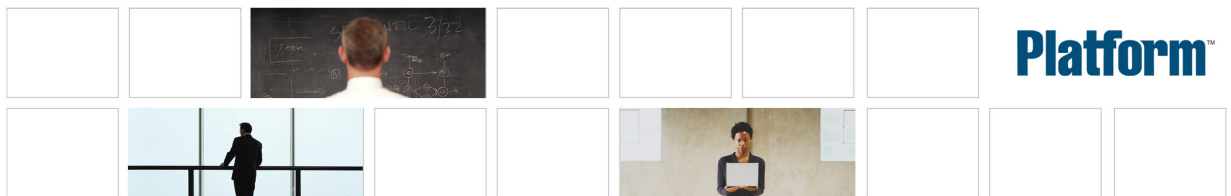

Release Notes for Platform Process Manager

Platform Process Manager
Version 7.1
July 2009



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Contents

Process Manager Files	5
New features	6
Deprecated parameters	8
Installation Options	9
Known Issues	10

Process Manager Files

Documentation	File Name
<i>System Requirements</i>	sys_requirements.html
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf
<i>Installing Platform Process Manager (Windows)</i>	pm_install_windows.pdf
<i>Administering Platform Process Manager</i>	pm_admin.pdf

New features

History clean up

- From now on any history log files older than the specified time period is cleaned up by Process Manager.

Active directory group names as administrators

- On Windows, you can now assign active directory group names as Process Manager administrators. The primary administrator cannot be an active directory group name.

To assign an active directory group name, specify the group name after the primary administrator in the `JS_ADMINS` parameter in `j s. conf`. You can also assign an Active Directory group name as a control administrator by specifying the Active Directory group name in the `JS_CONTROL_ADMINS` parameter in `j s. conf`.

IPv6 support

- Server and client hosts now support IPv6 communications.
- Process Manager now functions in pure IPv6 and mixed IPv6/IPv4 environments.

Rerun exception handling

- When using the built-in Rerun exception handler, you can now specify the maximum number of times that the exception handler reruns the work item.

Number of occurrences for timed events

- You can now set the number of occurrences as an end trigger for timed events by specifying a value in the End after ... occurrences field in the Event Definition dialog box.

Editing calendars in use

- You can now edit calendar definitions while the calendars are still in use. A calendar that is in use is under one of the following conditions:
 - A flow definition contains a time event that uses this calendar
 - An active flow instances is using a time event that uses this calendar
 - A finished flow instance that has not yet been removed from storage is using a time event that uses this calendar
 - A combination calendar uses this calendar
- After editing a calendar definition, any currently-existing flow definitions or flow instances still use the original calendar definition, while any new flow definitions that you create will use the new calendar definition.

Enhancements to work and configuration directories

- On Windows, the uninstaller no longer deletes the work and configuration directories.
This allows you to upgrade Process Manager without losing your current cluster data and configuration.
- On Windows, you can now modify the location to store work and configuration files.

The installer creates the `work` and `conf` subdirectories in this location.

During installation, you can modify the location in the Choose Work and Configuration Directory dialog. The default location is `JS_HOME`.

Scripts for alarms

- You can now configure alarms to trigger user-defined scripts. Prior to this, alarms can only trigger an email notification.

External execution

- On UNIX, the Process Manager daemon (JFD) can delegate any command execution to the External Execution daemon (EED) so that JFD does not need to use the `fork()` function to execute commands.

This provides a significant performance enhancement if the JFD's memory footprint is large (usually greater than 1 GB).

- To enable the External Execution daemon, specify **JS_EXTERNAL_EXECUTION=true** in `j.s.conf`.
- JFD maintains the connection between itself and the EEDs, and restarts any EED that shuts down. If JFD is shut down, the EED will exit in 15 seconds.

Specifying time zones for time events

- When defining a time event, you can now specify a time zone that is different from your local host or the Process Manager server.

Deprecated parameters

js.conf

The following parameters are deprecated in Process Manager 7.1.

Old parameter	Description	Replaced with
JS_ALARMS_DIR	The directory where the configured alarms are stored.	The al_arms subdirectory of the work directory.
JS_CALENDAR_DIR	The directory where the calendars are stored.	The cal_endar subdirectory of the work directory.
JS_HISTORY_DIR	The directory where the history log files are stored.	The hi_story subdirectory of the work directory.
JS_STORAGE_DIR	The directory where the flow definitions and flows are stored for use by the Process Manager Server.	The st_orage subdirectory of the work directory.
JS_VARIABLE_DIR	The directory where variable data is stored.	The vari_able subdirectory of the work directory.
JS_VARIABLE_COMM_DIR	The shared directory to which jobs communicate variable information.	The var_comm subdirectory of the work directory.

The work directory as mentioned above is specified in the JS_WORK_DIR parameter in j s. conf.

Installation Options

Default installation

For a default installation on either Windows or UNIX, follow the applicable installation instructions in the following guides:

Book	File
<i>Installing Platform Process Manager (Windows)</i>	pm_install_windows.pdf
<i>Installing Platform Process Manager (UNIX)</i>	pm_install_unix.pdf

Control the JFD

- To start JFD:
 - UNIX: `jadmin start`
 - Windows:
 1. From the Windows Control Panel, select Administrative Tools > Services.
 2. Right-click Process Manager and select Start.
- To stop JFD, run `jadmin stop`. Do not manually kill the `jfd` process.

Known Issues

Process Manager 7.1 has the following known issues:

- When a user variable is used in a job definition's Name field, the value of the variable must be set when the flow is triggered. Otherwise the flow will fail to be triggered. For example, in Flow Manager, you may choose "Trigger" => "With Variables", or on command line use "jtrigger -v variable_list ...".
- Applies to Linux hosts when JS_TIME_ZONE is set to "client", the default. During Daylight Savings Time (in the March–November time period), some time events may trigger an hour early. This occurs when Java gets the wrong timezone information from the client machine. Solution: On the (Linux) client, edit the file `/etc/sysconfig/clock` and replace `TIMEZONE=zone` with `ZONE=zone`. For example, `ZONE="US/Eastern"`.
- The SGI IRIX 6.5.24 platform does not support the new Daylight Savings Time dates (that changed in 2007) when JS_TIME_ZONE is set to "client" (the default). Time-based scheduling is affected.
- On Linux Redhat 7.0, due to a known java problem, scripts that run Process Manager commands and then monitor for exit code will never see an exit code 1 when it occurs—they see an exit code of 0.
- On HP, the failover feature does not work with a permanent license. Use a demo license.
- A Misschedule exception is not propagated through two consecutive link events in a flow.
- When using the Flow Editor or Flow Manager, and viewing or changing a job or job array definition, the entire job or job array definition dialog cannot be viewed if you are using a screen resolution lower than 1024 x 768. We recommend you set your resolution to 1024 x 768 or higher when using the Process Manager graphical user interface.
- When launching the graphical interfaces (Flow Editor, Calendar Editor and Flow Manager) on some UNIX systems, the user receives font not found warnings. The Java Virtual Machine user interface manager automatically determines which fonts are used on each machine. If the fonts are not available on the machine, the warning is issued. These warning messages do not affect the operation of the client.
- Process Manager does not validate the end date of a calendar expression. Consequently, if you define an end date prior to the start date, you receive no error message, but the calendar cannot be used in a time event to successfully trigger a flow or job.
- If you kill a job from the Flow Manager, the job state does not automatically refresh to reflect the change—you need to refresh manually, unless real-time status updates are being used.
- In the Flow Editor, on the Job Definition tabs, the Reset button only resets data on the current tab—it does not affect the hidden tabs. Values specified in the following fields do not reset at all when you click the Reset button:
 - Submit to queue/partition(s)—General tab
 - User name—General tab
 - Host requirements fields—Processing tab
- Some days of the week are not completely shown in the Calendar Editor for some platforms:
 - On Solaris: Mon, Wed, Thu are shown as M..., W..., T...
 - On HP: Mon, Wed are shown as M..., W...
 - On SGI: Sun, Mon, Wed are shown as S..., M..., W...
- Some historical information is not logged correctly in the following circumstances:
 - If a job or other activity has a rerun exception handler that is triggered, no information about the exit code of the job is logged.
 - When user variables are used for file transfer names, the resolved name of the file is not logged.
- When using the `j sub - r` command to submit and replace a flow definition, if the `j sub` command fails, the replacement does not occur, but the replaced flow definition is already deleted and cannot be restored.

- In the Flow Manager, it is possible for the user to have two different flows selected in the tree view and the right-hand pane. If the user selects an option in the Action menu, such as Kill, it is the flow selected in the tree view that is killed, not the one in the right-hand pane. This may not be the behavior the user expects.
- Process Manager does not support duplicate event logging in LSF. The `lsb.events` file must be in a shared location where the Process Manager server can locate job information.
- If a job using a rerun exception handler has a rerun delay specified, and the Process Manager restarts during the delay period (prior to rerunning the job), the job is never rerun.
- If a user tries to open the job dependency definition on the arrow coming out of the job with the variable in the job name field, the user sees an empty message dialog, prior to seeing the dependency definition. The user can click OK, to see the definition. However, the job name field is blank.
- If a job command (command itself, not parameters) contains space and if the job is submitted to a queue with a job starter, the command doesn't work.
- in `xlsadmin`, some menu items under Manage may be disabled after operating shutdown or close actions against LSF daemons.
- In `xlsadmin`, lock/unlock LIM and start/stop service only has effect on the LIM that locates on the host where `xlsadmin` is started.
- in `xlsadmin`, some menu items under Manage may be disabled when `LSF_EGO_DAEMON_CONTROL="Y"` is set in `lsf.conf`