E-SSOM

COM GUIDE

TOOLS4EVER

IDENTITY GOVERNANCE & ADMINISTRATION

Contents

1.   Introduction

This guide describes the functionality of the E-SSOM COM object and how it can be configured. The E-SSOM COM object allows an administrator to programmatically configure certain parts of E-SSOM. The current version of the COM object allows the administrator to programmatically add/remove users and to add/remove user data.

The 'Examples' chapter describes several ready made examples that are shipped with E-SSOM.

2.   Installation

The E-SSOM Admin Console will copy the E-SSOM COM dlls to the local machine. However it will not install the COM object. This must be done manually on the machine that will run the scripts that use the E-SSOM COM Object.

Installation
The E-SSOM COM Object can be installed by performing the following steps:

1.   Go to 'Start --> Run...'

2.   Type 'cmd' and press enter.

3.   Go to the directory that contains the E-SSOM COM Object. (Default: 'c:\program files\Tools4ever\SSO\Admin Console\COM')

4.   type 'regsvr32 ssocom.dll' and press enter.

If the installation was successful a popup will appear and display the following text: 'DllRegisterServer in SSOCOM.dll succeeded.'

Removal
The E-SSOM COM Object can be removed by performing the following steps:

1.   Go to 'Start --> Run...'

2.   Type 'cmd' and press enter.

3.   Go to the directory that contains the E-SSOM COM Object. (Default: 'c:\program files\Tools4ever\SSO\Admin Console\COM')

4.   type 'regsvr32 /u ssocom.dll' and press enter.

If the removal was successful a popup will appear and display the following text: 'DllUnregisterServer in SSOCOM.dll succeeded.'

3.   Using the COM Object

The E-SSOM COM object contains several objects and functions to perform various action. This chapter describes all of these objects and functions and how to use them.

3.1.   COMESSOM

The COMESSOM object is the central managing object. It contains all of the functions used to communicate with the E-SSOM Central Service.

Functions

Function	**Connect**
Description	This function must be used before the COM object can be used. It connects the COM object to the E-SSOM Central Service.
Parameters	ServerName - The name of the computer running the E-SSOM Central Service.
	PortNumber - The port number that the E-SSOM Central Service uses to communicate. (Default: 36785)

Function	**Disconnect**
Description	This function disconnects the COM object from the E-SSOM Central Service.
Parameters	None

Function	**AddUser**
Description	This function adds a user to the E-SSOM Central Service database. It does not add any userdata to the database.
Parameters	COMUserApplicationData - An initialized COMUserApplicationData Object

Function	**RemoveUser**
Description	This function removes a user from the E-SSOM Central Service database. **Warning: This functions also deletes all associated userdata.**
Parameters	COMUserApplicationData - An initialized COMUserApplicationData Object

Function	**AddApplication**
Description	This function adds userdata for the specified user to the E-SSOM Central Service database.
Parameters	COMUserApplicationData - An initialized COMUserApplicationData Object

Function	**RemoveApplication**
Description	This function removes userdata from the specified user in the E-SSOM Central Service database.
Parameters	COMUserApplicationData - An initialized COMUserApplicationData Object

3.2.   COMUserApplicationData

The COMUserApplicationData object contains all of the information regarding the user. It is used in conjunction with the COMESSOM Object to send userdata to the E-SSOM Central Service

Functions

Function	**Initialize**
Description	This function must be used before the COM object can be used. This function initializes the COMUserApplicationData object to the correct user.
Parameters	DomainName - The name of the domain that contains the user.
	UserName - The loginname of the user

Function	**AddVariable**
Description	This function is used to add a variable to the specified application.
Parameters	VariableName - The name of the variable (for instance %username%)
	VariableData - A string containing the variable data. If this string can be converted to a number, the variable will be of type 'number'.

Function	**AddVariableString**
Description	This function is used to add a string variable to the specified application.
Parameters	VariableName - The name of the variable (for instance %username%)
	VariableData - A string containing the variable data.

Function	**AddVariableNumber**
Description	This function is used to add a number variable to the specified application.
Parameters	VariableName - The name of the variable (for instance %username%)
	VariableData - A number containing the variable data.

Function	**AddVariableBool**
Description	This function is used to add a boolean variable to the specified application.
Parameters	VariableName - The name of the variable (for instance %username%)
	VariableData - A number containing the variable data. Zero for 'false', non-zero for 'true'.

Function	**AddVariableFileTime**
Description	This function is used to add a time variable to the specified application.
Parameters	VariableName - The name of the variable (for instance %username%)
	VariableData - A number containing the variable data. The number must be a FILETIME number as described in the MSDN.

Function	**AddVariableUndefined**
Description	This function is used to add an undefined variable to the specified application.
Parameters	VariableName - The name of the variable (for instance %username%)

Data Members

Data Member	**ApplicationName**
Description	This data member must be set to the name of the application definition.

Data Member	**UserApplicationDataName**
Description	This data member may be set to the name of the application data. This can be used to create multiple credential sets.

Data Member	**Sid**
Description	This data member may be used in stead of the initialize function. It must be set to the string representation of the SID of the user.

4.   Examples

E-SSOM is shipped with four examples. The samples can be found by default in the 'c:\program files\Tools4ever\SSO\Admin Console\Examples\COM' directory.

AddUser.vbs
The AddUser script can be used to add a user to the E-SSOM database without adding any application data.

At the beginning of the script, three variables must be set:
Servername   - Specify the name of the server that is running the E-SSOM Service
UserDomain   - Specify the domainname that contains the user that must be added
UserName   - Specify the username of the user that must be added

AddUserData.vbs
The AddUserData script can be used to add userdata to the E-SSOM database. If the user does not exist, the user will be added to the database with the specified user data.

At the beginning of the script, eight variables must be set:
Servername   - Specify the name of the server that is running the E-SSOM Service
UserDomain   - Specify the domainname that contains the user for whom userdata must be added
UserName   - Specify the username of the user or whom userdata must be added

ApplicationName - Specify the name of the Application Definition
UserNameVariable   - Specify the name of the variable that contains the username in the script. (Default '%username%')
PasswordVariable - Specify the name of the variable that contains the password in the script. (Default '%password%')
UserNameValue   - Specify the username of the application for this user
PasswordValue   - Specify the password of the application for this user

RemoveUser.vbs
The Remove User script can be used to remove a user from the E-SSOM database. **Warning: All user data for the specified user will be removed when executing this script!**

At the beginning of the script, three variables must be set:
Servername   - Specify the name of the server that is running the E-SSOM Service
UserDomain   - Specify the domainname that contains the user that must be removed
UserName   - Specify the username of the user that must be removed

RemoveUserData.vbs
The RemoveUserData script can be used to remove userdata from the E-SSOM database. This script will only delete the userdata of the user, never the user itself.

At the beginning of the script, four variables must be set:
Servername   - Specify the name of the server that is running the E-SSOM Service
UserDomain   - Specify the domainname that contains the user for whom userdata must be removed
UserName   - Specify the username of the user that for whom userdata must be removed
ApplicationName - Specify the name of the Application Definition

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