Upgrade Guide for mAssetTag 2009

Connected Worker Solutions



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Preface

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

Audience

This guide is for technical configurators who Upgrade and do related Configurations for mAssetTag, a Mobile Asset Management Solution of *Connected Workforce Platform*TM.

Related Documents and Products

- Work Order Management
- Inventory and Warehouse Management
- Operator Rounds
- Inspections Checklist
- Fixed Asset Management
- Field Procurement
- Analytics and Dashboards

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Document Conventions

Convention	Meaning				
boldface	Indicates graphical user interface ele- ments associated with an action, or terms defined in text or the glossary.				
italic	Indicates book titles, emphasis, or place- holder variables for which you supply val- ues.				

Table 0-1 Conventions followed in the document

Convention	Meaning		
monospace	Indicates commands within a paragraph,		
	URLs, code in examples, text that appears		
	on the screen, or text that you enter		

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

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1. Upgrade mAssetTag

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

mAssetTag installation process involves two stages:

- Upgrade supporting systems (on page 7)
- Upgrade mAssetTag (on page 9)

1.1. Upgrade supporting systems

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

System and Software	 SAP ECC Business Suite backend 6.0 EHP 5 and above with SAP_BASIS component (702 and above) con- nected to the mobile infrastructure (NetWeaver gateway, SMP/SCPms). SAP NetWeaver Gateway 7.4 and above with SAP_BASIS component (740 and above), SAP_GWFND com- ponent (SP 10 and above) and SAP UI component (SP 13 and above). SPAM/SAINT version with at least 69. SMP 3.0 SP 10 and above or SCP with Cloud Connector is already config- ured. SAP SCP Client Tenant. SAP Cloud Connector minimum 2.x and above (latest version is recom-
	and above (latest version is recom- mended).
Access	 SAP Basis System Admin with access to 000 clients in Gateway and ECC systems. Access to SAP File directory usr/sap/ trans/EPS/in to upload PAT files.

Table 1-1 Prerequisites

Table 1-1 Prerequisites (continued)								
Assun	nptions	Access to the RACE™ portal can be com-						
		pleted after the RACE™ admin user creden-						
		tials setup is completed.						

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





1.2. Upgrade mAssetTag

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

Figure 1-2 Configurations to upgrade MAT



Table 1-2 References

Task	Reference to section
Install RACE™ SAP ECC and Gateway Add- ons or Support Packs / Import Transports	 Install RACE[™] SAP[®] ECC and Gateway (on page 13) Import RACE[™] SAP[®] ECC and Gate- way ABAP Transports (on page 30)
Activate RACE™ oData, UI5, and Fiori Ser- vices	Activate RACE™ OData Service (on page 24)
	Activate UI5 Service (on page 26)
	Activate FIORI Service (on page 28)
Install mAssetTag SAP ECC, Gateway and UI5 Add-ons/ Import Transports	 Install mAssetTag SAP® ECC, Gate- way, and UI5 (on page 42) Import mAssetTag SAP® ECC, Gate- way and UI5 Transports (on page 61)
Activate mAssetTag oData, Gateway UI5 and Fiori Services	Activate mAssetTag OData Service <i>(on page 56)</i>
	Activate Gateway UI5 Service <i>(on page 57)</i>
	Activate Gateway FIORI Service <i>(on page 59)</i>
Check Schema Indicator	Check Schema Change Indicator <i>(on page 72)</i>
Clean Gateway Cache	Clean SAP Gateway (on page 74)
Configure SAP Gateway for mAssetTag	Configure SAP Gateway for mAssetTag <i>(on page 75)</i>
Upload / Update the Configurations in Ex- cel format to RACE™ Application	How to Configure RACE™ for mAssetTag <i>(on page 92)</i>
Implement BADI enhancements	Implement BADIs <i>(on page 94)</i>
Prepare & Update Resource File	Update Resource File (on page 101)
Download and Install App	Download App and Install (on page 108)

2. Back up/Save RACE™ table configurations

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

Repeat the download process for each table and store:

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

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

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

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

Note:

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

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

Туре	Type Add-On Description			
Add-On	EWI0090055494	IN-	None	
	0000006.PAT	NOV:RACE™:2009:ECC		
		Objects		

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

Туре	Add-On	Description	Dependency
Add-On	NWH0090055495 0000002.PAT	IN- NOV:RACE™:2009:Gate way Objects	None -
SP01 - Support Pack	NWH0090055495 0000012.PAT	IN- NOV:RACE™:2009 FIORI Application	Install RACE™ Add-On (NWH0090055495 0000002.PAT) before importing SP01.

Туре	Add-On	Description	Dependency
Transport	NG5K907770	INNOV:RACE™: 2009_FIORI Launch- pad Configurations	Import the SP01 Support pack (NWF0090055495 0000012.PAT) before importing the trans- port (NG5K907770).

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

Install the add-ons and support packs at one go using the steps given below. However, if you have already installed add-ons and now you want to install the support packs (hotfixes), follow the procedure detailed in Support packs installation procedure *(on page 19)*.

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

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



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

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

Figure 3-1 SAINT

	2	Installation	Package	E	lit	<u>G</u> oto	Extr <u>a</u> s	Utilities(<u>M</u>)	Environment	S <u>y</u> stem	<u>H</u> elp	
	<	Load <u>p</u>	ackages	►		Erom Fro	ont End		6199D	1 🕄 I 💭	2 🕐	!!
1	A	E <u>x</u> it dd-On	Shift+F3	ati	on	From Ap	plication	Server	0064			
	9											

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

Packages are loaded in the file system

Figure 3-2 SAINT: Upload Packages



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

Figure 3-3 Installed Add-ons

Add-On I	nstallatio	n Tool	- Version 7.40/0061	
🧟 📓 📔	H			
	Add-0)n Insta	llation Tool : Installed Add-ons	
Add-ons and	Preconfigured	Systems i	nstalled in the system	
Add-on/PCS	Release	Level	Description	Import 🛄
PI_BASIS	740	0008	Basis Plug-In	00
SAP_ABA	740	0008	Cross-Application Component	00
SAP_BASIS	740	0008	SAP Basis Component	00
SAP_BW	740	0008	SAP Business Warehouse	00
SAP_GWFND	740	0012	SAP Gateway Foundation 7.40	00
SAP_UI	740	0009	User Interface Technology 7.40	00
ST-PI	740	0000	SAP Solution Tools Plug-In	00
				*
			 100 	< >
Status/Remark	s			
🔒 🚹 The over	view shows yo	u the inst	alled Add-ons and Preconfigured systems	
- Choose [S	TART] to start	an installa	ation or an upgrade	
Back	[B] :	Start	۳ 	× Cancel

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

Add-On Inst	allation To	ool - Version 7.40/00	061	
🕄 🔟 📔				
	Add-on J	Installation Tool: Add-on	selection	
	nackages for y	nation (1986) Static An	AL FIE	
Add-On	Release	Description		Package type
INVCEC	NGW_605	INVCEC NGW_605: Add-On In	stallation	Installation
-				
		 Image: Second sec		< >
Status/Remarks				
G Select one or	several package	es from the installable Add-on p	ackages	
- Choose [CONT]	(NUE) to start t	he calculation of the installation	queue	
- Choose [BACK]	to go back to	the overview of the installed Ad	dd-ons	
- Choose [LOAD]) to load additio	nal packages from the application	on server	
	-			
🔁 Back	🔄 Continu	e 😡 Load	Screen 1 / 6	🗙 Cancel

Figure 3-4 Select Add-on

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

The OCS packages that are going to be imported are displayed in the next screen. 10. Click **Continue** to proceed to the next step.

Add-On Installation Tool - Version 7.40/0061										
🥶 📓 📔										
Inst	allation of several <i>i</i>	Add-ons : Calcula	ted queue							
Installation queue	Software Components									
OCS packages for imp	ort									
OCS Package	Package type	Software Compo	Release	Short descrip						
SAPK-N65COININVCEC	Installation	INVCEC	NGW_605	INVCEC NGW						
				Ψ						
	• •			• •						
Status/Remarks										
🕦 The displayed packa	iges must be imported wh	nen installing the Add	on							
- You have not selecte	ed any further Support Pa	ckages								
- Choose [CONTINUE]	to add Modification Adjus	tment Transports to f	the queue							
- Choose [BACK] to go) back to the Support Pac	kage selection								
🔓 Back 🔂	Continue S	Logs Sci	reen 3 / 6	🗙 Cancel						

Figure 3-5 Add-on Queue

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

12. Click the Import 🗹 icon.

13. Click Finish.

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

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

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

Figure 3-6 Function Builder Initial Screen

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

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

Figure 3-7 Function Module Classes

Funct	ion Builder: Initial Screen			
ii // 8	🛱 📫 🚺 📅 🗊 🚺 Reassign			
Function (LE Repository Info System: Function Mo	aules Fina (22 Hits)		_ ×
Function				
	Function group	Function group short text		
Sc [Function Module Name	Short text for function module		
	/INVMGO/EXTENSIONS FG	Extensions		-
	/INVMGO/BAPI ATTACHMENTS LIST	List of Attachments		
	/INVMGO/BAPI ATTACH DOWNLOAD	Attachment Download		
	/INVMGO/BAPI DYNAMIC DROPDOWN	Dynamic dropdown		
	/INVMGO/EXTENSION STRING FM	Preparing Extension String.		
	/INVMGO/FM CUSTOM DROPDOWN	Custom drop down		
	/INVMGO/FM DYNAMICGET FM CALL	Get the transform orders list		
	/INVMGO/FM DYNAMICPOST FM CALL	Get the transform orders list		
	/INVMGO/FM DYNAMIC MODULE ADD	Get the transform orders list		
	/INVMGO/FM FIELDS PROCESS	Processing fields and store in final internal table		
	/INVMGO/FM FUNCTION FIELDS	Get the Function Module Parameters List		
	/INVMGO/FM GET FMLIST	Get the Function modules list for app specific		
	/INVMGO/FM GET TABLESLIST	Get the Function modules list for app specific		
	/INVMGO/GET PARAMETERID VALUES	Get Parameter ID vales		
	/INVMGO/SCOPING FM	Scoping		
	/INVMGO/WHERE_CONDITIONS	Where Condition		
	/INVMGO/GLOBAL FG	Global FG		
	/INVMGO/BAPI EXTENSION	Extension Header		
	/INVMGO/BAPI UI LABELS	UI Labels based on Language		
	/INVMGO/BAPI USER DETAILS	Logon User Details		
	/INVMGO/FM CURRENCY EXCHNG	Currench Exchange Rate		
	/INVMGO/FM GET CUURENCY FORMAT	Currency Codes format		
	/INVMGO/FM GET DECIMAL FORMAT	Date Notation Format		
	4.5		14	
				P

3.1.2. Verify SAP® GW RACE™ Add-On

To verify the SAP® GW RACE™ add-On:

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

Figure 3-8 Object Classes

🖻 Repository Info System: Class/Interf	Repository Info System: Class/Interface Find (10 Hits)						
Object Type Name	Short Description						
/INVCEC/CL_GW_DP_TRANSPORT	Gateway Data Provider: Interoperability 700						
/INVCEC/CL_GW_MP_TRANSPORT	Gateway Model Provider: Interoperability						
/INVCEC/CL RACE DPC	Data Provider Base Class						
/INVCEC/CL_RACE_DPC_EXT	Data Provider Secondary Class						
/INVCEC/CL RACE MPC	/INVCEC/CL RACE MPC						
/INVCEC/CL RACE MPC EXT	/INVCEC/CL_RACE_MPC_EXT						
/INVCEC/IF_BAPI_ATTACH_DOWNLOA	/INVCEC/IF_BAPI_ATTACH_DOWNLOA						
/INVCEC/IF BAPI ATTACHMENTS LI	/INVCEC/IF BAPI ATTACHMENTS LI						
/INVCEC/IF FM CUSTOM DROPDOWN	/INVCEC/IF FM CUSTOM DROPDOWN						
/INVCEC/IF_ZDYNSCREENCONF	/INVCEC/IF_ZDYNSCREENCONF						
, <u>111, 020</u> , 11_10 1100111100111							

3.2. Install RACE[™] SAP[®] ECC and Gateway support packs

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

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

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

A confirmation message appears to confirm loading of packages.

Figure 3-9 SAINT

2	Support Package Ed	t <u>G</u> oto	E	xtr <u>a</u> s <u>U</u> tilities	Environment	System	Help
6	Load packages	1		Erom Front B	End	C 20 (🐺 🗾 🕜 🖪
	Import SPAM/SAINT	Update		From Applica	ition Server		
	Import gueue	Shift+F7		- Version 7	7.40/0061		
ß	Confirm	Shift+F6					
•	Exit	Shift+F3					
			-	_			

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

Packages are loaded in the file system

Figure 3-10 SAINT: Upload Packages



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

Figure 3-11 Support Package Manager

	Help	em	Syste		nent	ironn	Eny	es	Utiliti	s	Extr <u>a</u>	D 6	<u>G</u> oto	it	Edi	Package	upport	? Su	G
🔞 🖪	Ж 🎮	1	C, C	Ŷ	T	ß	H			0	C] (•				Ø	
				4	754	/00	.40	n 7	sio	Vei	r -	age	lanı	e M	kage	rt Pac	ippo	Su	
														l	1	y 🗷 🍕	0	₽,	
				e	efine	lay/d	Disp		89 1								e)ueu	ç
				e	efine	ilay/d	Disp		1								e)ueu	9

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

click 🗹.

Figure 3-12 Component Selection

Choose the software component for which you want to import Support Packages											
🐼 🔎 🤜 Stack XML file 🔎											
CompID	Release	Short Description of Component	Support Package type								
ECC-DIMP	600	DIMP	Add-on Support Pkg.								
ERECRUIT	600	E-Recruiting	Add-on Support Pkg.	Ŧ							
FI-CA	600	FI-CA	Add-on Support Pkg.								
FI-CAX	600	FI-CA Extended	Add-on Support Pkg.								
INSURANCE	600	SAP Insurance	Add-on Support Pkg.								
IS-CWM	600	Industry Solution Catch Weight Mana	Add-on Support Pkg.								
IS-H	600	SAP Healthcare	Add-on Support Pkg.								
IS-M	600	SAP MEDIA	Add-on Support Pkg.								
IS-OIL	600	IS-OIL	Add-on Support Pkg.								
IS-PS-CA	600	IS-PUBLIC SECTOR CONTRACT ACCO	Add-on Support Pkg.								
IS-UT	600	SAP Utilities/Telecommunication	Add-on Support Pkg.								
LSOFE	600	SAP Learning Solution Front-End	Add-on Support Pkg.								
SEM-BW	600	SEM-BW: Strategic Enterprise Manag	Add-on Support Pkg.								
INVMGO	ECC_603	Innovapptive ECC RACE 6.0.3 Addon	Add-on Support Pkg.								
				-							

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

Figure 3-13 Confirm Queue

	🔄 Define Queue for the Add-On INVMGO rel. ECC_603											
ſ	Choose the highest Support Package you want or confirm the queue											
		1										
	Package ID	CompID	Release	Short Description								
l	SAPK-E6302ININVMG0	INVMGO	ECC_603	INVNGO ECC_603: SP 2								
ŀ		2	4		< >							
					✓₽₽₽₽×							

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

¢	Support Package	Edit <u>G</u> oto E	xtras Utilities Engironment System Help
6	Load packages	•	C C C C L H K 1 2 2 4 4 1 5 5 5 6 5 6 5
_	Import SPAM/SAI	NT <u>U</u> pdate	
	Import gueue	Shift+F7	- Version 7.40/0054
Ģ	Confirm	Shift+F6	
	Exit	Shift+F3	
Qu	Jeue SAI	PK-E630]	Status
(New Support Packag	es	Queue is defined for the
0	Aborted Support Pac	kages	Software Component: INVMGO
0	Imported Support Pa	ickages	SPAM status:
0	All Support Packages		Next action: Import queue
	ିଙ୍ Display		& Package level

Figure 3-14 Import Queue

10. Click \checkmark to start the import process.

Figure 3-15 Import Queue Confirm



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

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

A confirmation message appears.

Note:

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

Figure 3-16 Confirm Support Package

C	Support Package	<u>E</u> dit <u>G</u> a	ito Extr <u>a</u>	s <u>U</u> tilities	Engironment	System	Help		
(Load packages		· • •	0 🚱 🚱 1 🗐	C M H C	10.0.20	🛒 🗾 🕜 📑		
	Import SPAM/SA	INT <u>U</u> pdat	e 🗖						
	Import gueue	Shift	+F7 =	Version)	7.40/0054				
	Confirm	Shift	+F6						
	Exit	Shift	+F3						
Q	ueue SA	PK-E630]	[1]	Display/define]			
	Directory			Status	1				
(New Support Package	jes		Queu	e imported for t	he			
(Aborted Support Parent	ckages		Softw	are Component	: INVMGO			
(Imported Support Page	ackages		SPAM status: CAO					
(All Support Packages	5		Next	action:	Confirm qu	eue		
	🗞 Display			Ge r	Package level	1			

3.3. Activate RACE™ OData Service

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

To activate the RACE™ OData service:

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

A message appears notifying the package selection appears.

Figure 3-17 Activate and Maintain Services

Act	Activate and Maintain Services								
	🛎 👅 🧥 🕼 🕼 🗸 🖽 🔎 Filter 🛛	Ad	d Service 📅 Delete Service 📘 Service Details 🥝	Load Me	adata 🛛 🛄 Error Log 🗍 🌆 Request Si	tatistics	resh Cat	alog 🔍 OAuth 🔍	Soft State
C	ing Catalon								
Serv	lice Catalog								
Туре	Technical Service Name	^V	Service Description	External	Service Name	Namespace	OAut	Soft State Status	Is SAP Ser
BEP	ZPAGE BUILDER CUST	1	Pagebuilder - Customizing level	PAGE B	ILDER CUST	/UI2/	\checkmark		
BEP	ZPAGE BUILDER PERS	1	Pagebuilder - Personalization level	PAGE B	ILDER PERS	/UI2/	v		
BEP	ZPAGEBUILDER SERVICE V 0 1	1	Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBU	LDER SERVICE V 0 1	/UI2/	 Image: A start of the start of		
BEP	ZPP PRODOPS CONFIRM SRV	1	Confirm Production Order Operation	PP PRO	OPS CONFIRM SRV		 Image: A start of the start of		
BEP	ZOUICKVIEW	1	Quickview Service	QUICKV	EW	/UI2/	 Image: A start of the start of		
BEP	/INVCEC/RACE_SRV	1	Global Extensions	RACE S	V	/INVCEC/	V		
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider	RMTSAN	PLEFLIGHT	/IWFND/	 Image: A second s		
BEP	ZRMTSAMPLEFLIGHT 2	1	OData Channel - Reference SFlight Data Provider	RMTSAN	PLEFLIGHT_2	/IWBEP/	V		
BEP	RSAO ODATA SRV	1	Tlogo and Bookmark access via Odata	RSAO C	DATA SRV		 Image: A start of the start of	Not Supported	
BEP	S EPM SADL GW DEV SCEN RO SRV	1	EPM: SADL-based GW-Service 'NW 2013 Dev. Sce.	S EPM	ADL GW DEV SCEN RO SRV		V		
BEP	ZSAMPLE EPM EMPLOYEE LIST	1	Sample employee list service based on EPM	SAMPLE	EPM EMPLOYEE LIST	/UI2/	v		
BEP	ZSAMPLE EPM POWL CACHED	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CACHED	/UI2/	v		
BEP	ZSAMPLE EPM POWL CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE	EPM POWL CODED	/UI2/	v		
BEP	ZSAMPLE EPM POWL CUST	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CUST	/UI2/	 Image: A start of the start of		
BEP	ZSAMPLE POWL SFLIGHT ALL	1	Sample flight service based on POWL framework	SAMPLE	POWL SFLIGHT ALL	/UI2/	1		
			1			1	_	1.1.	
ICF	Node 🔺 😰 Call Browser 🖓 SAP Gateway	Client			🔁 Add System Alias 📑 Remove Syst	em Alias 🚱 Cust	comizing	Service Impler	nentation
A	ctivate				System Aliases				

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

The OData service is activated and the status turns green.

Figure 3-18 Service Status

🕲 🎒 🗑 🔞 👘 🕞 🖼 Piter 🗄 Add Service 📾 Delete Service 🕲 Service Detais 🖉 Load Metadata) 🕮 Error Loa I Ne Request Statistics I Ørefresh Cataba 🔍 OAuth 🔍 Soft Sta	te							
🕲 🖹 🗑 🧥 🕼 🚛 🖓 🕅 Request Statistics) 🖗 Refresh Catalog 🔍 OAuth 🛝 Soft Sta	te							
🔍 🚊 Ţ 🍈 🏠 🞼 🖉 Fiter 🗄 Add Service 📅 Delete Service 🔯 Service Details 🥩 Load Metadata 🔡 Error Log 📲 Request Statistics 🖉 Refresh Catalog 🔍 OAuth 🔌 Soft Sta	te							
🕄 🚔 🚏 🕅 🕼 📴 🖽 🕼 Terrer Ex Add Service 📅 Delete Service 📓 Service Details 🗹 Load Metadata 🔡 Error Log 🛛 🖥 Request Statistics 🛛 🖗 Refresh Catalog 🔍 OAuth 🔍 Soft State								
Service Catalog								
Type Technical Service Name V_ Service Description External Service Name Anamespace 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 /UI2/ 📝								
BEP ZPP PRODOPS CONFIRM SRV 1 Confirm Production Order Operation PP PRODOPS CONFIRM SRV 🖌								
BEP ZOUTCKVTEW 1 Quickview Service QUICKVTEW /U12/ 🖌								
BEP /INVCEC/RACE SRV / INVCEC/ /INVCEC/ V								
BEP ZRMTSAMPLEFLIGHT 1 OData Channel - Reference SFlight Data Provider RMTSAMPLEFLIGHT /IWFND/ 📝								
BEP ZRMTSAMPLEFLIGHT 2 1 OData Channel - Reference SFlight Data Provider RMTSAMPLEFLIGHT 2 //WBEP/								
BEP RSAO ODATA SRV 1 Tiogo and Bookmark access via Odata RSAO ODATA SRV 🕢 Not Supported								
BEP S EPM SADL GW DEV SCEN RO SRV 1 EPM: SADL-based GW-Service 'NW 2013 Dev. Sce, S EPM SADL GW DEV SCEN RO SRV								
BEP ZSAMPLE EPM EMPLOYEE LIST 1 Sample employee ist service based on EPM SAMPLE EPM EMPLOYEE LIST /UI2/ V								
BEP ZSAMPLE EPM POWL CACHED 1 Sample POWL for APPLID EPM_POWL (customizin_ <u>SAMPLE EPM POWL CACHED</u> //UI2/								
BEP ZSAMPLE EPM POWL CODED 1 Sample POWL for APPLID EPM_POWL (ABAP code) SAMPLE EPM POWL CODED //UI2/								
BEP ZSAMPLE EPM POWL CUST 1 Sample POWL for APPLID EPM_POWL (customizin_ SAMPLE EPM POWL CUST //UI2/								
BEP ZSAMPLE POWL SFLIGHT ALL 1 Sample flight service based on POWL framework SAMPLE POWL SFLIGHT ALL /UI2/ 🖌								
BEP <u>SEPM HANA EXT PAL ODATA SRV</u> 1 SEPM_HANA_EXT_PAL_ODATA <u>SEPM HANA EXT PAL ODATA SRV</u> V Not Supported								
BEP ZSM CATALOG SRV 1 Social Media Remote Catalog OData Service SM CATALOG SRV 🕢								
C Ci Node . C all Browser 🖓 SAP Gateway Clent	1							
ICF Nodes System Aliases								
Status ICF Node Session Time-out Soft State Description SAP System Alas Description Default MM	tadata I							
COB ODATA 00:00:00 Standard Mode								

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

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

Figure 3-19 New Entries for System Alias

다 Table View Edit Goto Selection Utili	ties S <u>v</u> stem <u>H</u> elp			
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Change View "Assign SAP System	m Aliases to OData S	ervice": Overview		
🎾 New Entries 🐚 🖬 🕼 🖪				
Assign SAP S, New Entries (F5) Jata Service				
Service Doc. Identifier	User Role Host Name	SAP System Alias	Default System	Metadata Default

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

Figure 3-20 Assign SAP System Alias to Service

다	election <u>U</u> tilities S <u>y</u> stem <u>H</u>	elp							
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Change View "Assign S	SAP System Aliases to	OData Service": (Overview						
💖 New Entries 🗈 🗟 🛱 🖡	🦻 New Entries 🗅 B 🕫 🗟 🗟								
Assign SAP System Aliases to ODat	ta Service								
Service Doc. Identifier	User Role Host Na	me SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name			
/INVCEC/RACE_SRV_0001		ERD	<		/INVCEC/RACE_SRV	RACE_SRV	*		
							*		

3.4. Activate UI5 Service

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

To activate UI5 Service:

- | 3 Install RACE[™] SAP[®] ECC and Gateway
 - 1. Go to the transaction code SICF and navigate to /default_host/sap/bc/bsp/invcec/ race_ui5_2009.
 - 2. Right-click RACE_ui5_2009 and click Activate Service.

Figure 3-21 Activate RACE BSP Service



- 3. Click Yes.
- 4. Go to /default_host/sap/bc/ui5_ui5/ invcec/race_ui5_2009.

Figure 3-22 Activate RACE UI5 service

Define Servic	es			
Create Host/Service	% ⇔ A ∏ =	Evternal Alases	🖺 🧏 📕 System Monitor Ar	two Te
create most permet	10203	- CALCUTION PRODUCT	C I - Statem Homes He	uru j.
Filter Details				
Virtual Host		Service Path		
ServiceName	*RACE*UI5*2009*			
Description				
Lang.	English 💌	Ref.Service:	New Sub-Element	
Apply	Reset	Fine-Tune	Display Service	
			Delete Service	
			Bename Service	
Victualla Marte / Cand	-	Decumentation	Activate Service	Lana Canica
default host	ces	VIRTUAL DEEAL	Deactivate Service	Tenz Service
* G can		SAP NAMESPAC	Test Service	
• 🕲 bc		BASIS TREE (BA	Test service	
• 😒 bsp		BUSINESS SERV	References to Service	
• 🕲 I	invcec	namespace	Obj. Directory Entry	
•	🖗 race_ui5_2009	RACE 2009 UIS	Qut	
* 🕲 u5_	,u5	SAPUI5 Applicat	Copy	
• 🕲 I	nvcec	Namespace.	Paste	
	@ race ul5 2009	RACE 2009 UIS .	No. of Concession, Name	

- 5. Right-click **RACE_UI5_2009** and click **Activate Service**.
- 6. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_ui5_2009/ index.html?sap-client=100
- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_ui5_2009/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false

3.5. Activate FIORI Service

Activate FIORI service after you have activated UI5 service.

To activate FIORI Service:

- | 3 Install RACE[™] SAP[®] ECC and Gateway
 - 1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/bsp/invcec/**

race_fiori_2009.

2. Right-click **RACE_FIORI_2009** and click **Activate Service**.

Figure 3-23 Activate RACE FIORI Service

Define Service	85		
Create Host/Service	🦻 🔂 🖬) 🔿 External Alases 🛛 🏷	🎋 🏴 System Monitor Active 🛛 📲
Filter Details			
Virtual Host		Service Path	
ServiceName	*RACE*FIORI*	2009*	
Description			
Lang.	English	Ref.Service:	
P Apply	ኛ Reset	Fine-Tune	
20			
Virtuelle Hosts / Service	es	Documentation	Referenz Service
default_host		VIRTUAL DEFAULT HO	DST
• 😥 sap		BACIC TREE (BACIC EI)	INCTIONS)
• 🖸 bsp		BUSINESS SERVER PAG	GES (BSP) RUNTIME
• 🕲 in	vcec	namespace	and four Australian
• 6	race_fiori_200	a and a state	
• 🕲 u6_u	15	New Sub-Element	SAPUIS Apple
• 🕲 in	vcec	Display Service	
• 6	race_fiori_200	Delete Service	
		Bename Service	
		Activate Service	
		Deactivate Service	
		Test Service	
	-	References to Service	
		Obi Directory Entry	
	-	201. Directory Entry	
		Zue	
		Copy	
		Paste	SAP

3. Click Yes.

4. Go to /default_host/sap/bc/ui5_ui5/invcec/race_fiori_2009.

Figure 3-24 Activate RACE FIORI service

Filter Details Virtual Host ServiceName *RACE*FIORI*2	Service Pat		
Virtual Host ServiceName *RACE*FIORI*2	Service Pat		
ServiceName *RACE*FIORI*2		un l	
-	009*		
Description		New Sub-Flement	
Lang. English	 Ref.Servi 	Dispby Service	
🔽 Apply 🚾 Reset	10 F	Delete Service	
		Rename Service	
		Benerice Service	
/irtuelle Hosts / Services	Docur	Activate Service	Referenz Service
default_host	VIRTU	Deactivate Service	
* 🞯 səp	SAP N	Test Service	— T
• 🕲 bc	BASIS	References to Service	
• 🕲 bsp	BUSIN	Obj. Directory Entry	E
• 🐨 invoec	names PACE I	Qut	
• 🕲 u5 u5	SAPUI	Copy	
 Sinvcec 	Names	Paste	
 Image: Base State Image: Base State<	RACE FIC	ori Application	

5. Right-click **RACE_FIORI_2009** and click **Activate Service**.

6. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_fiori_2009/ index.html?sap-client=100
- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_fiori_2009/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false.

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

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

Note:

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

Table 3-3 RACE™ SAP® ECC Transports

Transport	Description	Dependency
ERDK909294	INNOV: RACE™:2009: ECC Objects	None

Table 3-4 RACE™ Gateway Transports

Transport	Description	Dependency
NG5K902535	INNOV RACE™ 2009 Gate- way Objects	None
NG5K902509	INNOV RACE™ 2009 UI5 Ap- plication	Import NG5K902535 before importing NG5K902509
NG5K902543	INNOV RACE™ 2009 Fiori Ap- plication	Import NG5K902509 before importing NG5K902543

Transport	Description	Dependency
NG5K902344	INNOV RACE™ 2009 Fiori	Import NG5K902305 before
	Launchpad Configurations	importing NG5K902344

Table 3-4 RACE[™] Gateway Transports (continued)

3.6.1. Transport Import procedure

Import transports in the order of dependency.

To install Transports:

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

• - i		
로 Queue <u>E</u> dit <u>G</u> oto <u>R</u> equest	Extras Environment System <u>H</u> elp	
✓ <	Legend Ctrl+Shift+F4 Personal Settings Ctrl+Shift+F12	📮 🗖 🕜 🖳
Import Queue: System El	Other Requests	Add
A = 7 4 0 7 4 60 A	Activate Inactive Requests	Find in Other Groups
	Delete Imported Requests	
Requests for EBS: 0 / 1		·

Figure 3-25 STMS_Import

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

Figure 3-26 Add Transport Request to Queue



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

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

Figure 3-27 Import Queue

U					
Impo	t Queue: S	yste	m EH7		
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🔛 Reque 🏹 Reque	sts for EH7: (st ERDK901948	0 / 1		01.08.2016 14:2	27:35
Number	Request	RC	Owner	Short Text	St
83	ERDK901948		E5000103		ц,

- 8. Enter the target client number in Target Client field.
- 9. Select Leave Transport Request in Queue for Later Import and Ignore Invalid Component Version.

10. Click 🗹.

Import Queue: System EH7	
3 🛓 🔻 🔍 🔍 🍞 🖆 🗞 🗎 🗒	a 🗟 🖴 暴 🐺 🕵 🚝 🖪
Requests for EH7: 0 / 1	Er Import Transport Request X Transport Request ERDK901948 INNOV:MWL:4.1.0:ECC objects Target System EH7 System EH7 Target Client 800 Targ.Client=Source Client
Number Request RC Owner	
	Import Options Import Transport Request in Queue for Later Import Import Transport Request Again Overwrite Originals Overwrite Objects in Unconfirmed Repairs Ignore Non-Permitted Transport Type Ignore Non-Permitted Table Class Ignore Predecessor Relations Ignore Invalid Component Version

Figure 3-28 Import Transport Options

- 11. Click **Yes** in the confirmation screen.
- 12. Capture the screenshots of the imported transports.

Figure 3-29 Imported Transports

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

13. Add all transports in the order specified.

Note:

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

3.6.2. Verify SAP[®] ECC RACE[™] Transport

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

To verify the SAP® ECC Transport:

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

Figure 3-30 Function Builder Initial Screen

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

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

Figure 3-31 Function Module Classes

Funct	ion Builder: Initial Screen			
ii / 8	🛱 📫 🚺 📅 🗊 🚺 Reassign			
	C Repository Info System: Function Ma	dules Find (22 Hits)		×
Function I				-
	-	-		-
0	Function group	Function group short text		
64, r	Function Module Name	Short text for function module		
	INVMGO/FXTENSIONS EG	Fytensions		
	/INVMGO/BAPI ATTACHMENTS LIST	List of Attachments		
	/INVMGO/BAPI ATTACH DOWNLOAD	Attachment Download		
	/INVMGO/BAPI DYNAMIC DROPDOWN	Dynamic dropdown		
	/INVMGO/EXTENSION STRING FM	Preparing Extension String.		
	/INVMGO/FM CUSTOM DROPDOWN	Custom drop down		
	/INVMGO/FM_DYNAMICGET_FM_CALL	Get the transform orders list		
	/INVMGO/FM_DYNAMICPOST_FM_CALL	Get the transform orders list		
	/INVMGO/FM_DYNAMIC_MODULE_ADD	Get the transform orders list		
	/INVMGO/FM_FIELDS_PROCESS	Processing fields and store in final internal table		33
	/INVMGO/FM_FUNCTION_FIELDS	Get the Function Module Parameters List		
	/INVMGO/FM_GET_FMLIST	Get the Function modules list for app specific		
	/INVMGO/FM_GET_TABLESLIST	Get the Function modules list for app specific		
	/INVMGO/GET_PARAMETERID_VALUES	Get Parameter ID vales		
	/INVMGO/SCOPING_FM	Scoping		
	/INVMGO/WHERE_CONDITIONS	Where Condition		
	/INVMGO/GLOBAL_FG	Global FG		
	/INVMGO/BAPI EXTENSION	Extension Header		
	/INVMGO/BAPI_UI_LABELS	UI Labels based on Language		
	/INVMGO/BAPI_USER_DETAILS	Logon User Details		
	/INVMGO/FM_CURRENCY_EXCHNG	Currench Exchange Rate		
	/INVMGO/FM_GET_CUURENCY_FORMAT	Currency Codes format		
	/INVMGO/FM_GET_DECIMAL_FORMAT	Date Notation Format		
				-
	< >		4 1	

3.6.3. Verify SAP® GW RACE™ Transport

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

To verify the SAP® GW Transport:

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

Figure 3-32 Object Classes

te Find (10 Hits)
Short Description
Gateway Data Provider: Interoperability 700
Gateway Model Provider: Interoperability
Data Provider Base Class
Data Provider Secondary Class
/INVCEC/CL_RACE_MPC
/INVCEC/CL_RACE_MPC_EXT
/INVCEC/IF_BAPI_ATTACH_DOWNLOA
/INVCEC/IF_BAPI_ATTACHMENTS_LI
/INVCEC/IF_FM_CUSTOM_DROPDOWN
/INVCEC/IF_ZDYNSCREENCONF

3.6.4. Activate RACE™ OData Service

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

To activate the RACE™ OData service:

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

A message appears notifying the package selection appears.

Activate and Maintain Services								
	2 T M // D . H . T Fitter	Add Service Delete Service Service Details	load Metadata	Request Statistics	esh Cat	alog 🔕 QAuth 🐚	Soft State	
-				The dates and a second second	con cut		Sore State	
Ser	vice Catalog							
Туре	Technical Service Name	V Service Description	External Service Name	Namespace	OAut	Soft State Status	Is SAP Se	
BEP	ZPAGE BUILDER CUST	1 Pagebuilder - Customizing level	PAGE BUILDER CUST	/UI2/	<			
BEP	ZPAGE BUILDER PERS	1 Pagebuilder - Personalization level	PAGE BUILDER PERS	/UI2/	<			
BEP	ZPAGEBUILDER SERVICE V 0 1	1 Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBUILDER SERVICE V 0 1	/UI2/	 Image: A start of the start of			
BEP	ZPP PRODOPS CONFIRM SRV	1 Confirm Production Order Operation	PP PRODOPS CONFIRM SRV		<			
BEP	ZQUICKVIEW	1 Quickview Service	QUICKVIEW	/UI2/	1			
BEP	/INVCEC/RACE_SRV	1 Global Extensions	RACE_SRV	/INVCEC/	V			
BEP	ZRMTSAMPLEFLIGHT	1 OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT	/IWFND/	v			
BEP	ZRMTSAMPLEFLIGHT 2	1 OData Channel - Reference SFlight Data Provider	RMTSAMPLEFLIGHT 2	/IWBEP/	\checkmark			
BEP	RSAO ODATA SRV	1 Tlogo and Bookmark access via Odata	RSAO ODATA SRV		√	Not Supported		
BEP	S EPM SADL GW DEV SCEN RO SRV	1 EPM: SADL-based GW-Service 'NW 2013 Dev. Sce	S EPM SADL GW DEV SCEN RO	SRV	√			
BEP	ZSAMPLE EPM EMPLOYEE LIST	1 Sample employee list service based on EPM	SAMPLE EPM EMPLOYEE LIST	/UI2/	 Image: A start of the start of			
BEP	ZSAMPLE EPM POWL CACHED	1 Sample POWL for APPLID EPM_POWL (customizin_	SAMPLE EPM POWL CACHED	/UI2/	√			
BEP	ZSAMPLE EPM POWL CODED	1 Sample POWL for APPLID EPM_POWL (ABAP code	SAMPLE EPM POWL CODED	/UI2/	 Image: A start of the start of			
BEP	ZSAMPLE EPM POWL CUST	1 Sample POWL for APPLID EPM_POWL (customizin_	SAMPLE EPM POWL CUST	/UI2/	-			
BEP	ZSAMPLE POWL SFLIGHT ALL	1 Sample flight service based on POWL framework	SAMPLE POWL SFLIGHT ALL	/UI2/	-			
ECHANG System was Eckemone system was feet was f								
E	ctivate		System Aliases					

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

The OData service is activated and the status turns green.

Figure 3-34 Service Status

Activate and Maintain Services										
		_			1.000				150 150	
	🕄 🚔 🐨 🔞 😥 🞼 🖌 🕅 Filter) 🔂 Add Service 🔟 Delete Service 💭 Belete Service Details 🗹 Load Metadata 😃 Error Log 🏭 Request Statistics 🕀 Refresh Catalog 🔍 OAuth 🔍 Soft State							Soft State		
Sen	vice Catalog									
Туре	Technical Service Name	^v	Service Description	Externa	Service Name	•	Namespace	OAut.	Soft State Status	Is SAP Service
BEP	ZPAGEBUILDER SERVICE V 0 1	1	Gateway Data Provider: Pagebuilder v0.1 (DB)	PAGEBL	ILDER SERVICE V 0	1	/UI2/	-		
BEP	ZPP PRODOPS CONFIRM SRV	1	Confirm Production Order Operation	PP PRC	DOPS CONFIRM SRV			-		
BEP	ZQUICKVIEW	1	Quickview Service	QUICKV	IEW		/UI2/	-		
BEP	/INVCEC/RACE_SRV	1	Global Extensions	RACE S	RV		/INVCEC/	-		
BEP	ZRMTSAMPLEFLIGHT	1	OData Channel - Reference SFlight Data Provider	RMTSA	IPLEFLIGHT		/IWFND/	-		
BEP	ZRMTSAMPLEFLIGHT 2	1	OData Channel - Reference SFlight Data Provider	RMTSA	APLEFLIGHT 2		/IWBEP/	-		
BEP	RSAO ODATA SRV	1	Tlogo and Bookmark access via Odata	RSAO (DDATA 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 SCE	N RO SRV		-		
BEP	ZSAMPLE EPM EMPLOYEE LIST	1	Sample employee list service based on EPM	SAMPLE	EPM EMPLOYEE LI	<u>st</u>	/UI2/	~		
BEP	ZSAMPLE EPM POWL CACHED	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CACHE	D	/UI2/	-		
BEP	ZSAMPLE EPM POWL CODED	1	Sample POWL for APPLID EPM_POWL (ABAP code)	SAMPLE	EPM POWL CODED		/UI2/	~		
BEP	ZSAMPLE EPM POWL CUST	1	Sample POWL for APPLID EPM_POWL (customizin	SAMPLE	EPM POWL CUST		/UI2/	-		
BEP	ZSAMPLE POWL SFLIGHT ALL	1	Sample flight service based on POWL framework	SAMPLE	POWL SFLIGHT AL	L	/UI2/	-		
BEP	SEPM HANA EXT PAL ODATA SRV	1	SEPM_HANA_EXT_PAL_ODATA	SEPM H	ANA EXT PAL ODA	TA SRV		-	Not Supported	
BEP	ZSM_CATALOG_SRV	1	Social Media Remote Catalog OData Service	SM CA	TALOG SRV			-		
IO	F Node 🖌 🔯 Call Browser 🖳 SAP Gateway	Client			C Add System Alias	Remove System	Alias & Cust	tomizing	I & Service Impler	nentation
ICF	ICF Nodes					ses				
State	us ICF Node Session Time-out Soft	State	Description		SAP System Alias	Description			Defaul	t Metadata
00	ODATA 00:00:00		Standard Mode							

6. Click **Add System Alias** above **System Aliases** on the right to add the SAP System alias for the selected service.
- | 3 Install RACE[™] SAP[®] ECC and Gateway
 - 7. Click New Entries.

Figure 3-35 New Entries for System Alias

다 _able View _Edit _Goto _Selection _Utili	ties S <u>y</u> stem <u>H</u> elp			
Ø 🔹 🗸 🖌 🖉	0,008 0414 0	X 🛒 🗾 😵 📭		
Change View "Assign SAP System	m Aliases to OData S	ervice": Overview		
🎾 New Entries 🐚 🖬 🕼 🖪				
Assign SAP SNew Entries (F5) Data Service				
Service Doc. Identifier	User Role Host Name	SAP System Alias	Default System	Metadata Default

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

Figure 3-36 Assign SAP System Alias to Service

로 Table View Edit Goto Selec	tion <u>U</u> tilities S <u>y</u> stem <u>H</u> elp						
🔮 🔍 👻 🤘	i 🕲 🚱 😫 i 🚔 ii iii ii 🏝	12121 🖬 🗖 🗖 🛯	0 🖷				
Change View "Assign SA	P System Aliases to OL	Data Service": Ov	erview				
💖 New Entries 🗈 🗟 🕫 🕃 🖪	8 B.						
Assign SAP System Aliases to OData S	ervice						
Service Doc. Identifier	User Role Host Name	SAP System Alias	Default System	Metadata Default	Tech. Svc. Name	Ext. Service Name	
/INVCEC/RACE_SRV_0001		ERD	✓		/INVCEC/RACE_SRV	RACE_SRV	*
							-

3.6.5. Activate UI5 Service

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

To activate UI5 Service:

- | 3 Install RACE[™] SAP[®] ECC and Gateway
 - 1. Go to the transaction code SICF and navigate to /default_host/sap/bc/bsp/invcec/ race_ui5_2009.
 - 2. Right-click RACE_ui5_2009 and click Activate Service.

Figure 3-37 Activate RACE BSP Service



- 3. Click Yes.
- 4. Go to /default_host/sap/bc/ui5_ui5/ invcec/race_ui5_2009.

Figure 3-38 Activate RACE UI5 service



- 5. Right-click RACE_UI5_2009 and click Activate Service.
- 6. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_ui5_2009/ index.html?sap-client=100
- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_ui5_2009/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false

3.6.6. Activate FIORI Service

Activate FIORI service after you have activated UI5 service.

To activate FIORI Service:

- | 3 Install RACE[™] SAP[®] ECC and Gateway
 - 1. Go to the transaction code SICF and navigate to **/default_host/sap/bc/bsp/invcec/**

race_fiori_2009.

2. Right-click **RACE_FIORI_2009** and click **Activate Service**.

Figure 3-39 Activate RACE FIORI Service

Define Services	5							
Create Host/Service	> 🔂 🖸 🚺	🗢 External Alases	0 😕	Nystem Monitor	Active			
Filter Details								
Virtual Host		Service Path						
ServiceName	RACE FIORI 20	09*						
Description								
Lang. E	English •	 Ref.Service: 						
P Apply	ኛ Reset	Pine-Tun	e					
5.0								
Virtuelle Hosts / Services		Documentatio	0		Referenz Service			
 I default host 		VIRTUAL DEFA	ULT HOST		THE STORE STORE			
• 😒 sap		SAP NAMESPA	CE; SAP IS	OBLIGED NOT T				
* 😡 bc		BASIS TREE (B	ASIS FUNCT	TIONS)				
🔻 💿 bsp		BUSINESS SER	VER PAGES	(BSP) RUNTIME				
 Invo 	cec	namespace						
100 ·	race_fion_200	New Sub-Element		CADLITE Apple				
• @ uo_uo	, nec	Display Service		SAPUIS Apple				
· 🕅	race_fiori_200	Delete Service						
		Rename Service						
		Arthoto Service						
		Deacthote Service						
		Meacuvate Service						
		Test pelvice						
		References to Ser	rvice					
		Obj. Directory Ent	JY					
		Qut					< >	
		Copy						
		Paste				SAP		
				1				

3. Click Yes.

4. Go to /default_host/sap/bc/ui5_ui5/invcec/race_fiori_2009.

Figure 3-40 Activate RACE FIORI service

Create Host/Service 🦻 🔟 🕯	External A	ilases 🕕 🎊 🏴 System i	Monitor Active
Filter Details			
Virtual Host	Service Pa	th	
ServiceName *RACE*FIORI*200	9*		
Description Lang. English Apply Reset	Ref.Servi	<u>N</u> ew Sub-Element <u>D</u> isplay Service <u>D</u> elete Service	
)		Rename Service	
Virtuelle Hosts / Services Virtuelle Hosts / Services Generation of the services Services Services Services Services Services Services Services Services Services Services Services Services Services Services Services Services Services Services Services S	Docur VIRTU SAP N BASIS	Deactivate Service Test Service References to Service	Referenz Service
	RACE I SAPUI Names	Qbj. Directory Entry Qut Qopy Paste	
• 🔞 race_flori,2009	RACE F	xi Application	
	4.5.5		

5. Right-click **RACE_FIORI_2009** and click **Activate Service**.

6. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invcec/race_fiori_2009/ index.html?sap-client=100
- http://**<hostname>**:**<port_number>**/sap/bc/ui5_ui5/invcec/race_fiori_2009/ index.html?sap-client=**100**&sap-ui-language=EN&sap-ui-appcache=false.

4. Install mAssetTag SAP® ECC, Gateway, and UI5

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

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

Note:

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

Туре	Add-On	Description	Dependency
Add-on	EWH0090055494	IN-	Install RACE™ Add-On
	0000002.PAT	NOV:MAT:2009:ECC	(EWH0090055494
		Objects	0000006.PAT) before in-
			stalling the MAT Add-
			On (EWH0090055494
			0000002.PAT)

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

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

Туре	Add-On	Description	Dependency
Add-on	NWH0090055495	IN-	Install RACE™
	000004.141	way Objects and UI5 application	(NWH0090055495 0000002.PAT)
			before installing the MAT Add-On (NWH0090055495 0000004.PAT)

Туре	Add-On	Description	Dependency
Add-on	NWH0090055495 0000010.PAT	INNOV:MAT:2009: Fiori application	Install RACE™ Add-on (NWH0090055495 0000002.PAT) before installing the MAT Add-On (NWH0090055495 0000010.PAT)

Table 4-2 MAT Gatewo	y Add-On and Supp	port Packages ((continued)
----------------------	-------------------	-----------------	-------------

For steps to install Add-ons, see Install mAssetTag SAP® ECC, Gateway, and UI5 Add-ons and support packs *(on page 43)*.

4.1. Install mAssetTag SAP® ECC, Gateway, and UI5 Addons and support packs

Install the add-ons and support packs at one go using the steps given below. However, if you have already installed add-ons and now you want to install the support packs (hotfixes), follow the procedure detailed in Install mAssetTag SAP® ECC, Gateway, and UI5 support packs *(on page 51)*.

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

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

Note:

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

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

Figure 4-1 SAINT



6. Click Yes in the confirmation screen.

Packages are loaded in the file system

Figure 4-2 SAINT: Upload Packages

SAINT: Uploading Packages from the File System						
3 🛱 🛆 🖄 🕼 📾 (Choose S	aving				
o co cla trans			n	2.5		
OCS HIE Name	Package		Result	RC	Message Lext	
NGA0020732638_0000028.PAT	SAPK-N65CO	ININVCEC	000	0000	Uploaded successfully	

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

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

Add-On II	nstallatio	n Tool	- Version 7.40/0061	
🧐 📓 🛙 📔	E			
	Add-0)n Insta	llation Tool : Installed Add-ons	
Add-ons and	Preconfigured	Systems i	nstalled in the system	
Add-on/PCS	Release	Level	Description	Import 🛄
PI_BASIS	740	0008	Basis Plug-In	OC
SAP_ABA	740	8000	Cross-Application Component	00
SAP_BASIS	740	0008	SAP Basis Component	00
SAP_BW	740	0008	SAP Business Warehouse	00
SAP_GWFND	740	0012	SAP Gateway Foundation 7.40	00
SAP_UI	740	0009	User Interface Technology 7.40	00
ST-PI	740	0000	SAP Solution Tools Plug-In	00
				*
				×
				< >
Status/Remark	s			
🔒 🚹 The over	view shows yo	u the inst	alled Add-ons and Preconfigured systems	
- Choose [S	TART] to start	an installa	ation or an upgrade	
-				
B Back	R o	Start	7	Cancel
Dack	·	Juan	J.	a cancer

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

Add-On Inst	tallation T	ool - Version 7.40/0061	
🥶 🔟 🗶 🔄			
	Add-on	Installation Tool: Add-on selection	
88 🗗 🋸	Stack Config	uration 🔍 🧟 Stack XML File	
Installable Add-or	n packages for y	our system	
Add-On	Release	Description	Package type
INVCEC	NGW_605	INVCEC NGW_605: Add-On Installation	Installation
_			
		d b	
			. ,
Status/Remarks			
🚹 Select one or	r several packag	es from the installable Add-on packages	
- Choose [CONT	'INUE) to start i	the calculation of the installation queue	
- Choose [BACK] to go back to	the overview of the installed Add-ons	
- Choose [LOAD) to load additio	onal packages from the application server	

Figure 4-4 Select Add-on

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

The OCS packages that are going to be imported are displayed in the next screen. 10. Click **Continue** to proceed to the next step.

Add-On Installa	tion Tool - Versid	on 7.40/0061		
🧐 📓 🖹 📘				
Inst	allation of several	Add-ons : Calcula	ted queue	
Installation queue	Software Components			
OCC englished for im-				
OCS packages for imp	Declares trees	Coffeena Commo	Delesse	Chart deserie
CARK AKECOTATIAN/CEC	Package type	Software Compo	NOW 605	
SAPK-NOSCOININVCEC	Installation	INVCEC	NG99_005	INVCEC NGW
				Ψ.
	◀ ▶			< >
Status/Remarks				
The displayed pack	ages must be imported wi	hen installing the Add-	on	
- You have not select	ed any further Support Pa	ackades		
- Choose [CONTINUE]	to add Modification Adjus	stment Transports to 1	the queue	
- Choose [BACK] to a	o back to the Support Par	kage selection		
anosse (ernent) to g				
යි Back 🔂	Continue 🛛	Logs Sci	reen 3 / 6	× Cancel

Figure 4-5 Add-on Queue

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

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

4.1.1. Verify SAP® ECC MAT Add-On

To verify the SAP® ECC MAT add-on:

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

Figure 4-6 Function Builder Initial Screen

Function Builder: Initial Screen
🖆 🧪 🖳 🕂 📅 🗀 🚯 Reassign
Function Modulo
ିଟ୍ Display 🖉 Change 🗋 Create

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

Function Bui	ilder: Initial Screen		
🍰 🥕 🖳 🔶 🖬	📅 🗊 😥 Reassign		
			-
Function Medule	Function group	Function group short text	•
Function Module	Function Module Name	Short text for function module	
ිි Display	/INVMAT/ASSETADMIN_FG	Asset Admin	
	/INVMAT/ASSETS_TO_BATCH_NUMBER	Assign Assets to the Batch number	
	/INVMAT/ASSET_INVENTORY_STATUS	Get Asset Inventory Status	
	/INVMAT/ASSET_INVENTORY_UPDATE	Asset Inventory Status Update	
	/INVMAT/ASSET_LOCATION_DROPDWN	To get list of asset locations	
	/INVMAT/ASSIGN_ASSETS_TO_USER	Assign Assets to the end user	
	/INVMAT/DD_DOC_TYPES	Document types Drop Down	-
	/INVMAT/DD_TRADING_PARTNERS	Trading partners	-
	/INVMAT/DD_TRANS_TYPES	Drop down for Asset transaction types	-
	/INVMAT/FM_ASSET_CAPATALIZ_ITM	Asset capitalization Items	
	/INVMAT/FM_ASSET_SCHEDULER	Asset Scheduler	-
	/INVMAT/FM_ASSET_STATUS	To Get Asset Status	-
	/INVMAT/FM_ASSET_UCONSTR_DETAI	Asset under construction details	-
	/INVMAT/FM_BATCHNUMBER_LIST	Get Batch number list	-
	/INVMAT/FM_CAP_REAUQEST_ID	Asset capitalization ID drop down	-
	/INVMAT/FM_CREATE_ASSET	Create Asset	
	/INVMAT/FM_DDKOSTL_LIST	Get Cost Center List	
	/INVMAT/FM_DDPLANT_LIST	Get Plant List	
	/INVMAT/FM_GET_MOBILE_ASSETS	Get the mobile assets details	
	/INVMAT/FM_GET_WBS	Get cost centers from company code	-
	/INVMAT/FM_PROJECT_DETAILS	Get project Details	-
	/INVMAT/FM_USER_DETAILS_LIST	Get User Details	
	/INVMAT/MASSET_KPI_FM	Get Asset KPI Details	_
	/INVMAT/POST_ASSETCAPITAL	Post Asset Capitalization data	-
			-
	4 >		•
		✓ </td <td>×</td>	×

Figure 4-7 Function Modules

4.1.2. Verify SAP® GW MAT Add-On

To verify the SAP[®] GW MAT add-On:

- | 4 Install mAssetTag SAP® ECC, Gateway, and UI5
 - 1. Navigate to the transaction code **SE24**.
 - 2. Enter **object type** to search for all objects **/INVMAT/***.

Figure 4-8 Function Builder Initial Screen

Function Builder: Initial Screen
🖆 🥕 🐺 🕂 📅 🖆 🚯 Reassign
Function Modula
😚 Display 🖉 Change 🗋 Create

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

Class Buil	der: Initial Screen		
i 🥻 🧪 🖳 🚭	፤ 📅 🗀 😥 Class Browser		
	🖻 Repository Info System: Class/Inter	rface Find (82 Hits)	×
Object type	Object Type Name	Short Description	-
		•	-
Sec Display	/INVMAT/CL_ASSET_ADMIN_DPC	Data Provider Base Class	
	/INVMAT/CL_ASSET_ADMIN_DPC_EX	T Data Provider Secondary Class	
	/INVMAT/CL_ASSET_ADMIN_MPC	/INVMAT/CL_ASSET_ADMIN_MPC	
	/INVMAT/CL_ASSET_ADMIN_MPC_EX	T /INVMAT/CL_ASSET_ADMIN_MPC_EXT	
	/INVMAT/CL_MASSETTAG_2_DPC	Data Provider Base Class	
	/INVMAT/CL_MASSETTAG_2_DPC_EX	T Data Provider Secondary Class	
	/INVMAT/CL_MASSETTAG_2_MPC	/INVMAT/CL_MASSETTAG_2_MPC	-
	/INVMAT/CL_MASSETTAG_2_MPC_EX	T /INVMAT/CL_MASSETTAG_2_MPC_EXT	
	/INVMAT/IF_ASSET_INVENTORY_ST	A /INVMAT/IF_ASSET_INVENTORY_STA	
	/INVMAT/IF_ASSET_LOCATION_DRO	<pre>P /INVMAT/IF_ASSET_LOCATION_DROP</pre>	
	/INVMAT/IF_BAPI_USER_DETAILS	/INVMAT/IF_BAPI_USER_DETAILS	
	/INVMAT/IF_BAPI_USER_DETAILS1	/INVMAT/IF_BAPI_USER_DETAILS1	
	/INVMAT/IF_DD_BATCH_FM	/INVMAT/IF_DD_BATCH_FM	
	/INVMAT/IF_DD_COMPANYCODE_FM	/INVMAT/IF_DD_COMPANYCODE_FM	
	/INVMAT/IF_DD_DOC_TYPES	/INVMAT/IF_DD_DOC_TYPES	
	/INVMAT/IF_DD_MATERIAL_FM	/INVMAT/IF_DD_MATERIAL_FM	
	/INVMAT/IF_DD_MATERIAL_GROUP_	F /INVMAT/IF_DD_MATERIAL_GROUP_F	
	/INVMAT/IF_DD_MOVEMENT_TYPE	/INVMAT/IF_DD_MOVEMENT_TYPE	
	/INVMAT/IF_DD_PLANTS_FM	/INVMAT/IF_DD_PLANTS_FM	
	/INVMAT/IF_DD_SLOC_FM	/INVMAT/IF_DD_SLOC_FM	
	/INVMAT/IF_DD_TRADING_PARTNER	S /INVMAT/IF_DD_TRADING_PARTNERS	
	/INVMAT/IF_DD_TRANS_TYPES	/INVMAT/IF_DD_TRANS_TYPES	
	/INVMAT/IF_FM_ASSET_CAPATALIZ	/INVMAT/IF_FM_ASSET_CAPATALIZ_	
	/INVMAT/IF_FM_ASSET_CLASS_GE3	/INVMAT/IF_FM_ASSET_CLASS_GE3	
	/INVMAT/IF_FM_ASSET_CLASS_GE5	/INVMAT/IF_FM_ASSET_CLASS_GE5	
			-
	4 1	***	F

Figure 4-9 Object Classes

4.2. Install mAssetTag SAP® ECC, Gateway, and UI5 support packs

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

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

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

A confirmation message appears to confirm loading of packages.

Figure 4-10 SAINT

C	Support Package	Edit <u>G</u> oto	Extr <u>a</u> s	Utilities	Engironment	System	Help
	Load packages)		Erom Front A	End	1 6 2	🐺 🗾 🕜 🖪
	Import SPAM/SAI	NT Update		From Applica	ation Server		
	Import gueue	Shift+F7	- 1	ersion)	7.40/0061	_	
	c <u>C</u> onfirm	Shift+F6					
	Exit	Shift+F3	_				
	ENI	Shirt+F3					

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

Packages are loaded in the file system

Figure 4-11 SAINT: Upload Packages



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

Figure 4-12 Support Package Manager

🔄 Support Package	<u>E</u> dit <u>G</u> oto Extr <u>a</u> s	Utilities Environment S	ystem Help
0	- 4 🔲 🗠	🚱 😪 🗅 🖬 🕊 42 45	al 🕄 🛒 🗾 🍞 📑
Support Paci	kage Manager - V	ersion 7.40/0054	
🔒 🧟 🖻 🖉 💅			
Queue		Display/define]
		<u>L</u>	

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

click 🗹.

Figure 4-13 Component Selection

CompID R ECC-DIMP 6	ML file 🖌 Release			
CompID R	Release			
ECC-DIMP 6		Short Description of Component	Support Package type	
	600	DIMP	Add-on Support Pkg.	-
ERECRUIT 6	500	E-Recruiting	Add-on Support Pkg.	
FI-CA 6	00	FI-CA	Add-on Support Pkg.	
FI-CAX 6	500	FI-CA Extended	Add-on Support Pkg.	
INSURANCE 6	00	SAP Insurance	Add-on Support Pkg.	
IS-CWM 6	500	Industry Solution Catch Weight Mana	Add-on Support Pkg.	
<u>IS-H</u> 6	500	SAP Healthcare	Add-on Support Pkg.	
<u>IS-M</u> 6	500	SAP MEDIA	Add-on Support Pkg.	
IS-OIL 6	500	IS-OIL	Add-on Support Pkg.	
IS-PS-CA 6	00	IS-PUBLIC SECTOR CONTRACT ACCO	Add-on Support Pkg.	ſ
<u>IS-UT</u> 6	500	SAP Utilities/Telecommunication	Add-on Support Pkg.	
LSOFE 6	500	SAP Learning Solution Front-End	Add-on Support Pkg.	3
SEM-BW 6	500	SEM-BW: Strategic Enterprise Manag	Add-on Support Pkg.	
INVMGO E	CC_603	Innovapptive ECC RACE 6.0.3 Addon	Add-on Support Pkg.	

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

Figure 4-14 Confirm Queue

	🖻 Define Queue for the Add-On INVMGO rel. ECC_603							
	Choose the highest S	upport Pack	age you wan	t or confirm the	queue			
			1					
	Package ID	CompID	Release	Short Description	on			
	SAPK-E6302ININVMG0	INVMGO	ECC_603	INVMGO ECC_603:	SP 2			
١	< >	20 20	4]	< >		
						✔₽₽₽₩		

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

¢	Support Package	Edit <u>G</u> oto E	ras Utilities Environment Sy	/stem Help
(Load packages	•	C 🙆 🚷 🗅 🗑 🔛 1 🏵 1	li 21 🛒 🗖 🛞 🖪
_	Import SPAM/SAI	NT <u>U</u> pdate		
	Import gueue	Shift+F7	Version 7.40/0054	
G	<u>C</u> onfirm	Shift+F6		
	Exit	Shift+F3		
Q	Jeue SAI	PK-E630	Status]
(New Support Packag	es	Queue is defined for the	
0	Aborted Support Pac	kages	Software Component: IN	IVMGO
0	Imported Support Pa	ickages	SPAM status:	0
	All Support Packages		Next action: Imp	oort queue
	ିଙ୍ Display		67 Package level	

Figure 4-15 Import Queue

10. Click \checkmark to start the import process.

Figure 4-16 Import Queue Confirm



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

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

A confirmation message appears.

Note:

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

Figure 4-17 Confirm Support Package

C	Support Package E	jit <u>G</u> oto	Extr <u>a</u> s	Utilities	Engironment	System	Help
(Load packages		ک 🕲 ۱	0	3 H H I 3	10.0.20	🛒 🗾 😰 📑
_	Import SPAM/SAIN	T <u>U</u> pdate					
	Import gueue	Shift+F7	- Ve	rsion 7	7.40/0054	:	
6	Confirm	Shift+F6					
	Exit	Shift+F3					
Q	ueue SAPK	(-E630		1	Display/define		
1	Directory			Status			
(New Support Packages	5		Queue	e imported for t	he	
(Aborted Support Packa	ages		Softw	are Component	: INVMGO	
(Imported Support Pack	kages		SPAM	status:	040	
(All Support Packages			Next a	action:	Confirm qu	eue

4.3. Activate mAssetTag OData Service

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

To activate OData services for mAssetTag :

- 1. Run transaction **/IWFND/MAINT_SERVICE**.
- 2. Select the service: /INVMAT/ MASSETTAG_2_SRV.
- 3. Click Activate from the drop-down list of ICF Node options.

A message appears notifying the package selection.

Figure 4-18 Activate and Maintain Services

Ac	tivate and Maintain Services									
_		_								
	🚊 🗟 🛗 🟠 🐼 🖬 🖉 Fiter	Eo Ad	ld Service 🛅 Delete Service 📔 Service Details 🥳	Load M	etadata 📔 🔡 Error Log 🛛 🏪 Request Sta	atistics 🛛 🔂 Refr	esh Cat	alog 🔍 OAuth 🔍	Soft State	
er	vice Catalog									
vne	Technical Service Name	Ver	Service Description	Externa	Service Name	Namesnace	OAut	Soft State Status	Is SAP Service	
P	/INVMAT/ASSET ADMIN SRV	1	Asset Admin OData Services	ASSET	ADMIN SRV	/INVMAT/		Not Supported		
P	/INVMAT/MASSETTAG 2 SRV	1	Mobile Asset Tagging	MASSE	TTAG 2 SRV	/INVMAT/	V	Not Supported		
P	/INVCEC/ILM_SRV	1	Mobile License Management	ILM SR	V	/INVCEC/		Not Supported		
P	/INVCEC/RACE_SRV	1	Global Extensions	RACE S	SRV	/INVCEC/		Not Supported		
р	P DAAG MNGGRP 1 Data Aging P		Data Aging Manage Groups	ta Aging Manage Groups DAAG MNGGRP						
р	DAAG MONOBJ	1	Data Aging Monitor Objects	DAAG	MONOBJ					
р	EPM LANES DEMO SRV	1	EPM: Gateway Service for Lanes Page Demo	EPM LA	ANES DEMO SRV					
P	EPM OIA APPS GW SERVICE SRV	1	CL_EPM_OIA_APPS_GW_SER_DPC_EXT	EPM O	IA APPS GW SERVICE SRV		V			
P	EPM OIA BPFACTSHEET SRV	1	EPM OIA: Open Item Analysis Dashboard - BP Fact,	EPM O	IA BPFACTSHEET SRV		V			
P	EPM OIA BPOPENINV SRV	1	EPM OIA:Open Item Analysis Dashboard - BP Ope	EPM O	IA BPOPENINV SRV		V			
P	EPM OIA CTRYSALESTREND SRV	1	EPM OIA: Open Item Analysis Dashboard - Countr.	EPM O	IA CTRYSALESTREND SRV					
P	EPM OIA DFG GW SERVICE SRV	1	CL_EPM_OIA_DFG_GW_SERV_DPC_EXT	EPM O	IA DFG GW SERVICE SRV					
P	EPM OIA FIORI GW SERVICE SRV	1		EPM O	IA FIORI GW SERVICE SRV					
P	EPM OIA FIORI SRV	1	EPM OIA: Open Item Analysis Dashboard - Launch,	EPM O	IA FIORI SRV		V			
P	EPM OIA GW SALES HISTORY SRV	1	CL_EPM_OIA_GW_SALES_HI_DPC_EXT	EPM O	IA GW SALES HISTORY SRV		-			
		Chart	1					11 Recentres treates		
IC	F Node I Call Browser 1 SAP Gateway	Client]		Eo Add System Alas Eo Remove Syste	m Allas Jpar Cust		Tipe, service implen	hencation	
	Activate				System Aliases					
- 4								Defent		and Dala
2	Deactivate Session Time-out Soft	State	Description		ISAP SVERAM AIDS IN ACCOUNTION					

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

The OData service is activated and the status turns green.

- 5. Click **Add System Alias** above **System Aliases** on the right to add the SAP System alias for the selected service.
- 6. Click New Entries.
- 7. Assign the System Alias (ETT in this case) for the service and save changes. Repeat the steps 3 to 7 to activate service: **/INVMAT/ASSET_ADMIN_SRV**.

4.4. Activate Gateway UI5 Service

Activate gateway UI5 service, once mAssetTag OData service is activated.

To activate Gateway UI5 Service:

- 1. Go to transaction code SICF and search for the service **mat_ui5_2009**.
- 2. Right-click the mAssetTagui5 service under *default_host* > *sap* > *bc* > *ui5_ui5* > *INVMAT* > *mat_ui5_2009* and click **Activate Service**.

Maintain service		
Create Host/Service 🔗 📅 🔂 🚺 🔿 E	external Alases 🛛 💟 🎉 🏴 Syst	em Monitor Active 📲
Fitter Details Virtual Host Ss ServiceName MAT_UI5_2009 Description Image: English Lang. English R Virtuelle Hosts / Services Virtuelle Hosts / Services Virtuelle Hosts / Services Services Virtuelle Hosts / Services Services Virtuelle Hosts / Services Services Sep Sep Sep Sep Service Name Services Service Name Services Service Name Services Sep Services Sep Services Sep Services Sep Sep Se	New Sub-Element Display Service Delete Service Rename Service Activate Service Test Service Test Service Test Load Balancing References to Service Obj. Directory Entry Out Copy Dester SAPUIS Application Handler SAPU DIVMAT mAssettag UIS Application .	Referenz Service NOT T INTIME IS Applc
	< >	

Figure 4-19 Activate MAT UI5 Service

3. Right-click the mAssetTagui5 service under *default_host > sap > bc > bsp > INVMAT >mat_ui5_2009* and click **Activate Service**.

A message prompts you to activate the service.

Maintain service				
Create Host/Service 🔣 📅 🔂 🚺 🔿 External Alases 🛛 🏋 🎘 System Monitor Active 📑				
Filter Details Virtual Host Se ServiceName MAT_UI5_2009 Description Lang. English Re	rvice Path New Sub-Element Display Service Delete Service			
Vrtuele Hosts / Services • C default_host • Sap	Rename Service Activate Service Reactivate Service Test Service Test Load Balancing	Referenz Service		
* ⊗ bc * ⊗ bsp * ⊗ invmat * ⊗ invmat * ⊗ invmat * ⊗ invmat * ⊗ invmat	References to Service Obj. Directory Entry Out Copy Paste	INTIME Applc		
© 114_00_003	4 >			
		SAP		

Figure 4-20 Activate MAT UI5 Service

4. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_ui5_2009/ index.html?sap-client=100.
- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_ui5_2009/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false

4.5. Activate Gateway FIORI Service

Activate gateway FIORI service, once gateway UI5 service is activated

To activate the Gateway FIORI Service:

- 1. Go to transaction code SICF and search for the service **mat_fiori_2009**.
- 2. Right-click the mAssetTagui5 service under *default_host > sap >bc > ui5_ui5 > INVMAT > mat_fiori_2009* and click **Activate Service**.

Maintain service			
Create Host/Service 😚 📅 🔂 🚺 🔿	External A	Alases 🛛 🎲 🏴 System	n Monitor Active 📲
Filter Details Virtual Host ServiceName MAT_FIORI_2009 Description Lang. English IP Apply Reset Virtuele Hosts / Services O default_host O bc O bsp O mat_flori_2009 O ulS_ulS O inversat O mat_flori_2009 O mat_flori_200 O mat	Doc VIR SAP BAS BUS Nam MASSET SAPUIS INVMAT mAssett	New Sub-Element Display Service Delete Service Rename Service Deactivate Service Test Service Test Load Balancing References to Service Obj. Directory Entry Qut Copy Directory Entry Sate	Referenz Service

Figure 4-21 Activate MAT FIORI Service

3. Right-click the mAssetTagui5 service under *default_host > sap > bc > bsp > INVMAT > mat_fiori_2009* and click **Activate Service**

A message prompts you to activate the service.

Maintain service		
Create Host/Service 🔗 📅 🤂 🚺 🔿	External Alases 🛛 💟 🏃 🏴 System	n Monitor Active 📜
Filter Details		
Vitual Host S ServiceName MAT_FIORI_2009 Description Lang. English ▼ R	ter.s Display Service	
Vrtuele Hosts / Services	Activate Service Dc Deactivate Service VIF Iest Service SA Iest Load Balancing BA BU BC Diportectory Entry MA Qut SA Gut	Referenz Service
 ♥ Invmat ♥ mat_for_2009 	DN LODY ma Paste	
	4 10	

Figure 4-22 Activate MAT FIORI Service

4. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_fiori_2009/ index.html?sap-client=100.
- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_fiori_2009/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false.

4.6. Import mAssetTag SAP® ECC, Gateway and UI5 Transports

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

Note:

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

Table 4-3 MAT SAP® ECC Transports

Transport	Description	Dependency
ERDK908620	INNOV:MAT:2006:ECC Ob-	Import ERDK908517 before
	jects	importing ERDK908620

Table 4-4 MAT SAP® Gateway Transports

Transport	Description	Dependency
NGTK907389	INNOV:MAT:2006:Gateway	Import NG5K902295 before
	Objects	importing NGTK907389

Table 4-5 MAT UI5 Application Transports

Transport	Description	Dependency
NGTK907431	INNOV:MAT:2006: mAssetTag Admin UI5	Import TR Number: NGTK907389 before import- ing NGTK907431
NGTK907433	Innov MAT 2006 FIORI Appli- cation	Import TR Number: NGTK907389 before import- ing NGTK907433
NGTK907438	Innov MAT 2006 FIORI Tile configuration	Import TR Number: NGTK907433 before import- ing NGTK907438
NGTK907436	Innov MAT 2006 FIORI Iaunchpad config	Import TR Number: NGTK907433 before import- ing NGTK907436

For steps to import Transports, see Transport Import procedure (on page 31).

4.6.1. Verify SAP® ECC MAT Transport

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

To verify the SAP® ECC Transport:

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

Figure 4-23 Function Builder Initial Screen

Function Builder: Initial Screen			
🖆 🥕 🐺 🔂 📅 🗔 🙌 Reassign			
Function Module /INVMAT/*			
😚 Display 🖉 Change 🗋 Create			

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

Function Builder: Initial Screen				
🖆 🧪 🖷 🖶 🗓 🌐 🖸 🙌 Reassign				
			×	
ſ			^	
	Function group	Function group short text	-	
Function Module	Function Module Name	Short text for function module		
😚 Display	/INVMAT/ASSETADMIN_FG	Asset Admin		
	/INVMAT/ASSETS_TO_BATCH_NUMBER	Assign Assets to the Batch number	33	
	/INVMAI/ASSEI_INVENIORY_SIAIUS	Get Asset Inventory Status		
	/INVMAI/ASSEI_INVENIORY_UPDATE	Asset inventory Status Update		
	/INVMAI/ASSET_LOCATION_DROPDWN	To get list of asset locations		
	/INVMAT/ASSIGN_ASSETS_TO_USER	Assign Assets to the end user	_	
	/INVMAT/DD_DOC_TYPES	Document types Drop Down		
	/INVMAT/DD_TRADING_PARTNERS	Trading partners		
	/INVMAT/DD_TRANS_TYPES	Drop down for Asset transaction types		
	/INVMAT/FM_ASSET_CAPATALIZ_ITM	Asset capitalization Items		
	/INVMAT/FM_ASSET_SCHEDULER	Asset Scheduler		
	/INVMAT/FM_ASSET_STATUS	To Get Asset Status		
	/INVMAT/FM_ASSET_UCONSTR_DETAI	Asset under construction details		
	/INVMAT/FM_BATCHNUMBER_LIST	Get Batch number list		
	/INVMAT/FM_CAP_REAUQEST_ID	Asset capitalization ID drop down		
	/INVMAT/FM_CREATE_ASSET	Create Asset		
	/INVMAT/FM_DDKOSTL_LIST	Get Cost Center List		
	/INVMAT/FM_DDPLANT_LIST	Get Plant List		
	/INVMAT/FM_GET_MOBILE_ASSETS	Get the mobile assets details		
	/INVMAT/FM_GET_WBS	Get cost centers from company code		
	/INVMAT/FM_PROJECT_DETAILS	Get project Details		
	/INVMAT/FM_USER_DETAILS_LIST	Get User Details		
	/INVMAT/MASSET_KPI_FM	Get Asset KPI Details		
	/INVMAT/POST_ASSETCAPITAL	Post Asset Capitalization data		
			Ŧ	

Figure 4-24 Function Module Classes

4.6.2. Verify SAP® GW MAT Transport

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

To verify the SAP® GW Transport:

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

Figure 4-25 Function Builder Initial Screen

Function Builder: Initial Screen
🖆 🥕 🐺 📫 📅 🗔 🕪 Reassign
Function Module
🗞 Display 🖉 Change 🗋 Create

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

	🔄 Repository Info System: Class/Interf	ace Find (82 Hits)		×
Object type	Object Type Name	Short Description		
දි? Display	<pre>/INVMAT/CL_ASSET_ADMIN_DPC /INVMAT/CL_ASSET_ADMIN_DPC_EXT /INVMAT/CL_ASSET_ADMIN_MPC /INVMAT/CL_ASSET_ADMIN_MPC_EXT /INVMAT/CL_MASSETTAG_2_DPC /INVMAT/CL_MASSETTAG_2_DPC_EXT /INVMAT/CL_MASSETTAG_2_MPC_EXT /INVMAT/CL_MASSETTAG_2_MPC_EXT /INVMAT/IF_ASSET_INVENTORY_STA /INVMAT/IF_ASSET_INVENTORY_STA /INVMAT/IF_BAPI_USER_DETAILS1 /INVMAT/IF_DD_BATCH_FM /INVMAT/IF_DD_BATCH_FM /INVMAT/IF_DD_MATERIAL_FM /INVMAT/IF_DD_MATERIAL_FM /INVMAT/IF_DD_MATERIAL_GROUP_FF /INVMAT/IF_DD_HANTERIAL_GROUP_FF /INVMAT/IF_DD_PLANTS_FM /INVMAT/IF_DD_TRADING_PARTNERSS /INVMAT/IF_DD_TRADING_PARTNERSS /INVMAT/IF_DD_TRADING_PARTNERSS /INVMAT/IF_FM_ASSET_CLASS_GE3 /INVMAT/IF_FM_ASSET_CLASS_GE5</pre>	Data Provider Base Class Data Provider Secondary Class /INVMAT/CL_ASSET_ADMIN_MPC /INVMAT/CL_ASSET_ADMIN_MPC_EXT Data Provider Base Class Data Provider Secondary Class /INVMAT/CL_MASSETTAG_2_MPC /INVMAT/CL_MASSETTAG_2_MPC EXT /INVMAT/IF_ASSET_INVENTORY_STA /INVMAT/IF_ASSET_INVENTORY_STA /INVMAT/IF_BAPI_USER_DETAILS /INVMAT/IF_BAPI_USER_DETAILS /INVMAT/IF_DD_BATCH_FM /INVMAT/IF_DD_COMPANYCODE_FM /INVMAT/IF_DD_MATERIAL_FM /INVMAT/IF_DD_MATERIAL_FM /INVMAT/IF_DD_MATERIAL_FM /INVMAT/IF_DD_NATERIAL_FM /INVMAT/IF_DD_NATERIAL_FM /INVMAT/IF_DD_SLOC_FM /INVMAT/IF_DD_SLOC_FM /INVMAT/IF_DD_TRADING_PARTNERS /INVMAT/IF_DD_TRADING_PARTNERS /INVMAT/IF_FM_ASSET_CAPATALIZ_ /INVMAT/IF_FM_ASSET_CLASS_GES		
	• •		4)	

Figure 4-26 Object Classes

4.6.3. Activate mAssetTag OData Service

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

To activate OData services for mAssetTag :

- 1. Run transaction /IWFND/MAINT_SERVICE.
- 2. Select the service: /INVMAT/ MASSETTAG_2_SRV.
- 3. Click Activate from the drop-down list of ICF Node options.

A message appears notifying the package selection.





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

The OData service is activated and the status turns green.

- 5. Click **Add System Alias** above **System Aliases** on the right to add the SAP System alias for the selected service.
- 6. Click New Entries.
- 7. Assign the System Alias (ETT in this case) for the service and save changes. Repeat the steps 3 to 7 to activate service: **/INVMAT/ASSET_ADMIN_SRV**.

4.6.4. Activate Gateway UI5 Service

Activate gateway UI5 service, once mAssetTag OData service is activated.

To activate Gateway UI5 Service:

- 1. Go to transaction code SICF and search for the service **mat_ui5_2009**.
- 2. Right-click the mAssetTagui5 service under *default_host* > *sap* > *bc* > *ui5_ui5* > *INVMAT* > *mat_ui5_2009* and click **Activate Service**.

Maintain service		
Create Host/Service 🔗 📅 🔂 🚺 🔿 E	external Alases 🛛 💟 🎉 🏴 Syst	em Monitor Active 📲
Fitter Details Virtual Host Ss ServiceName MAT_UI5_2009 Description Image: English Lang. English R Virtuelle Hosts / Services Virtuelle Hosts / Services Virtuelle Hosts / Services Services Virtuelle Hosts / Services Services Virtuelle Hosts / Services Services Sep Sep Sep Sep Service Name Services Service Name Services Service Name Services Sep Services Sep Services Sep Services Sep Sep Se	New Sub-Element Display Service Delete Service Rename Service Activate Service Test Service Test Service Test Load Balancing References to Service Obj. Directory Entry Out Copy Dester SAPUIS Application Handler SAPU DIVMAT mAssettag UIS Application .	Referenz Service NOT T INTIME IS Applc
	< >	

Figure 4-28 Activate MAT UI5 Service

3. Right-click the mAssetTagui5 service under *default_host > sap > bc > bsp > INVMAT >mat_ui5_2009* and click **Activate Service**.

A message prompts you to activate the service.

Maintain service		
Create Host/Service 💖 📅 🤂 🚺 🔿 D	xternal Aliases 🛛 💟 🎇 Syste	em Monitor Active 📲
Filter Details Virtual Host Se ServiceName MAT_UI5_2009 Description Lang. English Re	rvice Path New Sub-Element Display Service Delete Service	
Vrtuele Hosts / Services • C default_host • Sap	Rename Service Activate Service Reactivate Service Test Service Test Load Balancing	Referenz Service
* ⊗ bc * ⊗ bsp * ⊗ invmat * ⊗ invmat * ⊗ invmat * ⊗ invmat * ⊗ invmat	References to Service Obj. Directory Entry Out Copy Paste	INTIME Applc
© 114_00_003	4 >	
		SAP

Figure 4-29 Activate MAT UI5 Service

4. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_ui5_2009/ index.html?sap-client=100.
- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_ui5_2009/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false

4.6.5. Activate Gateway FIORI Service

Activate gateway FIORI service, once gateway UI5 service is activated

To activate the Gateway FIORI Service:

- 1. Go to transaction code SICF and search for the service **mat_fiori_2009**.
- 2. Right-click the mAssetTagui5 service under *default_host > sap >bc > ui5_ui5 > INVMAT > mat_fiori_2009* and click **Activate Service**.

Maintain service			
Create Host/Service 🔅 🐨 🔂 🚺 🔿	External Allases 🛛 🏹 🏓 Syste	tem Monitor Active 📲	
Filter Details Virtual Host S ServiceName MAT_FIORI_2009 Description English Lang. English P Apply Reset Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Virtuele Hosts / Services Not utot	Service Service Bename Service Bename Service Bename Service Bename Service Activate Service Iest Service	Referenz Service	
	• •	44	< >

Figure 4-30 Activate MAT FIORI Service

3. Right-click the mAssetTagui5 service under *default_host > sap > bc > bsp > INVMAT > mat_fiori_2009* and click **Activate Service**

A message prompts you to activate the service.



Maintain service			
Create Host/Service 💖 📅 🔁 🚺 🖷	External Alias	es 🛛 🐹 🏴 Systi	em Monitor Active 📲
Filter Details			
Virtual Host ServiceName MAT_FIORI 2009	Service Path		
Description Lang. English • P Apply Reset Vituele Hosts / Services • U default_host • © sap	Ref.S Disp Dek Ben Acto Dc Dea VIF Tes SA Tag	v Sub-Element olay Service ete Service mate Service tate Service t Service t Service t Load Balancing	Referenz Service
	BA Refi BU Refi Nar Obj mA Qut SA Cop	erences to Service Directory Entry	TIME
- @ mac_ion_2009			
	< >		

4. Click Yes.

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

- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_fiori_2009/ index.html?sap-client=100.
- http://<hostname>:<port_number>/sap/bc/ui5_ui5/invmat/mat_fiori_2009/ index.html?sap-client=100&sap-ui-language=EN&sap-ui-appcache=false.

5. Check Schema Change Indicator

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

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

도 <u>T</u> able <u>E</u> dit <u>G</u> o	to S <u>v</u> stem <u>H</u> elp
Ø	💌 🔍 🔄 🔹 😪 🖙 🖓 👘 🖓 🔹 🎝 💭 💭 💭 💭 🔛
Maintain Table	e Views: Initial Screen
🛗 Find Maintenance D	ialog
Table/View	/INVCEC/SCHEMA
Restrict Data Range	
Restrict Data Range • No Restrictions	
Restrict Data Range No Restrictions Enter conditions 	
Restrict Data Range No Restrictions Enter conditions Variant 	
Restrict Data Range No Restrictions Enter conditions Variant 	

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


Figure 5-2 Table Entries for Schema Change Indicator

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

Table 5-1 Schema Details

Base URL	Old Schema	New Schema
/INVCEC/RACE_SRV	/INVCEC/RACE_SRV	RACECLIENT
/INVMAT/ASSET_ADMIN SRV/	INVMAT/ASSET_ADMIN SRV/	ASSET ADMIN
/INVMAT/MASSETTAG_2 SRV/	/INVMAT/MASSETTAG_2 SRV/	MASSETTAG

6. Clean SAP Gateway

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

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



Figure 6-1 smicm transaction

8. Click Yes.

7. Configure SAP Gateway for mAssetTag

SAP FI-Asset Accounting (FI-AA) users can use mAssetTag to do the following:

- Connect and access FI-AA master data using iOS mobile.
- Scan and tag geo-location of assets and track assets.
- Generate barcode / QR code for assets.
- Audit assets (Verify / Approve/ Reject).

7.1. Prerequisites for SAP Gateway Configuration

Ensure these components are installed and configured:

- Dependency
 - Innovapptive Add-Ons and Support Packs are installed successfully.
- Assumptions
 - The backend processes required for the app, which shall be enabled, are already configured and related data is set up.
 - mAssetTag 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.

mAssetTag application primarily consists of four modules:

- Scan Assets, Tag Geo-location, and Tracking
- Add Assets-Generate Bar Code/QR Code
- Review Asset list—Audit list.
- Goods Receiving
 - Purchase Order
 - Stock Transport Order
 - Inbound Delivery
 - Outbound Delivery
 - Orders
 - Material Document
 - Others

7.2. Configure application global settings

To configure the application settings for mAssetTag.

1. Run T-Code /INVCEC/APP_CONF.

2. Add the following entries in the table:

Table 7-1 Application configuration attributes

Field	Description
SNo	Entering the serial number for the Pri- mary key.
App Name	Unique ID for the app.
App ID	Description of the app.
Security Profile	Identifies the security authentication mechanism selected for the applica- tion. Not applicable for mAssetTag ap- plication.
Language	Not applicable for mAssetTag applica- tion.
SMP Host	This field defines the SMP Host name to be utilized by the application. Not ap- plicable for mAssetTag application.
SMP Port	Defines the SMP Port number to be uti- lized by the application. Not applicable for mAssetTag application.
Bandwidth Value	Enter the bandwidth used to switch the service call from online to offline mode depending on the network bandwidth capacity.
Enable HTTPs	To enable HTTPS switch for the applica- tion. Not applicable for mAssetTag ap- plication.
Extension	Not applicable for mAssetTag applica- tion.

Field	Description
Refresh Rate	Defines the duration of time taken to re- fresh the offline store.
Refresh Offline	Enables offline refreshing. Using this field, a push notification can be gener- ated that refreshes the application in offline mode.
Theme	Not applicable for mAssetTag applica- tion.
Template	Not applicable for mAssetTag applica- tion.
APPNAME SPACE	Not applicable for mAssetTag applica- tion.
APPTITLE	Not applicable for mAssetTag applica- tion.
APP Description	Not applicable for mAssetTag applica- tion.
APP Icon	Not applicable for mAssetTag applica- tion.
Status	Not applicable for mAssetTag applica- tion.
Created Date	Not applicable for mAssetTag applica- tion.
Updated Date	Not applicable for mAssetTag applica- tion.

7.3. Configure application modules and screens

To configure the modules and screens for mAssetTag application.

1. Run T-Code /INVCEC/APPCONFI.

- Add the following entries in the table for modules and corresponding screens.
 See RACE[™] Preset Configuration spreadsheet for Modules and Screens entries on the product release documentation page.
- 3. Copy and paste values from the spreadsheet to the table.

Figure 7-1 Modules and Screens

Display > E E	View "Application	and Module Configuration":	Overview		
Application a	nd Module Configuration				
Serial Num	APP Name	Module Name	Screen Name	APP ID	App Description
1	MASSETTAG	DEFAULT	DEFAULT_SCREEN		mAssetTag
2	MASSETTAG	MY_LIST	TASK_UPDATE		mAssetTag
3	MASSETTAG	SCAN	SCAN_ASSET		mAssetTag
397	MASSETTAG	CAMERA		APP100	mAssetTag
398	MASSETTAG	EXTDEV		APP101	mAssetTag
463	MASSETTAG	GOODS_RECEIVING	PO_HEADER		mAssettag
464	MASSETTAG	GOODS_RECEIVING	PO_ITEMS		mAssettag
465	MASSETTAG	GOODS_RECEIVING	STO_HEADER		mAssettag
466	MASSETTAG	GOODS_RECEIVING	STO_ITEMS		mAssettag
467	MASSETTAG	GOODS_RECEIVING	OD_HEADER		mAssettag
468	MASSETTAG	GOODS_RECEIVING	OD_ITEMS		mAssettag
469	MASSETTAG	GOODS_RECEIVING	ID_HEADER		mAssettag
470	MASSETTAG	GOODS_RECEIVING	ID_ITEMS		mAssettag
471	MASSETTAG	GOODS_RECEIVING	MATDOC_HEADER		mAssettag
472	MASSETTAG	GOODS_RECEIVING	MATDOC_ITEMS		mAssettag
483	MASSETTAG	GOODS_RECEIVING	ID_FILTERS		mAssetTag
484	MASSETTAG	GOODS_RECEIVING	OD_FILTERS		mAssetTag
485	MASSETTAG	GOODS_RECEIVING	PO_FILTERS		mAssetTag
486	MASSETTAG	GOODS_RECEIVING	PO_LIMITS		mAssetTag
487	MASSETTAG	GOODS_RECEIVING	PO_SUBSERVICES		mAssetTag
488	MASSETTAG	GOODS_RECEIVING	ID_ITEMS_APPLYALL		mAssetTag
489	MASSETTAG	GOODS_RECEIVING	ID_SEARCH		mAssetTag

Table 7-2 Modules and Screens Attributes

Field	Description
App Name	Unique ID for the app.
Module Name	Indicates the module available for the app.
Screen Name	Indicates the configurable screens within each Module of the app.
App ID	Unique application identity of the App.
App Description	Description of the app.
Module Description	Description of the module.
Screen Description	Description of the screen.

7.4. Configure RACE™ in SAP Gateway

Define the scope of the RACE[™] configuration for the mAssetTag application.

To configure:

1. Run T-Code **/INVCEC/APPCNTRL**.

2. Add the following entries and configure settings for components of mAssetTag.

Figure 7-2 App Control - RACE™

Display View "App Control": Overview							
🌶 🖪 🖪	R						
Ann Crater							
App Control						la es	
Serial.No	APP Name	Component		Display	Add	Update	Delete
22	MASSETTAG	Modules	-	х	Х	х	х
23	MASSETTAG	Screens	-		х	х	х
24	MASSETTAG	Dynamic Searches	-	х	х	х	х
25	MASSETTAG	Extensions	-	х	х	х	х
26	MASSETTAG	Texts	-	х	х	х	х
27	MASSETTAG	Performance	-	х	х	х	х
28	MASSETTAG	Localization	-	х	х	х	х

Table 7-3 Application control configuration attributes

Field	Description
Serial No.	Serial Number of the configuration en- try.
App Name	Unique application identity of the App.
Component	Indicates the unique configuration category for the application. The ac- ceptable entries are: Modules, Screens (not relevant for mAssetTag), Dynamic Searches (not relevant for mAssetTag), Extensions, Texts, Performance (not rel- evant for mAssetTag), Localization.
Display	If enabled, the component is displayed in RACE™.

Field	Description
	Note: Indicator (x) means component is enabled.
Add	If enabled, user can add new entries for configuration in RACE™.
Update	If enabled, ser can update the configu- ration entries in RACE™.
Delete	If enabled, user can delete the configu- ration entries in RACE™.

7.5. Configure mAssetTag modules in Gateway

Following steps guide you to enable or disable modules in scope for mAssetTag.

- 1. Run T-Code **/INVCEC/SCOPING**.
- Add entries in the table for various modules as listed in the following table.
 See RACE[™] Preset Configuration spreadsheet for Scoping entries on the product release documentation page.

Field	Description
App Name	Unique ID for the app.
App ID	Application identity of the App.
Title	Not applicable for mAssetTag applica- tion.
App Description	Description of the app name.
Onclick Screen	Not applicable for mAssetTag applica- tion.
Access Category	Based on the user access, you can en- able/disable modules and the screens.

Field	Description
	T-Transaction Code
	• U-User Group
	• R-Role
	A-Authorization Object
Access Value / TCode	This field is used for data related to se-
	curity. Based on the access catego-
	ry, data in this field needs to be main-
	tained. For example, if in the Access
	Category you maintain a t-code then in
	the access values you must enter that
	t-code name. If user has access to that
	t-code, only then module is displayed in
	the mobile app.
Status	To enable/disable the modules on the
	mobile screen, you need to select the
	status as active/inactive respectively
Multiple Approval	Define whether the user can do multiple
	document approval at the list level.
Value	Not applicable for mAssetTag applica- tion.

Field	Description
Push Interval	Not applicable for mAssetTag applica- tion.
Date Format	Not applicable for mAssetTag applica- tion.

3. Copy and paste values from the spreadsheet to the table.

Global App Scopin	9												
Serial Number	APP Na	Module Name	AP	BOR ID	T App Description	Access	AS	Status	Multiple Approval		Value	Pu	sh
1	MASSETT	SCAN	APP	SCAN_ASSET	Scan and Tag Assets	-	Т	rue 🔻	•	-	D	• 0	
2	MASSETT	ADD_ASSET	APP	ADD_ASSET	Add Assets	-	Т	rue 🔻		-	D	• 0	
3	MASSETT	MY_LIST	APP	MYLIST	Asset Inventory	-	Т	rue 🔻	*	-	D	• 0	
319	MASSETT	ATTACHMENTS	APP	ATTACHMENTS	Attachments	-	Т	rue 🔹		-	D	• 0	
323	MASSETT	CAMERA	APP	CAMERA	Scan with Camera	•	T	rue 🔹	•	-	D	• 0	
324	MASSETT	EXTDEV	APP	EXTDEV	Scan with External Peripheral	•	T	rue 🔻	•	-	D	• 0	
325	MASSETT	_GOODS_RECEIVING	APP	GR_PO	GR - Purchase Order	•	Т	rue 🔻	•	-	D	• 0	
326	MASSETT	_GOODS_RECEIVING	APP	GR_STO	GR - Stock Transport Order	-	Т	rue 🔻	•	-	D	• 0	
327	MASSETT	_GOODS_RECEIVING	APP	GR_ID	GR - Inbound Delivery	-	Т	rue 🔻		-	D	• 0	
328	MASSETT	_GOODS_RECEIVING	APP	GR_OD	GR - Outbound Delivery	-	Т	rue 🔹	*	-	D	• 0	
329	MASSETT	_GOODS_RECEIVING	APP	GR_OTH	GR - Others	-	Т	rue 🔹		-	D	• 0	
330	MASSETT	_GOODS_RECEIVING	APP	GR_MAT	GR - Material Document	•	T	rue 🔹	•	-	D	• 0	
334	MASSETT	_GOODS_RECEIVING	APP	BTN_CAN	GR - Mat.Doc Cancellation	•	Т	rue 🔻	•	-	D	• 0	
335	MASSETT	_GOODS_RECEIVING	APP	GR_MAT_MATDOC	GR - Mat doc - Mat.Doc O/p	•	Т	rue 🔻	•	-	D	• 0	
336	MASSETT	_GOODS_RECEIVING	APP	BTN_POCONF	GR - PO Confirm	-	Т	rue 🔻	•	-	D	• 0	
337	MASSETT	_GOODS_RECEIVING	APP	GR_PO_MATDOC	GR - PO Mat.Doc O/p	-	Т	rue 🔻		-	D	• 0	
338	MASSETT	_GOODS_RECEIVING	APP	GR_STO_MATDOC	GR - STO - Mat.Doc O/p	-	Т	rue 🔹		-	D	- 0	
339	MASSETT	_GOODS_RECEIVING	APP	GR_OD_MATDOC	GR - OD - Mat.Doc O/p	-	Т	rue 🔹		-	D	• 0	
340	MASSETT	_GOODS_RECEIVING	APP	GR_ID_MATDOC	GR - ID - Mat.Doc O/p	•	Т	rue 🔹		•	D	• 0	
341	MASSETT	GOODS RECEIVING	APP	GR OTH MATDOC	GR - Others - Mat Doc O/n	-	т	rue 🔻		•	n	T 0	

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7.6. Configure Search Function Module

To enable search help within the drop-down fields across the mAssetTag application.

1. 1. Run T-Code **/INVCEC/FMCONFIG**.

2. Add the following entries.

See RACE[™] Preset Configuration spreadsheet for Search Function Module entries on the product release documentation page.

Figure 7-4 Function Module Configuration

• 8 8 1	B				
unction Mod	ule Configuration				
Serial Num	APP Name	Module Name	Function Name	Function Module	RFC Destination/System Name
1	MASSETTAG	DEFAULT	FIELD_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
2	MASSETTAG	MY_LIST	FIELD_NAME	DDIF_FIELDINFO_GET	ERDCLNT800
3	MASSETTAG	MY_LIST	FIELD_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
4	MASSETTAG	SCAN	FIELD_NAME	DDIF_FIELDINFO_GET	ERDCLNT800
5	MASSETTAG	SCAN	FIELD_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
429	MASSETTAG	GOODS_RECEIVING	FIELD_NAME	DDIF_FIELDINFO_GET	ERDCLNT800
430	MASSETTAG	GOODS_RECEIVING	FIELD_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
431	MASSETTAG	GOODS_RECEIVING	FM_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
432	MASSETTAG	GOODS_RECEIVING	TB_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
478	MASSETTAG	MY_LIST	FM_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
479	MASSETTAG	MY_LIST	TB_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
480	MASSETTAG	SCAN	FM_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
481	MASSETTAG	SCAN	TB_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
482	MASSETTAG	DEFAULT	FIELD_NAME	DDIF_FIELDINFO_GET	ERDCLNT800
183	MASSETTAG	DEFAULT	TB_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800
184	MASSETTAG	DEFAULT	FM_NAME_ECC	DDIF_FIELDINFO_GET	ERDCLNT800

The following table lists the Search function module configuration relevant attributes.

Field	Description	
App Name	Unique ID for the app.	
Module Name	Module name for which the search function is configured.	
Function Name	Indicates the Function name.	
Function Module Name	Indicates the Function Module for the search function.	
RFC Destination	Indicates the RFC destination for which the search is executed.	

Table 7-5 Search function module configuration attributes

7.7. Configure extensions for mAssetTag

Do the following configurations to add/update fields on the transaction screens (list, header, item details) across the application.

The following table lists the extensions configuration relevant attributes.

Field	Description		
Module Name	Select the module where the field is configured.		
Screen Name	Select the screen within the module where the field is displayed.		
Category	Select between Standard and Extension options to choose the configuration type.		
	Note: Select Standard to customize the type of input required to be displayed on the header.		
Section Name	Helps you group the Extension fields into sections for retrievals or Posting Forms.		
Section Position	Define the position of section within the screen relevant to other sections.		
Source Type	Select the source like BAPI or SAP Table from where the data is retrieved.		
Entity Set	Collection to which the Standard field belongs.		
	Note: Auto-populated based on Module and Screen selected if the Category field is set to Standard. For example, this field is populated with GRPOHeaderCollection if Goods Receiving module and PO Header screen are selected.		
Entity Type	Auto-populated based on Module and Screen se- lected if the Category field is set to Standard.		
Table / BAPI Name	Select the table/BAPI to fetch the data from.		

Table 7-6 Extension configuration attributes

Field	Description			
	Note: This field is applic Extension in the C	cable only if you selected Category field.		
Table / BAPI Description	Auto-populated based	l on Table / BAPI Name .		
	Note: This field is applie Extension in the C	cable only if you selected Category field.		
Field Name	Select the table/BAPI field to retrieve the field da- ta.			
Field Description	Populated based on the Field Name .			
UI Label	Enter the text to be shown on the application UI.			
Field Type	Define the type of the field. Following are a few of the UI field types available for mAssetTag: Table 7-7 UI Field Types			
	Field Type ID	Field Type		
	DD	Drop Down		
	DF	Date Field		
	TF	Text Field		
	SF	Scan Field		
	ID	Input Drop Down		
	DFR	Date Field Range		
	SID	Scan Input Drop Down		
UI Position	Position of the extension compared to other fields on the transaction screen.			

Table 7-6 Extension configuration attributes (continued)

Field	Description		
Default Value	Value to be populated in the extension field.		
Case Sensitive	To show the extension field value in Uppercase or Lowercase.		
Active	To show/hide the extension on the transaction screen.		
Overview	Enable/disable the extension field in Overview section of the transaction screen. For exam- ple, header fields and line item fields in the Item Overview list screen are displayed in Overview section.		
Detail	Enable/disable to show the extension in Detail section of the transaction screen.		
Mandatory	To show the extension as Mandatory field on the transaction screen.		
Validation Required	To configure validation rules for the extension field.		
UI Validation	Specify the validations for user entered values.		
	Note: This field is displayed only if the Validation Required is enabled.		
UI Validation Message	Enter the alert message to be displayed if the UI validation is applicable.		
	Note: This field is displayed only if the Validation Required is enabled.		

 Table 7-6 Extension configuration attributes (continued)

Field	Description
Authorization Relevant	Enable/disable security authorization relevancy. This is relevant for fields of type 'drop down', and when activated, will filter values based on security org values set up in SAP security roles.
Access Category	Enable/disable extension field based on user ac- cess:
	 T-Transaction Code U-User Group R-Role A-Authorization Object.
Access Value	This field is used for data related to security. Based on the access category, value in this field must be maintained. For example, if you configure a transaction code in the Access Category field then the t-code name must be specified in this field. Extension configured is displayed in the mo- bile application only if the transaction code is as- signed to the user.
Dropdown Table	Select the Source table from where the values of a dropdown field are retrieved.
	Note: This field is displayed only if the UI Field type is set to DD - Drop Down or ID - Input Dropdown.
Dropdown Field	Select the Field in the source table from where the values of a dropdown field are retrieved.

Field	Description
	Note: This field is displayed only if the UI Field type is set to DD - Drop Down or ID - Input Dropdown.
DD Dependency Field	Select the Dependent field on the transaction screen that facilitates filtering of the field values. For example, Storage Location search field is de- pendent on Plant field.
	Note: Displayed only if the UI Field type is set to DD - Drop Down or ID - Input Dropdown.
Parent Table	Select the Table from where the field is retrieved.
Parent Key	Select the field to define the relationship between the dropdown field and table.
Condition	Enter the logic to show the configured field. For example, you can show an extension 'Supplying Plant' only if the Purchase Order type is UB (Inter- nal Purchase Order).
Text Required	Define how the dropdown values are displayed. Possible values:
	 0 – Not Required (not relevant) 1 – Only Description (only the description of the value is displayed) 2 – Key and Description (both the key and description of the value are displayed)
Text Table	Select the Table from where the text is retrieved.

Table 7-6 Extension configu	ration attributes	(continued)
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Field	Description		
	Note: This field is displayed only if the Text Re- quired is set to Only Description or Key and Description.		
Text Field Name	Select the table field name from where the text is retrieved. When the value in Text Required field is set to 1 or 2, the corresponding Description is fetched from the text table in SAP.		
	Note: This field is displayed only if the Text Re- quired is set to Only Description or Key and Description.		
Text Key Field Name	Select the field to define the relationship between the dropdown field and table.		

Table 7-6 Extension configuration attributes (continued)

8. Configure RACE™ for mAssetTag

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.





Deployment ecosystem consists of the following:

- SAP ECC Integration Component (SAP Certified Add-On in Innovapptive Namespace): This SAP-certified add-on is developed on ABAP. You can deploy this add-on on SAP ECC through an Add-On Package. You can make enhancements to this through BADI by developing those enhancements in ABAP. This add-on helps you manage Data retrieval and do posting to BAPI's or Function Modules.
- 2. SAP NetWeaver Integration Component with OData Web Services: Developed on ABAP and OData and offered as an SAP Certified Add-On. This add-on is deployed through an Add-On Package on SAP NetWeaver. You can make enhancements through RACE Configurations. This add-on helps manage the OData integration components (i.e. OData Web Services) to interface with the mobile app. The RACE[™] Add-On has both the front-end components and the back-end data tables for the RACE[™] Lite Configuration tool.
- 3. Native App Client + Desktop Web App: Application front-end solutions are offered on all three major mobile OS as a native application that can run on tablets and smartphones.
 - iOS Developed using native iOS (Swift SDK)
 - Android Developed using Android SDK on JAVA
 - Windows OS Developed using Windows development kits.
 - Browser based App for desktop Developed using SAPUI5 technology.

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

- 4. Interface between Mobile App and NetWeaver Gateway: OData Web Services
- 5. Interface between NetWeaver Gateway and SAP ECC: RFC Connection

8.1. Features of RACE™

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

- **Enable and Disable features**: Enable or disable modules on the fly; no additional development or deployments efforts.
- **Define Defaults**: Define default device and application values that you use every day at work like Default Plant or the type of peripherals that you use. When you do this, the fields for specifying those values are automatically populated.
- Manage Filters: Create, edit, or delete filters to define the transaction records that you want to view across the modules. For example, you can add a date filter for Purchase Orders to restrict a list of Purchase Orders displayed in a list screen.
- Add/Modify fields: Add new fields and modify existing field parameters, such as Field Types, UI Label, UI Positions and visibility. Define mandatory, optional or display/hidden fields.
- Add and customize search criteria: Add/modify search fields to filter records based on your work requirements.
- **Create modules and screens**: Create new modules and screens to address your specific business requirements.
- **Optimize Performance**: Enable or disable a collection for Offline storage and configure the page size on the list screen using Skip Token.
- Localization: Configure the UI labels in the language of your choice to cater to regional language requirements.
- Apply security access capabilities to modules and features.
- Configure security for newly added fields.
- Map newly added fields with SAP fields.

8.2. How to Configure RACE™ for mAssetTag

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

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

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

For detailed information on RACE configurations, see the Upload Application Configurations Using $RACE^{TM}$ section in the Configure mAssetTag using $RACE^{TM}$ document.

9. SAP transactions and tables for mAssetTag

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

Module Name	Applicable Table	Transaction Code
SCAN	ANLA, ANLZ	AS02, AS03
MY_LIST	ANLA, ANLZ, /IN- VMAT/ASSETSCH, /IN- VMAT/POSTSTAG, /IN- VMAT/ATTAPOST	ASO2, ASO3, /INVMAT, /INVS- TAT
ADD_ASSET	/INVMAT/ASSET_TG	/INVMAT/COCKPIT
GOODS_RECIEVING	LIKP	MIGO
GOODS_RECIEVING	ΕΚΚΟ	MIGO
GOODS_RECIEVING	ЕККО	MIGO
GOODS_RECIEVING	MSEG	MBIC

Table 9-1 SAP Transactions and Tables

10. Implement BADIs

mAssetTag uses SAP oDATA based on RESTful design. mAssetTag 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 10-1 BADI Implementation

10.1. List of BADIs for mAssetTag

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

Table 10-1 BADIs in mAssetTag	g App	lication
-------------------------------	-------	----------

BADI Name	BADI Description
/INVMAT/BADI_ACTIVE_OBJ_LIST	BADI definition for List of Screens in mobile device
/INVMAT/BADI_ASSET_CLASS_GET	BADI definition for Get Asset Class Collec- tion
/INVMAT/BADI_ASSET_SCHEDULER	BADI definition for mAssetTag – Asset Scheduler
/INVMAT/BADI_ASSET_TAG_GET	BADI definition for Get Inventory Asset in- formation
/INVMAT/BADI_ASSET_TAG_UPDATE	BADI definition for Update Asset Tag Infor- mation
/INVMAT/BADI_ASSET_USER_VAL	BADI definition for Asset Scheduler User Validation
/INVMAT/BADI_AUTH_CHECKS	Authorization Checks
/INVMAT/BADI_BATCH_VAL	BADI definition for Batch Validation
/INVMAT/BADI_CAPTURE_ASSETDATA	BADI definition for Capturing Asset Data from mobile device
/INVMAT/BADI_COMPANYCODE_LIST	BADI definition for Get List of Company Codes
/INVMAT/BADI_CUSTOM_DROPDOWN	BADI definition for Custom Dropdown
/INVMAT/BADI_DD_BATCH	BADI definition for Batch Dropdown
/INVMAT/BADI_DD_MATERIALS	BADI definition for List of Materials for Drop- down
/INVMAT/BADI_DD_MOVEMENT_TYPES	BADI definition for Movement Types Drop- down
/INVMAT/BADI_DD_PLANTS	BADI definition for List of Plants drop down
/INVMAT/BADI_GET_ASSET_TASKS	BADI definition for List of Tasks assigned to the user

BADI Name	BADI Description
/INVMAT/BADI_GRID_ITEMS	BADI definition for Goods Receipt Inbound Delivery Items
/INVMAT/BADI_GRID_ITEMS_VAL	GR Inbound Delivery Item Validation/Up- date
/INVMAT/BADI_GRID_LIST	BADI definition for Goods Receipt Inbound Delivery List
/INVMAT/BADI_GRID_LIST_VAL	BADI definition for Goods Receipt Inbound Delivery List
/INVMAT/BADI_GRID_POST	BADI definition for Goods Receipt Inbound Delivery Posting
/INVMAT/BADI_GROD_ITEMS	BADI definition for Goods Receipt Outbound Delivery Items
/INVMAT/BADI_GROD_ITEMS_VAL	GR Outbound Delivery Item Validation/Up- date
/INVMAT/BADI_GROD_LIST	Get list of Outbound Deliveries waiting for Goods Receipt
/INVMAT/BADI_GROD_LIST_VAL	GR Outbound Delivery Header Valida- tion/Update
/INVMAT/BADI_GROD_POST	BADI definition for Goods Receipt Outbound Delivery Posting
INVMAT/BADI_GRPO_POST	BADI definition for Goods Receipt Posting
/INVMAT/BADI_GRSTO_POST	BADI definition for Goods Receipt Posting
/INVMAT/BADI_GR_DLV_ID_HUDATA	Handling Unit Data for Inbound Delivery
/INVMAT/BADI_GR_DLV_OD_HUDATA	Handling Unit Data for Outbound Delivery
/INVMAT/BADI_GR_POITEMS	BADI definition for Goods Receipt PO Items
/INVMAT/BADI_GR_POITEMS_VAL	GR Purchasing Document Item Valida- tion/Update
/INVMAT/BADI_GR_POLIST	BADI definition for Goods Receipt PO List

Table 10-1 BADIs in mAssetTag Application (continued)

Tuble 10-1 BADIS III IIIASSectury Application	(continued)
BADI Name	BADI Description
/INVMAT/BADI_GR_POLIST_VAL	GR Purchasing Document Header Valida- tion/Update
/INVMAT/BADI_GR_STOITEMS	BADI definition for Goods Receipt PO Items
/INVMAT/BADI_GR_STOITEMS_VAL	GR Purchasing Document Item Valida- tion/Update
/INVMAT/BADI_GR_STOLIST	BADI definition for Goods Receipt STO List
/INVMAT/BADI_GR_STOLIST_VAL	GR STO Document Header Validation/Up- date
/INVMAT/BADI_MATERIAL_GROUP	BADI definition for Material Group
/INVMAT/BADI_MATERIAL_GRP_VAL	BADI definition for Material Group Valida- tion
/INVMAT/BADI_MATERIAL_VAL	BADI definition for Material Validation
/INVMAT/BADI_MAT_DOC_ITEMS	Get Material Document Items
/INVMAT/BADI_MAT_DOC_OUTPUT	BADI definition for Material Document Out- put
/INVMAT/BADI_MOVEMENT_TYPE_VAL	BADI definition for Movement Type Valida- tion
/INVMAT/BADI_PLANT_VAL	BADI definition for Plant Validation
/INVMAT/BADI_PO_LIMITS	BADI definition for PO Limits
/INVMAT/BADI_SERVICE_LINES	BADI definition for Service Lines
/INVMAT/BADI_SERVICE_LINES_VAL	BADI definition for Service Lines Valida- tion/Update
/INVMAT/BADI_STATUS_LIST	BADI definition for List of Status Codes
/INVMAT/BADI_STORAGE_LOC	BADI definition for List Storage Locations Dropdown
/INVMAT/BADI_STOR_LOC_VAL	BADI definition for Storage Location Valida- tion

Table 10-1 BADIs in mAssetTag Application (continued)

BADI Name	BADI Description
/INVMAT/BADI_UPDATE_TASKSTATUS	BADI definition for Update Status of As- signed Tasks
/INVMAT/BADI_MATDOC_HEADER	BADI definition for Material Document Header
/INVMAT/BADI_MATDOC_ITEMS	BADI definition for Material Document Items
/INVMAT/BADI_MATDOC_REVERSAL	BADI definition for Material Document Re- versal
/INVMAT/BADI_GRPO_ATTACH_DISPL	BADI definition for Goods Receiving attach- ment display
/INVMAT/BADI_GRPO_ATTACH_DOWNL	BADI definition for Goods Receiving attach- ment download
/INVMAT/BADI_BATCHNUMBERS_LIST	BADI definition for Batch Number List
/INVMAT/BADI_ACNT_ASMNT_POLINE	BADI for Asset Account Assignment lines for PO
/INVMAT/BADI_ASSET_COCKPIT_ATT	BADI for asset cockpit attachment
/INVMAT/BADI_ASSET_RECNCL_ATTA	BADI Definition to get the Recancellation Attachments
/INVMAT/BADI_ATTACH_DOWNLOAD	Download Attachments
/INVMAT/BADI_ATT_MAT_DOC_CRE	Attachment creation for matdoc
/INVMAT/BADI_AT_ATTACH_DELETE	BADI for Delete Assettag Attachments
/INVMAT/BADI_AT_ATTACH_DISPLAY	BADI for display attachments
/INVMAT/BADI_AT_ATTACH_UPLOAD	BADI for Upload Assettag Attachments
/INVMAT/BADI_GET_ROOMS_LIST	BADI Definition for List of rooms
/INVMAT/BADI_GRMAT_DOC_ITEMS	GR Matdoc items Label printing
/INVMAT/BADI_ASSET_TAG_UPD_MUL	BADI for Update Multiple Asset tag Infor- mation

Table 10-1 BADIs in mAssetTag Application (continued)

BADI Name	BADI Description
/INVMAT/BADI_CREATE_ASSET_MUL	BADI for Multiple Create Asset
/INVMAT/BADI_ASSETS_TO_BATCH	Assign assets to Batch number
/INVMAT/BADI_ASSET_ANALYTICS	BADI for Asset Analytics
/INVMAT/BADI_ASSET_BATCHES	BADI Definition for List of asset batches
/INVMAT/BADI_ASSET_INV_UPDATE	Asset Inventory Status Update
/INVMAT/BADI_ASSET_KPI	Asset KPI
/INVMAT/BADI_ASSET_RECON	Asset Reconciliation
/INVMAT/BADI_ASSET_RETIREMENT	BADI for Asset retirement
/INVMAT/BADI_ASSET_SCHEDULE	Schedule Assets
/INVMAT/BADI_ASSET_STATUS	Get Asset Status
/INVMAT/BADI_ASSIGN_ASS_TO_USR	Assign asset to user
/INVMAT/BADI_BATCHNUMBER_LIST	BADI for Batchnumber list
/INVMAT/BADI_CHECKOUT_STATUS	BADI for Asset Checkout Status
/INVMAT/BADI_CREATE_ASSET	Create Asset
/INVMAT/BADI_DDPLANT_LIST	Plant List
/INVMAT/BADI_DOC_TYPES	BADI for document types
/INVMAT/BADI_GET_MOBILE_ASSETS	Get the mobile assets details
/INVMAT/BADI_INVENTORY_STATUS	Get Asset Inventory Status
/INVMAT/BADI_KOSTL_LIST	BADI for Costcenter list
/INVMAT/BADI_LOCATION_DETAILS	Get Location Details
/INVMAT/BADI_TRADING_PARTNERS	BADI for trading partners
/INVMAT/BADI_TRANS_TYPES	Asset transaction types
/INVMAT/BADI UPDAT TASKSSTATUS	BADI Definition for Update Status of As-
	signed Tasks

Table 10-1 BADIs in mAssetTag Application (continued)

BADI Name	BADI Description
/INVMAT/BADI_ASSET_USER_VAL	BADI Definition for Asset Scheduler User Validation
/INVMAT/BADI_CAPTURE_ASSETDATA	BADI Definition for Capturing asset data from mobile device
/INVMAT/BADI_USER_ADOPTION	BADI Definition for User Adoption
/INVMAT/BADI_USER_DETAIL_LIST	BADI Definition for User Details List
/INVMAT/BADI_GRPO_ATTACH_DISPL	BADI Definition for GRPO Attachment Dis- play
/INVMAT/BADI_GRPO_ATTACH_DOWNL	BADI Definition for GRPO Attachment Download
/INVMAT/BADI_ASSET_INV_DELETE	BADI Definition for Asset Inventory Status Delete
/INVMAT/BADI_ASSET_INV_UPDMUL	BADI Definition for Inventory Status Update Multiple
/INVMAT/BADI_LANGUAGE	BADI Definition for Language
/INVMAT/BADI_FUNCTIONLOCATION	Badi for Location List

Table 10-1 BADIs in mAssetTag Application (continued)

11. 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 andactions that are needed to be performed. The same steps can be followed for other products and platforms as well using the appropriate file and product names for other products.

To prepare and update the resource file:

- 1. Download the resources_mworkorder_zip file to the local drive.
- 2. Extract the resource_mmworkorder.zip file.

The folder structure: **resource_mworkorder**, **Dev**, **ios** is displayed after successful extraction:

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

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

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

Attribute	Description
AppName	This field is used to identify the Inno- vapptive product name.
	Conditions: Use uppercase alphabets.
	Possible Values: Based on the product, refer to the table Table 11-3 : AppName and App id <i>(on page 106)</i> . Example: MWORKORDER
Environment	Identifies the landscape to which the mobile application is connected. This value is displayed on the Login page of the mobile app.

Table 11-1 json file attributes

Attribute	Description
	Conditions: None
	Possible Values: Development/Quali- ty/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 applica- tion. Use this parameter to customize the app screen elements, such as the header bar, to meet your corporate branding needs. Work with your appro- priate branding team to identify the color that meets your enterprise palette.
	you can identify the Hex color code val- ue 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 require- ment.
	Example:#42c2f4
TouchId	Set the value as True to enable the Touch ID feature in application.

Attribute	Description
AppPassCode	Set the value as True to enable the App Passcode feature in application.
ForgotPwd	Set the value as True to enable the For-got Password feature in application.
ForgotPwdLink	Set the value as True to display the website 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 se-lection. 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>"} Possible Values: Languages supported by SAP Example: {"id":1,"key":"E","value":"English"} </languagename></saplanguagecode></sequencenumber></pre> Note: For RACE TM Dynamic Forms, only English language is supported.
Timeout	Application idle Timeout (in minutes). This setting allows the administrator to specify the automatic time out when apps are left idle.
	Possible Values: As per the require- ment.

Attribute	Description
	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.

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 com- munication 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)	
ApplicationID	ApplicationID is the ID configured in SMP/SCPms and the mobile applica- tion 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.mworko- rder	

Table 11-2 json parameters

Parameter	Description
SecurityType	This field is used to identify the securi- ty type configured in SMP/SCPms serv- er for the application. Security types are used based on authentication mecha- nism/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
Whitelist [ApplicationID]	All Innovapptive applications require connection settings for RACE™ services and may require other connection set- tings also.
	mWorkOrder application requires con- nection setting for RACE™, EQUIPMENT, FUNCTIONALLOCATION, and ATTACH- MENT.
	Example . com.innovapptive.race, mwo.equipment, mwo.funloc and mwo.attach.
Whitelist [StoreName]	This field describes the nameOffline stores for whitelist ApplicationIDs. RACE™ store is common for all Inno- vapptive applications.

Description	
ation requires to	
ng StoreName –	
UNCTIONALLO-	
IMENT.	

Figure 11-1 Sample JSON Settings file

"Server": "smphost",
"Port": "8080",
"ApplicationID": "com.innovapptive.mworkorder",
"SecurityType": "SSO2",
"https": false,
"AppName": "MWORKORDER",
"Environment": "Development",
"ShowDemoButton":true,
"hcolor":"#445E75",
"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":"1","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.

Name	APP ID	AppName
Mobile Asset Tag	com.innovapptive.mas- settag	MASSETTAG
Mobile Inventory	com.innovapptive.min- ventory	MINVENTORY
Mobile Service Order	com.innovapptive.mser- viceorder	MSERVICEORDER
Mobile Shopping Cart	com.innovapptive.mshop	MSHOP
Mobile Worklist	com.innovapptive.mwork- list	MWORKLIST
Mobile Work Order	com.innovapptive.m- workorder	MWORKORDER
RACE™ Dynamic Forms	com.innovapptive.race- dynamicforms	RACEDYNAMICFORMS

Table 11-3 AppName and App id

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

8. Update the Image files.

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

- 9. Compress the following files with the updated files from Part 1 & 2 into a zip file with the name **resources_ios.zip**. Ensure that the content and filenames are exactly matching.
 - App_BG_iPad_Landscape.png
 - App_BG_iPad_Protrait.png
 - App_BG_iPhone.png
 - App_Logo.png
 - settings.json

12. Download App and Install

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

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

Download the mAssetTag app from Apple App Store and install it.