

*SAS® Life Science Analytics Framework SAS Macro API 2.5
Release Notes
June 2021*

The SAS® Life Science Analytics Framework Macro API 2.5 is available for use with SAS® Life Science Analytics Framework Java API 2.5.

The tables below summarize the enhancements for this release.

Change Type	Description	Count
Added	New macro added in this release.	56
Updated	Macro name, input parameters, and/or returned results changed.	25
Deprecated	Replaced by new functionality. Marked for removal in future release.	5
Removed	Macro no longer available in this release.	1

Functional Area	Description
General	<p>Macro documentation: The documentation for the macros has been removed from the SAS® Macros installation file and is now available on the SAS® Help Center.</p> <p>Operational issue: Delays have been noticed when changing the status of a process flow or process flow task. This may cause issues with the runs of subsequent macros that rely the state of a process flow or task. It is recommended that a sleep routine be added to your programs if this issue is encountered.</p>
Audit	<p>Updated:</p> <ul style="list-style-type: none"> lsaf_getauditactions – Extended length of variable displayName
Authentication	<p>Updated:</p> <ul style="list-style-type: none"> lsaf_logout – Forced session logout to prevent session timeout.
Autoflow	<p>The new AutoFlowService provides the macro to automatically create process flows from an auto flow source object such as a TLF. As of SAS® Life Science Analytics Framework 5.3, TLF is the only item from which process flows can be automatically created.</p> <ul style="list-style-type: none"> lsaf_createautoflow

Functional Area	Description
JobManifest	<p>Updated all macros in this service to:</p> <ul style="list-style-type: none"> include a source location parameter to allow access to job manifests in both the workspace and repository. Standardized data sets to contain jobManifestLocation, jobManifestPath, jobManifestVersion variable. This involved variable renames in some of the data sets. <p>Additional Update:</p> <ul style="list-style-type: none"> lsaf_getjobmanifestinfo – Added variables recordType and recordSortOrder and changed default sort order of output data set.
ProcessDefinition	<p>Added new macro:</p> <ul style="list-style-type: none"> lsaf_getprocessdefelements <p>Updated:</p> <ul style="list-style-type: none"> lsaf_getallprocessdefinitions – Extended length and description of context variable. lsaf_getprocessdefsbytype - Extended length and description of context variable.
ProcessDefinition Mapping	<p>The new ProcessDefinitionAutoflowService provides macros to support mapping process definition element attributes with TLF attributes in order to automatically create a process flow from a TLF. As of SAS® Life Science Analytics Framework 5.3, TLF is the only item from which process flows can be automatically created.</p> <ul style="list-style-type: none"> lsaf_cleardefelementmappings lsaf_cleardefinitionmappings lsaf_defautoflowenabled lsaf_defmappingiscomplete lsaf_getdefinitionmappings lsaf_getdefsmappedforautoflow lsaf_setdefautoflowenabled lsaf_updatedefinitionmappings
ProcessFlow	<p>Added:</p> <ul style="list-style-type: none"> lsaf_getprocessflowsbyquery <p>Updated:</p> <ul style="list-style-type: none"> lsaf_getprocessflowsbyquery – added processFlowId to output data set. lsaf_getmyprocessflows – added processFlowId to output data set. lsaf_getprocessflowdata – Updated data of type DATE to be returned in DATETIME20. format. lsaf_getprocessflowproperties – added autoflowSource and autoflowType to output data set. <p>Deprecated in 2.5; Marked for removal in future release.</p> <ul style="list-style-type: none"> lsaf_getprocessflows - Replaced by lsaf_getprocessflowsbyquery lsaf_getmyprocessflows - Replaced by lsaf_getprocessflowsbyquery
ProcessFlowTask Service	<p>Added:</p> <ul style="list-style-type: none"> lsaf_assignpfusertask lsaf_claimpfusertask lsaf_clearpfusertaskcandidates

Functional Area	Description
	<ul style="list-style-type: none"> • lsaf_completeusertask • saf_getpftasksbyquery • lsaf_getpfusertaskcandidates • lsaf_getpfusertaskcompletiondata • lsaf_getpfusertaskhistory • lsaf_getpfusertaskproperties • lsaf_getpfusertaskstatus • lsaf_setpfusertaskcompletiondata • lsaf_startpfusertask • lsaf_updatepfusertaskcandidates • lsaf_updatepfusertaskproperties <p>Updated:</p> <ul style="list-style-type: none"> • lsaf_getcompleteddetails: Added variables taskId, elementCreatedSasFormat, elementCompletedSasFormat, and recordTypeSortOrder and changed default sort order of the output data set.
Query	<p>Updated:</p> <ul style="list-style-type: none"> • lsaf_querycontextmembership – allow lsaf_querydatasetquery parameter to be optional • lsaf_querydistcontextmembership – allow lsaf_querydatasetquery parameter to be optional
Repository	<p>Added:</p> <ul style="list-style-type: none"> • lsaf_deleteversion <p>Updated:</p> <ul style="list-style-type: none"> • lsaf_checkin – added parameter to allow versioning of new files.
Resource Utilization	<p>The new ResourceUtilizationService provides macros to report the utilization information for the repository, workspace, and transient workspace.</p> <ul style="list-style-type: none"> • lsaf_getadminreputilization • lsaf_getadmintransutilization • lsaf_getadminwsutilization • lsaf_getresourceutilization • lsaf_getuserreputilization • lsaf_getusertransutilization • lsaf_getusersrwsutilization
Schedule	<p>Updated:</p> <ul style="list-style-type: none"> • lsaf_getallschedules – fixed label for owner variable • lsaf_getmyschedules – fixed label for owner variable
Session	<p>Deprecated in 2.4; Marked for removal in future release.</p> <ul style="list-style-type: none"> • lsaf_getmysessions – replaced by lsaf_getsessionsbyquery • lsaf_getsessions – replaced by lsaf_getsessionsbyquery • lsaf_getusersessions – replaced by lsaf_getsessionsbyquery

Functional Area	Description
	<p>Updated:</p> <ul style="list-style-type: none"> • lsaf_getsessionsbyquery - Added limitReached value to log, fixed label for variable clientId.
StudyTlf	<p>The new StudyTlfService provides macros to manage the tables, figures, and listings (TLFs) in a study.</p> <ul style="list-style-type: none"> • lsaf_deletestudytlf • lsaf_getstudytlfstilesandfooters • lsaf_getstudytlfanalysisresults • lsaf_getstudytlfid • lsaf_getstudytlfproperties • lsaf_getstudytlfresultdatasets • lsaf_getstudytlfsections • lsaf_getstudytlfinfo • lsaf_studytlfautoflowenabled • lsaf_studytlfexists • lsaf_updatestudytlfstilesfooters • lsaf_updatestudytlfproperties • lsaf_updatestudytlfproperty <p>Note:</p> <p>The result identifier field for an analysis result is unique within a TLF, so it is possible to have multiple results with the same result identifier within a study that has multiple TLFs. Therefore, please be aware that the data set returned from the lsaf_getstudytlfresultdatasets macro may contain analysis data sets for more than one TLF result. This will be addressed in a future release.</p>
TlfTemplate	<p>The new TlfTemplate service provides macros to manage the global TLF templates.</p> <ul style="list-style-type: none"> • lsaf_createglobaltlftemplate • lsaf_exportglobaltlfs • lsaf_exportglobaltlfstoworkspace • lsaf_getglobaltlftemplates • lsaf_gettlftemplateid • lsaf_importglobaltlfs
User	<p>Removed deprecated macro:</p> <ul style="list-style-type: none"> • lsaf_updateuserinfo – replaced by lsaf_updateuserproperties introduced in SAS Macros API 2.3. <p>Updated:</p> <ul style="list-style-type: none"> • lsaf_userexists – added value of _lsafUserExists_ macro variable to the log.
Workspace	<p>Added:</p> <ul style="list-style-type: none"> • lsaf_copyworkspaceitem • lsaf_moveworkspaceitem • lsaf_renameworkspaceitem • lsaf_createworkspacefile

