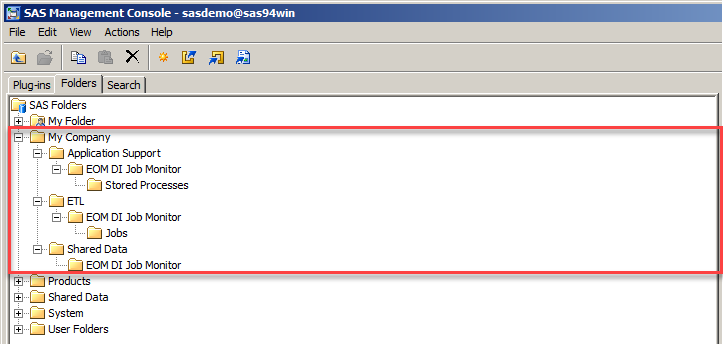
EOM DIMon 3.1 Installation Instructions for Windows

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# Proposed metadata folder structure:

It is common practice to have separate SAS metadata folders for ETL programs, SAS Reports/SAS Stored Processes, and data. This document assumes installation in the SAS Metadata folder *My Company* shown here:



# DIMon Batch Component Installation Instructions

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| Nr | Instruction |
| 1 | Use SAS Management Console to create a SAS/SHARE or DBMS library with libref DIMON assigned to your SAS DI Application Server to store the DIMon tables. Your batch user needs UPDATE access to the tables in this library. Your SAS General Server User (e.g., sassrv) needs READ access to the tables in this library.  Notes:   * If you use a different libref than "DIMON" for your DIMon tables, add the following line to file "<sasappsrvcontextdir>\BatchServer\autoexec\_usermods.sas":  libname dimon (<your libref>); * For MySQL you need the following system variable in my.cnf:  sql\_mode='ANSI\_QUOTES' # allow " as an identifier quote character (next to backtick) * For Postgres please follow instructions for optimization at http://support.sas.com/kb/52/585.html |
| 2 | Create the required tables using the appropriate script for your database provided in installation package folder "SASBatch\SQL":   |  |  | | --- | --- | | Engine | Script | | SAS/SHARE | dimon\_create\_tables\_sas.sas | | Postgres | dimon\_create\_tables\_postgres.sql | | MySQL | dimon\_create\_tables\_mysql.sql | | MS SQL Server | dimon\_create\_tables\_sqlserver.sql | | Oracle | dimon\_create\_tables\_oracle.sql | |
| 3 | Register the tables that were created in step 2 in SAS metadata folder "/My Company/Shared Data/EOM DI Job Monitor".  **Deselect** the following options when registering the tables:   * Enable case-sensitive DBMS object names * Enable special characters within table or column object name |
| 4 | Import SAS metadata package "SASBatch\SASPackages\dimon-batch.spk" from the installation package to SAS metadata folder "/My Company/ETL/EOM DI Job Monitor/Jobs". Map the tables to the tables you registered in step 3. |
| 5 | Copy all files in installation package folder "SASBatch\SASSteps" to folder "<sasappsrvcontextdir>\SASEnvironment\SASCode\Steps" on your SAS DI Application Server. |
| 6 | Create directory "<sasappsrvcontextdir>\SASEnvironment\SASCode\dimon" on your SAS DI Application Server.  Copy all files in installation package folder "SASBatch\SASCode" to this directory.  If you store the DIMon tables in Postgres and access them through SAS/ACCESS to ODBC, you may run into the issue described at http://support.sas.com/kb/51/085.html. To fix, replace the SQL update statement in dimonFinishJob.sas with the folllowing code:  proc sql noprint;  connect to odbc(dsn=<your dsn>);  execute (  /\* Insert Post-Job Statistics \*/  update dimon.dimon\_job\_runs  set job\_status\_id = ( select job\_status\_id  from dimon.dimon\_job\_status  where job\_status\_code = 'COMPLETED'  )  , job\_end\_dts = current\_timestamp  , job\_rc = &job\_rc  , update\_user = %str(%')&sysuserid%str(%')  , update\_dts = now()  where job\_run\_id = &job\_run\_id  ) by odbc;  disconnect from odbc;  quit; |
| 7 | Copy files dimon\_pre.bat and dimon\_post.bat from installation package folder "SASBatch\BatchServer\Windows" to "<sasappsrvcontextdir>\BatchServer" on your SAS DI Application Server.  DI Monitor uses the Windows date and time functions to compose log and lst file names. The output of these functions differs by locale. DI Monitor expects the English (US) locale; if you have set a different locale on your machine, modify the following lines in file dimon\_pre.bat:  SET HOUR\_TIME=%time:~0,2%  IF %HOUR\_TIME% leq 9 (set HOUR\_TIME=0%HOUR\_TIME: =%)  SET DATETIME=%date:~10,4%.%date:~4,2%.%date:~7,2%\_%HOUR\_TIME%.%time:~3,2%.%time:~6,2%    so that DATETIME contains a date/time in the format YYYY.MM.DD\_HH.MM.SS  Example: 2016.11.30\_22.31.40  Note that this is **very important**; an incorrect date can cause errors when the SAS batch job is submitted. To help debugging you can set DIMONDEBUG=YES in dimon\_pre.bat which creates file %TEMP%\dimon-debug.txt containing a list of environment variables. |
| 8 | Make a backup copy of file "<sasappsrvcontextdir>\BatchServer\sasbatch.bat" on your SAS DI Application Server. |
| 9 | Edit <sasappsrvcontextdir>\BatchServer\sasbatch.bat on your SAS DI Application Server:  Right before the line:  "%SAS\_COMMAND%" %CMD\_OPTIONS% %\*%:  insert the following lines:  REM EOM DI Monitor - prolog -- begin  call %APPSERVER\_ROOT%\BatchServer\dimon\_pre.bat  REM EOM DI Monitor - prolog – end  Right after the line:  "%SAS\_COMMAND%" %CMD\_OPTIONS% %\*%:  insert the following lines:  REM EOM DI Monitor - epilog -- begin  set JOB\_RC=%ERRORLEVEL%  call %APPSERVER\_ROOT%\BatchServer\dimon\_post.bat  EXIT /b %JOB\_RC%  REM EOM DI Monitor - epilog -- end  Replace the line:  "%SAS\_COMMAND%" %CMD\_OPTIONS% %\*%  with  "%SAS\_COMMAND%" %CMD\_OPTIONS% %\* -log "%SASLOGFILE%" -print "%SASLSTFILE%"  Note the difference between %\*% in the original command and %\* in the modified command. |
| 10 | Add the following line to file "<sasappsrvcontextdir>\BatchServer\autoexec\_usermods.sas":  options fullstimer; |
| 11 | Using SAS DI Studio, run DI Studio job "/My Company/ETL/EOM DI Job Monitor/Jobs/DIMon\_Load\_Flows\_and\_Jobs" that you imported in step 4, on your SAS DI Application Server.  You can ignore the warning that there are transformations that may be out of order in the job. |
| 12 | Deploy the SAS DI Studio jobs imported in step 4 for scheduling on your SAS DI Application Server.    Use the SAS Management Console Schedule Manager plug-in to create a flow with the following deployed jobs:   1. DIMon\_Load\_Flows\_and\_Jobs 2. DIMon\_Statistics     Schedule the flow to run daily, as the first step in your nightly batch. |
| -- END OF INSTRUCTIONS DIMON BATCH COMPONENT | |

# DIMon Web Application Installation Instructions

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| Nr | Instruction |
| 1 | Import SAS metadata package "Webapp\SASPackages\dimon-webapp.spk" into SAS metadata folder "/My Company/Application Support/EOM DI Job Monitor/Stored Processes". Assign the Stored Processes to run on your SAS Web Application Server (if you have that). |
| 2 | Copy the content of folder "Webapp\Webapps" to directory "<SASConfigDir>\Web\WebServer\htdocs\" on your SAS Web Application Server. |
| 3 | Copy the content of folder "Webapp\SASMacro" to directory "<sasappsrvcontextdir>\SASEnvironment\SASMacro" on your SAS Web Application Server. |
| 4 | Edit file "<sasappsrvcontextdir>\SASEnvironment\SASMacro\dimon\_init.sas" on your SAS Web Application Server and update the settings/paths:   |  |  |  | | --- | --- | --- | | Setting | Description | Default value | | sproot | Folder where dimon-webapp.spk was imported to | /My Company/Application Support/EOM DI Job Monitor/Stored Processes | | webroot | Relative URL path to where the webapps components were copied to in step 2 | /eom/dimon |   If you use a different libref than "DIMON" for your DIMon tables, set that in the section marked yellow below:  %if (%sysfunc(libref(dimon)) ne 0) %then  %do; /\* assign dimon library \*/  %put NOTE: Assigning library DIMON;  libname dimon (dimonsas);  %end;/\* assign dimon library \*/  libname dimon list; |
| 5 | If you chose a different metadata location in Step 1 than the default ("/My Company/Application Support/EOM DI Job Monitor/Stored Processes"), update file "<SASConfigDir>\Web\WebServer\htdocs\eom\dimon\index.html" to reflect that in the sections marked yellow below: | |
| 6 | Start the EOM DI Job Monitor web application by navigating your browser to <http://your-sasweb-server/eom/dimon/> . If you don’t have any flows scheduled yet you should see the following: |
| -- END OF INSTRUCTIONS DIMON WEB APPLICATION COMPONENT | |