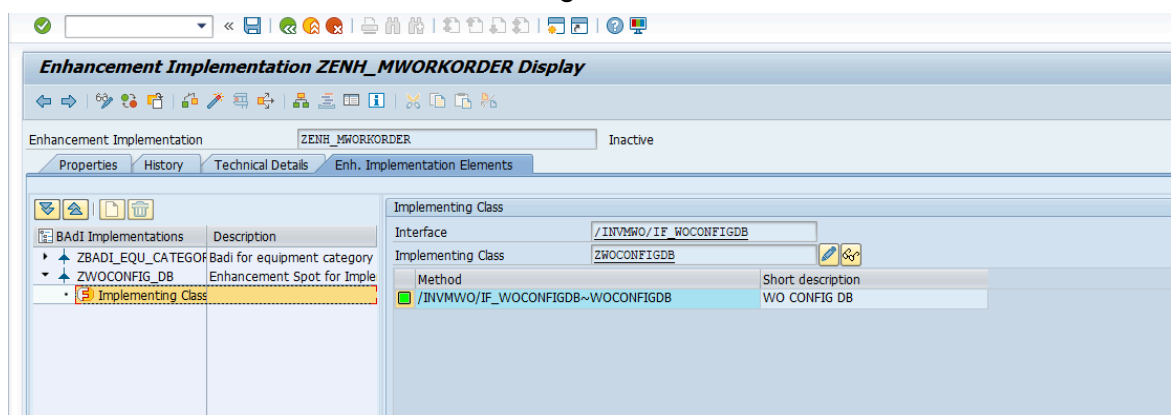
10. Enter an appropriate name (starting with Y/Z) for enhancement of spot implementation. (Follow the naming conventions and standards as per the policies and procedures defined.)



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.

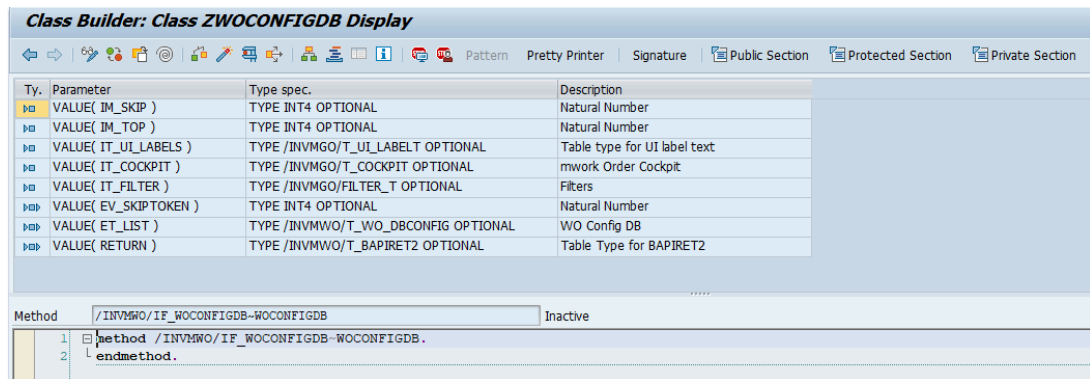


13. Click the method as shown in the following screenshot.



14. Click **Yes**.
15. Perform the development activity (code changes and enhancements) to meet the business requirements:
 - 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.

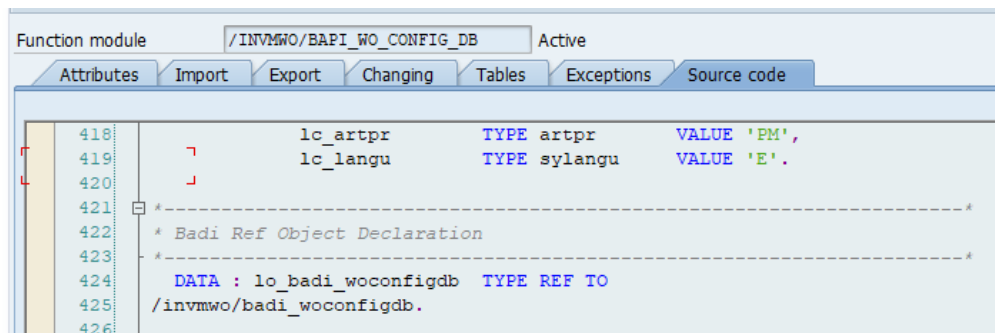


- c. Activate the BADI implementation (while activating, select all the relevant objects in the activation list).

12.3. Verify BADI Implementation

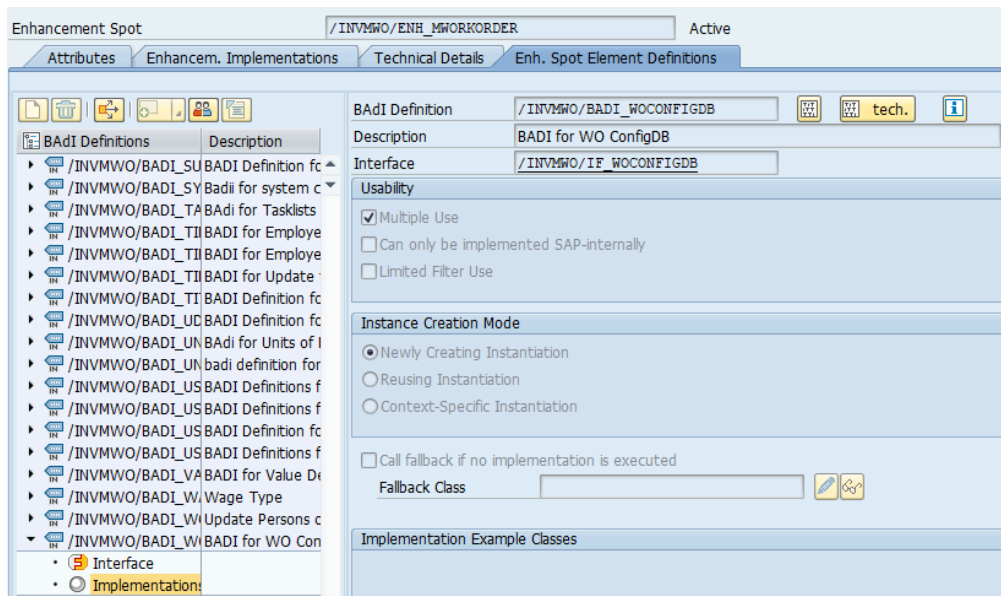
1. Run **SE37** and display the function module **/INVMWO/BAPI_WOCONFIGDB**.

Figure 12-5 Function Module: /INVMWO/BAPI_WOCONFIGDB



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

Figure 12-6 BADI: //INVMWO/BADI_WOCONFIGDB



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

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

12.4. 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.

Table 12-1 BADIs in mWorkOrder Application

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- QUIPMENT_DETAIL	BADI Definition for Equipment List	Equipment General Display
EQUIPMENT	/INVMWO/BADI_E- QUIPMENT_LIST	BADI Definition for Equipment List	Equipment Header Display
EQUIPMENT	/INVMWO/BADI_E- QUI_CREATE	BADI definition for Equipment Create	Equipment Location Create
EQUIPMENT	/INVMWO/BADI_- MAINTENANCE_PLANS	Maintenance Plans	Equipment Display Maintenance plant
EQUIPMENT	/INVMWO/BADI_E- QUIPMENT_BOM	BADI Definition for Equipment BOM	Equipment Display Bill 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- CATION	/INVMWO/BADI_FL_- LAST_MEASPOINT	BADI Definition for Last MP List	Functional Location 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- CATION	/INVMWO/BADI_- PARTNER_LIST	BADI Definition for Partner List	Functional Location Partner Create
FUNCTIONAL LO- CATION	/INVMWO/BADI_- FUNCTIONAL_DETAIL	BADI Definition for Functional Location	Functional Location Search
INSPECTIONLOT	/INVMWO/BADI_- INSP_CHAR_LIST	BADI Definition for In- spection Lot List	Inspection Lot Char- acteristics Display

Table 12-1 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

Table 12-1 BADIs in mWorkOrder Application (continued)

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

Table 12-1 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_OVRVIEW	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 12-1 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 12-1 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 12-1 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 12-1 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 12-2 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- ENTITYSET	Dynamic Dropdown
WORKORDER	/INVMWO/BADI_WO_DYN_- CREATE	Create Dynamic extension collection

Table 12-2 BADIs for mWorkOrder (continued)

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- TUPDATESSET	Dynamic Extension Update
WORKORDER	/INVMWO/BADI_WODYNEX- TENTITYSET	Dynamic Extension
WORKORDER	/INVMWO/BADI_WODYNEX- TUPDATESSET	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 12-2 BADIs for mWorkOrder (continued)

Module Name	BADI Name	BADI Description
WORKORDER	/INVMWO/BADI_WO_DYN_CREATE	Create Dynamic extension collection
WORKORDER	/INVMWO/BADI_WO_HANDLECHANGESET	Workorder Handle change set
WORKORDER	/INVMWO/BADI_WO_OPERATION_UPDATE	Work order Operation Update
WORKORDER	/INVMWO/BADI_WO_ORDERSUPDATE	Work order update
WORKORDER	/INVMWO/BADI_WODYNEX-ENTITYSET	Dynamic Extension
WORKORDER	/INVMWO/BADI_WOCOUNT-ENTITYSET	Count Entity
WORKORDER	/INVMWO/BADI_WOATTACH-ENTITYSET	Workorder Attachment
WORKORDER	/INVMWO/BADI_WOAPP-DATAENTITYSET	App Data Configuration
WORKORDER	/INVMWO/BADI_USER-DETAILS	User details
WORKORDER	/INVMWO/BADI_SEARCH-FILTER	Search and filters
WORKORDER	/INVMWO/BADI_OPERATION_LIST	Operation List
WORKORDER	/INVMWO/BADI_DD_DROP-DOWN	Dynamic drop down : sub
WORKORDER	/INVMWO/BADI_COMPONENT-UPDATE	Component update
WORKORDER	/INVMWO/BADI_COMPONENT-LIST	Get Component List

Table 12-2 BADIs for mWorkOrder (continued)

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

13. 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 13-1 Secondary Index - Table and Field

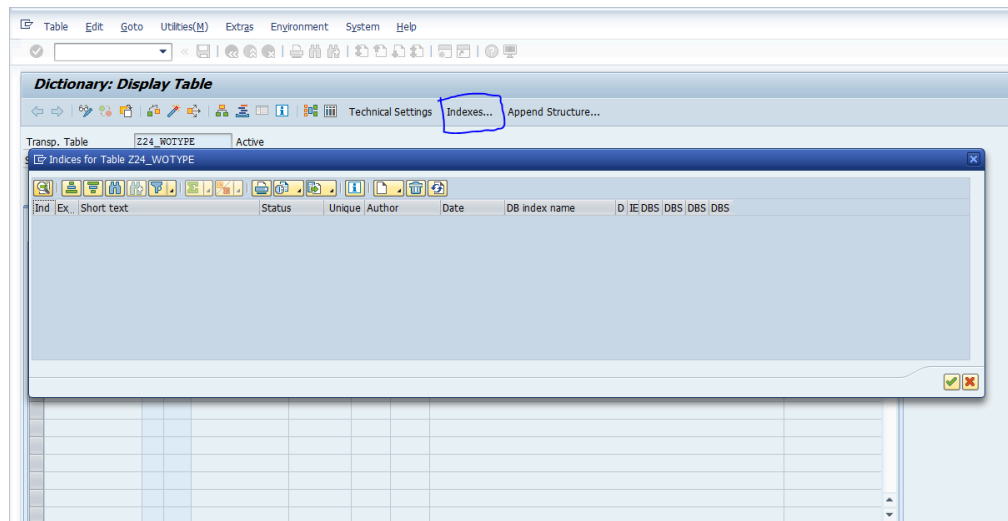
Table	Field for Secondary Index
PLKO	WERKS
AFIH	GEWRK
AUFK	WERKS

13.1. Create Secondary Index

To create secondary index:

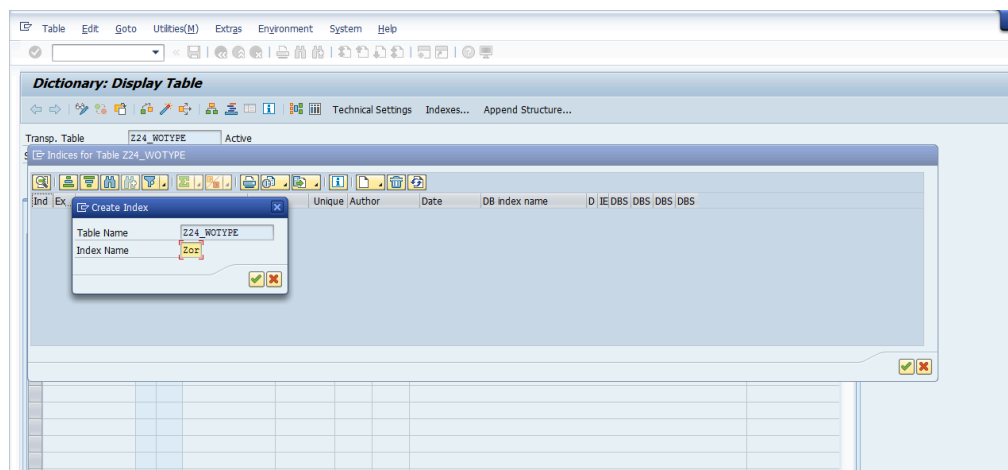
1. Log in to SAP ECC.
2. Go to transaction SE11.
3. Enter the Table name.
4. Click Display to view the table.
5. Click Indexes.

Figure 13-1 Display Table - Indexes



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

Figure 13-2 Create Index - Index Name



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

Figure 13-3 Table Fields

Dictionary: Change Index

Index Name: 224_901222 [208]

Short Description: secondary index

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

Status: New Not saved Package: 91XP

Index does not exist in database system MSSQL

☒ Non-unique index

☒ Index on all database systems

☐ For selected database systems

☐ No database index

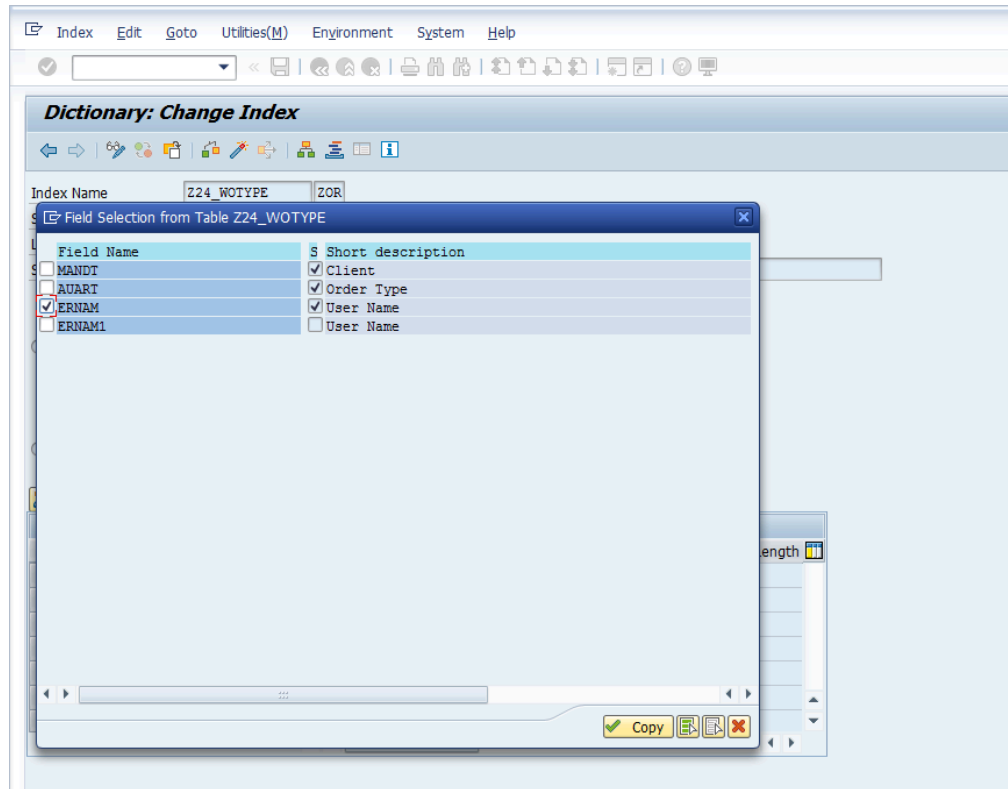
☐ Unique Index (database Index required)

Table Fields

Field name	Short Description	DT...	Length

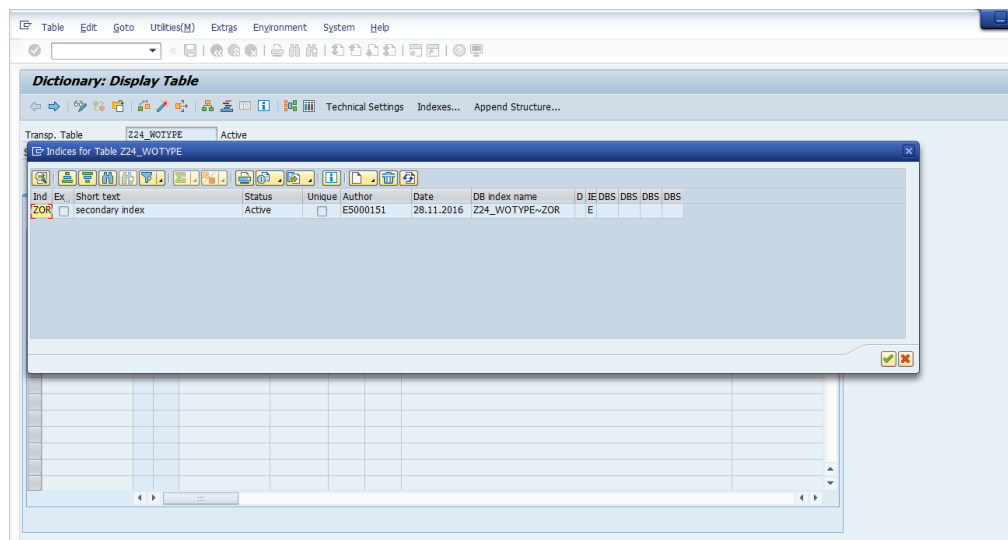
10. Select the required field for secondary index and click Copy.

Figure 13-4 Select Table Fields



11. Click **Activate**.

Figure 13-5 Activate Index



14. 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.

Table 14-1 json file attributes

Attribute	Description
AppName	This field is used to identify the Innovapptive product name. Conditions: Use uppercase alphabets. Possible Values: Based on the product, refer to the table Table 14-3: AppName and App id (on page 124). Example: MWORKORDER

Attribute	Description
Environment	Identifies the landscape to which the mobile application is connected. This value is displayed on the Login page of the mobile app. Conditions: None Possible Values: Development/Quality/Production
ShowDemoButton	Set to True to display the Sample Data button on the application Login page. Upon 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
TouchId	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 message to reset password.
Languages	Languages that are configured in the settings.json file are displayed to the user as a drop-down menu for selection. Additional languages can be added provided the language is available in SAP and the necessary translations are maintained. Syntax: <pre>{ "id": "<SequenceNumber>", "key": "<SAPLanguageCode>", "value": "<LanguageName>" }</pre> Possible Values: Languages supported by SAP Example: { "id": "1", "key": "E", "value": "English" }  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 14-2 json parameters

Parameter	Description
Server	The DNS/HostName of the SMP/SCPms servers, which will be used for mobile application connection. Example: smp.innovapptive.com
Port	The application establishes the communication to the server based on the specified 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 registration. 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/login mechanism selected for the application. Condition: Use the same security profile name as defined in SMP/SCPms. Example: Basic Authentication (SSO2), SAML Authentication (SAML) and x509 authentication(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 connection settings for RACE™ services and may require other connection settings also. mWorkOrder application requires connection setting for RACE™, EQUIPMENT, FUNCTIONALLOCATION, and ATTACHMENT. Example. com.innovapptive.race, mwo.equipment, mwo.funloc and mwo.attach.
Whitelist [StoreName]	This field describes the name Offline stores for whitelist ApplicationIDs. RACE™ store is common for all Innovapptive applications. mWorkOrder application requires to configure for following StoreName – RACE™, EQUIPMENT, FUNCTIONALLOCATION, and ATTACHMENT.

Figure 14-1 Sample JSON Settings file

```
{
  "Server": "smphost",
  "Port": "8080",
  "ApplicationID": "com.innovapptive.mworkorder",
  "SecurityType": "SSO2",
  "https": false,
  "AppName": "MWORKORDER",
  "Environment": "Development",
  "ShowDemoButton": true,
  "hcolor": "#4445E75",
  "TouchId": true, "AppPassCode": true, "ForgotPwd": true, "ForgotPwdLink": false, "ForgotPwdMsg": "http://www.innovapptive.com/", "StoreName": "",
  "Languages": [{"id": 1, "key": "E", "value": "English"}, {"id": 2, "key": "D", "value": "German"}, {"id": 3, "key": "F", "value": "French"}, {"id": 4, "key": "S", "value": "Spanish"}, {"id": 5, "key": "P", "value": "Portuguese"}, {"id": 6, "key": "I", "value": "Chinese"}, {"id": 7, "key": "M", "value": "Thai"}],
  "Timeout": "D30", "Whitelist": [{"ApplicationID": "com.innovapptive.mworace", "StoreName": "RACE"}, {"ApplicationID": "mwo.equipment", "StoreName": "EQUIPMENT"}, {"ApplicationID": "mwo.funloc", "StoreName": "FUNCTIONALLOCATION"}, {"ApplicationID": "mwo.attach", "StoreName": "ATTACHMENT"}]
}
```

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

Table 14-3 AppName and App id

Name	APP ID	AppName
Mobile Asset Tag	com.innovapptive.masset-tag	MASSETTAG
Mobile Inventory	com.innovapptive.minventory	MINVENTORY
Mobile Service Order	com.innovapptive.mserviceorder	MSERVICEORDER
Mobile Shopping Cart	com.innovapptive.mshop	MSHOP
Mobile Worklist	com.innovapptive.mworklist	MWORKLIST
Mobile Work Order	com.innovapptive.mworkorder	MWORKORDER
RACE™ Dynamic Forms	com.innovapptive.racedynamicforms	RACEDYNAMICFORMS

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_Portrait.png
 - App_BG_iPhone.png
 - App_Logo.png
 - settings.json

15. Download App and Install

Download the latest version of mWorkOrder app from Apple App Store, Google Play or the Microsoft Store and install it on your devices.