

IBM Spectrum LSF Process Manager
Version 10 Release 1

Release Notes



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Note

Before using this information and the product it supports, read the information in “Notices” on page 7.

This edition applies to version 10, release 1 of IBM Spectrum LSF Process Manager (product number 5725G82) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

Chapter 1. What's new 1

Platform Process Manager is now IBM Spectrum LSF Process Manager	1
Web Flow Editor	1
Consistent terminology for jobs and flows in IBM Spectrum LSF Application Center	2
Copy flow definitions from one Process Manager environment to another.	2
Impersonate the job execution user to submit LSF jobs	2
Kerberos integration: Generate a TGT for users each time they log in to Process Manager Server	3
Process Manager no longer requires execute permission on the /tmp directory	3

Control automatic creation of the work directory . . .	3
Enriched history log information for main flows and jobs	3
Install and manage Fix Packs	3
Automatic backup of the working directory during Fix Pack installation	3

Chapter 2. Known Issues 5

Notices 7

Trademarks.	9
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Chapter 1. What's new

Platform Process Manager is now IBM Spectrum LSF Process Manager

IBM Platform Computing has been renamed to IBM Spectrum Computing – complementing IBM's Spectrum Storage family of software-defined offerings. The IBM Platform Process Manager product is now IBM Spectrum LSF Process Manager. Some content in the documentation and IBM Knowledge Center does not yet reflect this new product name.

For more information, see <http://www-03.ibm.com/systems/spectrum-computing/>.

Web Flow Editor

Flow Editor is now available in IBM Spectrum LSF Application Center along with flow management capabilities in a single environment. You no longer need to install Process Manager clients to start creating and running flows. Flow definition drafts are saved in the IBM Spectrum LSF Application Center server and local XML files are no longer needed but are still supported.

To access Flow Editor in IBM Spectrum LSF Application Center, select the **Resources** tab, **Flow Definitions**, by selecting **New > Flow Definition**.

Calendar Editor is not included in IBM Spectrum LSF Application Center. To use Calendar Editor, install the IBM Spectrum LSF Process Manager Java clients.

New Flow Designer role

To create flows in the Web Flow Editor, a user needs to be assigned the Flow Designer role in IBM Spectrum LSF Application Center. Flow Designer permission control is only enforced in IBM Spectrum LSF Application Center. Users can still use the Flow Editor java client to create flows without any additional roles.

Automatic creation of flow submission templates

In IBM Spectrum LSF Application Center, you can now select a flow definition and automatically create a submission form and script to submit the flow definition based on the input variables. In IBM Spectrum LSF Application Center, select the **Resources** tab, **Flow Definitions**, select a flow definition, select **More > New Submission Template**.

Support for submission forms in flows

In IBM Spectrum LSF Application Center, you can add a submission form in a flow definition to submit a flow or a job. In this way, you can run jobs for different applications in the same flow definition. You can also create dependencies between submission forms and other work item types.

The new parameters `JS_PAC_SERVER_URL` and `JS_PAC_SUBMISSION_FORM_TIMEOUT` in `js.conf` allow you to specify the URL to connect to IBM Spectrum LSF Application Center, and configure a communication timeout value between IBM Spectrum LSF Process Manager and

IBM Spectrum LSF Application Center to support submission forms in flows.

Consistent terminology for jobs and flows in IBM Spectrum LSF Application Center

Some Process Manager terminology changed for consistency between jobs and flows. Changed terminology:

Process Manager version 9.1.3	IBM Spectrum LSF Process Manager version 10.1
Submit a flow definition	Commit a flow definition draft
Trigger a flow	Submit a flow
Run a flow definition once	Submit a test flow
Submit a submission form	Submit a submission form

For flow definitions, the command **jcommit** is an alias for **jsub**.

For flows, the command **jsubmit** is an alias for **jtrigger**.

Copy flow definitions from one Process Manager environment to another

Copy flow definitions from one Process Manager environment to another with the new commands **jexport** and **jcommit**.

With the **jexport** command, you can export flow definitions from the Process Manager server to XML files.

The **jcommit** command is an alias for **jsub**. You can now specify the version when committing a flow definition with the **jcommit** command by using the **-v** option.

By default, **jsub** removes flow trigger events when a flow is submitted to the Process Manager server. Use the **-k** option in **jcommit/jsub** to keep triggering events in the flow definition XML file when committing flows.

Impersonate the job execution user to submit LSF jobs

On UNIX/Linux, the Process Manager server runs as root and uses the command **su** to impersonate the job execution user to submit LSF jobs. In some environments, the command **su** is not allowed.

With the new parameter **JS_SU_COMMAND** in **js.conf**, you can now set the command to impersonate the job execution user.

Kerberos integration: Generate a TGT for users each time they log in to Process Manager Server

Set the new parameter `JS_KRB_USE_KINIT=true` in the configuration file `js.conf` if for some reason the system does not allow Process Manager to generate a user TGT. When `JS_KRB_USE_KINIT=true`, each time the user logs in to Process Manager server, Process Manager generates a TGT for the user even if the TGT did not expire. This parameter only works when `JS_LOGIN_REQUIRED=true` in the configuration file `js.conf`.

Process Manager no longer requires execute permission on the `/tmp` directory

In previous versions, Process Manager created and executed scripts in the `/tmp` directory on UNIX to submit jobs to LSF. Due to security concerns, some environments do not allow execute permission on `/tmp` directories. Process Manager no longer relies on the `/tmp` directory to run scripts and binaries. Process Manager now creates a `tmp` directory within the working directory to run scripts and binaries. The location is `JS_WORK_DIR/tmp`.

Control automatic creation of the work directory

Use the new parameter `JS_CREATE_WORKING_DIR` in the configuration file `js.conf` to control whether Process Manager automatically creates the work directory for a work item.

Enriched history log information for main flows and jobs

The history log now includes enriched information for main flows and jobs to help you find out exactly how the flow and job was run.

In the history log, now see the flow definition version, the flow working directory, user variables, environment variables, execution command, and submission command.

Install and manage Fix Packs

The new command `patchinstall` on UNIX/Linux allows you to check and install Fix Packs, roll back the most recent Fix Pack, and query information such as the build number and applied date.

On Windows, an MSP package is used to apply and manage Fix Packs.

Automatic backup of the working directory during Fix Pack installation

The `patchinstall` command automatically backs up the contents of the current `$JS_WORK_DIR` before applying the Fix Pack.

Chapter 2. Known Issues

Process Manager 10.1 has the following known issues:

Category	Issue
Compatibility issues when JS_LOGIN_REQUIRED=false	<p>There are compatibility issues when JS_LOGIN_REQUIRED=false in the configuration file <code>js.conf</code>. This is due to enhancements in security when authorizing user credentials for the data stream between Process Manager Server and clients.</p> <p>To use 10.1 Process Manager clients with a Process Manager Server that has not been updated to version 10.1, you will need to install a Fix on your Process Manager Server. The Fix enhances security when authorizing user credentials for the data stream between Process Manager Server and Clients. Look for the Fix that corresponds to your Process Manager version:</p> <ul style="list-style-type: none">• Process Manager Server version 9.1.3, download and install Fix 146813• Process Manager Server version 9.1, download and install Fix 147420• Process Manager Server version 8.2, download and install Fix 152922 <p>To use the 10.1 Process Manager Server with clients that have not been updated to version 10.1, you will need to install a Fix on your Process Manager clients. The Fix enhances security when authorizing user credentials for the data stream between Process Manager Server and clients. Look for the Fix that corresponds to your Process Manager client versions:</p> <ul style="list-style-type: none">• Process Manager client version 9.1.3, download and install Fix 146813• Process Manager client version 9.1, download and install Fix 147420• Process Manager client version 8.2, download and install Fix 152922
Job submission parameters in <code>js.conf</code>	<p>Setting <code>JS_EXTERNAL_EXECUTION=true</code> in <code>js.conf</code> causes the following parameters for job submission to not work: <code>JS_JOB_SUBMISSION_SCRIPT_TIME_OUT</code>, <code>JS_JOB_SUBMISSION_TIMEOUT</code>, <code>JS_JOB_SUBMISSION_RETRY</code>, <code>JS_BSUB_RETRY_EXIT_VALUES</code>.</p>
Flow Editor, Completion Attributes	<p>In Flow Editor, Completion Attributes dialog, missing horizontal scroll bar when work item names are too long</p>
IBM Spectrum LSF Process Manager, Exception handlers	<p>When exception handlers are used, jobs cannot be suspended. The time for triggering overrun does not exclude the suspend time.</p>
jcommit command	<p>A flow can be committed with jcommit without specifying the required time event duration.</p>

Category	Issue
Flow Completion Attributes	<p>New jobs are triggered even though the following options are selected in the Flow Completion Attributes:</p> <ul style="list-style-type: none"> • Determine the status of the flow when ... Any selected work items end • When any selected work items end: Complete any work items in progress and stop running the flow.
Web Flow Editor in IBM Spectrum LSF Application Center, Work item titles missing in Map View	In Resources > Submission Resources > Flow Definitions > Map View, some work item titles are missing.
Web Flow Editor in IBM Spectrum LSF Application Center, Categorizing submission templates and flow definitions	When a flow definition is moved to a different folder, the submission template is not moved with it
Web Flow Editor in IBM Spectrum LSF Application Center, Flow attributes in subflows	No right-click menu item to view Flow Attributes when a subflow has been submitted.
Web Flow Editor in IBM Spectrum LSF Application Center, Submission forms	In Internet Explorer, a submission form is empty after clicking Cancel in the submission form dialog.
Web Flow Editor in IBM Spectrum LSF Application Center, Flow Details	After submitting a test flow, the Flow Details dialog does not display correct information.
Web Flow Editor in IBM Spectrum LSF Application Center and Flow Manager Java Client, Flow Arrays	When a flow array contains two levels of nested flows, an element in the flow array is unexpectedly killed
Web Flow Editor in IBM Spectrum LSF Application Center	When a user's work directory is not in /home and the user clicks the Add Local File button in a submission form, the following incorrect message is displayed: "Failed to upload files. Permission denied." Error.
Web Flow Editor in IBM Spectrum LSF Application Center	When you want to take any action in a submitted flow definition from Jobs > Flow Submission , the message "No records found is displayed" even though the action took place.
Web Flow Editor in IBM Spectrum LSF Application Center, Flow status	Flow status is not always updated in Jobs > Jobs > By State .
Web Flow Editor in IBM Spectrum LSF Application Center, Starting points and submission forms	When a submission form is included in a flow, after the flow is run, you cannot select the submission form job as a starting point to rerun the flow.
Web Flow Editor in IBM Spectrum LSF Application Center, Submission forms in flow definitions	When a submission form for a flow is inserted in a flow definition and you select Submit Test Flow , any actions in the Flow Details, Flow Chart tab do not work except for the Expand action.
Web Flow Editor in IBM Spectrum LSF Application Center, Opening a draft flow	Users are incorrectly allowed to open the same flow draft from different Flow Editor windows.

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Printed in USA

GI13-1891-04

