

**SAS® Life Science Analytics Framework SAS Macro API 1.5  
Release Notes  
February 15, 2017**

With the 1.5 release, the SAS® Drug Development Macro API has been rebranded as the SAS® Life Science Analytics Framework Macro API. SAS macros available in release 1.4.1 will continue to run using the same calls and signatures. With the exception of deprecated macros, all previously released macros have been updated to the new product. The SAS® Life Science Analytics Framework Macro API release 1.5 is available for use with SAS® Life Science Analytics Framework Java API release 1.8.1.

The table below describes changes to the SAS® Life Science Analytics Framework Macro API in release 1.5.

Reference #	Title	Description	Status
US9161	Rebrand all SASDRUGDEV_ macros	All SASDRUGDEV_ macros not marked for deprecation have corresponding LSAF_ macros. The original SASDRUGDEV_ versions of those macros are supported in this release.	Changed
US7735	Remove sasdrugdev_getsddAPIversion - deprecated in 1.4.	This macro has been deprecated	Deprecated
US9193	LSAF_ENCRYPTPASSWORD	Encrypts the password for a user in the SAS Life Science Analytics Framework.	New
US9277	LSAF_GETALLUSERS	Account license type information added to metadata returned in the data set.	Updated
US9278	LSAF_GETABSOLUTEPATH	Returns an absolute path for a file relative to the given base path.	New
US9276	LSAF_GETRELATIVEPATH	Returns a relative path for a file relative to the given base path.	New
US9209	LSAF_GETSUBMISSIONSTATUS	The documentation was updated to include references to workspace job submissions.	Updated
US9160	LSAF_GETPROCESSDEFSEBYTYPE	Returns a SAS data set that contains the metadata for all of the process flow definitions available at the specified context type.	New
US9153	LSAF_GETPROCESSFLOWS	Returns a SAS data set that contains the metadata for all the process flows defined at, and optionally the child contexts of, the specified organization, project, or analysis.	New
US9182	LSAF_GETMYPROCESSFLOWS	Returns a SAS data set that contains the metadata for the process flows defined by the logged in user at, and optionally the child contexts of, the specified organization, project, or analysis.	New
US9152	LSAF_CREATEPROCESSFLOW	Creates a process flow in the SAS Life Science Analytics Framework repository.	New

Reference #	Title	Description	Status
US9154	LSAF_PROCESSFLOWEXISTS	Determines whether a process flow is defined for the specified context.	New
US9224	LSAF_DELETEPROCESSFLOW	Deletes a process flow and, optionally, creates manifest file in the SAS Life Science Analytics Framework repository.	New
US9311	LSAF_CREATEPROCESSFLOWMANIFEST	Creates a process flow manifest file in the SAS Life Science Analytics Framework repository.	New
US9341	LSAF_GETPROCESSFLOWPROPERTIES	Returns a SAS data set that contains the properties for the specified process flow within the specified organization, project, or analysis.	New
US9223	LSAF_UPDATEPROCESSFLOWPROPERTIES	Updates a process flow in the SAS Life Science Analytics Framework repository.	New
US9335	LSAF_GETPROCESSFLOWDATA	Returns a SAS data set that contains the metadata for the process data for the specified process flow within the specified organization, project, or analysis.	New
US9365	LSAF_UPDATEPROCESSFLOWDATA	Updates the metadata for the process flow data for the specified process flow in the SAS Life Science Analytics Framework repository.	New
US9342	LSAF_GETPROCESSFLOWELEMENTS	Returns a SAS data set that contains the metadata for the flow setup elements for the specified process flow within the specified organization, project, or analysis.	New
US9351	LSAF_GETPFJOBELEMENTINFO	Returns a SAS data set that contains the properties for the job setup elements for the process flow within the specified organization, project, or analysis.	New
US9352	LSAF_UPDATEPFJOBELEMENTINFO	Updates the properties for process flow job elements using a data set as input.	New
US9353	LSAF_GETPFJOBPARAMETERS	Returns a SAS data set that contains the override parameters for the job setup elements for the process flow within the specified organization, project, or analysis.	New
US9354	LSAF_UPDATEPFJOBPARAMETERS	Updates the job parameter overrides for process flow job elements using a data set as input.	New
US9347	LSAF_GETPFNOTIFICATIONINFO	Returns a SAS data set that contains the properties for the notification setup elements for the process flow within the specified organization, project, or analysis.	New
US9348	LSAF_UPDATEPFNOTIFICATIONINFO	Updates the properties for process flow notification elements using a data set as input.	New
US9349	LSAF_GETPFNOTIFICATIONRECIPIENTS	Returns a SAS data set that contains the recipients for notification setup elements for the process flow within the specified organization, project, or analysis.	New
US9350	LSAF_UPDATEPFNOTIFRECIPIENTS	Updates the recipients for process flow notification elements using a data set as input.	New

Reference #	Title	Description	Status
US9357	LSAF_GETPFSIGNALLOCATION S	Returns a SAS data set that contains the locations for the signal setup elements for the process flow within the specified organization, project, or analysis.	New
US9358	LSAF_UPDATEPFSIGNALLOCATIONS	Updates the locations for process flow repositoryFilePut signal elements using a data set as input.	New
US9356	LSAF_UPDATEPFTIMERELEMENTS	Updates the values of process flow timer elements using a data set as input.	New
US9355	LSAF_GETPFTIMERELEMENTS	Returns a SAS data set that contains the data for the timer setup elements for the process flow within the specified organization, project, or analysis.	New
US9346	LSAF_UPDATEPFUSERCANDIDATES	Updates the candidates for process flow user task elements using a data set as input.	New
US9345	LSAF_GETPFUSERCANDIDATES	Returns a SAS data set that contains the candidates for user setup elements for the process flow within the specified organization, project, or analysis.	New
US9344	LSAF_UPDATEPFUSERELEMENT INFO	Updates the properties for process flow user elements using a data set as input.	New
US9343	LSAF_GETPFUSERELEMENTINFO	Returns a SAS data set that contains the properties for the user setup elements for the process flow within the specified organization, project, or analysis.	New
US9227	LSAF_CHECKIN	Checks in a SAS Life Science Analytics Framework repository file.	New
US9228	LSAF_CHECKOUT	Checks a file out of the SAS Life Science Analytics Framework repository.	New
US9229	LSAF_ISCHECKEDOUT	Determines whether a SAS Life Science Analytics Framework repository file has been checked out.	New
US9230	LSAF_GETCHECKEDOUTFILES	Returns a SAS data set containing the checked out file information for the specified user, file, and/or location within the SAS® Life Science Analytics Framework repository.	New
US9312	LSAF_MARKFORADDANDCHECKIN	Marks for add and checks in a workspace file to the SAS® Life Science Analytics Framework repository.	New
US9280	LSAF_GETCOPYTOWORKSPACE STATUS	Returns the value for the Copy to Workspace status of a file or folder in the SAS Life Science Analytics Framework repository.	New
US9284	LSAF_UPDATECOPYTOWORKSPACE STATUS	Updates the value for the Copy To Workspace status of a file or folder in the SAS Life Science Analytics Framework repository.	New
US9275	LSAF_GETSYNCINFO	Returns a SAS data set containing synchronization information for the specified file in the SAS Life Science Analytics Framework repository.	New

Reference #	Title	Description	Status
US9155	LSAF_HASCONTEXTPRIVILEGE	Determines whether a user or group has a specific role privilege in the specified organization, project, or analysis.	New
US9222	LSAF_GETRBITEMSBYQUERY	Returns a SAS data set that contains the metadata for the items in the SAS Life Science Analytics Framework recycle bin that match the given search criteria.	New
US9159	Update LSAF_GETPROPERTIES to allow user to specify a version of a file.	Added lsaf_version parameter to SASDRUGDEV_GETPROPERTIES and LSAF_GETPROPERTIES to allow version specific extraction of properties information.	Updated
US9285	Update LSAF_ISGROUPMEMBER to search groups within groups.	Added parameter lsaf_includeImplicit to optionally include implied members.	Updated
US9266	LSAF_GETWORKSPACECHILDREN	Returns a SAS data set that contains the metadata for objects within a folder in the SAS Life Science Analytics Framework workspace.	New
US5750 DE4174	Expose SASDRUGDEV_DISABLEVERSIONING LSAF_DISABLEVERSIONING	Issue with comments not being displayed in the audit trail when disabling versioning through the API has been addressed. Macros can be released.	New/Fixed
US5749 DE4173	Expose SASDRUGDEV_ENABLEVERSIONING LSAF_ENABLEVERSIONING	Issue with comments not being displayed in the audit trail when enabling versioning through the API has been addressed. Macros can be released.	New/Fixed
US9245	LSAF_CREATEWORKSPACEFOLDER	Creates a folder in the SAS Life Science Analytics Framework workspace.	New
US7535	LSAF_CREATEWORKSPACEJOB	Creates a job in the SAS Life Science Analytics Framework workspace.	New
US9206	LSAF_WORKSPACEOBJECTEXISTS	Determines whether a SAS Life Science Analytics Framework workspace object exists.	New
US9214	LSAF_GETWORKSPACEJOBINFO	Returns a SAS data set that contains the information for a job in the SAS Life Science Analytics Framework workspace.	New
US9210	LSAF_GETWORKSPACEJOBINPUTS	Returns a SAS data set containing metadata for the inputs for the specified job in the SAS Life Science Analytics Framework workspace.	New
US9212	LSAF_GETWORKSPACEJOBOUTPUTS	Returns a SAS data set containing metadata for the outputs for the specified job in the SAS Life Science Analytics Framework workspace.	New
US9213	LSAF_GETWORKSPACEJOBPARAMETERS	Returns a SAS data set containing job parameter metadata for the specified job in the SAS Life Science Analytics Framework workspace.	New
US9211	LSAF_GETWORKSPACEJOBTASKS	Returns a SAS data set containing metadata for the tasks for the specified job in the SAS Life Science Analytics Framework workspace.	New
US7536	LSAF_UPDATEWORKSPACEJOB	Updates an existing job file in the SAS Life Science Analytics Framework workspace.	New
US9208	LSAF_SUBMITWORKSPACEJOB	Submits a SAS Life Science Analytics Framework workspace job for immediate execution.	New

Reference #	Title	Description	Status
US9207	LSAF_SUBMITANDPOPULATEW SJOB	Submits a SAS Life Science Analytics Framework workspace job for immediate execution and updates the input and output specifications in the job file.	New

## Defects

Reference #	Title	Description	Status
DE7390	UPDATEACLS: Processing does not stop after first failure.	The documentation states that the processing will stop with the first failure. The macro is not doing that. This could cause the value of <code>_lsafRC_</code> or <code>_sddRC_</code> to be inaccurate.	Fixed
DE7250	GetJobInfo, inputs, tasks, parameters, outputs: Actual job version and path should display in the data sets.	Currently the macros set the job path and job version in the data set to whatever value the user sent in. That means: (1) There is no real "proof" that the job name or job version is the data from the actual job that was retrieved, (2) The version is blank if the user sent in blank. Blank means get the latest version, but there's no record in the data set of what version was actually retrieved.	Fixed
DE7241	Documentation of return values of -1	For the macros (both <code>sasdrugdev_</code> and <code>lsaf_</code> ) <code>assignedroleexists</code> , <code>objectexists</code> , <code>processflowexists</code> , <code>roleexists</code> , <code>userexists</code> , <code>groupexists</code> , <code>isroleprivilege</code> , <code>isrolemember</code> , <code>ischeckedout</code> , <code>isversioned</code> , <code>isuserprivilege</code> , <code>ismember</code> , <code>isgroupmember</code> , <code>iscontainer</code> , <code>hascontextprivilege</code> , and <code>workspaceobjectexists</code> update documentation stating that in the event of an error, the return value of <code>_lsaf&lt;macro name&gt;_</code> or <code>_sdd&lt;macro name&gt;_</code> will be set to -1.	Updated
DE7213	LSAF_UPDATEOWNER: Return message for owner if owner already owns an object	When a user attempts to update the owner to the owner who already owns the object, there should be a message indicating that the owner has not changed since that user already owned the object.	Fixed
DE7210	LSAF_GETGROUPS: Update documentation associated with <code>sas_dsname</code>	Change the documentation wording from "The data set will be sorted by group name and contain a row for each <b>group</b> . The data set will contain columns with the following names ". The word ' <b>member</b> ' is confusing in this description since it implies that there will be a row for each user or group within the group.	Fixed
DE7209	LSAF_GETSUBMISSIONSTATUS: Update documentation for status values	Updated documentation to include all expected status values as well as references to additional error handling.	Updated

Reference #	Title	Description	Status
DE7208	LSAF_REMOVEUSERPRIVILEGE: Update documentation to refer to correct macro for syntax	The documentation currently references the lsaf_roleexists macro syntax. Please update to show the syntax corresponding to lsaf_removeuserprivilege.	Fixed
DE7207	LSAF_UPDATEPROJECTSTATE and LSAF_UPDATEANALYSISSTATE: Return message should indicate the updated state of the project	Update the return message to indicate what state the project has been updated to.	Updated
DE7206	LSAF_UPDATEPROPERTIES: Documentation of editable fields	Update documentation to help determine editable properties.	Fixed
DE7204	LSAF_CREATEFOLDER: Update documentation to clarify where a folder can be created	Update the documentation to inform users they can only create a folder under \Files or an existing folder, not directly under the org, project, or analysis.	Updated
DE7203	LSAF_CREATEFILE: Update documentation to clarify to users where files can be created	Update the documentation to inform users they can only create a file under \Files or an existing folder, not directly under the org, project, or analysis.	Updated
DE7202	LSAF_ISROLEPRIVILEGE: Documentation for inherited roles	Clarify in the documentation that this macro only works for defined roles and not for inherited roles.	Updated
DE7200	LSAF_ASSIGNEDROLEEXISTS, LSAF_ASSIGNROLE, LSAF_UNASSIGNROLE, LSAF_ISROLEMEMBER: Update error message to clarify lsaf_role_context and lsaf_role	Update error message to handle clarification between the lsaf_role_context and lsaf_role. It is difficult for a new user to see where the role context ends and the role begins.	Updated
DE7199	LSAF_ADDROLEPRIVILEGE: Update documentation for case of privilege	Documentation should mention that the privilege is case-sensitive, or the macro should handle cases where the user does not enter the privilege in all caps. Updated the macro to handle case-insensitive privilege ids.	Updated
DE5619	Macro doc is incorrect for sasdrugdev_getChildren and lsaf_getChildren.	Updated documentation to correctly reflect the default data set name.	Updated
DE4602	Macro doc is incorrect for sasdrugdev_submitjob and lsaf_submitjob	Updated documentation from _sddJobSubmissionStatus_ to _sddJobSubmissionId_ in sasdrugdev_submitjob and to _lsafJobSubmissionId_ in lsaf_submitjob.	Updated