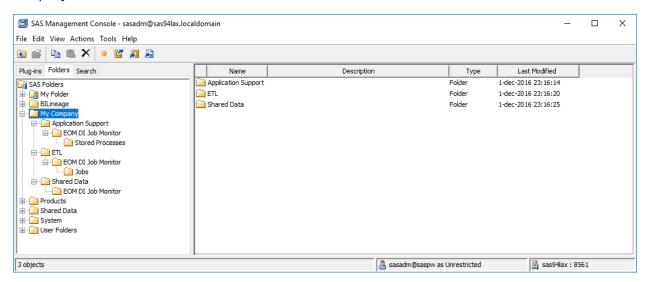
EOM DIMon 3.1 Installation Instructions for Linux

Bart Heinsius December 2, 2016 Version 3.1.02

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

Important note: When copying files from the installation package to the Linux file system, ensure that the files have the Linux file format on the Linux file system (LF as line termination string).

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 ne UPDATE access to the tables in this library. Your SAS General Server User (e.g., sassrv) ne READ access to the tables in this library.			
	Notes: - If you use a different libref than "DIMON" for your DIMon tables, add the folloto file " <sasappsrvcontextdir>/BatchServer/autoexec_usermods.sas":</sasappsrvcontextdir>			
	libname dimon (<your libref="">); - For MySQL you need the following system variables in my.cnf:</your>			
	 sql_mode='ANSI_QUOTES' # allow " as an identifier quote character (next to back lower_case_table_names=1 # allow case-insensitive table names For MySQL you need to assign the SAS library to MySQL with PRESERVE_TAB_NAMES=NO 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 the 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 namesEnable special characters within table or column object name			

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 from installation package folder "SASBatch\SASSteps" to folder "<sasappsrvcontextdir>/SASEnvironment/SASCode/Steps" on your SAS DI Application Server. Create directory "<sasappsrvcontextdir>/SASEnvironment/SASCode/dimon" on your SAS DI 6 Application Server. Copy all files from installation package folder "SASBatch\SASCode" to this directory. 7 Copy files dimon_pre.sh and dimon_post.sh from installation package folder "SASBatch\BatchServer\Linux" to "<sasappsrvcontextdir>/BatchServer" on your SAS DI Application Server. To help debugging you can set DIMONDEBUG=YES in dimon_pre.sh, which creates the file /tmp/dimon-debug.txt containing a list of environment variables. 8 Make a backup copy of file "<sasappsrvcontextdir>/BatchServer/sasbatch.sh" on your SAS DI Application Server. Edit <sasappsrvcontextdir>/BatchServer/sasbatch.sh on your SAS DI Application Server: 9 Insert before line: exec "\$SAS COMMAND" -noxcmd -lrecl 32767 "\$@" "\${USERMODS OPTIONS[@]}" the following lines: # EOM DI Monitor - prolog -- begin . \$APPSERVER ROOT/BatchServer/dimon pre.sh # EOM DI Monitor - prolog - end Insert after line: exec "\$SAS COMMAND" -noxcmd -lrecl 32767 "\$@" "\${USERMODS OPTIONS[@]}" the following lines: # EOM DI Monitor - epilog -- begin JOB RC=\$? . \$APPSERVER ROOT/BatchServer/dimon post.sh exit \$JOB RC # EOM DI Monitor - epilog - end replace line: exec "\$SAS COMMAND" -noxcmd -lrecl 32767 "\$@" "\${USERMODS OPTIONS[@]}" with "\$SAS COMMAND" -noxcmd -lrec1 32767 "\$@" -log "\$SASLOGFILE" -print "\$SASLSTFILE" "\${USERMODS OPTIONS[@]}"

10 Add the following line to file "<sasappsrvcontextdir>/BatchServer/autoexec_usermods.sas":

options fullstimer;

11 Check to see whether the APPSERVER_ROOT environment variable is available in your SAS batch programs. You can do this by submitting the following SAS code on your SAS DI Application Server:

```
%put %sysget(APPSERVER ROOT);
```

If you see a valid path in the log, you're done with this step.

If you see the following message in the log:

WARNING: The argument to macro function %SYSGET is not defined as a system variable.

Then add the following line to file

"<sasappsrvcontextdir>/appservercontext_env_usermods.sh":

export APPSERVER ROOT

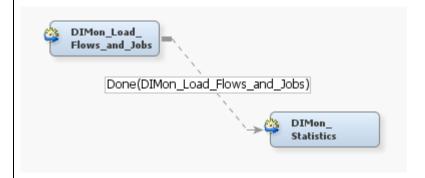
Using SAS DI Studio, run DI Studio job "/My Company/ETL/EOM DI Job Monitor/Jobs/DIMon_Load_Flows_and_Jobs" that you imported in step 4, on your SAS DI Application Server.

You can ignore the warning that there are transformations that may be out of order in the job.

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

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.</sasconfigdir>	
3	Copy the content of folder "Webapp\SASMacro" to directory " <sasappsrvcontextdir>/SASEnvironment/SASMacro" on your SAS Web Application Server.</sasappsrvcontextdir>	
4	Edit file " <sasappsrvcontextdir>\SASEnvironment\SASMacro\dimon_init.sas" on your SAS Web</sasappsrvcontextdir>	

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-	/My Company/Application Support/EOM DI
	webapp.spk was imported to	Job Monitor/Stored Processes
webroot	Relative URL path to where the	/eom/dimon
	webapps components were	
	copied to in step 2	

If you use a different libref than "DIMON" for your DIMon tables, set that in the section marked yellow below:

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:

Start the EOM DI Job Monitor web application by navigating your browser to http://your-sasweb-server:7980/eom/dimon/. If you don't have any flows scheduled yet you should see the following:

| Percentage | EOM DI Job Monitor | E | EOM DI Jo