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 2.4***

***Release Notes***

***December 2020***

The SAS® Life Science Analytics Framework Macro API 2.4 is available for use with SAS® Life Science Analytics Framework Java API 2.4.

The table below summarizes the enhancements for this release. For a detailed list of added and modified macros, see the SAS® Life Science Analytics Framework Macros 2.4 Changes spreadsheet.

| **Functional Area** | **Description** |
| --- | --- |
| General | * Work was done to remove redundant validation of parameters pertaining to creating and updating files written to the SAS® Life Science Analytics Framework by the macros. This affected all macros that create or update files in the repository and may cause changes in default behavior when optional parameters are omitted. * Documentation concerning the allowable date formats has been updated to accurately reflect SAS format DATETIME20. |
| AclService | Updated macro:   * lsaf\_getacls: Updated recursion strategy to allow any valid integer between 0 and 99, inclusively. |
| BatchRepository  Service | Updated macros:   * lsaf\_uploadandexpand: Added handling of custom version. |
| JobService | Updated macros:   * lsaf\_createworkspacejob   + Renamed data set input parameters   + Added optional parameter useRelativePaths.   + Updated to accommodate changes to data sets used as input parameters. * lsaf\_getjobinfo and lsaf\_getworkspacejobinfo: Renamed properties in resulting data set:   + logPath => logsLocation   + lstPath => resultsLocation   + manifestPath => manifestLocation * lsaf\_updateworkspacejob:   + Renamed data set input parameters.   + Updated to accommodate changes to data sets used as input parameters.   Renamed macros:   * lsaf\_getjoboutputs => lsaf\_getjobcheckinlocations * lsaf\_getjobinputs => lsaf\_getjobsetup * lsaf\_getworkspacejobinputs => lsaf\_getworkspacejobsetup * lsaf\_getworkspacejoboutputs => lsaf\_getworkspacejobcheckinlocs |
| JobManifest  Service | New service to retrieve information from a repository job manifest file.  Macros moved from JobSubmissionService:   * lsaf\_getjobmanifestinfo   + Renamed values in resulting data set:  manifestPath => manifestLocation   + Removed values from resulting data set: logPath & lstPath. * lsaf\_getjobmanifestinputs. Added external inputs. * lsaf\_getjobmanifestmetrics * lsaf\_getjobmanifestoutputs. Added external outputs. * lsaf\_getjobmanifestparameters * lsaf\_getjobmanifestprograms   Added macros:   * lsaf\_getjobmanifestloglocs * lsaf\_getjobmanifestresultlocs |
| JobSubmission  Service | Updated macros:   * lsaf\_getjobpublishhistory: Added variables to resulting data set variables: jobId & jobOwner * lsaf\_getsubmissionstatus: Documentation update to report new status values.   Added macro:   * lsaf\_getjobsubmissionbysessionid |
| ProcessFlow  Service | Added macro:   * lsaf\_copyprocessflow |
| ProcessFlowSetup  Service | Updated macro:   * lsaf\_getpfsetupsignallocs: Variable signalName added to resulting data set. |
| ProcessFlowTask  Service | Added macro:   * lsaf\_getpfcompleteddetails |
| QueryService | Return code -200 was introduced to indicate that the validation of the input data set failed.  Updated to handle new -200 return code.   * lsaf\_queryauditdetails * lsaf\_queryauditentries   Updated to accommodate new query types   * lsaf\_getquerycolumns   Added macros:   * lsaf\_queryContainer * lsaf\_queryContextMembership * lsaf\_queryDistContextMembership * lsaf\_queryFile * lsaf\_queryFileVersion * lsaf\_queryItem * lsaf\_queryRecycleBinContainer * lsaf\_queryRecycleBinFile * lsaf\_queryRecycleBinFileVersion * lsaf\_queryRecycleBinItem |
| RepositoryService | Updated macros:   * lsaf\_getchildren   + Updated recursion strategy to allow any valid integer between 0 and 99, inclusively.   + Added variables to resulting data set: fileSize and formattedFileSize.   + Suppressed folder size. * lsaf\_getproperties: Added values to returned data set.   + For files: MD5 digest, major & minor version limits   + For containers: major & minor default version limits   Added macros:   * lsaf\_getsyncinfo * lsaf\_updateversionlimits |
| SessionService | Deprecated for removal in future release:   * lsaf\_getmysessions * lsaf\_getsessions * lsaf\_getusersessions   Added macro:   * lsaf\_getsessionsbyquery |
| StudyService | Added macros:   * lsaf\_importstudycodelists * lsaf\_importstudydetails * lsaf\_importstudydocs * lsaf\_importstudyfromdefinexml * lsaf\_importstudytables * lsaf\_importstudytlfs * lsaf\_importstudyvlm |
| UserService | Updated macro:   * lsaf\_getuserproperties: Added single sign-on id to values in returned data set. |
| WorkspaceService | Updated macro:   * lsaf\_getworkspacechildren   + Updated recursion strategy to allow any valid integer between 0 and 99, inclusively.   + Added variables to resulting data set: fileSize and formattedFileSize.   + Suppressed folder size. |