

SAP Batch Job Process – A quick look

Project Implementation team

Contact us at BDM@101ERPTEAM.COM to know more about our ERP Implementation services.

Property of 101ERPTEAM.com a division of SimpBiz Software Solutions Inc. Transmission or reproduction in any format without prior permission is strictly prohibited. The contents of this document are entirely developed within our organization, we are not associated with SAP AG or any other SAP organizations. SimpBiz is not in any way affiliated or partnered with SAP AG, SAP America or Oracle. All other names, brands, logos, etc. are registered trade or service marks of their respective owners.

We execute transactions or run standard programs or custom programs to get something done in SAP. We keep doing this often. Now we cannot be running and executing programs or transactions all the time. There is a way to automate this process. Let's take two examples and see if we can understand this better,

Example 1:

We create/change material masters in SAP and sometimes this master data needs to be interfaced to a third party or other internal SAP or non-SAP systems. So that the master data in SAP and other systems are in sync. In order to do this manually, we may need to go to SE38 transaction and execute a program RCCLMDAT and this will trigger the message to the third party system (Now there are several configuration and master data setups that needs to be done before a successful message being created). Now in this example, it's Ok to send once or twice and we can run the program manually but for tons of messages to be sent and to do it in near-real time it's impossible to it manually from productivity stand point.

Example 2:

Let's assume there is a requirement from your business to create a report in some finance module or sales module and that report needs to be executed several times a day and the report be emailed to the business directly. In this case, we may typically create a custom ABAP program in SAP. Once the ABAP program is created then we can run it manually and email the report to the business. But again, running this often manually is not productive.

Need of a batch job process:

In the above to examples, the better idea is to automatically schedule and run the transactions or programs. Scheduling & managing batch jobs can be handled in SAP CCMS (SM37/SM36 transactions).

Most of the clients use third party tools such as Tivoli, Autosys etc, there are tons of them for better management as CCMS in SAP does not provide interactive way of handling the batch jobs such as monitoring them and reporting in real time to the support team. Lets' focus on CCMS, which is a very handy tool for Functional & Technical consultants, specifically in ECC area.

Contact us at BDM@101ERPTEAM.COM to know more about our ERP Implementation services.

Property of 101ERPTEAM.com a division of SimpBiz Software Solutions Inc. Transmission or reproduction in any format without prior permission is strictly prohibited. The contents of this document are entirely developed within our organization, we are not associated with SAP AG or any other SAP organizations. SimpBiz is not in any way affiliated or partnered with SAP AG, SAP America or Oracle. All other names, brands, logos, etc. are registered trade or service marks of their respective owners.

Create a simple CCMS job:

In this section we will see how to create a simple batch job and schedule it to run every 1 minute interval.

Go to transaction SM36 & give a job name to start with : TEST_JOB

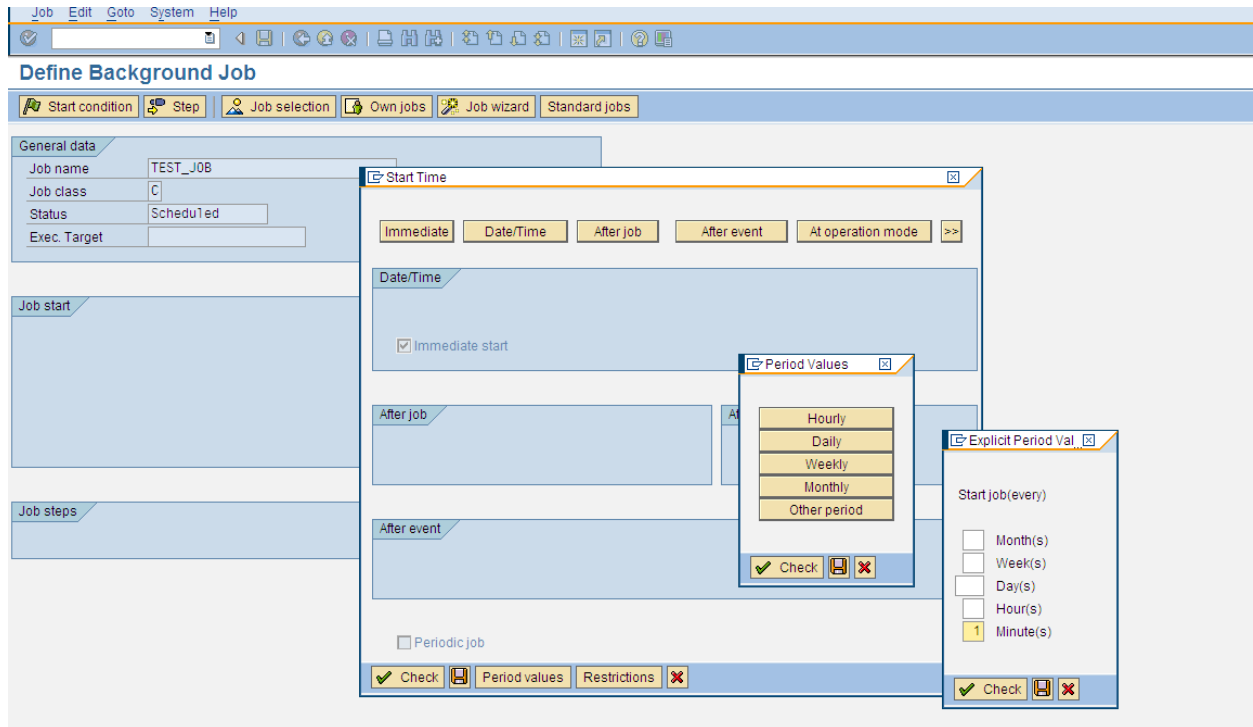
The screenshot displays the SAP SM36 transaction interface for defining a background job. The title bar reads 'Job Edit Goto System Help'. The main window title is 'Define Background Job'. Below the title bar, there are several tabs: 'Start condition', 'Step', 'Job selection', 'Own jobs', 'Job wizard', and 'Standard jobs'. The 'Job selection' tab is active. The 'General data' section contains the following fields: 'Job name' (TEST_JOB), 'Job class' (C), 'Status' (Scheduled), and 'Exec. Target' (empty). A 'Spool list recipient' button is located to the right of the 'Exec. Target' field. Below the 'General data' section, there are two empty sections: 'Job start' and 'Job frequency'. At the bottom, there is an empty 'Job steps' section. A large, light gray watermark 'WWW.101ERPTEAM.COM' is visible diagonally across the lower half of the page.

Contact us at BDM@101ERPTEAM.COM to know more about our ERP Implementation services.

Property of 101ERPTEAM.com a division of SimpBiz Software Solutions Inc. Transmission or reproduction in any format without prior permission is strictly prohibited. The contents of this document are entirely developed within our organization, we are not associated with SAP AG or any other SAP organizations. SimpBiz is not in any way affiliated or partnered with SAP AG, SAP America or Oracle. All other names, brands, logos, etc. are registered trade or service marks of their respective owners.

Now, click on **Start Condition** button, then click on **Immediate**, then click on **Period Values** and then click on **Other period** & set your value to be **1**, this is the time interval for the job to run.

Now click on **SAVE**, as many ever times required and come back to main screen,



Contact us at BDM@101ERPTEAM.COM to know more about our ERP Implementation services.

Property of 101ERPTEAM.com a division of SimpBiz Software Solutions Inc. Transmission or reproduction in any format without prior permission is strictly prohibited. The contents of this document are entirely developed within our organization, we are not associated with SAP AG or any other SAP organizations. SimpBiz is not in any way affiliated or partnered with SAP AG, SAP America or Oracle. All other names, brands, logos, etc. are registered trade or service marks of their respective owners.

Now click on **STEP** button on main screen, SAP will take you to a different screen, where you can input your program name, user id to use to run the job.

Now click on **SAVE**.

The screenshot displays the SAP 'Define Background Job' transaction. The main window is titled 'Define Background Job' and contains several tabs: 'Start condition', 'Step', 'Job selection', 'Own jobs', and 'Job w...'. The 'Step' tab is active, showing a 'Create Step 1' dialog box. The dialog box has a title bar 'Create Step 1' and a close button. It contains the following fields and sections:

- User:** TESTTEST
- Program values:**
 - Buttons: ABAP program, External command, External program
 - ABAP program:**
 - Name: RCCLMDAT
 - Variant: TEST
 - Language: EN
 - External command (command pre-defined by system administrator):**
 - Name: [empty]
 - Parameters: [empty]
 - Operating sys.: [empty]
 - Target server: [empty]
 - External program (direct command input by system administrator):**
 - Name: [empty]
 - Parameter: [empty]
 - Target host: [empty]
- Buttons:** Check, Print specifications, Close

The background window shows 'General data' with Job name: TEST_JOB, Job class: C, Status: Scheduled, and Exec. Target: [empty]. It also shows 'Job start' with 'Date/Time' and 'Job frequency' (Every minute) and 'Job steps'.

Contact us at BDM@101ERPTEAM.COM to know more about our ERP Implementation services.

Property of 101ERPTEAM.com a division of SimpBiz Software Solutions Inc. Transmission or reproduction in any format without prior permission is strictly prohibited. The contents of this document are entirely developed within our organization, we are not associated with SAP AG or any other SAP organizations. SimpBiz is not in any way affiliated or partnered with SAP AG, SAP America or Oracle. All other names, brands, logos, etc. are registered trade or service marks of their respective owners.

Now go back to SM36 main screen and click on SAVE button, Do not go back multiple times.

The screenshot shows the SAP 'Define Background Job' configuration screen. The 'General data' section includes fields for 'Job name' (TEST_JOB), 'Job class' (C), 'Status' (Scheduled), and 'Exec. Target'. A 'Spool list recipient' button is present. The 'Job start' section has a 'Date/Time' field and a checked 'Immediate Start' checkbox. The 'Job frequency' section is set to 'Every minute'. The 'Job steps' section shows '1 Step(s) successfully defined'. The interface includes a top toolbar with icons for Start condition, Step, Job selection, Own jobs, Job wizard, and Standard jobs.

At the bottom you should see

The screenshot shows the SAP status bar at the bottom of the screen. It contains a green checkmark icon followed by the text: 'Job TEST_JOB saved with status: Released'.

Contact us at BDM@101ERPTEAM.COM to know more about our ERP Implementation services.

Property of 101ERPTEAM.com a division of SimpBiz Software Solutions Inc. Transmission or reproduction in any format without prior permission is strictly prohibited. The contents of this document are entirely developed within our organization, we are not associated with SAP AG or any other SAP organizations. SimpBiz is not in any way affiliated or partnered with SAP AG, SAP America or Oracle. All other names, brands, logos, etc. are registered trade or service marks of their respective owners.

Your job is successfully scheduled, now to see if its running properly, go to SM37 transaction code and enter necessary parameters to find your job.

If the job is running successfully then, you will see GREEN color status and if it fails to run for some reason, then it will be in RED. In this example , its RED, because something is not right.

Selected job names: TEST_JOB
 Selected user names: *

Scheduled Released Ready Active Finished Canceled
 Event controlled Event ID:
 ABAP program Program name : RCCLMDAT

Job	Spool	Job Doc	Status	Start time	Duration(sec.)	Delay (sec.)
<input checked="" type="checkbox"/> TEST_JOB			Cancelled	13:07:02	0	28
<input type="checkbox"/> TEST_JOB			Cancelled	13:05:35	0	1
<input type="checkbox"/> TEST_JOB			Cancelled	13:04:43	0	9
<input type="checkbox"/> TEST_JOB			Cancelled	13:03:35	0	1
<input type="checkbox"/> TEST_JOB			Cancelled	13:02:34	1	0
*Summary					1	39

You also note that this job was running every 1 minute. To see why it is cancelled, you can choose the job and click on Job log on the top to see what the log says.

Contact us at BDM@101ERPTEAM.COM to know more about our ERP Implementation services.

Property of 101ERPTEAM.com a division of SimpBiz Software Solutions Inc. Transmission or reproduction in any format without prior permission is strictly prohibited. The contents of this document are entirely developed within our organization, we are not associated with SAP AG or any other SAP organizations. SimpBiz is not in any way affiliated or partnered with SAP AG, SAP America or Oracle. All other names, brands, logos, etc. are registered trade or service marks of their respective owners.