



jBPM - Enhanced Process Instance Log Views

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<https://issues.jboss.org/browse/JBPM-6764>

Overview

- Target persona: (Process) Administrators - rather than targeting both business and admin users.
- Basic use case:
 - Support the ability to review the process history for tracking purposes.
 - Provide the capability to see event details for troubleshooting.

Design Objectives

1. Combine task/node/human/system data in a shared chronological ordering of events - assumption is that users would find it more intuitive to see all the information in the same place, sorted chronologically. They could navigate to a more detailed view if necessary."
2. Maintain support to allow user to view human tasks, versus system tasks. Add ability to view additional event types, for example, timers, conditionals, errors, signals, etc.
3. Extend design to allow more log data to be presented, while focusing on key values.
4. Enhance the process instance logs by adding a little bit more of information that could be useful to the users. The following data is available:
 - ID: NodeInstance.id or TaskEventInstance.id
 - Date: NodeInstance.date or TaskEventInstance.logTime
 - Type: NodeInstance.nodeType or TaskEventInstance.type
 - Content: NodeInstance.name or TaskEventInstance.message
 - Task ID: empty or TaskEventInstance.taskId
 - User ID: empty or TaskEventInstance.userId
 - Completed NodeInstance.completed or empty [State?]
5. Present as full page screen to support revised Master/Detail experience.

Examples (before)

Process instance logs - business view

The screenshot shows a web interface for process instance logs. At the top, there's a header with a dropdown menu, a search icon, and a close icon. The main title is "9 - documents". To the right, there are "Options", a refresh icon, and another search icon. Below the title, there are tabs for "Instance Details", "Process Variables", "Documents", and "Logs", with "Logs" being the active tab. Under the "Logs" tab, there are sub-tabs for "Business" (selected), "Technical", "Asc", and "Desc". The log entries are:

- 17 minutes ago: Process 'documents' was created
- 17 minutes ago: Task 'view' was created
- 17 minutes ago: Process 'documents' was created

On the left side, there is a sidebar with a search input, a "Actions" dropdown, and a list of items.

Process instance logs -technical view

The screenshot shows the same web interface as above, but with the "Technical" sub-tab selected. The log entries are:

- 35 minutes ago: (StartNode) - Human
- 35 minutes ago: view(HumanTaskNode) - System
- 35 minutes ago: (StartNode) - Human

The sidebar on the left is identical to the previous screenshot.

Design Proposal

The screenshot shows a web interface for viewing process logs. The breadcrumb navigation is 'Home > Process Instance List >> Process Instance ID:9'. The page title is 'Process Instance ID: 9'. There are tabs for 'Process Instance Details', 'Process Variables', 'Documents', 'Process Logs' (selected), and 'Process Model'. A 'Filter by' section on the left has 'Node Types' (Human Tasks checked, System Tasks unchecked, Events unchecked) and 'Event Types' (Node Entered checked, Node Completed checked). A 'Reset Defaults' button is below. The main 'Process Logs' area shows a vertical timeline of events:

- 4 seconds ago: [Task Type] "Name" (tech/human) node was "ACTION LOGGED." (Callout 1)
- 4 seconds ago: Task "Loans" (human) node was COMPLETED. (Callout 2)
- 35 seconds ago: Task "SubformTest" (human) node was ENTERED. (Callout 4)
- 10 minutes ago: Task "SubformTest" (human) node was ENTERED. (Callout 3)
- 50 minutes ago: Task "Loan" (human) node was ENTERED.

 A detailed view for the 10 minutes ago event shows:

- Timestamp: 2018-01-05T11:52:25
- ID: 01200000
- Task ID: Empty
- UserID: TaskEventInstance.userid
- Content: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean euismod bibendum laoreet. Proin gravida dolor sit amet lacus accumsan et viverra justo commodo. Proin sodales pulvinar sic tempor. Sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam fermentum, nulla luctus pharetra vulputate, felis tellus mollis orci, sed rhoncus.

 A 'LOAD MORE' button is at the bottom.

1. Combine task/node/human/system data in a shared chronological ordering of events.
2. Maintain support to allow user to view human tasks, versus system tasks. Add ability to view additional event types, for example, timers, conditionals, errors, signals, etc.
3. Extend design to allow more log data to be presented, while focusing on key values.
4. Revise layout for full screen view. Support page scrolling - preload a certain # (~100) events while offering a "Load More" button to allow the user to load more events on demand.

Interactions/Behavior

- Pre-filter to show all events for all types, as the "default" view. * For the higher level Manage section we pre-filter the views based on common use case knowledge.
- Cap "pre-loaded" number of results to ~50 or 100..., any reasonable value that will not impact performance. The "Load More" button is used to load the next set of data using the same increment.
- Using the "Reset Defaults" will revert the filters to the all-selected defaults state.
- (Optional) Provide info tips to describe filter terms.