IBM Spectrum LSF Process Manager
Version 10 Release 1

Release Notes

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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/](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 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:

<table>
<thead>
<tr>
<th>Process Manager version 9.1.3</th>
<th>IBM Spectrum LSF Process Manager version 10.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit a flow definition</td>
<td>Commit a flow definition draft</td>
</tr>
<tr>
<td>Trigger a flow</td>
<td>Submit a flow</td>
</tr>
<tr>
<td>Run a flow definition once</td>
<td>Submit a test flow</td>
</tr>
<tr>
<td>Submit a submission form</td>
<td>Submit a submission form</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Category</th>
<th>Issue</th>
</tr>
</thead>
</table>
| Compatibility issues when JS_LOGIN_REQUIRED=false | There are compatibility issues when JS_LOGIN_REQUIRED=false in the configuration file js.conf. This is due to enhancements in security when authorizing user credentials for the data stream between Process Manager Server and clients. 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:  
  * 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  
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:  
  * 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 |
<p>| Job submission parameters in js.conf | Setting JS_EXTERNAL_EXECUTION=true in js.conf causes the following parameters for job submission to not work: JS_JOB_SUBMISSION_SCRIPT_TIME_OUT, JS_JOB_SUBMISSION_TIMEOUT, JS_JOB_SUBMISSION_RETRY, JS_SUB_RETRY_EXIT_VALUES. |
| Flow Editor, Completion Attributes | In Flow Editor, Completion Attributes dialog, missing horizontal scroll bar when work item names are too long |
| IBM Spectrum LSF Process Manager, Exception handlers | When exception handlers are used, jobs cannot be suspended. The time for triggering overrun does not exclude the suspend time. |
| jcommit command | A flow can be committed with jcommit without specifying the required time event duration. |</p>
<table>
<thead>
<tr>
<th>Category</th>
<th>Issue</th>
</tr>
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</table>
| Flow Completion Attributes                    | New jobs are triggered even though the following options are selected in the Flow Completion Attributes:  
  • 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          | In Resources > Submission Resources > Flow Definitions > Map View, some work item titles are missing.                                                                                                                                                                                                                                                                                                                                                     |
| Application Center, Work item titles missing in Map View | Web Flow Editor in IBM Spectrum LSF Application Center, Categorizing submission templates and flow definitions                                                                                                                                                                                                                                                                                                                                                           |
| Web Flow Editor in IBM Spectrum LSF          | When a flow definition is moved to a different folder, the submission template is not moved with it                                                                                                                                                                                                                                                                                                                                                           |
| Application Center, Flow attributes in subflows | Web Flow Editor in IBM Spectrum LSF Application Center, Submission forms                                                                                                                                                                                                                                                                                                                                                                                       |
| Web Flow Editor in IBM Spectrum LSF          | In Internet Explorer, a submission form is empty after clicking Cancel in the submission form dialog.                                                                                                                                                                                                                                                                                                                                                      |
| Application Center, Submission forms          | Web Flow Editor in IBM Spectrum LSF Application Center, Flow Details                                                                                                                                                                                                                                                                                                                                                                                          |
| Web Flow Editor in IBM Spectrum LSF          | After submitting a test flow, the Flow Details dialog does not display correct information.                                                                                                                                                                                                                                                                                                                                                           |
| Application Center and Flow Manager Java     | Web Flow Editor in IBM Spectrum LSF Application Center and Flow Arrays                                                                                                                                                                                                                                                                                                                                                                                   |
| 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          | 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.                                                                                                                                                                                                                       |
| Application Center                            | Web Flow Editor in IBM Spectrum LSF Application Center                                                                                                                                                                                                                                                                                                                                                                                                         |
| Web Flow Editor in IBM Spectrum LSF          | 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.                                                                                                                                                                                                                                                                 |
| Application Center                            | Web Flow Editor in IBM Spectrum LSF Application Center, Flow status                                                                                                                                                                                                                                                                                                                                                                                        |
| Web Flow Editor in IBM Spectrum LSF          | Flow status is not always updated in Jobs > Jobs > By State.                                                                                                                                                                                                                                                                                                                                                                                               |
| Application Center, Starting points and      | Web Flow Editor in IBM Spectrum LSF Application Center, Starting points and submission forms                                                                                                                                                                                                                                                                                                                                                                 |
| 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          | Web Flow Editor in IBM Spectrum LSF Application Center, Submission forms in flow definitions                                                                                                                                                                                                                                                                                                                                                           |
| Application Center, Submission forms in flow | 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.                                                                                                                                                                                                                                                                                        |
| definitions                                    | Web Flow Editor in IBM Spectrum LSF Application Center, Opening a draft flow                                                                                                                                                                                                                                                                                                                                                                                  |
| Users are incorrectly allowed to open the    | Users are incorrectly allowed to open the same flow draft from different Flow Editor windows.                                                                                                                                                                                                                                                                                                                                                           |
| same flow draft from different Flow Editor    | Windows.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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