RDBMS Synchronization with CSV v1.01

1. Create accountactions.csv File

Create the accountactions.csv file as per the CiscoSecure ACS documentation listed below and place it in a directory on an FTP server available to the ACS appliance or in the following directory if using ACS for Windows:

C:\Program Files\CiscoSecure ACS vx.x\CSDBSync\Databases\CSV

This step will not be covered in great detail here as it will vary considerably based on your needs.

Main RDBMS Synchronization Documentation -

Windows
http://www.cisco.com/univercd/cc/td/doc/product/access/acs_soft/csacs4nt/acs33/user/sad.htm#wp756877

Appliance
http://www.cisco.com/univercd/cc/td/doc/product/access/acs_soft/csacsapp/csapp33/user/sad.htm#wp616549

RDBMS Synchronization Import Definitions -

http://www.cisco.com/univercd/cc/td/doc/product/access/acs_soft/csacs4nt/acs33/user/ag.htm

The basic format for this file is as follows:

SequenceId,Priority,UserName,GroupName,Action,ValueName,Value1,Value2,Value3,DateTime,MessageNo,ComputerNames,AppId,Status
1,0,,Group 5,210,,Nork,,,13/07/2004 15:00,0,,,0

This should look like the following screenshot when viewed in Microsoft Excell.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	Sequence	Priority	UserName	GroupNam	Action	ValueNam	Value1	Value2	Value3	DateTime	MessageN	ComputerN	AppId	Status
1														
2	1	0		Group 5	210		Nork			13/07/2004	0			0

The above example uses action code 210 to change the name of "Group 5" to "Nork".

> **Note!!!**
> The .csv must start with a blank line (or a line without actual import definitions) as the first line is skipped by the Microsoft ODBC driver.

Regardless of the action, fields 1, 2, 5, 10, 11, and 14 (SequenceId, Priority, Action, DateTime, MessageNo, Status) are required.

ACS for Windows Setup
If you are configuring the ACS appliance, skip to step 5

2. Change Registry Settings

A. Access the following key:

HKEY_LOCAL_MACHINE\SOFTWARE\Cisco\CiscoAAAvx.x\CSDBSync

B. Change the OdbcUpdateTable value from AccountActions to accountactions.csv
C. Save your changes to the Registry

Note!!!

Failure to perform the above procedure will result in the following error:

[Microsoft][ODBC Text Driver] Cannot update. Database or object is read-only

You cannot perform synchronization using a relational database table after the OdbcUpdateTable value has been changed to accountactions.csv. To do so, you must change the OdbcUpdateTable value back to AccountActions.

3. Configure Your ODBC Data Source in Windows

A. Go to Administrative Tools > Data Sources (ODBC)
B. Choose the System DSN tab and click Add
C. Choose Microsoft Text Driver and click Finish
D. Enter a name in the Data Source Name field and a description in the Description field
E. Take the check out of Use Current Directory and click Select Directory
F. Browse to the following directory and click OK:

C:\Program Files\CiscoSecure ACS vx.x\CSDBSync\Databases\CSV

G. Click on the Options button and then the Define Format button
H. Click on accountactions.csv and then OK
I. Click OK if you get a "Failed to save table attributes of (null) into (null)
J. Click OK and then OK

4. Configure ACS to Use Your ODBC Data Source

        A. Go to Interface Configuration > Advanced Options
        B. Place a check in RDBMS Synchronization and click Submit
        C. Go to System Configuration > RDBMS Synchronization
        D. Choose your newly created datasource from the dropdown
        E. Do not worry about username and password
        F. Choose Manual synchronization
        G. Make sure your server is listed in the Synchronize column of the
           Synchronization Partners section and click Submit
        H. Go back into RDBMS Synchronization and click Synchronize Now and the
           updates should take place

Note!!!

unlike other methods of RDBMS synch, the lines are not deleted from the .csv as they are added to the CSDB. This is because the MS ODBC text driver has read only access.

If you are running ACS version 3.0, you may need to change the [accountactions] line in your C:\Program Files\CiscoSecure ACS vx.x\CSDBSync\Databases\CSV\schema.ini file to [accountactions.csv].

Attempting RDBMS synchronization using the text driver with ACS installed on Win2k Advanced Server will not work and will most likely result in the following error:

"[Microsoft][ODBC Text Driver] Text file specification field separator matches decimal separator or text delimiter"

ACS Appliance Setup

5. Configure ACS Appliance to Import Your CSV

        A. Go to Interface Configuration > Advanced Options
        B. Place a check in RDBMS Synchronization and click Submit
        C. Go to System Configuration > RDBMS Synchronization
        D. Enter the name of the CSV in the Actions File field
        E. Enter the FTP server IP, the directory where the CSV resides on the FTP server,
           and the username and password for ACS to use to access the FTP server in the
           appropriate fields
        F. Choose Manual synchronization
        G. Make sure your server is listed in the Synchronize column of the
           Synchronization Partners section and click Submit
        H. Go back into RDBMS Synchronization and click Synchronize Now and the
           updates should take place