

How to add or remove Events from a Job Stream

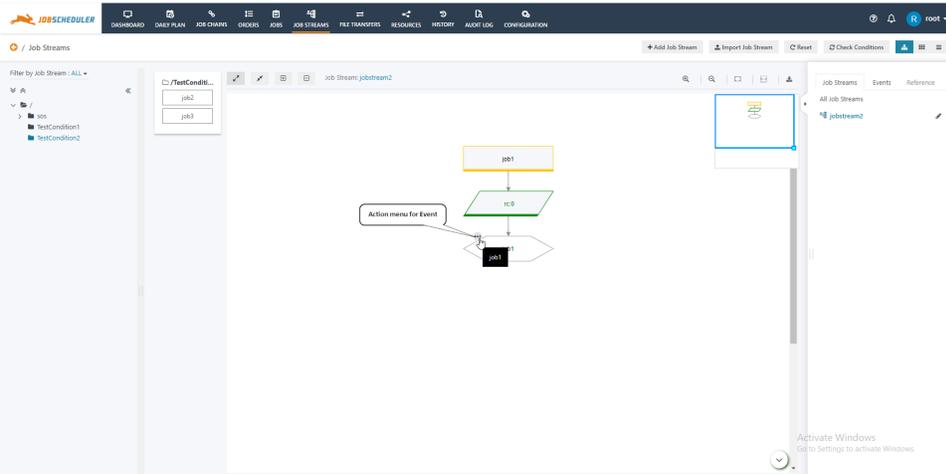
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Scope

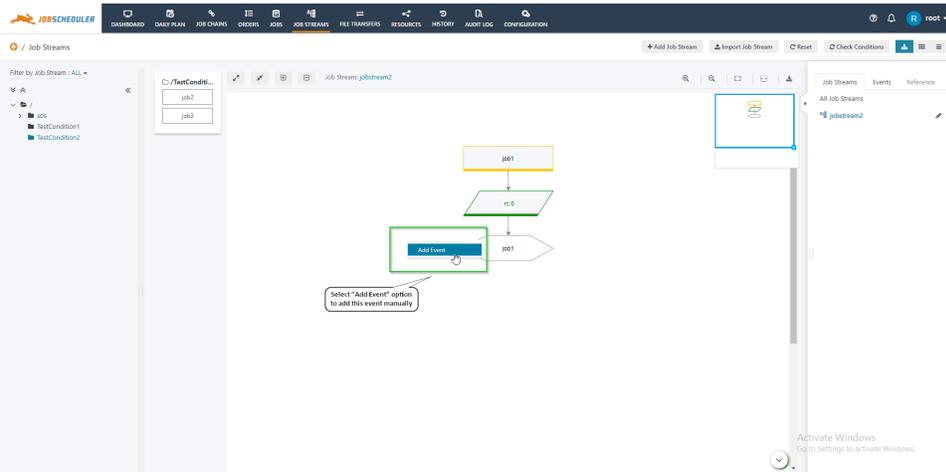
Events for *In Conditions* are created or deleted from Job Streams depending on the result of a previous *Out Condition*. Alternatively, *Events* can be manually created or deleted by use of the JOC Cockpit user interface. Follow the steps to create or delete an *Event*.

Steps to add or remove an Event

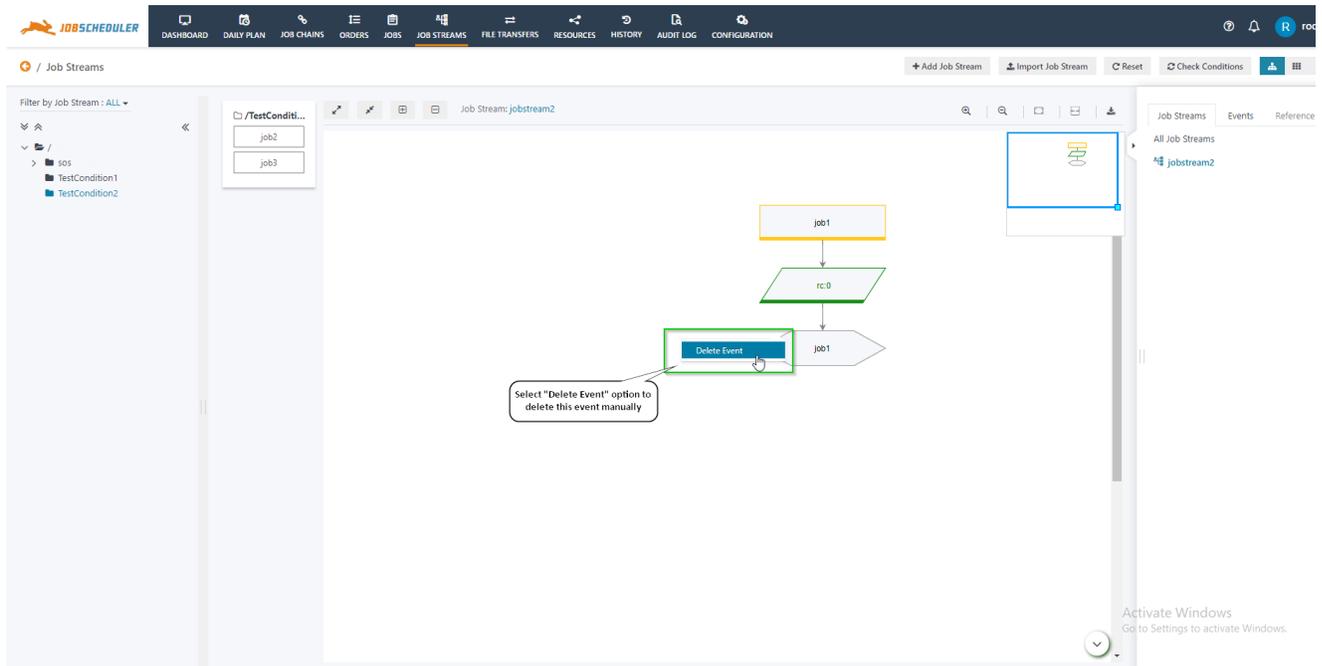
- Login to JOC Cockpit and switch to the *Job Streams* tab.
- Select the graphical view of the Job Stream.
- *Events* are represented by a hexagon. If any *Out Condition* is added to a job to create an *Event* then it will be displayed in the Job Streams diagram.
- The *Events* in the Job Stream provide an action menu item to *Add Event* or *Delete Event*.



- The hexagon action menu offers the option *Add Event* if the *Event* does not exist.



- The action menu offers the option *Delete Event* if the Event already exists.



Use-Cases

The *Add Event* and *Delete Event* operations have their own use cases. The *Add Event* and *Delete Event* operations can be used to explicitly *trigger the start of the Job Stream* or to stop the execution of a Job Stream.

Use Case 1: Add an Event

- To execute the further jobs in the Job Stream with the *In Condition* as the event created by the previously failed job then event of the failed job can be added manually to make the expression result *true* for the *In Condition* of further jobs in Job Stream.
- If a job in a Job Stream fails and will therefore not create an event in its *Out Condition* then the Job Stream will be disrupted as subsequent jobs might wait for this event in their *In Conditions*. In this situation a user might want to manually add an event in order to force the Job Stream to continue. The manually added event will automatically be evaluated and if the expressions in *In Conditions* now evaluate to *true* then the respective jobs will start.
- For example:
 - There are two jobs in a Job Stream, job1, and job2 with the following conditions:

S. No.	Job Name	Condition	Expression	Command
1.	job1	In Condition	-	-
		Out Condition	rc:0	job1
2.	job2	In Condition	job1	startjob: now
		Out Condition	rc:0	job2

- For any reason, if job1 is failed then the event *job1* will not be created and further execution of the Job Stream will stop.
- Therefore, to continue further execution of the Job Stream the event can be added manually without repeatedly executing job1.
- The newly added event will be automatically evaluated by a JOC Cockpit background process, typically every few minutes. To speed up this cycle you can use the *Check Conditions* button in the Job Streams view that will force immediate evaluation of all conditions in all Job Streams.

Use Case 2: Delete an Event

- To stop execution of a Job Stream you can force the result of an expression in the *In Conditions* to become *false*. To this purpose delete the events from the Job Stream that are expected by the *In Conditions*.
- For example
 - There are two jobs in a Job Stream, job1, and job2 with the following conditions:

S. No.	Job Name	Condition	Expression	Command	Mark Expression
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1.	job1	In Condition	-	-	
		Out Condition	rc:0	job1	
2.	job2	In Condition	job1	startjob: now	unchecked
		Out Condition	rc:0	job2	

- The event *job1* is created after successful execution of job1.
- The *Mark Expression* for job2 is unchecked which means that the job will continue to be running until the result of the expression in the *In Condition* is *false*.
- Therefore, to stop further execution of the Job Stream the event can be removed manually using the *Delete Event* option from the events' action menu.

Settings

The screenshot shows the 'User Profile' settings page in JobScheduler. The 'Show Job Stream Events' checkbox is checked and highlighted with a green box. A callout bubble points to it with the text: "Enable this checkbox to see the events in all the job streams". Other settings include Max. number of Audit Log entries per object (10), Max. number of Order Overview History entries per Order (10), Max. number of entries per page (1000), Default number of entries per page (10), Change Theme (Light), Menu Bar Color (Default), Theme Title, Show Logs (New Window), Show Documentation (New Tab), Default History Tab (Order History), Show Sub-folders and folder contents (Folder contents), Show Tasks immediately in views (checked), Show Orders immediately in views (unchecked), Show Files immediately in File Transfers view (unchecked), Enable Reasons for Audit Log (unchecked), Show View (As List), Show History for JobScheduler (Current), Show Audit Log for JobScheduler (Current), Show Agent Job Executions for JobScheduler (Current), and Show File Transfers for JobScheduler ID (Current). The user profile is identified as 'root'.

To see the events in all the jobs streams, enable the *Show Job Stream Events*:

1. go to profile
2. click on the checkbox