



SAS Life Science Analytics Framework Macro API 2.1

Installation Qualification / Operational Qualification Checklist

Install LSAF SAS Macro API 2.1

Version 1.00
Date April 2019

Checklist A: “Install LSAF SAS Macros”

Note: This checklist assumes you have completed an installation of LSAF Java API 2.1.

Prerequisites: You will need to set the following property in the **lsaf.properties** configuration file on any tcServer instance that is running:

sasession.enable.trusted.connections=true

Checklist A: “Install LSAF SAS Macros”		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A1.	Login to an admin PC.	Windows display appears.	
A2.	Using the putty tool, create an ssh connection from the admin PC to the SAS server and login as sasadmin .	You’re prompted for the password.	
A3.	Enter the <i>password</i> for sasadmin.	You’re logged into SAS server.	
A4.	Use the script command to capture commands that are typed in the Unix window. The syntax is script /var/staging_logs/<servername>_lsafmacro2.1_<date>.txt	System should indicate script has started.	
A5.	From the admin PC, download the LSAF Java API 2.1 Client distribution from the SAS Technical Support site. After the distribution has been downloaded, use the WinSCP2 tool to copy the file to /sso/sfw/installers on the SAS server. Transfer it as a binary file using the sasadmin userid. lsaf-java-api-client-2.1.zip	The file is transferred to the SAS server.	

Checklist A: "Install LSAF SAS Macros"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A6.	From the admin PC, download the LSAF Macro 2.1 distribution from the SAS Technical Support site. After the distribution has been downloaded, use the WinSCP2 tool to copy the file to /sso/sfw/installers on the SAS server. Transfer it as a binary file using the sasadmin userid. lsaf-sas-macro-2.1.zip	The file is transferred to the SAS server.	
A7.	Stop the Object Spawner by typing /sso/biconfig/940/Lev1/ObjectSpawner/ObjectSpawner.sh stop	The Object Spawner is stopped.	
A8.	Type ps -ef grep sasadmin	The following process should not be running: /bin/sh -p /sso/biconfig/940/Lev1/ObjectSpawner/ObjectSpawner.sh start2_tag	
A9.	Type cd /sso/sfw/sas/940/SASFoundation/9.4	Navigate to that directory.	
A10.	Type mkdir lsafapi	Directory is created.	
A11.	Type cd lsafapi	Navigate to that directory.	
A12.	Type unzip -q /sso/sfw/installers/lsaf-java-api-client-2.1.zip	Contents of zip file are extracted.	
A13.	Type unzip -q /sso/sfw/installers/lsaf-sas-macro-2.1.zip	Contents of zip file are extracted.	
A14.	Type touch lsaf_macros.log	The file is created.	
A15.	Type chmod 777 lsaf_macros.log	Permissions are updated.	
A16.	Type ls -al	You see the following directories created: lsaf-java-api-client-2.1 lsaf_macros.log lsaf-sas-macro-2.1	
A17.	Type cd /sso/biconfig/940/Lev1/LSAFApp/WorkspaceServer	Navigate to that directory.	
A18.	Type vi sasv9_usermods.cfg	File is opened for edit.	

Checklist A: "Install LSAF SAS Macros"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A19.	<p>After the comment block, add the following lines:</p> <pre>-insert sasautos "/sso/sfw/sas/940/SASFoundation/9.4/lsafapi/lsaf- sas-macro-2.1/sasmacros" -JREOPTIONS (- Dsas.app.class.dirs=/sso/sfw/sas/940/SASFoundati on/9.4/lsafapi/lsaf-java-api-client- 2.1/lib:/sso/sfw/sas/940/SASFoundation/9.4/lsafapi /lsaf-sas-macro-2.1/lib - Dsession.strategy.classname=com.sas.lsaf.client.i mpl.TrustedContextSessionStrategyImpl -Dsas.lsaf.macros.trusted=true - Dlog4j.configuration=file:/sso/sfw/sas/940/SASFo undation/9.4/lsafapi/lsaf-sas-macro- 2.1/conf/linux/log4j.properties) /* this prevents a classpath not set warning from javaobj */ -SET CLASSPATH !CLASSPATH</pre> <p><i>Note:</i> Copy and paste this text from the sasv9_usermods.txt file in our staging area.</p>	File is modified.	
A20.	<p>Hit Esc and type :x to save the file.</p> <p><i>Note:</i> The log4j.properties file is configurable and should be modified to point to the correct path to the lsaf_macros.log file.</p>	File is saved with changes made.	
A21.	Type more sasv9_usermods.cfg	Verify that changes have been saved.	
A22.	Start the Object Spawner by typing /sso/biconfig/940/Lev1/ObjectSpawner/ObjectSpawner.sh start	Object Spawner is started and system displays: Spawner is started (pid <i>nnnnn</i>)...	

Checklist A: "Install LSAF SAS Macros"		Corresponding Document: <i>None</i>	
#	Activity	Expected Results	Actual Results
A23.	Type ps -ef grep sasadmin	The following process should be running: /bin/sh -p /sso/biconfig/940/Lev1/ObjectSpawner/ObjectSpawner.sh start2_tag	
A24.	Hit Ctrl-D to stop the script command.	System indicates script stopped running.	
A25.	Type exit	The sasadmin userid is logged off the SAS server.	
A26.	Repeat steps A1 – A25 to deploy the LSAF SAS Macros to any additional SAS processing servers.	Steps repeated as necessary.	

Signature below indicates completion of Checklist A, items A1 – A26, above.

Name (print or type): _____ **Sign-off :** _____ **Date:** _____