

Meeting customers needs – workflow possibilities in Jira

Paweł Chumski, Application Developer, BAS/R&D Fujitsu T.S.

Client's requests

- How to automate transitions?
- How to restrict transitions?
- How to block transitions for some conditions?
- How to block transitions for some users/roles?
- How to perform some action related with transitions?
- How to proceed with all of them?

How to automate transitions?

To automate transitions in Jira, we usually use TRIGGERS.

They are executed from external sources, such as BITBUCKET, FISHEYE, GIT or many others tools, which could be used to push some issue to other status.

Example: git commits

How to restrict transitions?

To restrict transition for some users, or other conditions we use CONDITIONS.

To add Condition to some transition, enter workflow editor and particular transition

The screenshot shows a workflow editor interface. At the top, it displays 'Workflows / PM&D Solution Story Workflow (Draft)' and 'Transition: Resolve'. There are three buttons: 'Edit', 'View Properties', and 'Delete'. Below this is a workflow diagram showing a transition from 'IN PROGRESS' to 'CLOSED' labeled 'Resolve'. Underneath the diagram, it says 'Screen: PM&D Solution Story Screen'. A red circle highlights the 'Conditions' tab, which is currently set to 0. Other tabs include 'Triggers' (0), 'Validators' (1), and 'Post Functions' (5). Below the tabs, it says 'There are no conditions on this transition.' and there is an 'Add condition' button.

You can find there Tab with Conditions.

There You can choose from available ones:

Add Condition To Transition

Name	Description
<input type="radio"/> Code Committed Condition	Transition to execute only if code has/has not (depending on configuration) been committed against this issue.
<input type="radio"/> Hide transition from user	Condition to hide a transition from the user. The transition can only be triggered from a workflow function.
<input type="radio"/> No Open Reviews Condition	Transition to execute only if there are no related open Crucible reviews.
<input type="radio"/> Only Assignee Condition	Condition to allow only the assignee to execute a transition.
<input type="radio"/> Only Reporter Condition	Condition to allow only the reporter to execute a transition.
<input type="radio"/> Permission Condition	Condition to allow only users with a certain permission to execute a transition.
<input type="radio"/> Sub-Task Blocking Condition	Condition to block parent issue transition depending on sub-task status.
<input type="radio"/> Unreviewed Code Condition	Transition to execute only if there are no unreviewed changesets related to this issue.
<input type="radio"/> User Is In Group	Condition to allow only users in a given group to execute a transition.
<input type="radio"/> User Is In Group Custom Field	Condition to allow only users in a custom field-specified group to execute a transition.
<input type="radio"/> User Is In Project Role	Condition to allow only users in a given project role to execute a transition.

Add Cancel


How to validate transitions?

To validate transitions for particular, established situations we use VALIDATORS. They are reviewing if all circumstances are met and if transitions can be done.

- To add VALIDATORS to some transition, enter workflow editor and particular transition

Workflows / PM&D Solution Story Workflow (Draft)

Transition: Resolve Edit View Properties Delete



Screen: PM&D Solution Story Screen

Triggers 0 **Conditions 0** **Validators 1** Post Functions 5

There are no conditions on this transition.

Add condition

- You can find there Tab with VALIDATORS.

Add Validator To Transition

Name	Description
<input checked="" type="checkbox"/> Date Compare (JSU)	Compare two date fields during a workflow transition.
<input type="checkbox"/> Date Expression Compare (JSU)	Compares a date field to a date expression during a workflow transition.
<input type="checkbox"/> Date Window (JSU)	Compares two date fields, by adding a time span in days to one of them.
<input type="checkbox"/> Fields Required (JSU)	Fields required during a workflow transition.
<input type="checkbox"/> Linked Status (JSU)	Verifies that all linked issues have a certain status.
<input type="checkbox"/> Permission Validator	Validates that the user has a permission.
<input type="checkbox"/> Regular Expression Check (JSU)	Validate field contents against a regular expression during a workflow transition.
<input type="checkbox"/> User Permission Validator	Validates that the user has a permission, where the OSWorkflow variable holding the username is configurable. Obsolete.

Add

Cancel


How to perform some actions related with transitions?

POST FUNCTIONS are actions executed just after issue gets to the target status in particular transition.

- To add POST FUNCTIONS to some transition, enter workflow editor and particular transition

Workflows / PM&D Solution Story Workflow (Draft)

Transition: Resolve Edit View Properties Delete



Screen: PM&D Solution Story Screen

Triggers 0 Conditions 0 Validators 1 **Post Functions 5**

There are no conditions on this transition.

Add condition

- You can find there POST FUNCTIONS Tab.

POST FUNCTIONS

Add Post Function To Transition

Name	Description
<input type="radio"/> Assign to Current User	Assigns the issue to the current user if the current user has the 'Assignable User' permission.
<input type="radio"/> Assign to Lead Developer	Assigns the issue to the project/component lead developer
<input type="radio"/> Assign to Reporter	Assigns the issue to the reporter
<input type="radio"/> Create Perforce Job Function	Creates a Perforce Job (if required) after completing the workflow transition.
<input type="radio"/> Notify HipChat	Send a notification to one or more HipChat rooms.
<input type="radio"/> Trigger a Webhook	If this post-function is executed, Jira will post the issue content in JSON format to the URL specified.
<input type="radio"/> Update Issue Field	Updates a simple issue field to a given value.

Add Cancel

How to proceed with all of them?

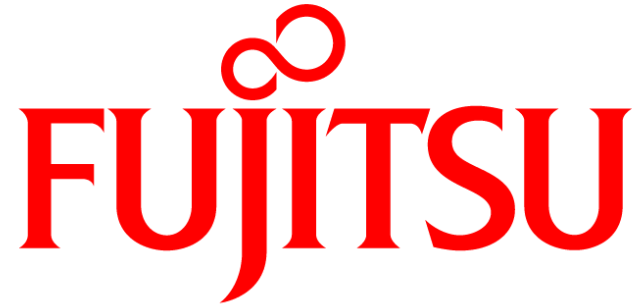
How to know which elements where to put?

How to proceed with all of them?

- REMEMBER – Understand customer's needs
 - Less is more
 - Hint:
 - VALIDATORS and CONDITIONS check if transition is allowed to be launched, but POST FUNCTION is launched at the end of transition itself.
- Example: You can not check with VALIDATORS required fields, which are filled with POST FUNCTION in the same transition.

Thank you for attention

Enjoy the rest of this great conference 😊



shaping tomorrow with you