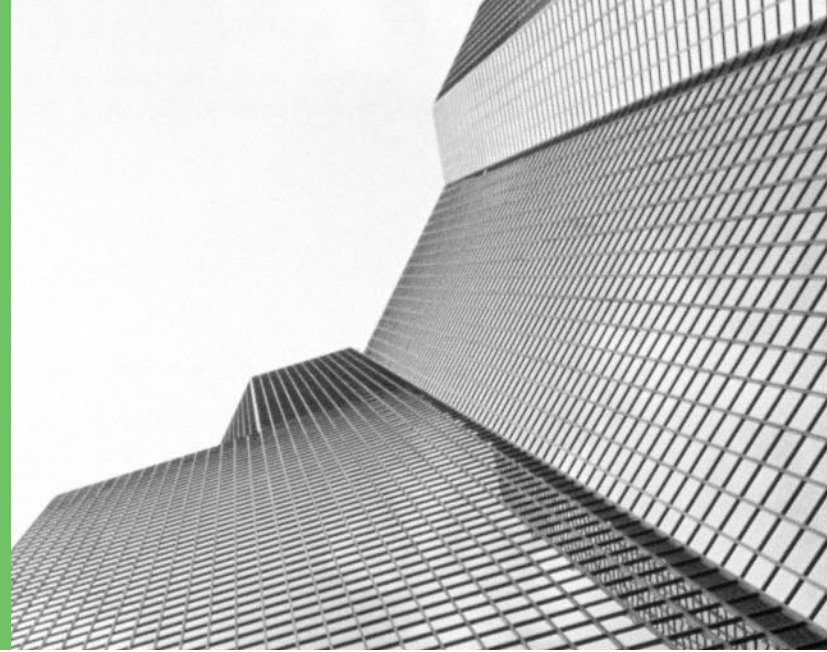


# Platform Process Manager 8

Automated workflow management



## Key Benefits

- Improve workflow speed and reliability
- Save time and effort
- Automate exception handling
- Scale seamlessly
- Improve maintainability
- Easy integration with existing tools & processes

## Key Features

- Visual monitoring of workflows
- Intuitive drag-and-drop flow builder
- Calendar and event based scheduling
- Automated exception handling and alarms
- Support for rich conditional logic
- Re-usable sub-flows

## Overview

Platform Process Manager is a grid-aware scheduling and workflow automation solution for Platform LSF implementations. It enables users to run and manage business critical workflows on a shared, distributed compute environment. As a result, it boosts productivity, reduces run times, improves process reliability, and removes tedious manual steps that provide opportunities for human error. The Flow Editor enables process designers to describe workflow steps and dependencies through an intuitive graphical interface so that arbitrarily complex business processes are fully automated. The Flow Manager is used at run time to launch and monitor the progress of one or more workflows on the Platform LSF environment.

Using the Calendar Manager included in Platform Process Manager, user and system defined calendars can be combined in sophisticated ways to provide automated triggering of either individual jobs or complex workflows based on calendar expressions.

Technical users will appreciate the XML-based file formats and the rich command set that allows time-dependent jobs or flows to be triggered and managed using a scriptable interface as an alternative to the graphical environment.

## Run Critical Workflows with Confidence Process reliability assured

Platform Process Manager helps eliminate the most probable causes of failure - human error. By incorporating sophisticated error handling and conditional logic, once a flow is started the workflow administrator can move to the next task knowing that the flow will complete as planned despite unanticipated hardware or software failures. If there are failures it cannot resolve, Platform Process Manager can send alerts by e-mail or pagers, or raise the alarm through existing monitoring and management systems.

Platform Process Manager combines sophisticated exception handling, the inherent reliability of Platform LSF, and automated and transparent fail-over capabilities to ensure that critical deadlines are met without operator intervention.

## Resource-aware workflow management

Unlike traditional workflow solutions where host selections need to be made in advance, Platform Process Manager supports dynamic host selection at run-time. This is important because it makes workflows resilient and flexible, and removes dependencies on individual host computers by describing resources qualitatively. By removing the need to associate individual hosts with key process steps, workflows that would otherwise be "brittle" and failure-prone, are made reliable, flexible and easy to maintain.

## Built-in workflow scalability

As nodes are added to a shared cluster, workflows can scale dynamically and seamlessly without the need to modify workflow definitions. Multiple workflows with different business priorities can be run concurrently, governed by sharing policies in Platform LSF that ensure resources are shared appropriately and allocated according to business need.

## Publish workflows to the web

For customers using Platform Process Manager with Platform Application Center, users can submit and visually monitor their workflows from any device with a browser.

## Enhanced for Platform LSF 8

Existing Platform Process Manager users will enjoy a number of new enhancements including decisions based on variable expressions, more flexible approaches to setting user variables, new support for flow-arrays, and support for versioning of workflows.

## Simplify your environment

Platform Process Manager can help you streamline processes that previously defied scripting or automation. This is accomplished by describing workflows in the visual Flow Editor. The Flow Editor makes the workflows become self documenting and, as a result, logic is easier to follow. This means that workflows developed within Platform Process Manager become simpler and more cost effective to maintain.

Platform Process Manager workflows can even be triggered by other Enterprise Workflow Management Systems and Platform Process Manager can integrate seamlessly with existing enterprise management tools.

Whether you need a more flexible alternative to cron, want to simplify scripting of multi-step processes, or need to simply reduce administration effort and guarantee the timely completion of business critical jobs and workflows, Platform Process Manager is an ideal solution to complement your Platform LSF environment.

## Supported Environments

Platform Process Manager Operating System & Hardware Support	<ul style="list-style-type: none"><li>• Linux® on x64 architectures including RHEL 2.1, 3, 4, 5.x, 6, SUSE Linux Enterprise Server including SLES 8, 9, 10, 11 and generic Linux distributions using 2.6 or greater kernels with glibc 2.3 (Debian, CentOS, Ubuntu, Scientific Linux and others).</li><li>• Linux on ia64 systems including RHEL 4,5, SLES 9,10,11 and generic Linux distributions using 2.6 kernels and glibc 2.3 and later.</li><li>• Microsoft Windows® on x32 &amp; x64 platforms including Windows 7, Windows Vista, Windows XP, Windows Server 2003 &amp; 2008 standard &amp; enterprise editions, Windows HPC server 2008</li></ul>
Platform Process Manager Host Requirements	<ul style="list-style-type: none"><li>• Minimum 1.0 GB of free disk space (disk space requirements grow with job volume)</li><li>• Must be installed with a Platform LSF cluster host. For production installations it is recommended that Process Manager not be installed on an LSF master host.</li><li>• Minimum 256 MB of available memory required, 1 GB recommended.</li><li>• Java Run-time (J2RE) 1.4</li></ul>
Workstation Requirements to run the Flow Editor, Flow Manager and Calendar Manager Components	<ul style="list-style-type: none"><li>• 1.0 GB of available physical memory (RAM) recommended</li><li>• Java Run-time (J2RE) 1.4</li></ul>

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