http://sww.sas.com/sasbrand/images/SAS_TPTK/Horizontal/for_White-Light_background/S285_sas100K_TPTK40K_horiz.png

***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.](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/18433277436) | This macro has been deprecated | Deprecated |
| US9193 | [LSAF\_ENCRYPTPASSWORD](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921) | 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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)RELATIVEPATH | 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\_GETPROCESSDEFSBYTYPE](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921) | 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](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921) | 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](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921) | 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 |
| US9154 | [LSAF\_PROCESSFLOWEXISTS](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921) | Determines whether a process flow is defined for the specified context. | New |
| US9224 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)DELETEPROCESSFLOW | Deletes a process flow and, optionally, creates manifest file in the SAS Life Science Analytics Framework repository. | New |
| US9311 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)CREATEPROCESSFLOWMANIFEST | Creates a process flow manifest file in the SAS Life Science Analytics Framework repository. | New |
| US9341 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PROCESSFLOWPROPERTIES | 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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PROCESSFLOWDATA | 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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PROCESSFLOWELEMENTS | 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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PFJOBELEMENTINFO | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFJOBELEMENTINFO | Updates the properties for process flow job elements using a data set as input. | New |
| US9353 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PFJOBPARAMETERS | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFJOBPARAMETERS | Updates the job parameter overrides for process flow job elements using a data set as input. | New |
| US9347 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PFNOTIFICATIONINFO | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFNOTIFICATIONINFO | Updates the properties for process flow notification elements using a data set as input. | New |
| US9349 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PFNOTIFICATIONRECIPIENTS | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFNOTIFRECIPIENTS | Updates the recipients for process flow notification elements using a data set as input. | New |
| US9357 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PFSIGNALLOCATIONS | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFSIGNALLOCATIONS | Updates the locations for process flow repositoryFilePut signal elements using a data set as input. | New |
| US9356 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFTIMERELEMENTS | Updates the values of process flow timer elements using a data set as input. | New |
| US9355 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PFTIMERELEMENTS | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFUSERCANDIDATES | Updates the candidates for process flow user task elements using a data set as input. | New |
| US9345 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)PFUSERCANDIDATES | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEPFUSERELEMENTINFO | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)CHECKIN | Checks in a SAS Life Science Analytics Framework repository file. | New |
| US9228 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)CHECKOUT | Checks a file out of the SAS Life Science Analytics Framework repository. | New |
| US9229 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)ISCHECKEDOUT | Determines whether a SAS Life Science Analytics Framework repository file has been checked out. | New |
| US9230 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)CHECKEDOUTFILES | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)MARKFORADDANDCHECKIN | Marks for add and checks in a workspace file to the SAS® Life Science Analytics Framework repository. | New |
| US9280 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)COPYTOWORKSPACESTATUS | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATECOPYTOWORKSPACESTATUS | 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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)SYNCINFO | Returns a SAS data set containing synchronization information for the specified file in the SAS Life Science Analytics Framework repository. | New |
| US9155 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)WORKSPACECHILDREN | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)CREATEWORKSPACEFOLDER | Creates a folder in the SAS Life Science Analytics Framework workspace. | New |
| US7535 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)CREATEWORKSPACEJOB | Creates a job in the SAS Life Science Analytics Framework workspace. | New |
| US9206 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)WORKSPACEOBJECTEXISTS | Determines whether a SAS Life Science Analytics Framework workspace object exists. | New |
| US9214 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)WORKSPACEJOBINFO | Returns a SAS data set that contains the information for a job in the SAS Life Science Analytics Framework workspace. | New |
| US9210 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)WORKSPACEJOBINPUTS | 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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)WORKSPACEJOBOUTPUTS | 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\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)WORKSPACEJOBPARAMETERS | Returns a SAS data set containing job parameter metadata for the specified job in the SAS Life Science Analytics Framework workspace. | New |
| US9211 | [LSAF\_GET](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)WORKSPACEJOBTASKS | 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\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)UPDATEWORKSPACEJOB | Updates an existing job file in the SAS Life Science Analytics Framework workspace. | New |
| US9208 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)SUBMITWORKSPACEJOB | Submits a SAS Life Science Analytics Framework workspace job for immediate execution. | New |
| US9207 | [LSAF\_](https://rally1.rallydev.com/#/9060599533ud/detail/userstory/61000142921)SUBMITANDPOPULATEWSJOB | 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 \_lsafRC\_ or \_sddRC\_ 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 sasdrugdev\_ and lsaf\_) assignedroleexists, objectexists, processflowexists, roleexists, userexists, groupexists, isroleprivilege, isrolemember, ischeckedout,  isversioned, isuserprivilege, ismember, isgroupmember, iscontainer, hascontextprivilege, and workspaceobjectexists update documentation stating that in the event of an error, the return value of \_lsaf<macro name>\_ or \_sdd<macro name>\_ 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 sas\_dsname | Change the documentation wording from to "The data set will be sorted by group name and contain a row for each **group**.  The data set will contain columns with the following names ". The word '**member**' 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 |
| 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 |