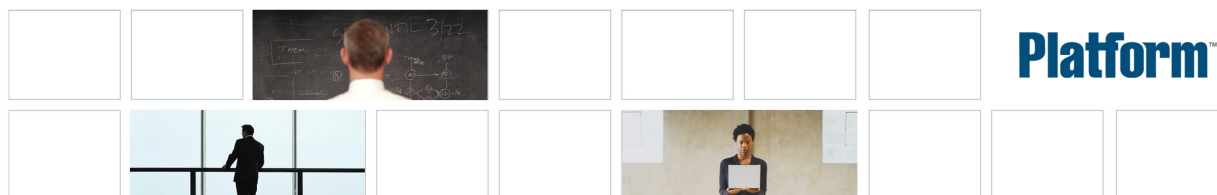

Installation Guide for Windows

Platform LSF Process Manager
Version 7
March 2008



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Introduction

This document describes how to install the software required to run the *Platform LSF Process Manager* software (“Process Manager”) on Windows® machines. The Process Manager software includes the Process Manager Server and Client. Each of these components is required to run jobs using Process Manager.

The Process Manager Server controls the submission of jobs to LSF, managing any dependencies between the jobs.

LSF dispatches all jobs submitted to it by the Process Manager Server, and returns the status of each jobs to the Process Manager Server. LSF also manages any resource requirements and performs load balancing within the compute cluster.

The Process Manager Client allows you to monitor and control your workload as it runs.

You can install all of the components on a single host, or you can install the Process Manager Server and LSF on separate hosts. This document describes how to install all components on a single host.

Assumptions

This document assumes the following:

- You have installed LSF
- You will install Process Manager Server and clients on a single Windows host. This host acts as the central point of control for a cluster of LSF hosts that actually run the jobs.
- Your cluster will be composed of only Windows hosts. There are no UNIX hosts in the cluster.

Supported versions and requirements

The Process Manager software must be installed on an LSF server host, but it is recommended that it not be an LSF master host.

J2RE (Java Runtime Environment) 1.4 is installed with the Process Manager.

The Process Manager Server requires:

- Approximately 135 MB free disk space for installation, and an additional 2 KB per job to handle jobs running simultaneously
- 256 MB RAM for processing purposes

Prerequisites

Accounts

Installation account

The user account that is used to install Process Manager is called the installation account. It must be a local administrator on all the hosts you are installing (a Windows domain administrator account is normally a local administrator on every host in the domain).

The installation account must have the following privilege:

- Act as part of the operating system

Process Manager administrators

Process Manager administrators must have permission to modify all files.

Process Manager service account

The Process Manager service runs under a Process Manager service account. This is similar to the Process Manager primary administrator account on UNIX.

The account name cannot include spaces. This account must have read and write permissions on the installation directory.

Process Manager automatically assigns the following privileges to this account. In Windows 2000, make sure domain-level policy settings do not remove these privileges:

- Act as part of the operating system
- Debug programs
- Increase quotas
- Log on as a service
- Replace a process-level token
- Back up files and directories
- Restore files and directories
- Bypass traverse checking

We recommend that you use the same account for both the LSF and Process Manager service accounts. The default is `lsfadmin`.

This account must be created before installation if it does not already exist.

Shared configuration

You have set up a network share for storing the configuration and state files. This share can be one of the hosts in the cluster, or a centralized storage server that is not part of the cluster.

License file

You need the license file provided to you by Platform Computing which licenses Process Manager.

Install Process Manager

Place a copy of `ppm7_install_win.exe` where it is accessible from the setup host.

1. Log on to the setup host using the user ID created as the installation account.
You must have local administrative privileges on this host.
2. Run the installation package by double-clicking the `ppm7_install_win.exe` package
3. At the Welcome dialog, click Next.
4. Unless you need to change the installation location, click Next.

Caution:

Do not install Process Manager and LSF to the same directory.

5. Select components to install:
 - Process Manager Server
 - Flow Editor and Calendar Editor
 - Flow ManagerBy default, all of them are selected to install on this host.
Click Next to continue.
6. Configure the Process Manager Server:
 - a) The name you specify in the Administrators field is the primary administrator, usually the installation account user ID.
Make sure the user name displayed has local administrator privileges.
 - b) Unless there is a conflict, leave the port number in the Port field at the default, 1966.
 - c) For License file, specify the full path to the license file including the file name.
 - d) For LSF Environment, specify environment variable to point to the directory containing the `lsf.conf` file. By default, `%LSF_ENVDIR%` is displayed.
 - e) Click Next.
7. Configure the Process Manager service:
 - a) Specify the domain and user ID under which the Process Manager service runs.
 - b) Specify the password for that user ID.

Note:

Install Process Manager

The user you specify must have read/write access to the LSF passwd.lsfuser password file. Ideally, use a user name and password that does not change.

8. If you have installed LSF 7 Update 2 and above, specify EGO Configuration:
 - a) Specify whether you want to install Process Manager as a Windows service (default) or an EGO service.
 - b) If you choose to install as an EGO service, specify the %EGO_CONFDIR%. If you have an EGO cluster with LSF running, you can install as an EGO service. This transfers control of Process Manager to EGO through the Platform Management Console. The primary advantage is the ability to fail over Process Manager to another host.

If you chose a Windows service install, continue with these instructions.

9. Allow sending mails:
 - a) If you want users to receive email notifications about their jobs, check Allow sending mail
 - b) Specify the type of mail server.
 - c) Specify the name of the mail server host.
 - d) Click Next.
10. After copying files, click Next.
11. At the Information Summary dialog, click Next.
12. At the Summary dialog, click Next.
13. At the Process Manager setup dialog, click Finish.

Post-installation steps

Set file permissions: Process Manager

Set the permissions for Process Manager files as shown on your directory structure.

The files are located by default in C:\Program Files\Platform Computing\Platform LSF Process Manager.

work, log

- Process Manager service accounts: Full Control
- Process Manager administrators: Full Control
- Everyone: Read

lib, etc

- Process Manager service accounts: Full Control
- Process Manager administrators: Full Control
- Everyone: Read & Execute

conf

- Process Manager service accounts: Full Control
- Process Manager administrators: Full Control
- Everyone: Read

Post-installation steps

Uninstall the software

You can uninstall the Process Manager software by running the installation software again.