

**SAS® Life Science Analytics Framework SAS Macro API 2.5.1
Release Notes
November 2021**

The SAS® Life Science Analytics Framework Macro API 2.5.1 is available for use with SAS® Life Science Analytics Framework Java API 2.5.1.

The tables below summarize the enhancements for this release.

Change Type	Description	Count
Added	New macro added in this release.	3
Updated	Macro name, input parameters, and/or returned results changed.	2
Deprecated	Replaced by new functionality. Marked for removal in future release.	2
Removed	Macro no longer available in this release.	0

Functional Area	Description
General	Error messages have been updated.
System	Added: <ul style="list-style-type: none"> lsaf_getsystemconstants. This macro supports the SAS Macro API documentation.
Type	Added: <ul style="list-style-type: none"> lsaf_gettypeallowablechildren lsaf_gettypesbycapability Deprecated: <ul style="list-style-type: none"> lsaf_getcontextallowablechildren lsaf_getcontexttypesbycapability Updated: <ul style="list-style-type: none"> lsaf_getcontexttypes -Value of listType variable changed from “Context” to “Contexts”.
User	Updated: <ul style="list-style-type: none"> lsaf_getallusers – Added created by, created date, last modified by, and last modified date as additional variables in the data set. lsaf_getuserproperties - Added created by, created date, last modified by, and last modified date properties as rows in the data set.