

# Restarting SAP Workflows

Created by Guest, last modified by Javier Otero on Jul 18, 2011

Certain times we might need to restart workflows for various reasons. In SAP, we can restart the workflows as below:-

- (1) Restarting the workflow which is in error
- (2) Restarting the workflow which is not in error

This link will explain how to restart a workflow in above scenarios:-

**(1) Restarting the workflow which is in error:-**

A workflow which is in error, can be restarted via the standard transaction SWPR. In this method, the same workflow gets restarted and no new workflow is generated. The workflow gets restarted from the point where it was stucked.

Go to transaction SWPR and the following screen will come:-

Here enter your workflow work item ID, if you want to restart a particular workflow, otherwise you can also select based on time interval. If option "Restart Immediately" is selected, then all the workflows matching your selection screen will get restarted as soon as you execute this screen.

After executing, below kind of screen will appear showing the workflows corresponding to your selection:-

ID	Flag	Text	Status	Creation Date	Creation time
794136		Travel and Expense Workflow for Trip 10430C	ERROR	2011/01/04	11:13:44
794140		Travel and Expense Workflow for Trip 10430C	ERROR	2011/01/04	11:18:37
794152		Travel and Expense Workflow for Trip 10430C	ERROR	2011/01/04	11:23:12
794164		Travel and Expense Workflow for Trip 10430C	ERROR	2011/01/04	11:32:00
794173		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	12:05:05
794179		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	12:32:35
794183		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	13:12:50
794185		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	13:29:47
794194		Notification Mail for 1005000895 of 9000025C	ERROR	2011/01/04	14:05:36

Here you need to select the lines containing your workflows, and then click on button "Restart Workflow".

Following message will come at the bottom of the screen about restart status:-



And the flag goes green for the workflows restarted:-

ID	Flag	Text	Status	Creation Date	Creation time
794136	✓	Travel and Expense Workflow for Trip 10430C	STARTED	2011/01/04	11:13:44
794140	✓	Travel and Expense Workflow for Trip 10430C	STARTED	2011/01/04	11:18:37
794152		Travel and Expense Workflow for Trip 10430C	ERROR	2011/01/04	11:23:12
794164		Travel and Expense Workflow for Trip 10430C	ERROR	2011/01/04	11:32:00
794173		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	12:05:05
794179		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	12:32:35
794183		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	13:12:50
794185		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	13:29:47
794194		Notification Mail for 1005000895 of 9000025C	ERROR	2011/01/04	14:05:36
794201		Notification Mail for 1005000896 of 9000025C	ERROR	2011/01/04	14:07:52
794202		Travel and Expense Workflow for Trip 10050C	ERROR	2011/01/04	14:07:52
794207		Notification Mail for 1005000896 of 9000025C	ERROR	2011/01/04	14:10:17

**(2) Restarting the workflow which is NOT in error:-**

A workflow which is not in error, can not be restarted via the standard transaction SWPR. For this case, a new workflow needed to be generated with reference to the old workflow and old workflow needed to be deleted logically.

For example if you want to restart the below workflow which is not in error:-

**Workflow Log (View With Technical Details)**

Workflow: travel and expenses  
 Workflow Instance: Travel and Expense Workflow for Trip 1020000111 of 00334364  
 Instance number: 000000810152  
 Start date: 2011/06/24 Started by: Workflow  
 Start time: 09:16:16 Current status: In Process  
 View: Workflow chronicle

Error	Agent	St	ID	Step Task	Date	Time	Result
			810152	1 Travel and Expense Workflow for Trip 1020000..			Workflow started
			810153	4 wait for event - change			Change event triggered
			810155	1255 Get trip line item details			
			810156	8 check travel request status			no ( to proceed with approval)
			810157	1090 Please approve Trip 1020000111 of FIRPAR TR..			Mail sent
			810158	793 deadline date determination			
			810158	188 Approve Trip No. 1020000111 for Employee FI..			

For this you need to do below two steps:-

**Step 1:-**

Go to transaction SWUS\_WITH\_REFERENCE and give the workflow instance (ID) and execute:- (You can enter the user name also which you want to display for workflow restart)

**Start Workflow with Reference (Debugging)**

Workflow: 000000810152  
 Background Processing Active  
 User:   
 Language Key: EN  
 Debug Mode: 0 No Debugging (TRFC)  
 Trace Level: 0 Trace off

After execution below message will come on the screen:-

Task started under work item ID 000000812332 (current status: In Process)

You can check this new workflow created:-

**Workflow Log (View With Technical Details)**

Workflow: travel and expenses  
 Workflow Instance: Travel and Expense Workflow for Trip 1020000111 of 00334364  
 Instance number: 000000812332  
 Start date: 2011/07/15 Started by: AGGARWAL GAURAV  
 Start time: 06:24:06 Current status: In Process  
 View: Workflow chronicle

Error	Agent	St	ID	Step Task	Date	Time	Result
			812332	1 Travel and Expense Workflow for Trip 1020000..			Workflow started
			812333	4 wait for event - change			

*(Please note that this new workflow also might need certain action to proceed, e.g. in a travel and expense workflow, the new workflow needed to be reapproved in transaction PRAP by AP clerk.)*

**Step 2:-**

Even the new workflow has been created, but the old workflow is still in the same status, so you need to logically delete the old workflow. You can do it via two ways:-

**Method 1:-**

Execute function module SWW\_WI\_ADMIN\_CANCEL in transaction SE37:-

**Test Function Module: Initial Screen**

Test for function group: SWW\_ADM  
 Function module: SWW\_WI\_ADMIN\_CANCEL  
 Uppercase/Lowercase  
 RFC target sys:

Import parameters	Value
WI_ID	000000810152
DO_COMMIT	X
AUTHORIZATION_CHECKED	
PRECONDITIONS_CHECKED	
CALLED_BY_PROXY	

Here give the workflow instance (ID) of old workflow and execute. And the new status will come as status in the execution output:-

Export parameters	Value
NEW_STATUS	CANCELLED

Check the workflow logs of the old workflow, which will now show the status "Logically Deleted":-

**Workflow Log (View With Technical Details)**

Workflow: travel and expenses  
 Workflow instance: Travel and Expense Workflow for Trip 1020000111 of 00334364  
 Instance number: 00000810152  
 Start date: 2011/06/24 Started by: Workflow  
 Start time: 09:16:16 Current status: **Logically Deleted**

View: Workflow chronicle

Error	St	ID	Step Task	Result
Error Agent	Executed Action	Date	Time	Object
		810152	1 Travel and Expense Workflow for Trip 1020000	Workflow started
		810153	4 wait for event - change	Change event triggered
		810155	1255 Get trip line item details	
		810156	8 check travel request status	no ( to proceed with approval)
		810156	1090 Please approve Trip 1020000111 of FIRPAR TR.	Mail sent
		810157	793 deadline date determination	
		810158	188 Approve Trip No. 1020000111 for Employee FI.	

**Method 2:-**

Go to transaction SWI1, enter workflow instance (ID) of old workflow and execute:-

**Selection Report for Work Items**

Selection Using Work Item ID  
 Identification: 810152 to

Selection Using Work Item Properties  
 Type: to  
 Status: to  
 Priority: to  
 Deadline Status: to  
 Task: to  
 Task Group: to  
 Top-Level Workitems Only

Selection Using Time Period  
 Creation Date: 2011/07/15 to  
 Creation Time: 05:34:04 to 23:59:59

Output Options (+Version, +Administrator)  
 Switch On

In the output, select your work item line and click on log button:-

**Work Item Selection (1 Entry)**

ID	Language	Work Item Text
810152 (Sub)workflow	English	Travel and Expense Workflow for Trip 1020000111 of 00334364

In the logs, double click on the first line in workflow logs:-

**Workflow Log (View With Technical Details)**

Workflow: travel and expenses  
 Workflow instance: Travel and Expense Workflow for Trip 1020000111 of 00334364  
 Instance number: 00000810152  
 Start date: 2011/06/24 Started by: Workflow  
 Start time: 09:16:16 Current status: In Process

View: Workflow chronicle

Error	St	ID	Step Task	Result
Error Agent	Executed Action	Date	Time	Object
		810152	1 Travel and Expense Workflow for Trip 1020000	Workflow started
		810153	4 wait for event - change	Change event triggered
		810155	1255 Get trip line item details	
		810156	8 check travel request status	no ( to proceed with approval)
		810156	1090 Please approve Trip 1020000111 of FIRPAR TR.	Mail sent
		810157	793 deadline date determination	
		810158	188 Approve Trip No. 1020000111 for Employee FI.	

Then on the next screen, click on Change option in Edit menu:-

Work item information

ID: 00000810158  
 Title: Approve Trip No. 1020000111 for Employee TRAVELER TRAVEL

Processing end by user confirmation  
 Processing completion by event

Menu: Work item Edit Goto Extras Settings System Help  
 Change (Ctrl+Shift+F3)  
 Cancel (F12)

On the next screen, click on "Execute" button for "Logically Delete" option:-

The screenshot shows the 'Display work item' interface. On the left, a list of actions is available, with 'Logically Delete' highlighted in green. The right pane shows work item details: ID: 000000810152, Type: (Sub)workflow, Title: Travel and Expense Workflow for Trip 1020000111 of 00334364, Status: In Process, Priority: 5 5 Medium. The 'Deadline Data' section shows Creation: 2011/06/24 09:16:16 and Start: 2011/06/24 09:16:17. The description is 'No description'.

Below pop-up will appear, confirm it:-

The dialog box asks 'Logically delete work item?' and provides 'Delete' and 'Cancel' options. The 'Delete' button is highlighted in green.

The work flow gets deleted:-

The screenshot shows the 'Display work item' screen after the workflow has been logically deleted. The 'Status' field is now 'Logically Deleted', which is highlighted with a green box.

Check the old work flow logs, which will now show the status "Logically Deleted":-

The screenshot shows the 'Workflow Log (View With Technical Details)' for a workflow instance. The 'Current status' is 'Logically Deleted', highlighted in green. Below is a table of workflow steps:

Error	Agent	St	ID	Step Task	Result
				Executed Action	Date Time Object
			810152	1 Travel and Expense Workflow for Trip 1020000	Workflow started
			810153	4 wait for event - change	Change event triggered
			810155	1255 Get trip line item details	
			8	check travel request status	no ( to proceed with approval)
			810156	1090 Please approve Trip 1020000111 of FIRPAR TR. Mail sent	
			810157	793 deadline date determination	
			810158	188 Approve Trip No. 1020000111 for Employee FI-	

[workflow](#) [restart](#) [swpr](#) [swus\\_with\\_reference](#) [logically](#) [delete](#)

## 1 Comment

Guest

Very usefull information about the workflow analysis, especially for functional consultants.

Thanks for the detailed information.

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