

How to Split Quartz Scheduling for 6.7 Publishing Hubs



Introduction

The purpose of this document is to outline the steps necessary for splitting out the Quartz Scheduling tables for 6.7 Publishing Hubs. This is necessary for CM System version 6.7 if you use one or many Publishing Hubs due to the fact that Quartz 1 didn't have the ability to know which server was going to run the scheduled task. So if a task was scheduled for Server A but Server B checked for any outstanding tasks first, it would find Server A's task and then not run it because it wasn't meant for Server B. And once a task is checked, it doesn't go back to the server that should run it. Quartz 2.0 solves this problem with its cluster aware feature, which is now included in version 7.0.3.

Assumptions

You are familiar with the command line, have access and administrator privileges on the filesystem for the Publishing Hub(s), have administrator privileges to create tables in the database, and are familiar with database DDL for your particular RDBMS.

NOTE: Make sure CM System is not running before you start this procedure.

Steps to Implement

Step 1: Shutdown CM System.....	2
Step 2: Clone Existing Quartz Tables with New Table Prefix	2
Step 3: Modify beans.xml with New Table Prefix.....	2
Step 4: Startup CM System and Test.....	2
Contact Us.....	3
Worldwide Headquarters	3
European Headquarters.....	3
Sales Information	3
Contact Technical Support.....	3
North America.....	3
Europe.....	3

Step 1: Shutdown CM System

You must make sure CM System is shutdown before you attempt this procedure.

Step 2: Clone Existing Quartz Tables with New Table Prefix

There are many ways to do this. The easiest way I know is to use something like Oracle SQL Developer for Oracle 10/11 g, Microsoft SQL Server Management Studio for SQL Server 2005/8, or the MySQL Workbench for MySQL 5.5x. Each one of those tools can easily help you create the necessary DDL for the Quartz tables and therefore I will not go into detail here on how to use those tools. If you need help please ask your DBA.

There are 12 tables that Quartz needs:

1. PSX_QBLOB_TRIGGERS
2. PSX_QCALENDARS
3. PSX_QCRON_TRIGGERS
4. PSX_QFIRED_TRIGGERS
5. PSX_QJOB_DETAILS
6. PSX_QJOB_LISTENERS
7. PSX_QLOCKS
8. PSX_QPAUSED_TRIGGER_GRP
9. PSX_QSCHEDULER_STATE
10. PSX_QSIMPLE_TRIGGERS
11. PSX_QTRIGGER_LISTENERS
12. PSX_QTRIGGERS

After you generate the DDL for the above 12 tables, search for "PSX_Q" and replace it with the new Quartz table prefix such as "PSX_HUB1_Q". Run the modified DDL and make sure the new tables are created with the new table prefix.

Step 3: Modify beans.xml with New Table Prefix

1. Open `./AppServer/server/rx/deploy/rxapp.ear/rxapp.war/WEB-INF/config/spring/beans.xml` in a text editor of your choice.
2. Search for `<property name="quartzProperties">`
3. Locate the `org.quartz.jobStore.tablePrefix=PSX_Q` property and value pair
4. Change the prefix value from `PSX_Q` to `PSX_HUB1_Q`
5. Save the file.

Step 4: Startup CM System and Test

After CM System starts up, login and create a new scheduled task. You should only see this scheduled task on the source server. No other CM System server should see this newly created scheduled task. You can verify this by logging into another CM System server instance such as the System Master and going to the Admin tab. Verify that the newly created scheduled task on the publishing hub is not listed on the System Master. If it is then you did something wrong and should double check your steps above.

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