

# Platform Suite for SAS 9.1 Full License Upgrade

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## About this Document

This document applies to Platform Suite for SAS 9.1 that bundles technologies of Platform LSF (LSF) 9.1.3, Platform Process Manager (Process Manager) 9.1.3, Platform Web Services 9.1.3. It also involves Platform RTM for SAS 2.0.8.

This document provides instructions to upgrade SAS OEM licenses of Platform Suite for SAS 9.1 to full Platform Computing licenses. Platform Suite for SAS 9.1 is available for SAS Grid Manager 9.4M2 customers.

The intended audience for this document is SAS customers and personnel that deploys and supports these technologies.

## Platform Suite for SAS 9.1

Platform Suite for SAS 9.1 includes technologies of Platform LSF 9.1.3, Platform Process Manager 9.1.3, and Platform Web Services 9.1.3. Platform Suite for SAS is packaged with SAS Grid Manager for grid environment and can also be purchased with other SAS products and solutions to provide Enterprise Scheduling in a single server environment.

Platform Web Services 9.1.3 is a new component in Platform Suite for SAS 9.1 that will integrate with SAS Environment Manager for grid monitoring, control, and configuration.

Platform Suite for SAS, when licensed with a SAS OEM license, supports SAS workloads and flows, but does not support non SAS jobs and flows. The restrictions are:

1. LSF does not allow jobs submitted with the **bsub** command to run longer than thirty seconds (used for simple testing of submission with the command-line). SAS Grid Manager provides a command line tool **sasgsub** that can submit and run SAS jobs, but it does not include the full capabilities of **bsub**.
2. Process Manager does not include **Flow Editor**, a graphical client to create and submit job flows that can contain SAS and non SAS jobs.
3. Process Manager supports only SAS flows.
4. Platform RTM for SAS with a SAS license can only monitor and control an LSF cluster that is licensed with a SAS OEM license. If LSF is upgraded to a full license and you are using Platform RTM for SAS, a special license needs to be applied so that Platform RTM for SAS works with the full Platform LSF product. The special license for Platform RTM for SAS is provided at no cost and it does not warrant an upgrade to any retailed version of Platform RTM (the non SAS version). This is important because Platform RTM for SAS includes many features and functionality that are not available with the retailed version of Platform RTM for example, the ability to modify the LSF configuration files.

Full upgrade of the Platform Suite for SAS from a SAS OEM licensed to a full Platform Computing license is available to eliminate these restrictions.

## Upgrading to a Full License of LSF and Process Manager

Notes:

- Reinstallation of the products is not required.
- For a full upgrade of Platform Suite for SAS 9.1, customers must purchase the full version of both LSF 9.1.3 (Standard or Advanced Edition) and Process Manager 9.1.3 from IBM. This will provide the access to download this document and the LSF entitlement file required to upgrade Platform Suite for SAS 9.1.
- If Platform RTM for SAS 2.0.8 is being used, it must be updated to use a special license which is included in this document. The special license is provided at no cost and it does not warrant an upgrade to any retailed version of Platform RTM (the non SAS version).
- This procedure does not cover upgrading the products to a higher version. Check with IBM and SAS for support status.
- For a full upgrade of Platform Suite for SAS 9.1 and earlier, check with IBM and SAS for the previous version of this upgrade document.

## Steps to Perform a Full Upgrade

1. Purchase the Full version of both Platform LSF 9.1.3 and Platform Process Manager 9.1.3.
  - Purchase of the full version of LSF 9.1.3 from IBM will grant access to download the LSF entitlement file (lsf.entitlement).  
The Platform LSF 9.1.3 entitlement file only works with Platform Suite for SAS 9.1 (LSF 9.1.3, Process Manager 9.1.3, and Platform Web Services 9.1.3)
2. Download lsf.entitlement and pss9.1\_full\_upgrade.pdf (this document).
3. Apply the lsf.entitlement file.
  - a. Copy lsf.entitlement to the LSF directory *LSF\_ENVDIR*.
  - b. As root on Linux/UNIX or the LSF administrator on Windows, restart LIM on all hosts with the command:  

```
lsadmin limrestart all
```
  - c. As the Process Manager administrator, restart the Process Manager server.
    - On Linux/UNIX, run the command:  

```
jadmin stop  
jadmin start
```
    - On Windows, stop and start the Process Manager service.

4. Copy Flow Editor to your installation.

- Install the Flow Editor script for Process Manager.
  - On Linux/UNIX:
    1. Create a file named “*floweditor*” with execution permissions
    2. Copy the contents of the floweditor script (located at the end of this document) to the file created in the previous step.
    3. Move the “*floweditor*” file created to `$JS_HOME/$JS_VERSION/bin/`
  - On Windows:
    1. Create a file named “*floweditor.bat*”
    2. Copy the contents of the floweditor script for Windows (located at the end of this document) to the file created in the previous step.
    3. Move the “*floweditor.bat*” to the Process Manager bin directory.  
For example, `C:\Program Files (x86)\IBM\Platform Process Manager\9.1\bin\`

5. If you are using Platform RTM for SAS 2.0.8, apply the following special license for RTM through the license page of RTM.

*Config -> Cacti Configuration -> licensing*

```
# Special License for Platform RTM for SAS 9.4
# This license does not warrant upgrade to any retail version of Platform RTM
FEATURE lsfpoller lsf_ld 2.120 31-dec-2099 0 FE60A9C81C46E5699CA0 \
    VENDOR_STRING=Platform HOSTID=DEMO ISSUER="Platform Release Team" \
    ISSUED=24-May-2012 NOTICE="Platform Computing DEMO license"
```

**WARNING:** (1) This is a special license for Platform RTM for SAS. It does not warrant an upgrade to any retailed version of RTM (such as IBM Platform RTM 9.1.3). (2) Platform RTM for SAS differs significantly from the retail version of Platform RTM. The retail Platform RTM does not support Windows, LSF configuration, and HA configuration, amongst other things.

## Flow Editor Script for Windows (floweditor.bat)

```
@echo off
if not "%JS_ENVDIR%" == "" goto CHECK_JS_HOME
echo Please set JS_ENVDIR to the directory where js.conf
echo is located and try again.
pause
goto END
```

```
:CHECK_JS_HOME
if not "%JS_HOME%" == "" goto CONTINUE
ECHO Please set JS_HOME to Process Manager installation
ECHO directory and try again.
pause
goto END
```

```
:CONTINUE
set JS_AUTH_LOGIN_CONFIG=%JS_ENVDIR%\eauth.config
if "%JS_AUTH_LOGIN_CONFIG:~0,2%"=="\\" set
JS_AUTH_LOGIN_CONFIG=file:\\%JS_AUTH_LOGIN_CONFIG%
```

**REM CAUTION: When copy&paste, make sure the following is a single line:**

```
start/b "floweditor" "%JS_HOME%\%JS_VERSION%\jre\bin\javaw" -Xmx128m -
DJS_PLUGINCFG="%JS_HOME%\%JS_VERSION%\app\plugin.cfg" -DJS_HOME="%JS_HOME%" -
DJS_VERSION="%JS_VERSION%" -DJS_ENVDIR="%JS_ENVDIR%" -DLSF_ENVDIR="%LSF_ENVDIR%" -
DJS_SERVERDIR="%JS_SERVERDIR%" -DLSF_SERVERDIR="%LSF_SERVERDIR%" -
Djava.security.auth.login.config="%JS_AUTH_LOGIN_CONFIG%" -cp
"%JS_HOME%\%JS_VERSION%\app\floweditor.jar";"%JS_HOME%\%JS_VERSION%\resources";"%JS
_HOME%\%JS_VERSION%\lib\java\icu4j.jar";"%JS_HOME%\%JS_VERSION%\lib\java\jobflowui.
jar";"%JS_HOME%\%JS_VERSION%\lib\java\jh.jar";"%JS_HOME%\%JS_VERSION%\lib\java\jobf
low.jar";"%JS_HOME%\%JS_VERSION%\lib\java\lsfsecurity.jar";"%JS_HOME%\%JS_VERSION%\
lib\java\saslogin.jar";"%JS_HOME%\%JS_VERSION%\lib\java\xpp3-1.1.4c.jar"
com.platform.LSFJobFlow.app.floweditor.JFFlowEditor %*
```

```
:END
```

## Flow Editor Script for UNIX (floweditor)

```
#!/bin/sh
if [ -z "$JS_ENVDIR" ]; then
    JS_ENVDIR=/etc
fi

JS_CONF=$JS_ENVDIR/js.conf

if [ ! -f $JS_CONF ]; then
    echo "$JS_CONF does not exist. Abort"
    exit 1
fi

. $JS_CONF

if [ -z "$JS_HOME" ]; then
    echo "Please set JS_HOME in $JS_CONF and try again."
    exit 1
fi

if [ -z "$LSF_ENVDIR" ]; then
    LSF_ENVDIR=/etc
fi

VERSION_DIR=$JS_HOME/$JS_VERSION/
APP_DIR=$VERSION_DIR/app
JRE_BIN=$VERSION_DIR/$JS_ARCH/jre/bin

LIB_JAVA_DIR=$VERSION_DIR/lib/java

# CAUTION: When copy&paste, make sure the following is a single line:
$JRE_BIN/java -Xmx128m -DJS_PLUGINCFG=$APP_DIR/plugin.cfg -DJS_HOME=$JS_HOME -
DJS_VERSION=$JS_VERSION -DJS_ENVDIR=$JS_ENVDIR -DLSF_ENVDIR=$LSF_ENVDIR -
DJS_SERVERDIR=$JS_SERVERDIR -DLSF_SERVERDIR=$LSF_SERVERDIR -
Djava.net.preferIPv4Stack=false -
Djava.security.auth.login.config=$JS_ENVDIR/eauth.config -cp
$APP_DIR/floweditor.jar:$VERSION_DIR/resources:$LIB_JAVA_DIR/icu4j.jar:$LIB_JAVA_DI
R/jobflowui.jar:$LIB_JAVA_DIR/jh.jar:$LIB_JAVA_DIR/jobflow.jar:$LIB_JAVA_DIR/lsfsec
urity.jar:$LIB_JAVA_DIR/saslogin.jar:$LIB_JAVA_DIR/xpp3-1.1.4c.jar
com.platform.LSFJobFlow.app.floweditor.JFFlowEditor $*
```

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