SNL integration with Evidian ESSO and User Access

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Chapter 1
Setting up Evidian for SNL Integration

In this chapter:

- Prerequisites and special installation notes
- Software versions
- Documentation and help
- Evidian installation important notes
- Setting up the management Station for SNL integration
- Setting up the Client Station for SNL integration
Prerequisites and Special Installation Notes

The solution for applying Safenet Network Login (SNL) with Evidian User access and Enterprise Single Sign-on (ESSO) is implemented on Windows Server 2008 R2 operating system with Windows 7 SP1 clients.

Although previous operating systems are applicable, Safenet recommends using Windows Server 2008 R2 as the Evidian controller and domain controller. For the management workstation and clients, Windows 7 is the current recommendation. Previous operating systems are supported.

Software Versions

The following software versions are required:

- Safenet SAC version 8.1 sp1
- SNL version 8 build 10 and later
- Evidian E-SSO-v8[1].05b4348.2 or later
- MySQL

  The recommended MySQL versions are as follows:
  - mysql-5.5.19-winx64 and later
  - mysql-connector-odbc-5.1.9-winx64 and later
  - mysql-workbench-gpl-5.2.37-win32 and later

Note: MySQL requires Microsoft Visual C++ 2010 redistributable 32 bit (vcredist_x86), for both 64 or 32 bit environments.

Documentation and Help

Throughout the document an outline for the procedure is explained. Refer to this document or any superseding documents from Safenet or Evidian support.

Note: This documentation contains operational usage examples; certain methods are presented to perform specific actions. It is important to note that there are other ways to perform many of those actions. For further information consult SafeNet’s and Evidian documentation.
Evidian Installation Important Notes

This document does not replace as Evidian official documentations but provides recommendations based on Safe Net's knowledge base.

For a comprehensive detailed Evidian information refer to Evidian documentation.

Controller Installation from Quick Setup

The Evidian controller can be set up from the quick setup menu, as instructed by the Evidian Manual.

**Note:** To install MySQL, Microsoft Visual C++ 2010 redistributable 32 bits is required.

Before running the Evidian installation create a user to enhance the AD Schema, and a user for user access management.

The built in administrator can be used without changing the settings, or later on the settings can be changed using Evidian management.

**Note:** If the following error is displayed use the built in administrator account.

![User Access Controller configuration](image)
Setting up the Management Station for SNL Integration

Manual Work Station Installation Order

The Evidian controller can be set up from the quick setup menu, as instructed by Evidian documentation.

This does not apply for the management station or the clients.

To install the management station or the clients, a manual installation in the following order is required:

1. Setting up WGCONFIG
2. Installing VC redistributable - VCRedist_x86
3. Installing ESSO Agent

WGCONFIG Installation

To install the WGCONFIG:

1. Locate WGCONFIG from the matching Evidian directory, for example on a 32 bit client: ..\Evidian\E-SSO-v8[1].05b4348.2\E-SSO\TOOLS\WGConfig.

   ![File List](image)

   **Note:** Alternate location for WGeonfig after the installation is: C:\Program Files\Common Files\Evidian\WGSS.

2. Run WGCONFIG as an administrator.
The *Software licenses* dialog box opens.

3. Fill in the license information relevant to your company and click **Next**.
An import success notification dialog box opens.

4. Click **OK**.

The *Installation mode* dialog box opens.

5. Select **with a Controller** and then click **Next**
The *Users directory* dialog box opens.

![Configuration Assistant: Users directory](image)

6. Click **Microsoft Active Directory** and then click **Next**

The *Security repository* dialog box opens.

![Configuration Assistant: Security repository](image)

7. Select **Integrated with Active Directory** and then click **Next**.

---

9
The *Access point management* dialog box opens.

8. Ensure **Manage access points** is not checked and then click **Next**.
   
The *Restart Computer* dialog box opens.

9. Select **Do not restart computer** and then click **Finish**.
Setting up Evidian for SNL Integration

VC Redistributable Installation

To install VC redistributable:

1. Locate VC redistributable from the matching Evidian directory, for example on a 32 bit client:

   ..\Evidian\E-SSO-v8[1].05b4348.2\E-SSO\INSTALL\VCRedist_x86

2. Run VCRedist_x86 as an administrator.

   The following dialog boxes open in sequence, and the installation finishes with no summary or finish dialog box.
ESSO Agent Installation

To install the ESSO agent:

1. When the installation is finished, locate the ESSO agent from the matching Evidian directory, for example on a 32 bit client:
   .. \Evidian \E-SSO-v8[1].05b4348.2 \E-SSO \INSTALL \ESSOAgent

2. Double-click ESSOAgent and run ESSOAgent as an administrator.
   The Windows Installer dialog box opens.

3. Click Next.
The **License Agreement** dialog box opens.

4. Read the agreement then select **I accept the license agreement**, and then click Next.

The **Destination Folder** dialog box opens.

5. Select the desired destination folder then click **Next**. For this installation instruction use the default installation folder.
The **Select Installation Type** dialog box opens.

6. Select **Custom**, and then click **Next**.

**Note:** This scenario is a basic Evidian client installation integrated with Safenet Network logon. The settings described may differ on other installations.

For additional information consult Evidian support and documentation.

The **Select Features** dialog box opens.
7. Click **Authentication Manager** and then click **Entire feature will be unavailable**.

A red X is displayed next to the **Authentication Manager** feature. The feature is disabled.
8. Disable the **Biometrics enrollment tools** feature unless required by other installation constraints. Click **Enterprise SSO**.

9. Click **Biometrics enrollment tools**.

10. Click **Entire feature will be unavailable**

    A red X is displayed next to the **Biometrics enrollment tools** feature. The feature is disabled.
11. Click **Integration with windows**.

![Integration with windows screen]

12. Click **Entire feature will be installed on local hard drive**.

The red X is removed from next to the **Integration with windows** feature.

![Entire feature will be installed on local hard drive screen]

The **Integration with windows** feature is enabled.
13. Click **Enterprise SSO studio**.

![Enterprise SSO studio](image)

14. Click **Entire feature will be installed on local drive**.

The red X is removed from next to the **Enterprise SSO studio** feature.

![Enterprise SSO studio](image)

The **Enterprise SSO studio** feature is enabled.
15. Ensure that the available options are as displayed in the following dialog box.

The following options are not installed:
- Authentication manager
- Biometrics enrollment tool
- Old IE plugin
- Public access FUS
- Biometric Public access FUS
- FUS extension DLL

16. Click **User access console**.
17. Click **Entire feature will be installed on local drive.**

The red X is removed from next to the **User access console** feature.

18. Click **Next**.
The *Ready to install the application* dialog box opens.

19. Click **Next**.

The following *Updating System* dialog boxes open in sequence.
On completion the User Access Client has been successfully installed dialog box opens.

20. Click **Finish**.
Setting up the Client Station for SNL Integration

Manual Client Installation Order

The Evidian controller can be setup from the quick setup menu, as instructed by Evidian documentation.

This does not apply for the management station or the clients.

To correctly install the management station or the clients, a manual installation in the following order is required:

1. Setting up WGCONFIG
2. Installing VC redistributable - VCRedist_x86
3. Installing ESSO Agent

WGCONFIG Installation

To install the WGCONFIG

1. Locate WGCONFIG from the matching Evidian directory, for example on a 32 bit client: ..\Evidian\E-SSO-v8[1].05b4348.2\E-SSO\TOOLS\WGConfig.

   ![WGCONFIG directory contents]

   **Note:** Alternate location for WGconfig after the installation is: C:\Program Files\Common Files\Evidian\WGSS.

2. Run WGCONFIG as an administrator.
The *Software licenses* dialog box opens.

![Software Licenses Dialog Box]

3. Fill in the license information relevant to your company and click **Next**. An import success notification dialog box opens.

![Import Success Notification]

4. Click **OK**.

The *Installation mode* dialog box opens.

![Installation Mode Dialog Box]

5. Select **with a Controller** and then click **Next**.
The *Users directory* dialog box opens.

6. Click **Microsoft Active Directory** and then click **Next**

The *Security repository* dialog box opens.

7. Select **Integrated with Active Directory** and then click **Next**.
The **Access point management** dialog box opens.

8. Ensure **Manage access points** is not checked and then click **Next**.
The **Restart Computer** dialog box opens.

9. Select **Do not restart computer** and then click **Finish**.

**VC redistributable Installation**

**To install VC redistributable:**

1. Locate VC redistributable from the matching Evidian directory, for example on a 32 bit client:
2. Run `VCRedist_x86` as an administrator.

The following dialog boxes open in sequence, and the installation finishes with no summary or finish dialog box.

ESSO Agent Installation
To install the ESSO agent:

1. When the installation is finished, locate the ESSO agent from the matching Evidian directory, for example on a 32 bit client:

   `..\Evidian\E-SSO-v8[1].05b4348.2\E-SSO\INSTALL\ESSOAgent`

2. Double-click `ESSOAgent` and run `ESSOAgent` as an administrator.

   The Windows Installer dialog box opens.

   ![Windows Installer dialog box](image)

   The User Access Client installation dialog box opens.

   ![User Access Client installation](image)

3. Click Next.
The *License Agreement* dialog box opens.

4. Read the agreement then select **I accept the license agreement**, and then click **Next**.

The *Destination Folder* dialog box opens.

5. Select the desired destination folder then click **Next**. For this installation instruction use the default installation folder.
The *Select Installation Type* dialog box opens.

6. Select **Custom**, and then click **Next**.

**Note:** This scenario is a basic Evidian client installation integrated with Safenet Network logon. The settings described may differ on other installations.

For additional information consult Evidian support and documentation.

The *Select Features* dialog box opens.
7. Click **Authentication Manager** and then click **Entire feature will be unavailable.**

![Authentication Manager Feature Unavailable](image1)

A red X is displayed next to the **Authentication Manager** feature. The feature is disabled.

![Authentication Manager Feature Unavailable](image2)
8. Disable the **Biometrics enrollment tools** feature unless required by other installation constraints. Click **Enterprise SSO**.

![Select Features](image)

9. Click **Biometrics enrollment tools**.

![Select Features](image)

10. Click **Entire feature will be unavailable**

    A red X is displayed next to the **Biometrics enrollment tools** feature. The feature is disabled.
11. Click **Integration with windows**.

12. Click **Entire feature will be installed on local hard drive**.

   The red X is removed from next to the **Integration with windows** feature.

   The **Integration with windows** feature is enabled.
13. Ensure that the available options are as displayed in the following dialog box.

The following options are not installed:

♦ Authentication manager
♦ Biometrics enrollment tool
♦ Old IE plugin
♦ Enterprise SSO Studio
♦ Public access FUS
♦ Biometric Public access FUS
♦ FUS extension DLL
♦ User Access Console

14. Click **Next**.

The *Ready to install the application* dialog box opens.

15. Click **Next**.
The following *Updating System* dialog boxes open in sequence.

On completion the *User Access Client has been successfully installed* screen opens.

16. Click **Finish**.
Chapter 2
Setting up SNL for Evidian Integration

In this chapter:
- Additional information
- Prerequisites for SNL integration
- Installing SAC and SNL
- Testing your configuration

Additional information
SNL installation does not differ considerably from the standard installation; however a few adjustments need to be noted.

Note: Although previous SNL and SAC versions may work, Safenet recommends using Safenet SAC version 8.1 SP1, and SNL version 8 build 10 and later.

Prerequisites for SNL Integration
To install Safenet Network Logon integrated with Evidian, ensure the Evidian controller, work station and client installations from the previous chapter are completed. If SAC is already installed ensure it is the required version or later.

For the system to fully integrate, certain changes must be made in the following exact order.
1. SAC/SNL Installation
2. Registry key changes
3. Network logon profile creation with full UPN

Note: The following steps describe how to integrate SNL with Evidian User Access. Not following the steps exactly as described can render the system nonfunctional, and may require restarting the steps from the beginning.
Installing SAC and SNL

To install SAC and SNL:

1. Locate the **Safenet network logon package** installation file and run as administrator.

   ![Image of the Safenet network logon package installation file]

   The *Welcome* dialog box opens.

   ![Image of the Welcome dialog box]

   2. Click *Next*.
The License Agreement dialog box opens.

3. Read the agreement then select I accept the license agreement, and then click Next.

The Interface Language dialog box opens.

4. Select the language to use, and then click Next.
The *Destination Folder* dialog box opens.

5. Select the desired destination folder then click **Next**. For this installation instruction use the default installation folder.

The SAC installation starts, and on completion, the SNL is installed.

On completion the SAC icon is displayed in the notification area.
6. If the SAC icon is not displayed in the notification area, display the hidden icon icons by clicking the expansion arrow in the notification area.

7. Left click the SAC icon, and then click **Tools**.

The SAC Configuration dialog box opens.

8. Click the **Advanced View** icon 🔄.
The **SAC Advanced View** dialog box opens.

9. Click **Client Settings**.

The Client Settings details are displayed.

10. Click the **Advanced** tab.
The *Advanced* tab is displayed.

11. Select **Enable single logon**.

12. Click **Save**.
Setting the Registry

For the SNL integration to operate correctly, a registry change must be performed before creating the network profile.

The Evidian Settings for SafeNet Network Logon integration are written to the following registry location:

```
.HKEY_LOCAL_MACHINE\SOFTWARE\SafeNet\Authentication\SNL\General
```

The setting under the `EvidianSupport` DWORD value, is set to 1.

To set the registry:

1. Start the registry editor (for example by pressing the windows key + R combination, then typing `Regedit`).

2. Click OK.

The Registry Editor dialog box opens.

3. Navigate to the following location:
SNL integration with Evidian ESSO and User Access

4. Right-click in the right pane, then point to **New**, and then click **DWORD (32-bit) Value**.

The new value is added with the value’s name open for editing.

5. Name the value **EvidianSupport**.

6. Double click on the **EvidianSupport** value.
The *Edit DWORD (32-bit) Value* dialog box opens.

7. Change the Hexadecimal **Value data** to 1.

8. Click **OK**.
Creating a Network Logon Profile Compatible with Evidian

To create a network logon profile compatible with Evidian

1. On the taskbar, click **Start**, then click **Programs**, then click **SafeNet**, then click **SafeNet Network Logon**, and then click **SafeNet Logon Profile Wizard**.
The *Welcome to the SafeNet Logon Profile Wizard* dialog box opens.

![Welcome to the SafeNet Logon Profile Wizard dialog box](image1)

2. Click **Next**.

   The *Logon Information* dialog box opens.

![Logon Information dialog box](image2)

3. In the **User Name** field enter the full UPN name. This is a necessary setting for Evidian user access. Click **Next**.
The Domain Password for Profile dialog box opens.

4. Type the password in both the Current password and Confirm password fields exactly the same, and then click Next.

The Profile Information dialog box opens.

5. Review the settings and then click Next.
The *Token Logon* dialog box opens.

![Token Logon dialog box](image)

6. Type the **Token Password** and then click **OK**.

The *Profile Addition Success* dialog box opens.

![Profile Addition Success dialog box](image)

7. Click **Finish**.
Testing your Configuration

To test the configuration, a short user access setting example is provided. The example is a very basic and simple configuration to confirm the SNL integration with Evidian.

Note: This is only an example of using Evidian user access configuration. There are other ways to perform these actions. For additional information refer to Evidian's documentation.

Creating a Technical Definition

To create a technical definition:

1. On the taskbar, click Start, then click Programs, then click Evidian User Access, and then click Enterprise User Access.
The *Evidian User Access – Open Session* dialog box opens.

![Evidian User Access - Open Session dialog box](image)

2. Authenticate by typing the user **Password** provided during the installation or a user access Primary Administrative account, and then click **OK**.

   The *SSOConfig – Enterprise SSO Studio* window opens.

3. In the left navigation pane double-click **Enterprise SSO Studio Configuration**, then double-click **getset**, then double-click **Evidian User Access**, then double-click **Application Access**, and then double-click **Technical definitions**.

![SSOConfig - Enterprise SSO Studio window](image)
4. Left-click the **Technical definitions** node and select **New Technical Definition**.

The **Application properties** dialog box opens.
5. In the **Technical Definition name** field type the name to be used in this example is **test2**.

A new technical definition is created, indicated by a red colored icon.
Creating a Custom Script in the Technical Definition

To create a custom script in the technical definition:

1. Left-click the test2 technical definition, and then click **New Window**.
The *Windows properties* dialog box opens.

2. In the *General* tab, from the *Window type* drop-down list select **Custom Script**. For this example leave the *Window name* field as the already entered default name.
3. Click on the **Detections** tab.

The **Detections** tab opens.

![Detections tab](image1)

4. Open a Windows **Notepad** window.

![Notepad window](image2)

5. Drag and drop the target mark on the **Notepad** window onto the text box in the **Detections** tab.
The Detection tab displays an untitled Notepad entry.

6. Click on the Actions tab.

The Actions tab opens.

7. Click Script Editor.
The *Custom Script Editor* dialog box opens.

8. On the toolbar click the **Create new script** symbol , and then click **Send SSO Parameter**.
9. Select the Target as **Focused Window**.

10. Click **OK**.

Note that the **SendSSO** action is displayed in the workspace.
11. On the toolbar click the **Create new script** symbol 🔄, and then click **Send Key/String**.

![Custom Script Editor](image)

12. Select the **Send Key/String** as **Key**, and then from the **Key** drop-down list select **Enter**.
13. Select the Target as **Focused Window**.

14. Click **OK**.
15. On the toolbar click the **Create new script** symbol 📝, and then click **Return**.
16. Select the **Return** as **SSO Done**.

17. Click **OK**.
The *Custom Script Editor* closes and the *Actions* tab opens.

18. Ensure the previously created script items are displayed in the *Script* workspace, and then click **OK**.

19. Close the *Windows properties dialog* box.
20. In the The SSOConfig – Enterprise SSO Studio window left click the \texttt{test2} technical definition and click \textbf{Update directory}.

Notice the \texttt{test2} color changes to blue.

Creating an Application Definition and Assigning it a Technical Definition

\textbf{To create an application definition and Assign it a technical definition:}

1. Minimize the SSOConfig – Enterprise SSO Studio window.
2. On the taskbar, click **Start**, then click **Programs**, then click **Evidian User Access**, and then click **Enterprise User Console**.

The **Evidian User Access – Open Session** dialog box opens.

3. Authenticate by typing the user **Password** provided during the installation or a user access Primary Administrative account, and then click **OK**.

The **Evidian User Access Console** window opens.
4. In the left navigation pane double-click **Enterprise SSO User Access**, then double-click **Application Access**, and then double-click **Applications**.
5. Left-click the **Applications** node, then click **New**, and then click **Application**.
6. Name the application, in this example **test2**.

7. In the right pane click the **Configuration** tab.
   The **Configuration** tab opens.

8. In the **Configuration** tab click the **SSO** tab.
   The **SSO** tab opens.

9. In the **SSO** tab click the **Methods** tab.
The *Methods* tab opens.

10. Click **Select**.
The *Select Technical Definition* dialog box opens.

11. Double-click `getset`, then double-click `Evidian User Access`, then double-click `Application access`, then double-click `Technical definitions`, then click `test2`, and then click `OK`.

### Assigning a Technical Definition to a User

To assign a technical definition to a user:

1. Click on the **User Access** tab.
The User Access tab opens.

2. In the Access workspace, click Everybody, and then click Remove. A confirmation dialog box opens.

3. Click Yes.

4. To add another user account click Add.
The Select Users dialog box opens.

5. For this example click `user3@getset.local`. 
6. In the **Access Properties** workspace, from the **Access type** drop-down list select **Primary**.
7. In the **Access Properties** workspace, from the **Format** drop-down list select **Windows 2000 Joh.Doe@domain.com**.

8. Click **Apply**.
Notice the **Apply** button becomes grayed out.
To update the setting in the domain:

1. On the File menu, click **Manage Updates**.
The *Update Management* window opens.

![Update Management window](image)

2. **Click Post an Update.**

   A confirmation dialog box opens.

   ![Confirmation dialog box](image)

3. **Click OK.**

Logging in and Confirming the Configuration

**To log in and confirm the configuration:**

1. On the workstation containing both Evidian user access and SNL installations insert the USB token then press `Alt-Ctr-Del` to log in. Wait for a few seconds for the token to be recognized.
The dialog box changes from the following:

![Image of the initial dialog box]

To the following dialog box while the token is being recognized:

![Image of the changed dialog box]
Once the user token is identified, the following dialog box opens.

2. Select the symbol representing the Safenet Network logon with the relevant token. In this example select \GetSet\user3 (Homp_phy) and type the Token Password, and then press OK.

After the logon process completes, the Evidian user access icon is displayed in the notification area.

3. Point to the Evidian user access icon in the notification area.
The Evidian command options are displayed.

Note the user name UPN is displayed.

4. Open a Notepad window, for example by typing `notepad` under the search programs and files search field.

The Notepad application opens and automatically types the Username and an Enter.
5. If **Notepad** does not open click the Evidian user access icon in the notification area.

![](image1.png)

The **Enterprise SSO: Single Sign-On Engine** dialog box opens.

![](image2.png)

6. Click the **Reload the technical references** symbol.

7. In the right symbol area click the **Account** (keys icon) symbol.

![](image3.png)

In the right pane the **Application** and **Login Name** is displayed.
8. If the application and login name are not displayed, left click the Evidian user access icon in the notification area, and click **Reset Configuration**.

![Enterprise SSO: Single Sign-On Engine dialog box](image)

The *Enterprise SSO: Single Sign-On Engine* dialog box opens.

9. Repeat the steps for reloading the technical definitions.

**Note:** When the login the *Evidian User Access – Open Session* login window open recheck the configuration.

![Evidian User Access - Open Session](image)

For more information refer to the Evidian documentation and support.