



Version 5.9

Uninstalling Adapter for SAP

Manual

Document: **Manual - Uninstalling Adapter for SAP**

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Author: **AEgilmez**



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1 **Introduction**

The FORCAM FORCE™ Adapter for SAP can be uninstalled from the SAP system.

All FORCAM adapter objects are developed in a separate package and will not modify any SAP standard objects.

The FORCAM FORCE™ Adapter for SAP is using a specific namespace, registered for FORCAM only. Customer specific enhancements are not subject of this manual but must be considered accordingly in uninstallation process of the FORCAM Adapter.

This manual is divided into two sections; one for deactivation and preliminary steps and one for add-on software uninstallation.

The deactivation and all preliminary steps must be done before the complete uninstallation.

The tasks detailed in this manual should be performed by SAP basis personnel with the assistance of FORCAM consultants.

- ⓘ A SAP developer key is required to delete the FORCAM FORCE™ Adapter for SAP. Removal of customer specific programs or procedures is not part of this manual but should be considered with the whole uninstallation activity.

2 Deactivation of the FORCAM Adapter

The activities listed below describe the deactivation of the FORCAM SAP integration.

The FORCAM Adapter for SAP is a batch interface and communicates via IDOC exchange.

First target must be the disconnection of this IDOC flow and prevention of new IDOCS in SAP IDOC inbox and outbox.

- i** If any of the removal activities are performed then all the removal activities must be performed as the system will not function properly at this point.

2.1 Deactivation of FORCAM FORCE™ Configuration for SAP Integration

The configuration in FORCAM FORCE™ must be deactivated to disable the message flow from and to SAP. FORCAM FORCE™ will be disconnected from SAP.

- i** Main objective: There are no messages being sent from FORCAM or RFC calls being made to SAP. Also, no new messages received from SAP must be processed.
Empty the send queue as well.

The steps to perform this are described below:

- Edit the FORCAM workplaces and change the ERP key to **INTERNAL_ORDER**.
- Deactivate the **SAP Upload** flag in each workplace.

Workplace Configuration					
Master Data					
Workplace Name	Workplace Description	ERP Keys	Booking Active	SAP Upload Active	
1162	Test Machine / RMS	900-0100-8030	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C1122A	DMMI Test Machine	100-FCUS-CIN1-ACAD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DEM_WPL	DEM Test WPL	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DEM_WPLMM	DEM Test WPL Machine Monitoring	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
FANUC_Demo	FANUC_Demo	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fanuc1	Fanuc1	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MFMS10-MC1	Mazak i-400	100-FCUS-CIN1-ACAD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MFMS10-MC2	Mazak i-400ST	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MFMS10-MC3	Mazak i-300S	200-0010-0100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MTCorg	MTConnect Organization	INTERNAL_ORDER-INTER	<input type="checkbox"/>	<input type="checkbox"/>	
M_SAP_01	SAP Workplace 1	400-0010-0300-FOE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
M_SAP_02	SAP Workplace 2	400-0010-0300-FOE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Manual_Workplace	Manual_Workplace	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
OPC_AutoClave1	AutoClave1	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
OPC_UA	OPC UA Test	INTERNAL_ORDER-INTER	<input type="checkbox"/>	<input type="checkbox"/>	
Test1	Test01	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TestMachine	Test_Machine	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WAGO MTC HAAS	WAGO MTConnect HAAS MDC (KB)	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WAGOMTC_Demo	WAGO MTConnect Demo	INTERNAL_ORDER-INTER	<input type="checkbox"/>	<input type="checkbox"/>	
WAGO_1	Test WAGO	INTERNAL_ORDER-INTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Deactivation of the FORCAM Adapter

- Remove the ERP key.

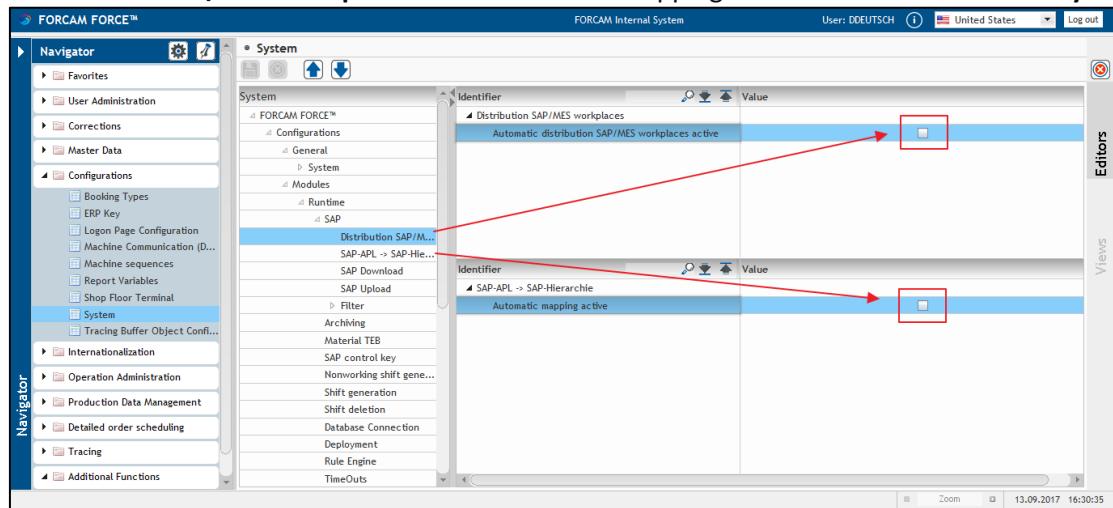
Client	Company Code	Plant	System Id
100	FCUS	CIN1	ACAD
200	0010	0100	
400	0010	0300	FOE
900	0100	8030	
DEM	DEM	DEM1	DEM1
DENSO	DMMI	DMMI	DMMI
INTERNAL_ORDER	INTERNAL_ORDER	INTERNAL_ORDER	INTERNAL_ORDER

- Optional: remove SAP workplaces from the FORCAM SAP hierarchy.

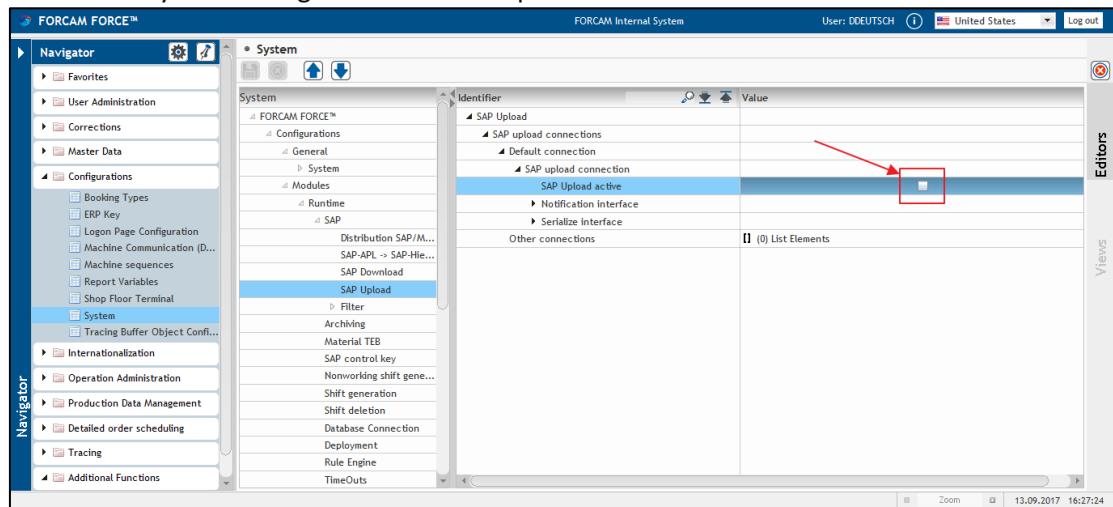
Short Description	Description	Code	Level Count	Unique
DNC_HRY	DNC_HRY	DNC_Hierarchy	2	<input checked="" type="checkbox"/>
TRGT	Target Machines	Custom(101)	2	<input checked="" type="checkbox"/>
SHIFT_HIERARCHY	SHIFT_HIERARCHY	Work Time Hierarchy	3	<input checked="" type="checkbox"/>
SAP_WPL	SAP_WPL	SAP_Hierarchy	2	<input checked="" type="checkbox"/>
LINE_HRY	LINE_HRY	Line Hierarchy	2	<input checked="" type="checkbox"/>

Deactivation of the FORCAM Adapter

- Disable the system configuration “Automatic Distribution of Workplaces SAP/MES” in **Distribution SAP/MES workplaces** and “Automatic mapping” in **SAP-APL > SAP-Hierarchy**.



- Disable the system configuration for SAP Upload.



2.2 Stop Creation of New FORCAM IDOCS in SAP IDOC Outbox

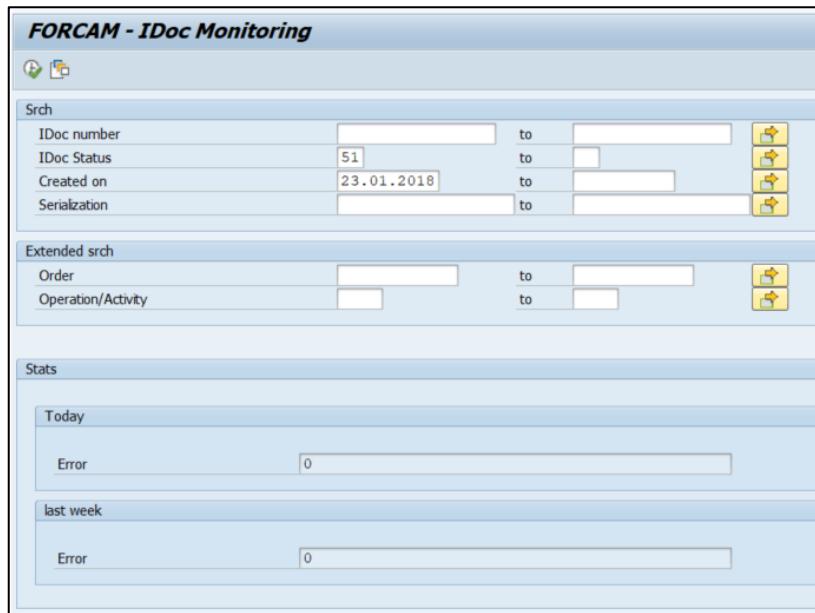
Remove the **active** flag from the **/FFMES/AUFTR** table. By deactivating the flag, outbound IDOCs with order data will no longer be created.

Table /FFMES/AUFTR Display	
Client	100
Company Code	0010
Plant	0100
Order category	1
active	X
Country	DE
Language	EN
HeadTxt	X
op.	X
Flag op.long text	X
PRT	X
components	X
Classification mat.	
Mat. master	
CORCB	
NOTT	
Flag Created Ord.	X
Ind.: Error	

Deactivation of the FORCAM Adapter

2.3 Work on existing FORCAM IDOCS in SAP IDOC outbox and inbox

Process all FORCAM specific un-processed or error IDOCs which exist in the system. To perform this task, you can use the FORCAM report **/FFMES/IDOC_MON**.



FORCAM - IDoc Monitoring

Srch

IDoc number	to	[]	[]
IDoc Status	to	51	[]
Created on	to	23.01.2018	[]
Serialization	to	[]	[]

Extended srch

Order	to	[]	[]
Operation/Activity	to	[]	[]

Stats

Today

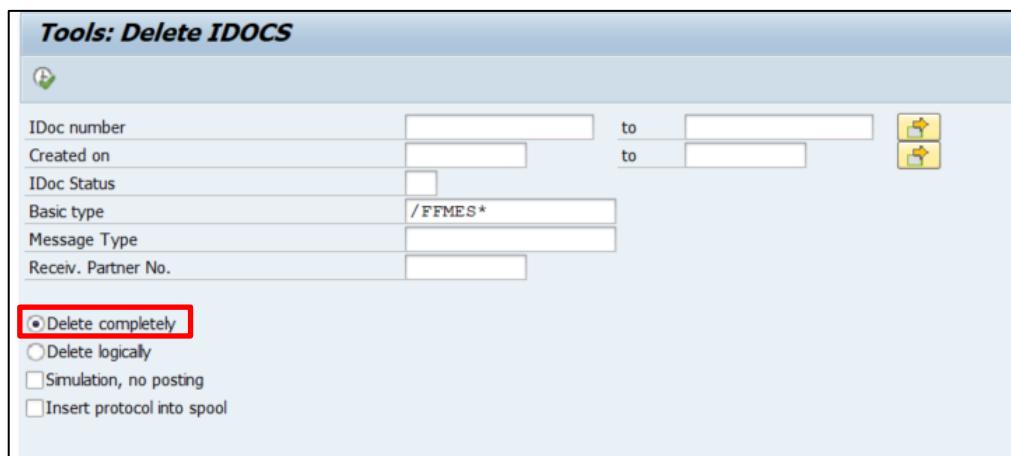
Error	0
-------	---

last week

Error	0
-------	---

Delete all FORCAM basic type IDOCs from the system by using the FORCAM program **/FFMES/IDOC_DELETE**.

The **Delete completely** option must be used to remove IDOCs from all databases.



Tools: Delete IDOCS

IDoc number

Created on	to	[]	[]
IDoc Status	to	[]	[]

Basic type: /FFMES*

Message Type

Receiv. Partner No.

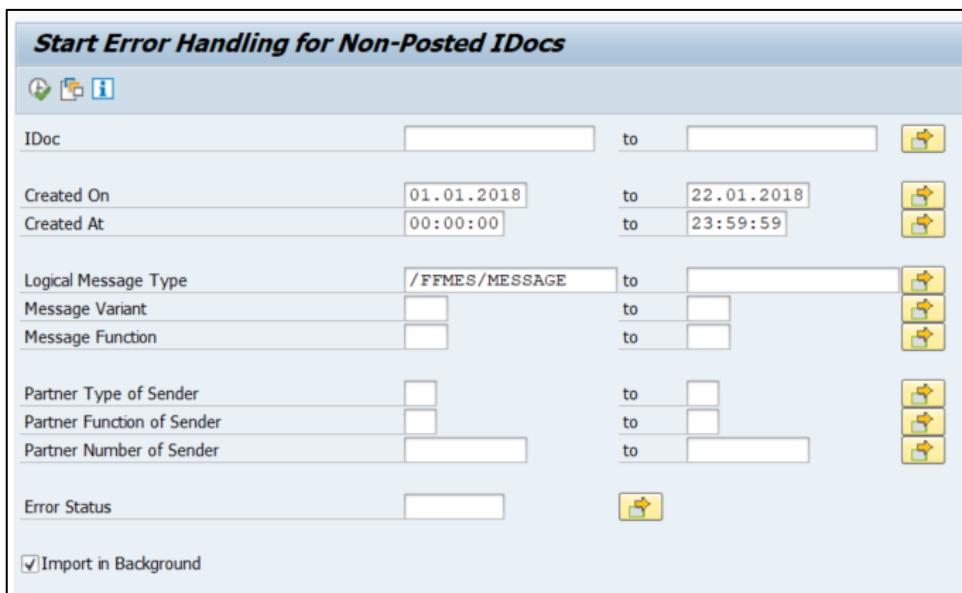
Delete completely
 Delete logically
 Simulation, no posting
 Insert protocol into spool

2.4 Delete RFC Interface User

System user for RFC communication used by FORCAM interface for uploading messages to SAP must be deleted or deactivated.

2.5 Stop Continuous Activities

Stop and remove all planned Service-Jobs for IDOC reprocessing of FORCAM IDocs. Reprocessing is mostly done by executing the standard program **RBDMANIN** with specific FORCAM-Variant.



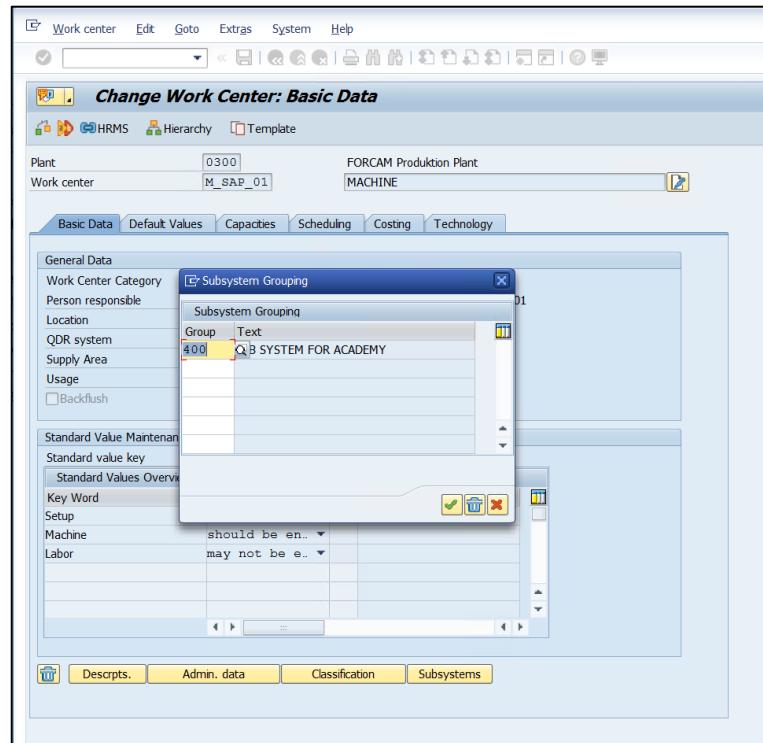
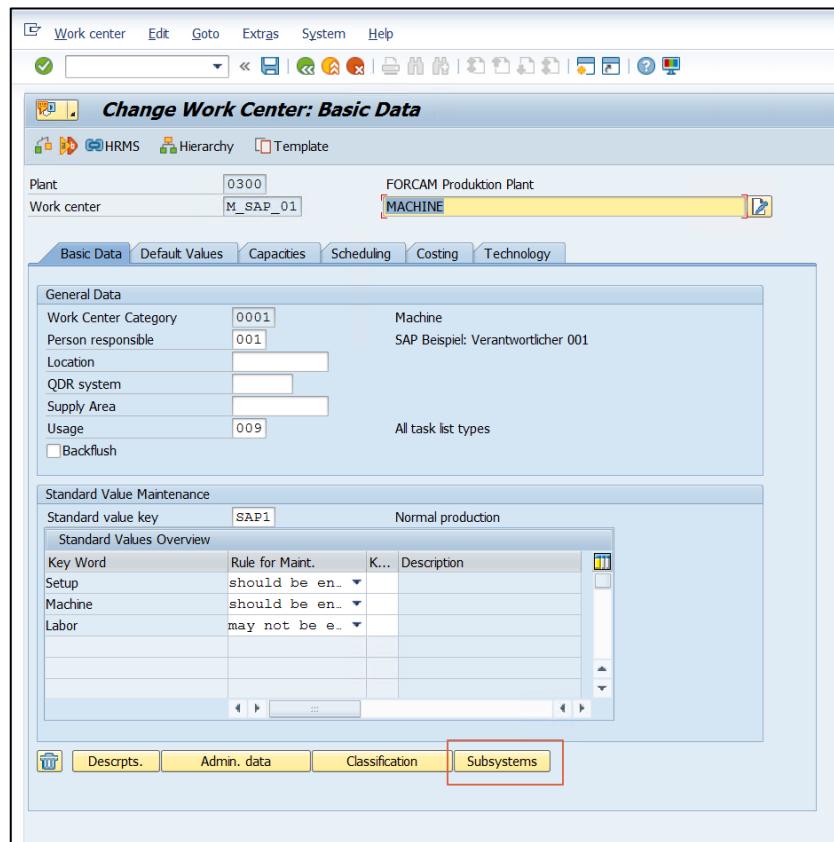
Start Error Handling for Non-Posted IDocs			
IDoc	<input type="text"/>	to	<input type="text"/>
Created On	<input type="text" value="01.01.2018"/>	to	<input type="text" value="22.01.2018"/>
Created At	<input type="text" value="00:00:00"/>	to	<input type="text" value="23:59:59"/>
Logical Message Type	<input type="text" value="/FFMES/MESSAGE"/>	to	<input type="text"/>
Message Variant	<input type="text"/>	to	<input type="text"/>
Message Function	<input type="text"/>	to	<input type="text"/>
Partner Type of Sender	<input type="text"/>	to	<input type="text"/>
Partner Function of Sender	<input type="text"/>	to	<input type="text"/>
Partner Number of Sender	<input type="text"/>	to	<input type="text"/>
Error Status	<input type="text"/>		<input type="button" value="..."/>
<input checked="" type="checkbox"/> Import in Background			

2.6 Remove Subsystem Grouping in SAP Work Center

Maintenance of FORCAM-specific sub-system grouping in work center enables the transfer of order operations into the FORCAM system.

To disable this transfer, remove subsystem grouping information in the FORCAM relevant Work Center (**CR02**).

Deactivation of the FORCAM Adapter



2.7 Remove ALIAS services maintained in SICF

ALIAS of SAP standard idoc_xml service has been created for uploading data to SAP. To interrupt this upload, remove FORCAM related ALIAS services via **SICF** code.

Change External Alias

External Alias: /forcam/forcam_xml
Trg Element: /default_host/sap/bc/doc_xml

Description:

Description 1:	FORCAM Inbound IDocs
Description 2:	
Description 3:	

Service Data Logon Data Trg Element Error Pages Administration

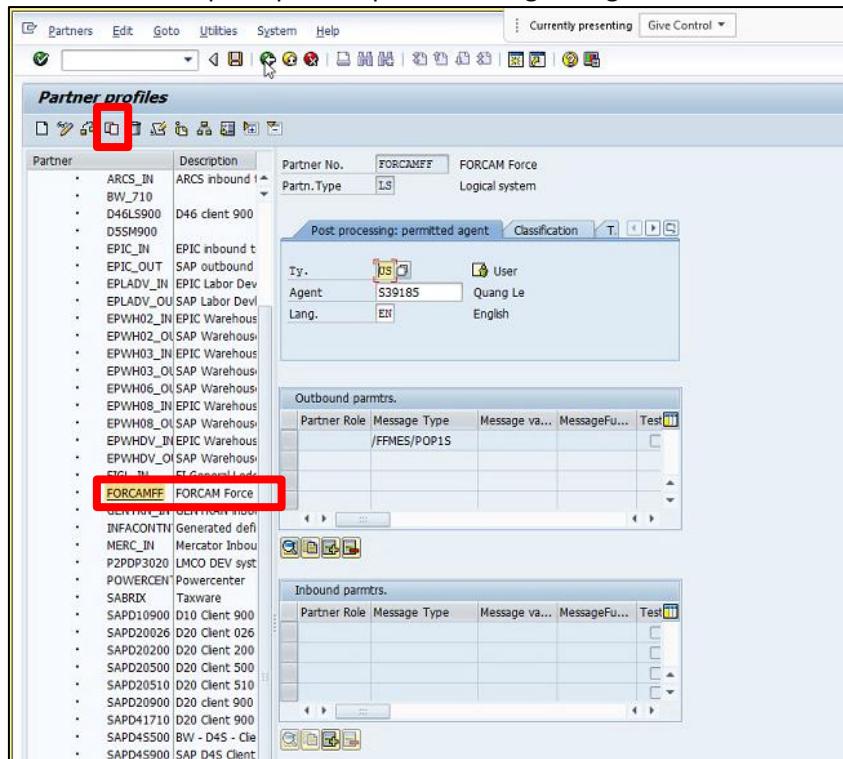
Select target handler by double-clicking:

Virtuelle Hosts / Services	Documentation	Referenz Service
gui	ITS-Based GUI Services	
hc	Help Center Service	
HRPAO_OS	HCM Open Search Provider	
icf	Internet Communication Framework	
icman	Test Handler for ICM (Troubleshooting Only)	
idoc_xml	Inbound IDoc in IDoc XML Format	
igs_data	HANDLER FOR DYNAMICALLY GENERATED SCRE...	
im	Information Lifecycle Management Services	
kw	KNOWLEDGE WAREHOUSE	
lrep	LREP HTTP handler	
MIDSD	Service for MI DSD Scenariion Sync	
Mi_host_http	HTTP-connections for the synchronisation of the ...	

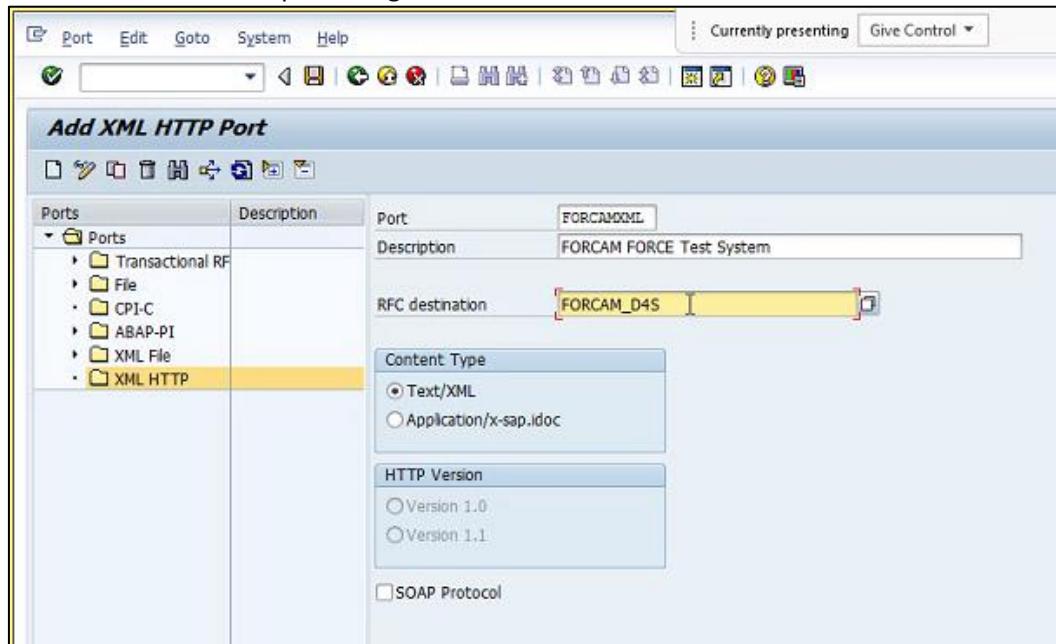
Deactivation of the FORCAM Adapter

2.8 Remove FORCAM Specific Standard Customizing

- Remove the complete partner profile settings using transaction **WE20**.



- Remove the outbound port using transaction **WE21**



Deactivation of the FORCAM Adapter

- Remove the RFC destination using transaction **SM59**.

Partner	Description
ARCS_IN	ARCS inbound
BW_710	
D46LS900	D46 client 900
D55M900	
EPIC_IN	EPIC inbound
EPIC_OUT	SAP outbound
EPLADV_IN	EPIC Labor Dev
EPLADV_OUT	SAP Labor Dev
EPWHD2_IN	EPIC Warehouse
EPWHD2_OUT	SAP Warehouse
EPWHD3_IN	EPIC Warehouse
EPWHD3_OUT	SAP Warehouse
EPWHD6_IN	EPIC Warehouse
EPWHD8_IN	EPIC Warehouse
EPWHD8_OUT	SAP Warehouse
EPWHDV_IN	EPIC Warehouse
EPWHDV_OUT	SAP Warehouse
FIGL_IN	FI General Ledger
FORCAM	FORCAM Force
GENTRN_IN	GENTRAN inbound
INFACONTN	Generated defi
MERC_IN	Mercator Inbound
P2PDP3020	LMOO DEV syst
POWERCENT	Powercenter
SABRD	Taxware
SAPD10900	D10 Client 900
SAPD20026	D20 Client 026
SAPD20200	D20 Client 200
SAPD20500	D20 Client 500
SAPD20510	D20 Client 510
SAPD20900	D20 Client 900
SAPD41710	D20 Client 900
SAPD45500	BW - D45 - Client
SAPD45900	SAP D45 Client

- In transaction **SALE**: Remove the logical system definition for the FORCAM system.

RFC Connections	Type	PL ...	Comment
BDE1000150	T	-	
BDE1000150_GESAMT	T	-	
BDE2000100	T	-	
BDE2000100_GESAMT	T	-	
CALLTP_Linux	T	X	Transport Tools: tp Interface *generated*
DOCUMENTATION_HELP	T	-	Call WinHelp and WinWord from R/3
EU_SCRP_TEST	T	-	Graphical Screen Painter (local Test for A.Hermann)
EU_SCRP_WN32	T	-	Graphical Screen Painter (WindowsNT / Windows95)
F1_HELP_SERVER	T	-	Windows RFC server for F1 help on fields, messages and command fields
F1_HELP_SERVER_32	T	-	Windows RFC server for F1 help on fields, messages and command fields
F1_HELP_SERVER_40	T	-	Windows RFC server for F1 help on fields, messages and command fields
FFORDERS	T	-	
FORCAMFILES	T	-	
GFW_ITS_RFC_DEST	T	-	Generated RFC destination for IGS
IGS_RFC_DEST	T	-	Generated RFC destination for IGS
LOCAL_EXEC	T	-	Starts the Program 'RFCEXEC' on Front-End Machine
LOCAL_PRINT	T	-	
MDX_PARSER	T	-	MDX Parser for ODBO BAPI
OPTSERVER_MIP01	T	-	
R3_WINDOWS_SERVER	T	-	Desktop integration for Windows (WinWord 6.0)
SAPBC	T	-	
SAPDB_DBM	T	-	SDB command mode dbmrfc
SAPDB_DBM_DAEMON	T	-	SDB session mode dbmrfc
SAPFORMS	T	-	RFC server for executing a work item using a form
SAPFTP	T	-	
SAPFTPA	T	-	Generated automatically on 20070718
SAPGUI	T	-	SAPGUI
SAPHTTP	T	-	
SAPHHTPA	T	-	Automatically Generated on 19991205
SAPIRCONTROLLER	T	-	Information Repository Controller

Example entries for logical system definition

Deactivation of the FORCAM Adapter

- Remove all FORCAM specific message types via transaction **WE81**.

Display View "EDI: Logical Message Types": Overview	
EDI: Logical Message Types	
Message Type	Short text
/FFMES/APL0300	Download Workplace from SAP to MES
/FFMES/APL0400	Download Workplace from SAP to MES
/FFMES/APLSALESEU	Download Workplace from SAP to MES
/FFMES/APLSALESUS	Download Workplace from SAP to MES
/FFMES/ARBPL	Download Workplace from SAP to MES
/FFMES/CACL2	Aval.Capacity interval Work center (Shift data) CLD2
/FFMES/CAPA	Aval.Capacity interval Work center (Shift data)
/FFMES/CP0300	Aval.Capacity interval Work center (Shift data)
/FFMES/CP0400	Aval.Capacity interval Work center (Shift data)
/FFMES/CPSALESEU	Aval.Capacity interval Work center (Shift data)
/FFMES/CPSALESUS	Aval.Capacity interval Work center (Shift data)
/FFMES/FA0100	Production orders for MES (new)
/FFMES/FA0300	Production orders for MES (new)
/FFMES/FA0400	Production orders for MES (new)
/FFMES/FACL2	Production orders for MES (CLD2)
/FFMES/FASALESEU	Production orders for MES (new)

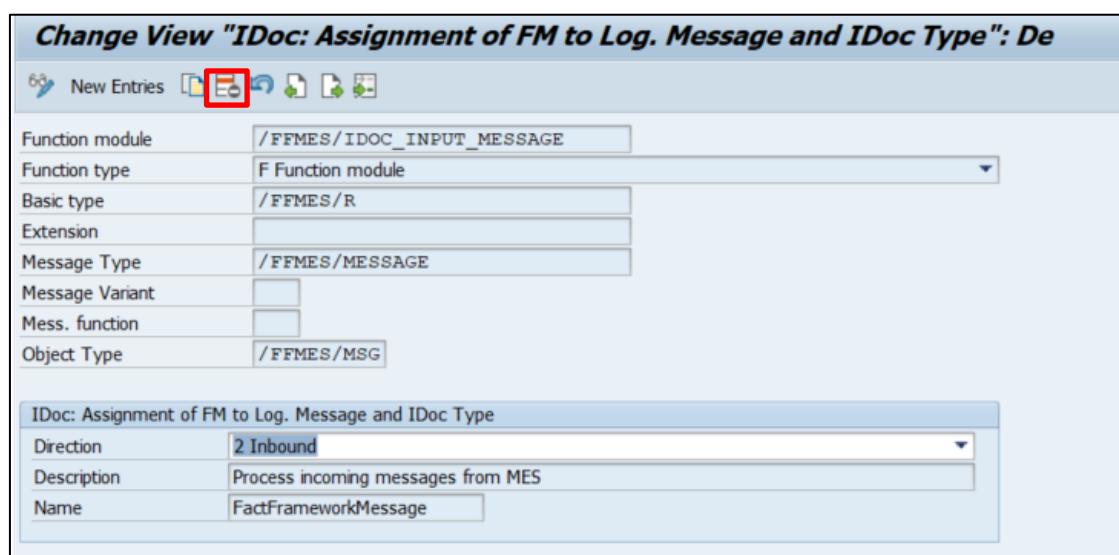
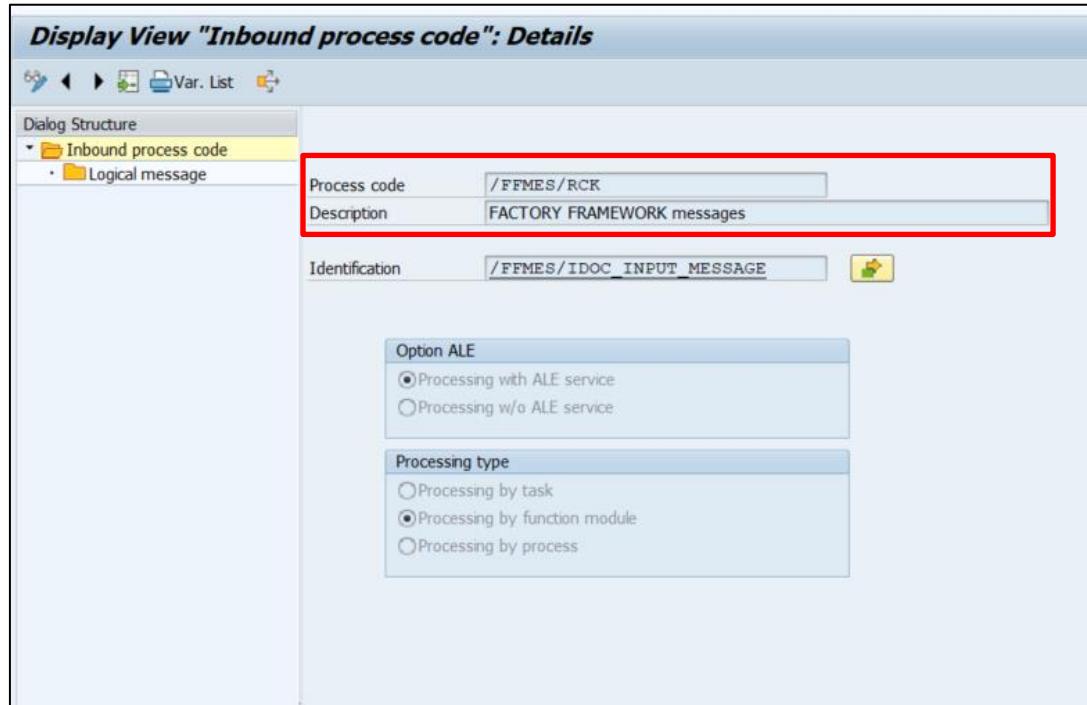
Position... Entry 60 of 1.872

- Remove all logical messages assigned to FORCAM basic types via transaction **WE82**.

Display View "Output Types and Assignment to IDoc Types": Overview				
Message Type	Basic type	Extension	Release	
/FFMES/APL0400	/FFMES/W		700	
/FFMES/APLSALES...	/FFMES/W		700	
/FFMES/APLSALES...	/FFMES/W		700	
/FFMES/ARBPL	/FFMES/W		700	
/FFMES/CACL2	/FFMES/S		700	
/FFMES/CAPA	/FFMES/S		700	
/FFMES/CP0400	/FFMES/S		700	
/FFMES/CPSALESEU	/FFMES/S		700	
/FFMES/CPSALESUS	/FFMES/S		700	
/FFMES/FA0100	/FFMES/F		700	
/FFMES/FA0100	/FFMES/F	ZFCMESF	700	
/FFMES/FA0400	/FFMES/F		700	
/FFMES/FACL2	/FFMES/F		700	
/FFMES/FASALESEU	/FFMES/F		700	
/FFMES/FASALESUS	/FFMES/F		700	
/FFMES/HR0400	/FFMES/H		700	

Deactivation of the FORCAM Adapter

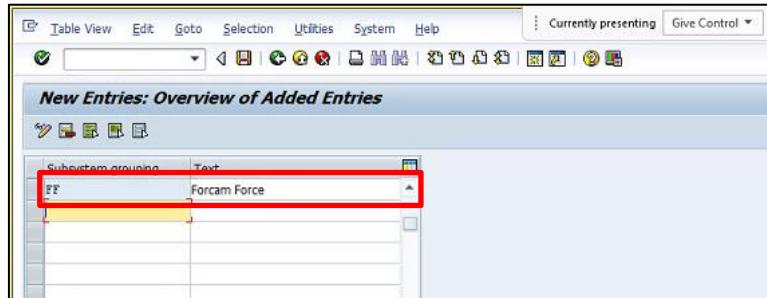
- Remove all FORCAM related process codes in SAP via transaction **WE42**. While deleting this, IDOC assignments to FM will be deleted automatically.



This data will be automatically deleted (originally maintained in **WE57**).

Deactivation of the FORCAM Adapter

- Remove specific subsystem grouping for the FORCAM Adapter in transaction **SPRO**. This subsystem grouping is obsolete after the uninstallation of the FORCAM Adapter.



- i** Make sure that no further records and work centers in all systems are using this subsystem grouping before removal in the SAP Development System.

3 Add-on Software Uninstallation

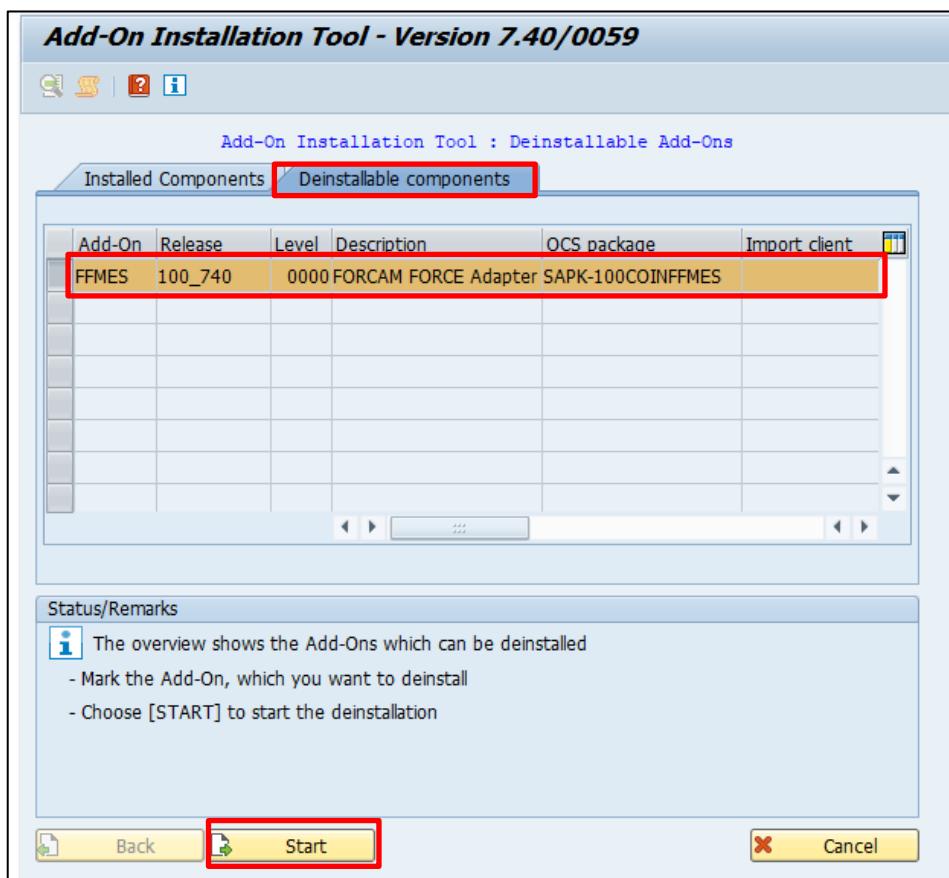
⚠ Uninstallation of add-on component from SAP environment is not without risk. If the system in question is a development or quality test system, it is highly advisable to store a copy of a production or backup of the system before FORCAM was introduced to ensure removal of all modifications.

Exclusions:

- i** Only SAP to FORCAM FORCE™ integration is configured in the environment.
- ⚠** The FORCAM Adapter for SAP must only be removed from the SAP system and configuration under great caution and with full consulting support from the FORCAM team.

The FORCAM Adapter must be uninstalled via transaction **SAINT**:

1. In the **SAINT** screen, go to the **Deinstallable components** tab.
 2. Select the appropriate add-on component and click **Start**.
- This process will start the uninstallation of Add-On component in the system.



Add-on Software Uninstallation

- After following SAP instructions during uninstallation process, a success message is displayed.
- 3. Click **Finish**.
- The FORCAM Adapter is uninstalled from the SAP system.

