SafeNet Authentication Client
Integration Guide

Using SafeNet Authentication Client CBA for Evidian ESSO
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Third-Party Software Acknowledgement

This document is intended to help users of Gemalto products when working with third-party software, such as Evidian ESSO.

Material from third-party software is being used solely for the purpose of making instructions clear. Screen images and content obtained from third-party software will be acknowledged as such.

Description

Customers today are looking to desktop virtualization to transform static desktops into dynamic mobile workspaces that can be centrally and securely managed from the datacenter, and accessed across a wide range of devices and locations. Deploying desktop virtualization without strong authentication is like putting your sensitive data in a vault (the datacenter), and leaving the key (user password) under the door mat. A robust user authentication solution is required to screen access and provide proof-positive assurance that only authorized users are allowed access.

SafeNet Authentication Client (SAC) is a Public Key Infrastructure (PKI) middleware that provides a secure method for exchanging information based on public key cryptography, enabling trusted third-party verification of user identities. SafeNet’s certificate-based tokens provide secure remote access, as well as other advanced functions, in a single token, including digital signing, password management, network logon, and combined physical/logical access.

The tokens come in different form factors, including USB tokens, smart cards, and software tokens. All of these form factors are interfaced using a single middleware client, SafeNet Authentication Client (SAC). The SAC generic integration with CAPI, CNG, and PKCS#11 security interfaces enables out-of-the-box interoperability with a variety of security applications offering secure web access, secure network logon, PC and data security, and secure email. PKI keys and certificates can be created, stored, and used securely with the hardware or software tokens.

SafeNet Authentication Manager (SAM) provides your organization with a comprehensive platform to manage all of your authentication requirements, across the enterprise and the cloud, in a single, integrated system. SAM enables management of the complete user authentication life cycle. SAM links tokens with users, organizational rules, and security applications to allow streamlined handling of your organization's authentication infrastructure with a flexible, extensible, and scalable management platform.

SAM is a comprehensive token management system. It is an out-of-the-box solution for Public Certificate Authorities (CA) and enterprises to ease the administration of SafeNet’s hardware or software tokens devices. SAM is designed and developed based on the best practices of managing PKI devices in common PKI implementations. It offers robust yet easy to customize frameworks that meets different organizations’ PKI devices management workflows and policies. Using SAM to manage tokens is not mandatory, but it is recommended for enterprise organizations.

For more information, refer to the SafeNet Authentication Manager Administrator Guide.

The number of passwords required from users never stops growing. It becomes necessary to simplify access to your information system, but also to increase security by reducing the risk of losing or sharing passwords.

Evidian Enterprise SSO replaces user passwords with a single authentication such as a password, biometrics, a smartcard or a radio badge. Access is immediate, whether the applications are internal or external to the company.
The result for users is simplified access to their applications – they automatically comply with the security policy. And by removing tiresome administration tasks, Evidian Enterprise SSO simplifies information system management.

This document provides guidelines for deploying certificate-based authentication (CBA) for user authentication to Evidian ESSO using Gemalto tokens and smart cards.

It is assumed that the Evidian ESSO environment is already configured and working with static passwords prior to implementing Gemalto multi-factor authentication.

Evidian ESSO can be configured to support multi-factor authentication in several modes. CBA will be used for the purpose of working with Gemalto products.

### Applicability

The information in this document applies to:

- **SafeNet Authentication Client (SAC) Typical installation mode**— SafeNet Authentication Client is public key infrastructure (PKI) middleware that manages Gemalto’s tokens and smart cards.
- **SafeNet Authentication Client (SAC) IDGo800 Compatible mode**— IDGo800 Minidriver based package, uses Microsoft Smart Card Base Cryptographic Provider to manage Gemalto IDPrime MD smart cards.
- **Enterprise SSO 9**

For more details about different SAC installation modes, refer to the Customization section in the *SafeNet Authentication Client Administrator Guide*.

### Environment

The integration environment that was used in this document is based on the following software versions:

- **SafeNet Authentication Client (SAC)**— *version 10.2*
- **Evidian ESSO**

### Audience

This document is intended for system administrators who are familiar with Evidian ESSO, and are interested in adding certificate-based authentication capabilities using Gemalto tokens and smart cards.
CBA Flow using SafeNet Authentication Client

The diagram below illustrates the flow of certificate-based authentication:

1. A user attempts to login to an application using the Evidian ESSO client application. The user inserts the Gemalto token/smart card on which his certificate resides, and, when prompted, enters the token/smart card password.

2. After successful authentication, the user is authenticated to the application.
Prerequisites

This following prerequisites must be installed and configured before implementing certificate-based authentication for Evidian ESSO using Gemalto tokens and smart cards:

- To use CBA, the Microsoft Enterprise Certificate Authority must be installed and configured. In general, any CA can be used. However, in this guide, integration is demonstrated using Microsoft CA.
- If SAM is used to manage the tokens, Token Policy Object (TPO) must be configured with the MS CA Connector. For further details, refer to the section “Connector for Microsoft CA” in the SafeNet Authentication Manager Administrator’s Guide.
- Users must have a Gemalto token/smart card with an appropriate certificate enrolled on it.
- SafeNet Authentication Client 10.2 should be installed on all client machines.

Supported Tokens in SafeNet Authentication Client

SafeNet Authentication Client (SAC) supports a number of devices that can be used as a second authentication factor for users who authenticate to Evidian ESSO.

SafeNet Authentication Client 10.2 (GA) supports the following tokens:

Certificate-based USB tokens
- SafeNet eToken 5110 GA
- SafeNet eToken 5110 FIPS
- SafeNet eToken 5110 CC

Smart Cards
- Gemalto IDPrime MD 830
- Gemalto IDPrime MD 840

For a full list of all supported devices, refer to the SafeNet Authentication Client Customer Release Notes.
Configuring Evidian ESSO

In this section we will describe how to configure CBA with Evidian ESSO.

NOTE: This document assumes that Evidian ESSO is installed and configured with windows and password authentication.

In this guide we’ll demonstrate a demo app that was written to show the ESSO ability, to authenticate an application.

Updating Token/Smart Card Support on the Server

To update token support, download the configuration file (TokenManagerStructure.xml) from here: KB0015671

To enable Evidian to support Gemalto’s smart cards and tokens, perform the following update:

1. Open the Evidian User Access Console.

2. Select File > Configuration.

3. Select the Authentication tab.

4. Under Authentication token description file, click Select and import the TokenManagerStructure.xml file.
5. Click OK
6. Restart the server.

Configuring the Server

In this section, we will configure the Evidian server for CBA through the Evidian User Access Console.

1. Open the Evidian User Access Console.

2. Select Accounts and access rights management. The Evidian User Access Console opens.

3. In the left pane, under Directory, select Program Data > IAM > Default user profile.
4. On the right pane, select the **Configuration** tab. Under the **Authentication** sub tab, select the relevant token/smart card support *(SafeNet-Gemalto* for the tokens and *IDPrime* for the Gemalto smart cards).

5. Click **Apply**.

6. On the left pane, select **Default access point profile**.

7. In the right pane, in the **Security Services** tab under **Authorized authentication methods**, select the relevant method *(SafeNet-Gemalto* for token support of *IDPrime* for Gemalto smart cards)

8. Click **Apply**.

9. On the left pane, select **Default application profile**.
10. In the right pane, in the **Configuration** tab under **Configuration**, select the relevant method (**SafeNet-Gemalto** for token support of **IDPrime for Gemalto** smart cards)

11. Click **Apply**.

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**Running the Solution**

In this section, we will demonstrate the authentication to Evidian ESSO 9 with Gemalto token/smart card using the SafeNet Authentication Client. In this section we will use a demo app to demonstrate the ESSO authentication with the user Bob.

1. Login to the client and open the Evidian ESSO software.

2. Double click on the TestApp demo application. The ESSO authentication window opens.

3. In the **Login** field, select the smart card/token, enter the PIN code and click **OK**.
After successful authentication, the application is executed and the user is not required to re-authenticate.
Support Contacts

If you encounter a problem while installing, registering, or operating this product, please make sure that you have read the documentation. If you cannot resolve the issue, contact your supplier or Gemalto Customer Support. Gemalto Customer Support operates 24 hours a day, 7 days a week. Your level of access to this service is governed by the support plan arrangements made between Gemalto and your organization. Please consult this support plan for further information about your entitlements, including the hours when telephone support is available to you.

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