

How to Add a SAS/ACCESS Library to SAS Management Console

This document is a step-by-step guide to assist in setting up all necessary items in SAS Management Console 9.1.3 to allow SAS BI Client applications access to DBMS tables. The 3 main steps are:

- ❖ Define the DBMS user
- ❖ Define the DBMS server
- ❖ Define the Library

Login to SAS Management Console and follow these steps:

This is used if you have one DBMS login that you want users to share

1. a. From User Manager select 'Actions->New->Group' to add a **new user group** for the DBMS login:

- ❖ Name your new User Group, ie. 'Oracle Users'.
- ❖ On the **Logins** tab add the DBMS User id and password by selecting 'New'.
- ❖ For the **Authentication Domain** select your authentication domain (ie.'Oracle Auth'). If the appropriate authentication domain is not listed select 'New' and add it.
- ❖ On the **Members** tab add all users who will need access to this library (ie. sasdemo, etc)

This is used if each user has his own DBMS login.

b. **OR** add DBMS login info to each individual **user**:

- ❖ Open the properties of an existing user in User Manager that you want to allow access to the DBMS server.
- ❖ On the **Logins** tab add the DBMS User id and password by selecting 'New'.
- ❖ For the **Authentication Domain** select your DBMS Authentication domain (ie.'Oracle Auth'). If the appropriate authentication domain is not listed select 'New' and add it.

The process outlined above under item '#1b' can be done for each individual user adding the appropriate DBMS login to the Login tab for the properties of that particular user. Every user's DBMS login can use the same authentication domain. This allows you to only have to build one DBMS server. The User id and password used on the library is determined by who you login to the metadata server as. Each user can only see his/her own logins as well as logins on a group he is a member of. For example, when a user logs in to the metadata server it first finds their metadata identity. Next, if this user accesses a particular DBMS server, the corresponding authentication domain (ie. 'Oracle Auth') defined on the server will map to a User id and password with same authentication domain.

2. From Server Manager select 'Actions->New Server' to add the **DBMS server**:

- ❖ Select the correct DBMS, ie: oracle, etc
- ❖ Name the server
- ❖ Select 'Next' to accept the defaults
- ❖ Enter DBMS specific server info such as Oracle path, Teradata server, etc
- ❖ Select the Authentication domain that was created in step #1 above. This will allow the appropriate DBMS User id/password to be used with this server.

3. From the Data Library manager-> SAS Libraries select 'Actions-> New Library' to add new **DBMS library:**

a. For use in SAS client BI applications (other than Enterprise Guide and Add-in for Microsoft Office)

- ❖ Select the appropriate DBMS
- ❖ Name the library
- ❖ Give it a libref
- ❖ select the database server you added for #2 above
- ❖ create or add the schema
- ❖ Select your workspace server (ie. SASMAIN) as the server where this libname will be assigned.

b. When using Enterprise Guide (EG) and Add-in for Microsoft Office (AMO) create a Pre-assigned Library

NOTE: As of EG 3.0 the META libname engine is used to access the metadata. Because the META engine is used implicit pass-through is disabled. This means that queries built against the DBMS tables are processed entirely in SAS. Thus, performance will suffer. To allow these SAS BI clients to build queries that can be passed to the DBMS server a pre-assigned library must be setup in the following manner. Also, note that when this method below is followed the true DBMS engine is used so security setup in SAS Management Console is not being used. However any security setup on the DBMS side is being honored.

- ❖ Select DBMS in question
- ❖ Name the library
- ❖ Give it a libref
- ❖ Select the Advanced options tab and select 'Library is Pre-assigned'
- ❖ Select the database server you added for #2 above
- ❖ Create or add the schema
- ❖ Select the workspace server (ie. SASMAIN) as the server where this libname will be assigned.
- ❖ Add the option, METAAUTOINIT, to the Object Server Parameters in the options tab of the properties of the workspace server (ie. SASMAIN)
- ❖ Restart the Object Spawner on the workspace server machine

NOTE: To use the DBMS library in SAS BI Client applications you must login as one of the accounts that has access to the DBMS login either through a group login or user login (see step #1) **DO NOT use SASADM!!!** SASADM is an unrestricted user and will not have access to the login when accessing the library.