SMS Splunk App for SAP Plant Maintenance (PM) Technical Guide

The SMS Splunk App for SAP PM is an Out-Of-Box & Pre-Integrated SAP NW based add-on solution which enables data & process integration with Splunk Enterprise Applications.

- Pre-Defined REST API's
- Access EAM Master Data
- Process EAM Transactions
- Multiple Filters
- Application Logs
- Enables Condition and Predictive Maintenance

SAP System Pre-Requisites

- SAP ECC, S/4HANA
- SAP ECC 6.0 Ehp5+ or S/4HANA 1709+
- SAP NetWeaver 7.03 or higher
- HTTPS Enablement in SAP [Recommended]
- One SAP User License for Splunk Integration
- To check Installed product versions and follow the steps below
  - Select Menu System > Status
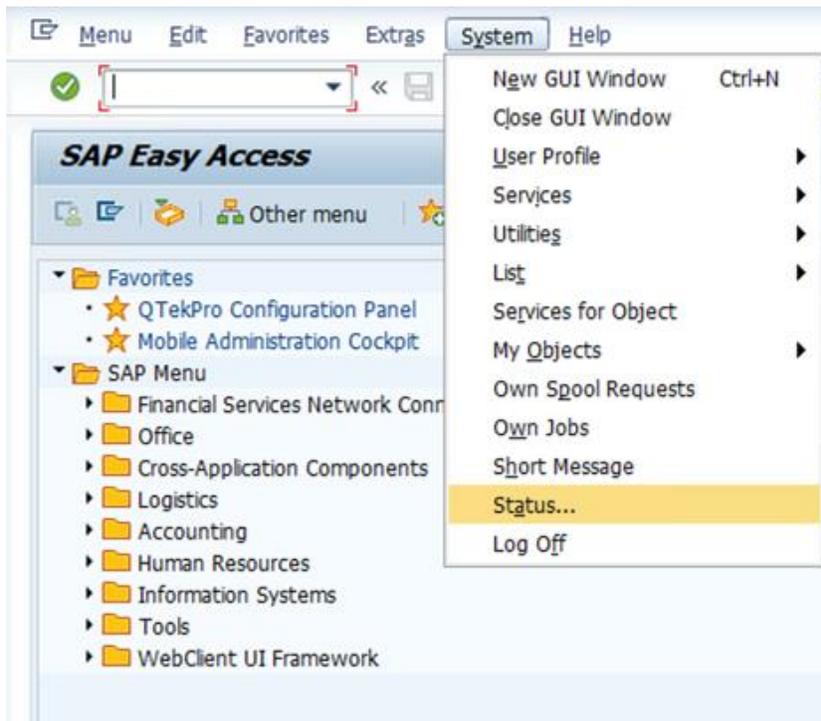
System: Status

Usage data

Client	800	Previous logon	03.06.2020	03:38:30
User	BASIS	Logon	04.06.2020	00:15:41
Language	EN	System time		07:09:01
		Time Zone	EST	10:09:01

Number of Failed Password Logon Attempts: 2

SAP data

Repository data

Transaction	SESSION_MANA...
Program (screen)	SAPLSMTR_NAV...
Screen number	100
Program (GUI)	SAPLSMTR_NAV...
GUI status	SESSION_ADMIN

SAP System data

Product Version	- See Details
Installation Number	0090181748
License expiration	31.12.9999
Unicode System	Yes

Click here

Host data

Operating system	Windows NT
Machine type	4x X86_64
Server name	eq1_EQ1_00
Platform ID	562

Database data

Database System	SYBASE
Release	16.0.02.05
Name	EQ1
Host	eq1
Owner	SAPSR3

Navigate

Installed Software

Installed Software Component Versions	Installed Product Versions

Product	Release	SP Stack	Vendor	Short Description of Product V...
EHP7 FOR SAP ERP 6.0	EHP7 FOR SAP ERP 6.0	03 (01/2014)	sap.com	EHP7 FOR SAP ERP 6.0
SAP NETWEAVER	7.4	05 (12/2013)	sap.com	SAP NETWEAVER 7.4

Use Filter to filter out list of installed products

Pre-Installation Steps

- Check SAP System Pre-requisites
- Perform SAP System Backup before installation
- Download & Extract Zip File containing SAP NetWeaver Add-on software
- Add-on will be delivered as file with extension "PAT"
- Ensure PAT file is placed in SAP system in folder "/usr/sap/trans/EPS/in"
- Please note in older SAP NW Versions, SAP Add-On CANNOT be un-installed
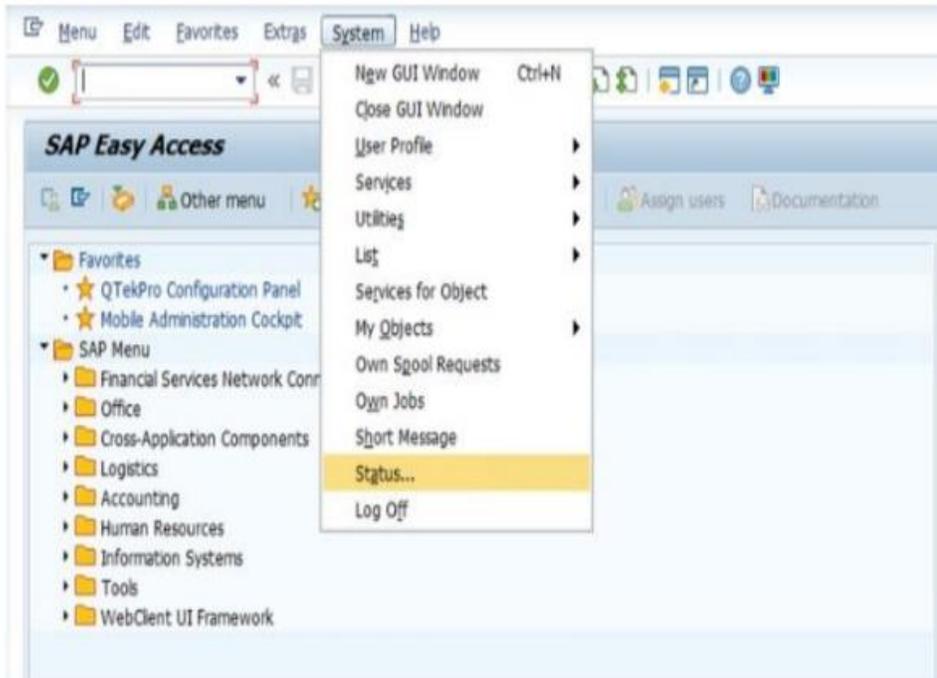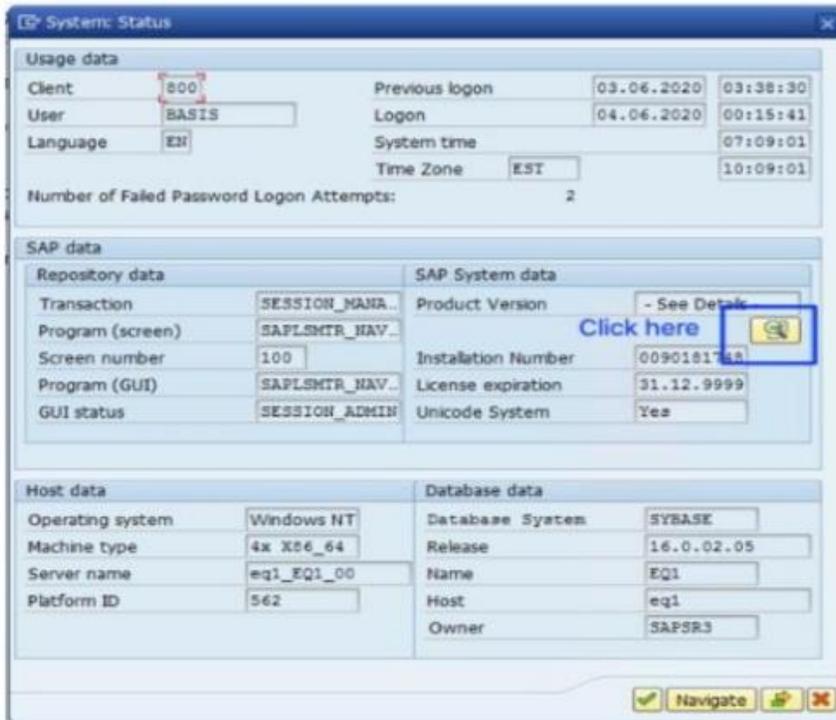
Installation Steps

- The Add-on software can be installed by following below steps:
  - Login to SAP development system with admin user into client "000"
  - Call transaction "SAINT" – Add-on Installation Tool
  - Make sure you have selected tab page "Installed Components" and then click on "Start" button
  - This will show list of available software components that can be installed into the system
  - Select relevant software component from the list and click on "Continue" to start the installation process
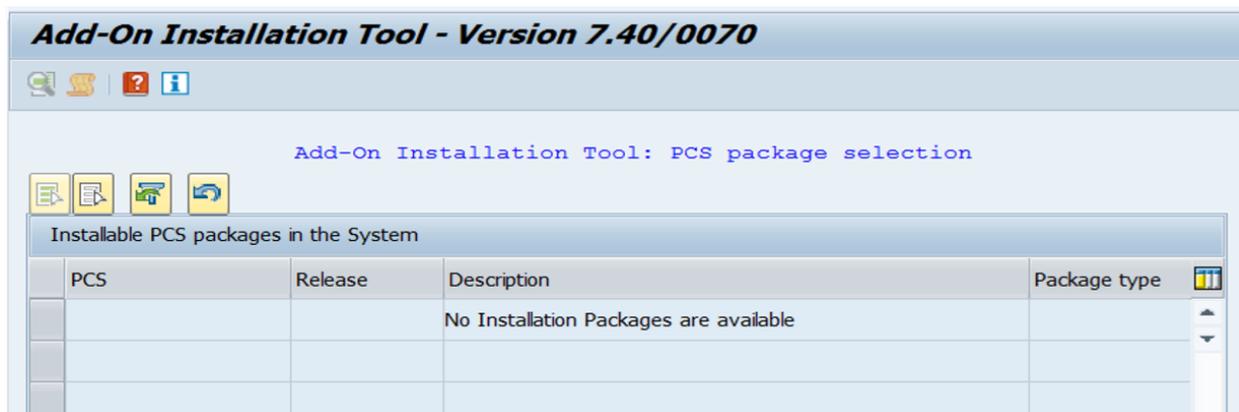
Post Installation Steps

- After successful installation, call transaction SICF
  - Enter "ESR" in the service name and execute(F8)
- In the next screen right click on the node "ESR" and select "Activate Service"
  - Next click on second "Yes" button in the popup
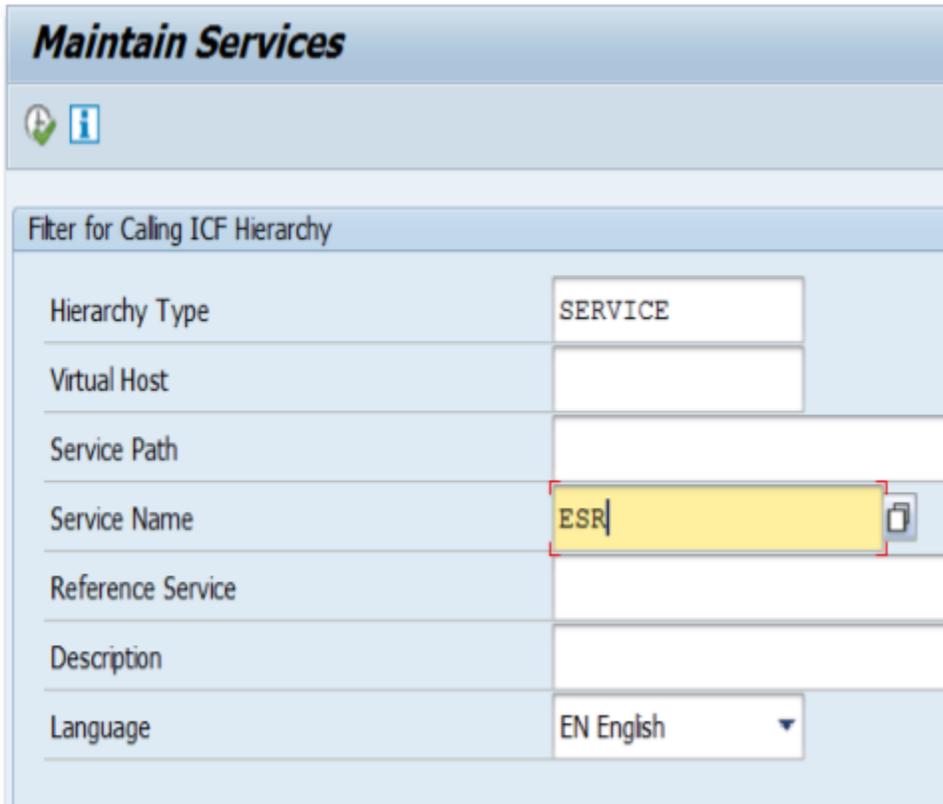
Maintain Services

Filter for Calling ICF Hierarchy

Hierarchy Type	SERVICE
Virtual Host	
Service Path	
Service Name	ESR
Reference Service	
Description	
Language	EN English

Virtuelle Hosts / Services	Documentation
▾ 🖥 default_host	VIRTUAL DEFAULT HOST
▾ 🌐 sap	SAP NAMESPACE; SAP IS OBLIGED NOT TO DELI...
▾ 🌐 bc	BASIS TREE (BASIS FUNCTIONS)
▸ 🌐 esr	Splunk REST Interface - Base node (Namespace)

- New Sub-Element
- Display Service
- Delete Service
- Rename Service
- Activate Service
- Deactivate Service
- Test Service
- Test Load Balancing
- References to Service
- Obj. Directory Entry
- Cut
- Copy
- Paste

Change Management

- All development objects of the connector are available in development packages /ESR/SIF and /ESR/EAM as shown below in SE80 Tcode
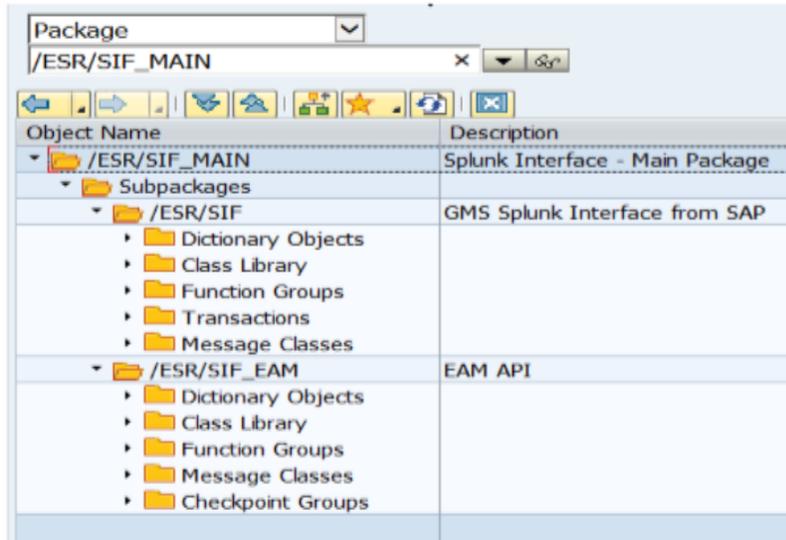
- Enable "Modify" for namespace /ESR/ in transaction SE03. This will enable to make code changes in the installed software
  - o SE03->Administration>Set System Change Option
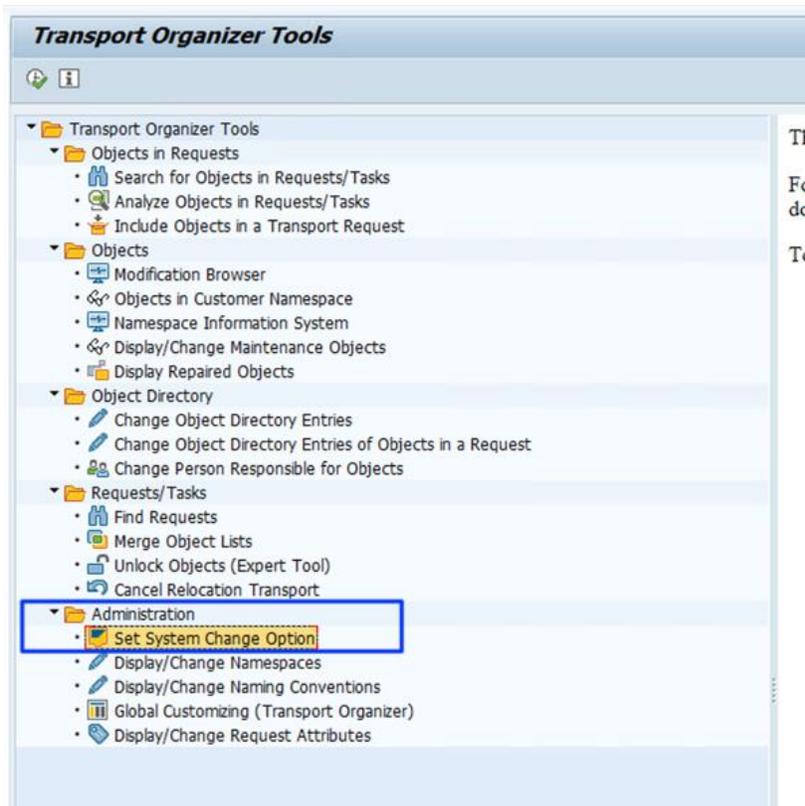
Namespace/Name Range	Prefix	Modifiable	Tech. ID
Planning Elements	/CUM/	X Modifiable ▼	/CUM/
Catch Weight Management	/CWM/	X Modifiable ▼	/CWM/
Direct Store Delivery	/DSD/	X Modifiable ▼	/DSD/
Application Development e-Accounting	/EACA/	X Modifiable ▼	/EACA/
Financials Development, E-Accounting	/EACC/	X Modifiable ▼	/EACC/
	/ERP/	X Modifiable ▼	/ERP/
GMS Splunk Interface	/ESR/	X Modifiable ▼	/ESR/
	/FBI/	X Modifiable ▼	/FBI/
	/FDT/	X Modifiable ▼	/FDT/

Uninstallation Steps

- Login to SAP development system with admin user into client "000"
- Call transaction "SAINT"
- Select tab page "Un-installable components"
- This tab page contains list of software components that can be uninstalled
- Select the relevant software component that should be uninstalled and then click on "Start" button to start uninstallation process
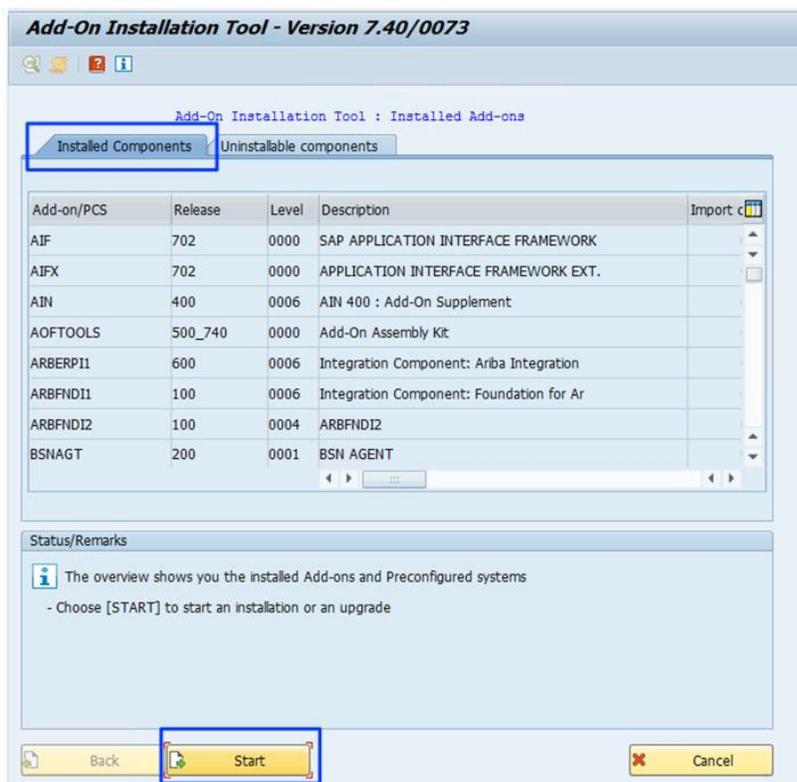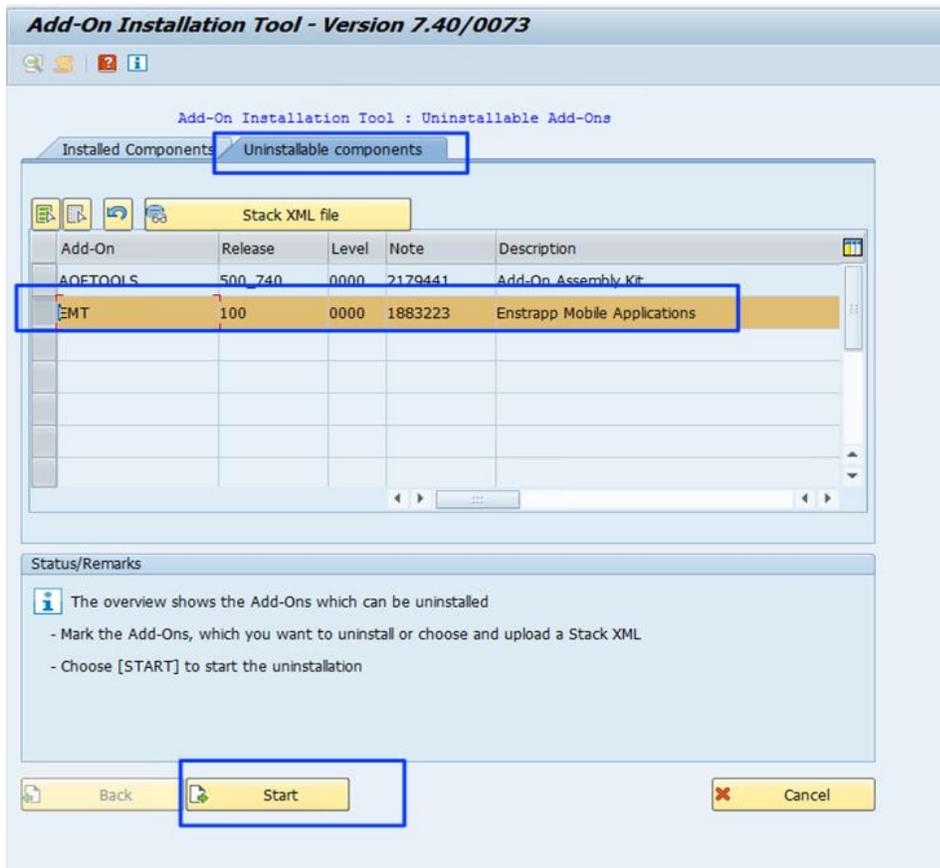
Troubleshoot Checklist

- Ensure SAP system is running and host & port are open
- Ensure SAP User Login credentials are valid & has required authorizations
- Ensure service "ESR" is active in SICF Tcode
- Ensure database table /ESR/REST_OPR contains service names ⬚ Ensure database table /ESR/BALOG contains application log details
- How to Debug?
  - o Go to class /ESR/CL_REST_HANDLER and insert external breakpoint in method HANDLE_REQUEST
- How to View Application Logs?
  - o Launch transaction SLG1
  - o Select object as "/ESR/SIF" & execute
- ⬚ How to Activate Check Points?
  - o Launch transaction SAAB. Select checkpoint group as "/ESR/EAM"
  - o In change mode, select "Log" for log points & save
  - o Execute API's
  - o Go to tab "Log" to view check point logs