

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





lient 800	Pre	vious logon 03		03.06.2020	03:38:30
User BASIS	Log	ion		04.06.2020	00:15:41
Language EN	tem time			07:09:01	
	e Zone	EST		10:09:01	
Number of Failed Passw	ord Logon Attempts:		2		
			10000		
SAP data					
Repository data		SAP Syst	em data		
Transaction	SESSION_MANA	Product Version		- See De	etails
Program (screen)	SAPLSMTR_NAV	Click		Click here	g
Screen number	100	Installation Number		0090181	748
Program (GUI)	SAPLSMTR_NAV	License expiration 31		31.12.9	999
GUI status	SESSION_ADMIN	Unicode System Yes			
Host data		Databas	e data		
Operating system	Windows NT	Databa	se System	SYBASE	
Machine type	4x X86_64	Release		16.0.0	2.05
Server name	eq1_EQ1_00	Name		EQ1	
Platform ID	562	Host eq1		eq1	
		Owner		SAPSR3	





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

9 [I ·] « 🗄	New GUI Window Ctrl+M Close GUI Window	01000	0 🖳
SAP Easy Access SAP Easy Access Favorites A CTekPro Configuration Panel Mobile Administration Cockpit SAP Menu Financial Services Network Conr Office Cross-Application Components	User Profile Services Utilities List Services for Object My Qbjects Own Spool Requests Own Jobs Short Message	Asogn users	Documentation
Logistics	Status		
Accounting Human Resources	Log Off		
Information Systems Tools WebClient UI Framework			



Client	006	Prev		vious logon 03		03.4	06.2020	03:	38:30
User	BASIS	Logo		ion		04.	06.2020	00:15:41	
Language	lage EN Syst		tem time				07:	09:01	
Tim		e Zone	EST			10:	09:01		
Number of Fai	ed Passwo	rd Logon Atter	mpts:			2			
CAD data									
Repository da	ita			SAP Syste	em data				
Transaction		SESSION MANA		Product V	Version		- See De	tale	
Program (scr	een)	SAPLSHTR	NAV.	HAV_		Click	here		G
Screen numb	er	100		Installation Number		er .	0090181		_
Program (GU	1)	SAPLSHTR	NAV	AV. License expiration			31.12.9	999	
GUI status		SESSION_A	DMIN	Unicode System Yea		Yes			
Host data				Databas	e data				
Operating syst	em	Windows NT	1	Databa	ae Syst	em	SYBASE		1
Machine type		4x X06_64]	Release			16.0.0	2.05	1
Server name		eq1_EQ1_00)	Name			EQ1]
Platform ID		562]	Host			eq1		
				Owner			SAPSR3		

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
 - o 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

Add-On Instal	lation Too	ol - Version 7.40/0070		
9 💷 🔁 🗓				
Installable PCS packag	Add-On I	nstallation Tool: PCS package selection		
PCS	Release	Description	Package type	111
		No Installation Packages are available		



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		
(þ) 🚺		
Filter for Caling ICF Hierarchy		
Hierarchy Type	SERVICE	
Virtual Host		
Service Path		
Service Name	ESR	ð
Reference Service		
Description		
Language	EN English	•

Virtuelle Hosts / S	ervices	Documentatio	P
• I default hos	t		
▼ 19 san	к.	SAP NAMESPA	CE: SAP IS OBLIGED NOT TO DELL
• Sup		BASIS TREE (BASIS FUNCTIONS)
• 🕅 es	r	Solunk REST I	nterface - Base node (Namespace)
	New Sub-Eleme	nt	
	Display Service		
	Delete Service		
	Rename Service	e	
	Activate Service	2	
	Deactivate Serv	/ice	
	Test Service		
	Test Load Bala	ncing	
	References to S	Service	
	Obj. Directory I	Entry	
	Cut		
	Copy		
	<u>P</u> aste		



Change Management

• All development objects of the connector are available in development packages /ESR/SIF and /ESR/EAM as shown below in SE80 Tcode

Package 🗸	
/ESR/SIF_MAIN	× 🔻 &
(V 🕿 . 📇 ★ . 19	
Object Name	Description
/ESR/SIF_MAIN	Splunk Interface - Main Package
 Subpackages 	
/ESR/SIF	GMS Splunk Interface from SAP
Dictionary Objects	
Class Library	
Function Groups	
Transactions	
Message Classes	
/ESR/SIF_EAM	EAM API
Dictionary Objects	
Class Library	
Function Groups	
Message Classes	
Checkpoint Groups	

• Enable "Modify" for namespace /ESR/ in transaction SE03. This will enable to make code changes in the installed software

Transport Organizer Tools	
Transport Organizer Tools	Th
Objects in Requests	
 M Search for Objects in Requests/Tasks 	Fo
 Analyze Objects in Requests/Tasks 	do
• 🍟 Include Objects in a Transport Request	
Dijects	To
• 👮 Modification Browser	
・ 😚 Objects in Customer Namespace	
 Image: Market And Angel Angel	
• 🚱 Display/Change Maintenance Objects	
 Image: Image: Image<!--/i-->Image: Image: Image:	
Object Directory	
 Change Object Directory Entries 	
 Change Object Directory Entries of Objects in a Request 	
 Lange Person Responsible for Objects 	
Requests/Tasks	
Find Requests	
• 🛄 Merge Object Lists	
• 📩 Unlock Objects (Expert Tool)	
Cancel Relocation Transport	
Administration	
 Set System Change Option 	
 Ø Display/Change Namespaces 	
 Ø Display/Change Naming Conventions 	1
 III Global Customizing (Transport Organizer) 	
 Display/Change Request Attributes 	

• 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	<pre>▼ /DSD/</pre>
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	<pre>▼ /FDT/</pre>

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

Add-on/PCS					-
	Release	Level	Description	Import	c
AIF	702	0000	SAP APPLICATION INTERFACE FRAMEWORK		-
AIFX	702	0000	APPLICATION INTERFACE FRAMEWORK EXT.		
AIN	400	0006	AIN 400 : Add-On Supplement		
AOFTOOLS	500_740	0000	Add-On Assembly Kit		
ARBERPI1	600	0006	Integration Component: Ariba Integration		
ARBFNDI1	100	0006	Integration Component: Foundation for Ar		
ARBFND12	100	0004	ARBFNDI2		
BSNAGT	200	0001	BSN AGENT		÷
			4 F	4 1	
Status/Remarks			() <u> </u>		



1					
Installed Compo	Add-On Install	ation To	ol : Uninst	allable Add-Ons	
installed compo	nents Uninstali	sole comp	onencs		
	Stack XM	IL file			
Add-On	Release	Level	Note	Description	
OFTOOLS	500_740	0000	2179441	Add-On Assembly Kit	9
MT	100	0000	1883223	Enstrapp Mobile Applications	
					-
			< >		4 1
1					
is/Remarks					
The overview s	shows the Add-On	s which ca	in be uninstall	ed	
Mark the Add-O	ns, which you wan	t to unins	tall or choose	and upload a Stack XML	
Choose [START]] to start the unin:	stallation			
	-		-		
			-		

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?
 - Go to class /ESR/CL_REST_HANDLER and insert external breakpoint in method HANDLE_REQUEST
- How to View Application Logs?
 - o Launch transaction SLG1
 - Select object as "/ESR/SIF" & execute
- Plow to Activate Check Points?
 - o Launch transaction SAAB. Select checkpoint group as "/ESR/EAM"
 - In change mode, select "Log" for log points & save
 - o Execute API's
 - Go to tab "Log" to view check point logs