SafeNet Authentication Client (Mac)

Version 10.2 (GA) User Guide



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Product Version: 10.2 Mac (GA)

Document Number: 007-013725-002, Rev B

Release Date: November 2018

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Additional Documentation

The following publications are available:

- 007-013726-002 SafeNet Authentication Client 10.2 (GA) Administrator Guide Rev B
- 007-013724-002 SafeNet Authentication Client 10.2 (GA) Release Notes (RN) Rev B

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Introduction

SafeNet Authentication Client (SAC) is a middleware client that manages Gemalto's extensive SafeNet portfolio of certificate-based authenticators, including eToken, IDPrime smart cards, iKey smart card, USB and software-based devices.

With full backward compatibility and incorporating features from previous middleware versions, SafeNet Authentication Client ensures complete support for all currently deployed eToken and iKey devices, as well as IDPrime MD and .NET smart cards.

Overview

SafeNet Authentication Client is 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. It utilizes a system of digital certificates, Certificate Authorities, and other registration authorities that verify and authenticate the validity of each party involved in an internet transaction.

SafeNet Authentication Client enables the implementation of strong two-factor authentication using standard certificates as well as encryption and digital signing of data. Generic integration with Keychain and PKCS#11 security interfaces enables out-of-the-box interoperability with a variety of security applications offering secure web access, PC and data security, and secure email. PKI keys and certificates can be created, stored, and used securely from within hardware or software.

The SafeNet Authentication Client Tools application and the SafeNet Authentication Client tray icon application are installed with SafeNet Authentication Client, providing easy-to-use configuration tools for users and administrators.



NOTE:

The term Token is used throughout the document and is applicable to both Smart Cards and USB Tokens.

SafeNet Authentication Client User Interface

This section describes the SafeNet Authentication Client Mac user interfaces.



NOTE:

- If a customized version of SafeNet Authentication Client is installed, the graphics you see may be different from those displayed in this guide.
- In some instances, the word Password is replaced by PIN or Passcode.
- The term Token is used throughout the document and is applicable to both Smart Cards and USB Tokens.

Overview of SafeNet Authentication Client User Interface

Administrators use SafeNet Authentication Client Tools to set token policies. Users use SAC Tools to perform basic token management functions, such as changing passwords and viewing certificates on the tokens. In addition, SAC Tools provides users and administrators with a quick and easy way to import digital certificates and keys between a computer and a token.

SAC Tools includes an initialization feature allowing administrators to initialize tokens according to specific organizational requirements or security modes, and a password quality feature, which sets parameters to calculate a token password quality rating.

SAC Tools provides information about the token, including its identification and capabilities. It has access to information stored on the token such as keys and certificates, and enables management of content, such as password profiles.



CAUTION:

Do not disconnect a token from the USB port, or remove a smart card from the reader, during an operation. This can corrupt the data on the token or smart card.

SafeNet Authentication Client provides two user interfaces:

- SafeNet Authentication Client Tray Icon (Monitor)
 - · for quick access to several token operations.
- SafeNet Authentication Client Tools
 - provides information about each connected token, including its identification and capabilities.
 - can access information stored on each connected token, such as keys and certificates.
 - enables management of token content, such as password policy.

SafeNet Authentication Client Tray Icon

The SafeNet Authentication Client tray icon offers a shortcut menu to several token operations.

The SafeNet Authentication Client tray icon is displayed as follows:

No Tokens Connected	One Token Connected	Multiple Tokens Connected
9	<u>s</u>	S

Running the SafeNet Authentication Client Monitor

The SafeNet Authentication Client tray icon is displayed only when the SafeNet Authentication Client Monitor is running.



NOTE:

If SafeNet Authentication Client is running and the tray icon is not displayed, see Chapter 9: Showing the SafeNet Authentication Client Tray Icon, on page 87.

To open SafeNet Authentication Client Monitor on Mac:

From the Mac desktop, select Go > Applications > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client.

SAC Tray Menu Functions

The following functions can be accessed quickly by right-clicking the tray menu:

- Tools: opens SafeNet Authentication Client Tools.
- About: displays product version information and license information, and enables license import.
- **Token selection:** allows you to select one of the connected tokens to be the active token. This function is available only when more than one token is connected.
- Change Token Password: opens the *Change Password* window for the selected token. See Chapter 4: Changing the Token Password, on page 37.
- **Unlock Token:** opens the *Token* window for the selected token. See Chapter 4: *Unlocking a Token by the Challenge-Response Method*, on page 40.
- **Exit:** closes SafeNet Authentication Client and SAC Monitor (tray icon).

The following functions may be displayed, depending on the configuration of your system:

- Delete Token Content: removes the deletable data from the selected token.
- **Generate OTP:** generates an OTP on the selected *SafeNet Virtual token*. This function is available only if the selected *SafeNet Virtual token* is configured to support this function.
- Certificate Information: displays a list of certificates stored on the token.
- Token Activation: activate a token that's protected with an Activation PIN.

Opening the SafeNet Authentication Client Monitor (Tray Menu)

To access the shortcut menu from the SafeNet Authentication Client Monitor:

Right-click the SafeNet Authentication Client Monitor (Tray icon).

Selecting the Token from the SAC Monitor (Tray Menu)

If more than one token is connected, select which token to work with.

To select from multiple tokens from the tray menu:

1. Right-click the SafeNet Authentication Client tray icon.

The SafeNet Authentication Client tray menu opens. Among the options, a list is displayed of the names and serial numbers of the connected tokens.



2. Hover the mouse over the required token.

Options for the selected token are displayed.



3. Select the required option.

Closing SafeNet Authentication Client Monitor

To close SafeNet Authentication Client monitor:

- 1. Right-click the SafeNet Authentication Client tray icon, and from the shortcut menu, select **Exit**. A warning message is displayed.
- 2. Click OK.

SafeNet Authentication Client Tools

Users use SafeNet Authentication Client Tools to perform basic token management functions, such as changing passwords and viewing certificates on a connected token. In addition, SafeNet Authentication Client Tools provides users with a quick and easy way to import keys from a computer to a token, and to transfer digital certificates between a computer and a token.

Administrators use SafeNet Authentication Client Tools to set token policies and other management operations. It allows administrators to initialize tokens according to specific organizational requirements or security modes. A password quality feature is included, that sets parameters to calculate a token password quality rating.



CAUTION:

Do not disconnect a token from the USB port, or a smart card from the reader, during an operation. This can corrupt the data on the token or smart card.

SafeNet Authentication Client Tools includes two viewing options:

- **Simple view:** to perform common tasks See "Opening the Simple View" on page 13.
- Advanced view: for extensive control over SafeNet Authentication Client and your connected tokens See "Opening the Advanced View" on page 16.

Each view displays two panes:

- The left pane indicates which token (Simple view) or which object (Advanced view) is to be managed.
- The right pane enables the user to perform specific actions to the selected token or object.

A toolbar at the top of the window enables certain actions to be initiated in both views.

SafeNet Authentication Client Tools Toolbar

A toolbar is displayed at the top of the SafeNet Authentication Client Tools window, in both *Simple* and *Advanced* views. The toolbar contains the following icons:

Icon	Action
	Advanced View – switches from the Simple to the Advanced view
	Simple View – switches from the Advanced to the Simple view
	Refresh – refreshes the data for all connected tokens
1	About – displays product version information and license information, and enables license import
3	Help – opens this document in PDF
	Home – opens the company website (https://safenet.gemalto.com)

Opening the Simple View

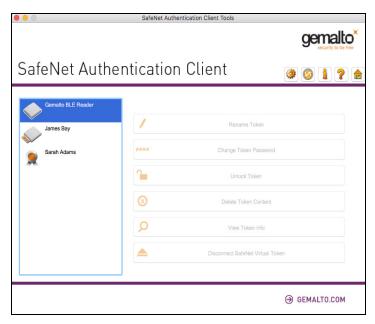
When SafeNet Authentication Client Tools is opened, the Simple view is displayed.

To open SafeNet Authentication Client Tools:

Do one of the following:

- Right-click the SafeNet Authentication Client tray icon, and from the shortcut menu, select Tools.
- From the Mac desktop, select Go > Applications > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client Tools.

The SafeNet Authentication Client Tools window opens in the Simple view.





NOTE:

If a customized version of SafeNet Authentication Client is installed, the graphics you see may be different from those displayed in this guide.

When at least one token is connected, an icon representing each connected token is displayed in the left pane. The selected token is marked by a shaded rectangle.

Token Icons

The icon displayed indicates the type of token that is connected.

Icon	Token Type		
	Smart Card reader – card connected: Gemalto IDPrime MD 830-FIPS/830-ICP Gemalto IDPrime MD 3810 Gemalto IDPrime MD 840/840 B SafeNet IDPrime MD 940/3940 B IDCore30B eToken	See the SafeNet Authentication Client Release Notes for the full list of supported Smart Cards.	
	Smart Card Reader – no card connected		
	 SafeNet Virtual Token (without OTP support) SafeNet eToken 5110/FIPS/CC SafeNet eToken 5300 	For a full list of supported tokens, see the Supported Tokens and Smart Cards section in the SafeNet Authentication Client Release Notes.	
1530.00	SafeNet Virtual Token		
December	SafeNet Virtual Temp Token		
	SafeNet Rescue Token		
	Token with corrupted data	Note: This icon is also displayed when connecting an SafeNet IDPrime MD 940/3940 device, which needs to be activated using an Activation PIN. See	
8	Unknown token		

Simple View Functions

In the right pane, select an enabled button to perform the action described:

Function	Description
Rename Token	Sets a new name for the token
Change Token Password	Changes the token password
Unblock Token	Unblocks the token and resets the token password
Delete Token Content	Removes deletable data from the token (enabled by default)
View Token Info	Provides detailed information about the token
Disconnect SafeNet Virtual Token	Disconnects the SafeNet Virtual Token or SafeNet Rescue Token, with an option to also delete it

Opening the Advanced View

The SafeNet Authentication Client Tools Advanced view provides additional token management functions.

To open the SafeNet Authentication Client Tools Advanced view:

- 1. Do one of the following:
 - Right-click the SafeNet Authentication Client tray icon, and from the shortcut menu, select Tools.
 - From the Mac desktop, select Go > Applications > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client Tools.

The SafeNet Authentication Client Tools window opens in the Simple view.

Click the Advanced View icon.

The SafeNet Authentication Client Tools window opens in the Advanced view.



The left pane provides a tree view of the different objects to be managed. The tree expands to show objects of the connected tokens.

Advanced View Functions

You can access the advanced functions by selecting the required object from the left pane in the Tools *Advanced* view window.

To access the Advanced functions:

 In the SafeNet Authentication Client Tools Advanced view window, expand the tree in the left pane to display the required object.

The relevant functions are displayed in the right pane.

- 2. Do one of the following:
 - In the left pane, right-click the object, and select the required function from the shortcut menu.
 - In the left pane, select the object.
 In the right pane, click the appropriate icon, or select the required tab.

Tokens Node

When you select the *Tokens* node in the left pane, the list of connected devices is displayed in the right pane, and function icons are displayed above them.



The following functions are available:

Function	Icon	Right-Click Menu Item
Reader Settings		Reader Settings
Connect SafeNet Virtual Token See Chapter 6: Connecting a SafeNet Virtual Token, on page 71.	0	Connect SafeNet Virtual Token

Selected Token Node

The token names are displayed in the left pane. When you select a token name, the following occurs:

- Information about the token is displayed in the right pane, and function icons are displayed above it
- The name of the token reader is displayed in the tool-tip

Right-click a token name to open a drop-down menu of the functions available for that token.

The following user functions are available:

User Function	Icon	Right-Click Menu Item
Initialize Token See Chapter 5: <i>Token Initialization</i> , on page 51.	2	Initialize Token
Log On to Token See Chapter 4: Logging On to the Token as a User, on page 35.	B	Log On to Token
Import Certificate See Chapter 4: Importing a Certificate to a Token, on page 43.	Į.	Import Certificate
Change Password See Chapter 4: Changing the Token Password, on page 37.		Change Password
Rename Token See Chapter 4: <i>Renaming a Token</i> , on page 36.		Rename Token
Disconnect SafeNet Virtual Token (Enabled for SafeNet Virtual Token or SafeNet Rescue Token only) See Chapter 6: <i>Disconnecting or Deleting a SafeNet Virtual Token</i> , on page 71.		Disconnect
Copy to Clipboard See Chapter 4: Viewing and Copying Token Information, on page 34.		(None)
Change Digital Signature PIN See Chapter 7: Change Digital Signature PIN (page 76)	9	Change Digital Signature PIN
Change Digital Signature PUK See Chapter 7: Change Digital Signature PUK (page 77)	*	Change Digital Signature PUK
Set Digital Signature PIN See Chapter 7: Set Digital Signature PIN (page 78)	*	Set Digital Signature PIN



NOTE:

Depending on the token type, additional options may be displayed in the dropdown menu.

Some administrator functions are available only if an Administrator Password has been set for the token. The administrator icons are located on the right side of the window, enclosed within a border:



See Chapter 4: Logging On to the Token as an Administrator, on page 47.

NOTE:

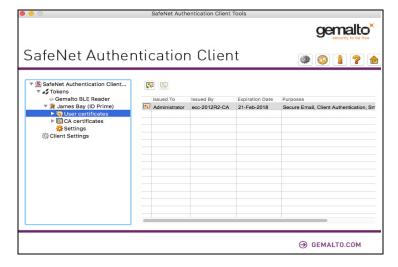
Administrator functions are not supported by iKey devices. The option is available on iKey devices that were initialized using BSec with the keys. After an iKey device is locked the option becomes available.

Certificate Type Node

If the selected token contains certificates, the following *Certificate Type* nodes are displayed in the left pane under the token's node:

- User Certificates
- Administrator (ECC)
- Certificate Authority Certificates (CA)
- Common Criteria Certificates (CC)

When you select a *Certificate Type* node, a list of the appropriate certificates on the token is displayed in the right pane.



Depending on the certificate type, the following functions may be available:

User Function	lcon	Right-Click Menu Item
Import Certificate See Chapter 4: Importing a Certificate to a Token, on page 43.		Import Certificate
Reset Default Certificate Selection	<u> </u>	Reset Default Certificate Selection. (Windows only)

A node for each certificate is displayed in the left pane under the Certificate Type node.

Common Criteria Certificates

Common Criteria (CC) Certificates are supported by eTokens and Gemalto IDPrime MD cards.

Common Criteria certified devices require a common criteria certificate to be imported onto the token/card. This provides an extra authentication layer for digital signing purposes.

See Chapter 4: "Importing Common Criteria Certificates" on page 45.

The following devices support CC:

- SafeNet eToken 5110 CC
- SafeNet IDPrime MD 940
- SafeNet IDPrime MD 3940
- Gemalto IDPrime MD 840
- Gemalto IDPrime MD 840 B
- Gemalto IDPrime MD 3840
- Gemalto IDPrime MD 3840 B

If some Common Criteria Certificates exist on the token, the CC Certificate Type node is displayed in the left pane under the tokens node:



ECC Certificates

ECC Certificates are supported by eTokens and Gemalto IDPrime MD cards.

The following devices support ECC:

- SafeNet eToken 5110, 5110 HID
- SafeNet eToken 5110 FIPS
- SafeNet eToken 5300
- SafeNet IDPrime 940
- SafeNet IDPrime 3940
- Gemalto IDPrime MD 830-FIPS
- Gemalto IDPrime MD 830-ICP
- Gemalto IDPrime MD 830 B
- Gemalto IDPrime MD 840 B
- Gemalto IDPrime MD 3840
- Gemalto IDPrime MD 3840 B
- Gemalto IDPrime MD 3810
- Gemalto IDPrime MD 3810 MIFARE 1K
- Gemalto IDPrime MD 3811
- Gemalto IDCore 30B eToken

Selected Certificate Node

When you select a certificate under the *User certificates*, *CA certificates*, or *CC certificates* node, information about the certificate is displayed in the right pane.

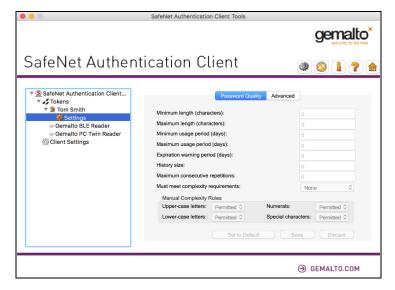


Some or all of the following functions are available:

User Function	Icon	Right-Click Menu Item
Delete Certificate See "Deleting a Certificate" on page 47.	狊	Delete Certificate
Export Certificate See "Exporting a Certificate from a Token" on page 46.		Export Certificate
Set as Default	(None)	Set as Default. (Windows only)
Set as Auxiliary	(None)	Set as Auxiliary. (Windows only)
Copy to Clipboard See "Viewing and Copying Token Information" on page 34.		(None)
Set as KSP / Set as CSP	(None)	Set as KSP / Set as CSP. (Windows only)

Settings Node

Each connected device has a Settings node. Select it to see the settings in the right pane.



The following tabs exist for eToken devices:

- Password Quality
 See Chapter 10: Setting eToken Password Quality (Password Quality Tab) (page 89).
- Advanced
 See Chapter 10: Setting Private Data Caching Mode (Advanced Tab) (page 91).

NOTE:

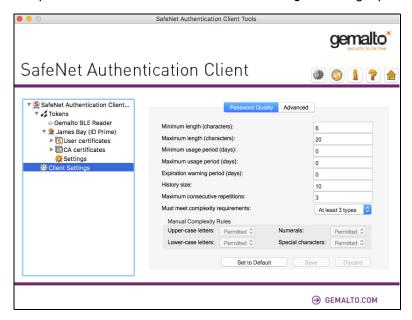
The Advanced tab is not used for iKey devices..

The following tabs exist for IDPrime MD and eToken 5110 CC devices:

- · PIN Properties
 - See Chapter 10: Setting IDPrime PIN Quality (PIN Quality Tab) (page 93)
- Advanced
 - See Chapter 10: Setting IDPrime PIN Properties (Advanced Tab) (page 95)

Client Settings Node

Even when no tokens are connected, the left pane includes a *Client Settings* node. Select it to view your computer's *SafeNet Authentication Client Settings* in the right pane.



The changes you make to the Client Settings window will affect eToken devices (excluding eToken 5110 CC) that will be initialized using this computer after the changes have been saved.

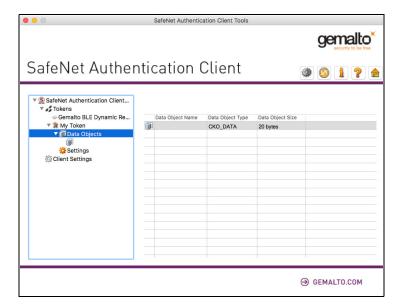
Like the Settings window, the Client Settings window contains two tabs:

- · Password Quality
- Advanced

See Chapter 9: Client Settings, on page 85.

Data Objects Node

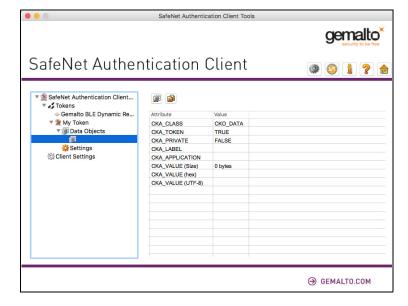
Tokens used with Entrust applications have a Data Objects node which contains PKCS#11 data objects.



To view the contents of a data object:

- In the left pane, under the token's node, expand the Data Objects node.
 Details of all the data objects (Name, Type, and Size) are displayed in the right pane.
- 2. Select a data object.

The contents of the data object (Value Name and Value Type) are displayed in the right pane.



To delete a data object:

- 1. Select the value to be deleted.
- 2. Click the **Delete Data Object** icon

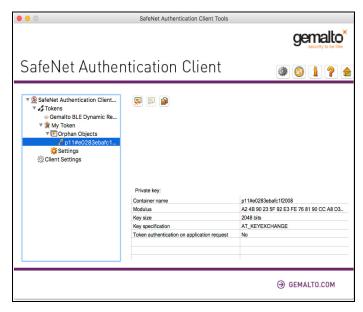
Orphan Objects Node

An orphan object is a certificate without its key or a key without its certificate. A token's *Orphan Objects* node displays these objects.

To view a token's orphan objects:

- 1. In the left pane, under the token's node, expand the **Orphan Objects** node.
- 2. Select an orphan object.

The certificate data or the key data of the orphan object is displayed in the right pane.



To delete an orphan object:

- 1. Right-click the Orphan Object on the left, and select **Delete**.
- 2. Click the **Delete Orphan Object** icon

Using PIN Pad Readers with SAC

This chapter describes the capabilities and limitations of using PIN pad readers with IDPrime cards. A PIN pad reader can be any device that has a keyboard for secure PIN entry, this could for example be a keyboard with an embedded smart card reader. PIN pad readers are usually associated with smart cards that have the PIN type set up as External PIN.

The following cards are supported with PIN Pad readers:

- SafeNet IDPrime MD 940
- SafeNet IDPrime MD 3940
- Gemalto IDPrime MD 830
- Gemalto IDPrime MD 830 B (FIPS level 2)
- Gemalto IDPrime MD 840
- Gemalto IDPrime MD 840 B
- Gemalto IDPrime 3840
- Gemalto IDPrime 3840 B
- Gemalto IDPrime 3810
- Gemalto IDPrime 3811

Using PIN Pad Readers with IDPrime MD Cards

The following PINs can be defined as **External** PINs for SAC PKCS#11 library (and are used with PIN pad readers):

- Roles 1, 3 and 4 SafeNet IDPrime MD 940 and 3940 Cards
- Roles 1, 3 and 4 Gemalto IDPrime MD 840 and 3840 Cards
- Role 1 only Gemalto IDPrime MD 830 and 3810



NOTE:

PIN Pad Readers can be used for Role 3 (Digital Signature PIN) of IDPrime MD cards. Note that the PIN entry will be requested for each signature performed with Role 3 as Role 3 protects certificates with non repudiation key usage.

PIN Pad Management Scenarios

The table below describes the different scenarios for PINs and PIN pad readers:

Scenario	Initial PIN Type	Connected Reader	PIN Operating Mode
1	Regular	Normal	Regular
2	Regular	PIN Pad	External (See the NoAutoPINpad flag below)
3	External	Normal	Regular(See the NoRegularFallback flag below)
4	External	PIN Pad	External

Regular - PIN is entered using the computer keyboard

External - PIN is entered using an external PIN pad reader

Setting the NoRegularFallback flag changes the third scenario as follows:

External PIN & Normal Reader - Login refused

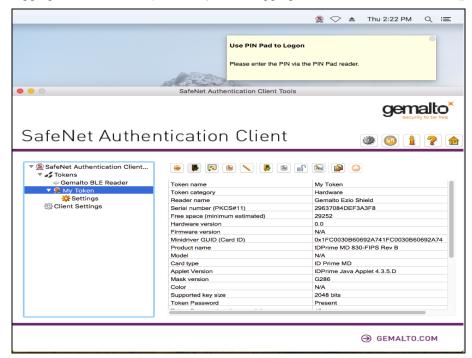
Setting the NoAutoPINpad flag changes the second scenario as follows:

Regular PIN & PIN Pad Reader - Regular PIN

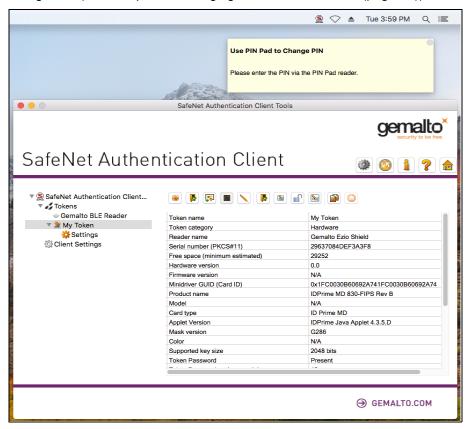
PIN Pad Functions

When performing the functions below using a PIN pad reader, the *Use PIN pad to...* notification window appears requiring the PIN to be entered using the PIN pad reader.

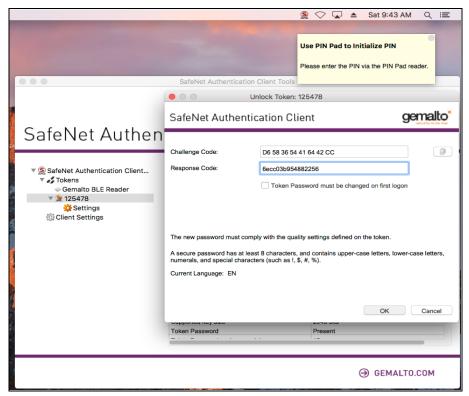
Logging on to the token (See Chapter 4: Logging On to the Token as a User (page 35))



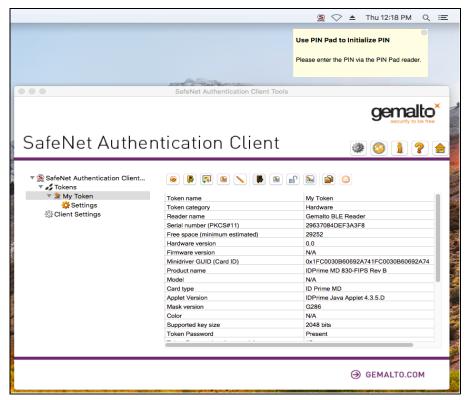
• Change PIN (See Chapter 4: Changing the Token Password (page 37))



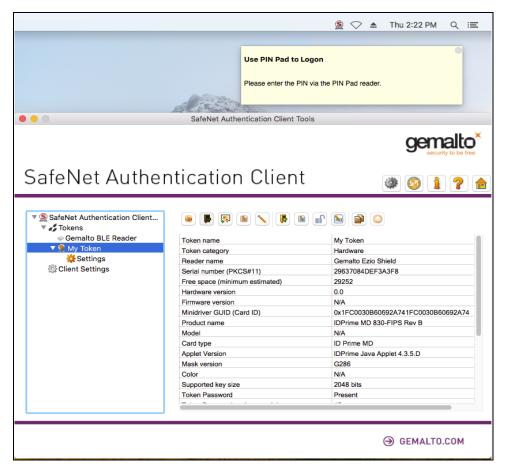
• Unlock Token by the Challenge Response Method (See Chapter 4: Unlocking a Token by the Challenge-Response Method (page 40))



 Setting a Token Password by an Administrator (See Chapter 4: Setting a Token Password by an Administrator (page 49))



When performing a See What You Sign (SWYS) operation, information is displayed on a SWYS reader and must be signed using the SWYS PIN Pad reader.



PIN Pad Functional Limitations

The following functional limitations exist with the PIN pad:

- Secure Messaging (SM) PINs are not supported (FIPS level 3)
- EZIO Shield PRO reader does not support Secure Messaging (SM) protected operations such as import key pair, generate key pair and change administrator key.
- Some PIN pad readers (i.e. EZIO Bluetooth and EZIO BLE) have their own built-in password policies.
 When changing the password via these readers, the new password must comply with both the reader's password quality and card password quality policies.

Token Management

SafeNet Authentication Client Tools and the SafeNet Authentication Client tray menu enable you to control the use of your tokens.

When running a management task, ensure that the appropriate token remains connected until the process completes!



NOTE:

If a customized version of SafeNet Authentication Client is installed, the graphics you see may be different from those displayed in this guide.

Selecting the Active Token

If more than one token is connected, select which token to work with.

To set a token as the active token from the SafeNet Authentication Tools window:

- Open SafeNet Authentication Client Tools.
 See Chapter 2: Opening the Simple View, on page 13 or Opening the Advanced View on page 16.
- 2. In the left pane, select the required token.

To set a token as the active token from the tray icon:

- Right-click the SafeNet Authentication Client tray icon.
 The SafeNet Authentication Client tray menu opens.
- 2. Select the required token from the tray menu by hovering over the relevant token name. A sub-menu appears displaying a list of tasks that can be performed on the active token.
- 3. Select the relevant option from the sub-menu.

Viewing and Copying Token Information

To view and copy token information:

- 1. To use the Simple view to view token information, do the following:
 - a. Open SafeNet Authentication Client Tools Simple view.
 See Chapter 2: "Opening the Simple View" on page 13.
 - b. In the left pane, select the required token.
 - c. In the right pane, select View Token Info.
 - d. Continue with step 3.
- 2. To use the *Advanced* view to view token information, do the following:
 - Open SafeNet Authentication Client Tools Advanced view.
 See Chapter 2: "Opening the Advanced View" on page 16.
 - b. In the left pane, select the node of the required token.
 - c. Continue with step 3.
- 3. The *Token Information* is displayed.

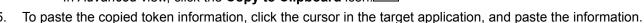
The information displayed varies according to the type of token.



NOTE:

The Unblocking Codes retries remaining field for iKey devices is displayed only when the token is locked.

- 4. To copy the token information to the clipboard, do one of the following:
 - In the Token Information window, click Copy.
 - In Advanced view, click the Copy to Clipboard icon:



6. Click OK.

Logging On to the Token as a User

You must log on to the token before you can use or change its token content.

To log on as a user:

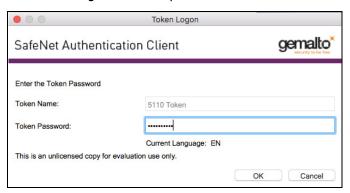
 Open SafeNet Authentication Client Tools Advanced view. See Chapter 2: "Opening the Advanced View" on page 16.



NOTE:

If the **Log Off from Token** icon or the **Log Off** option is displayed, you are already logged on to the token.

- 2. Do one of the following:
 - In the left pane, select the node of the required token.
 In the right pane, click the Log On to Token icon:
 - In the left pane, right-click the node of the required token, and select **Log On** from the shortcut menu.
- 3. The Token Logon window opens.



4. Enter the token password, and click **OK**.

You are logged on to the token.

Renaming a Token

The token name does not affect the token contents. It is used solely to identify the token.



TIP:

If you have more than one token, we recommend assigning each one a unique token name.

To rename a token:

- 1. To use the Simple view to rename a token, do the following:
 - Open SafeNet Authentication Client Tools Simple view.
 See Chapter 2: "Opening the Simple View" on page 13.
 - b. In the left pane, select the required token.
 - c. In the right pane, select Rename Token.
 - d. Continue with step 3.
- 2. To use the Advanced view to rename a token, do the following:
 - Open SafeNet Authentication Client Tools Advanced view.
 See "Opening the Advanced View" on page 16.
 - b. Do one of the following:
 - In the left pane, select the node of the required token.

In the right pane, click the **Rename Token** icon:



- In the left pane, right-click the node of the required token, and select **Rename Token** from the shortcut menu.
- c. Continue with step 3.

The *Token Logon* window opens.

3. Enter the token password, and click **OK**.

The Token Rename window opens.

4. Enter the new name in the *New token name* field, and click **OK**.

The new token name is displayed in the SafeNet Authentication Client Tools window.

Changing the Token Password



TIP:

The term Token Password may be replaced by another term (for example, Token PIN), depending on your SafeNet Authentication Client configuration.

SafeNet eTokens are supplied with an initial default token password. In most organizations, the initial token password is **1234567890**.

Gemalto IDPrime cards are supplied with an initial default token password: **0000**.

To ensure strong, two-factor security, it is important for the user to change the initial token password to a private password as soon as the new token is received.

When a token password has been changed, the new password is used for all token applications involving the token. It is the user's responsibility to remember the token password. Without it, the token cannot be used. The administrator can set a token's Password Quality settings to certain password complexity and usage requirements.



NOTE:

The token password is an important security measure in safeguarding your company's private information. The best passwords are at least eight characters long, and include upper- and lower-case letters, special characters such as punctuation marks, and numbers appearing in a random order. We recommend against using passwords that can be easily discovered, such as names or birth dates of family members.

To change a Token's Password:

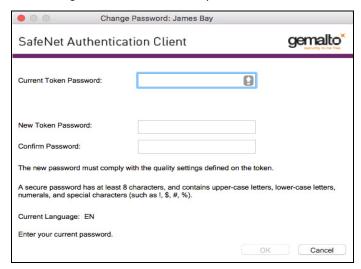
- 1. To use the *Simple* view to change the token password, do the following:
 - Open SafeNet Authentication Client Tools Simple view. See Chapter 2: "Opening the Simple View" on page 13.
 - b. In the left pane, select the required token.
 - c. In the right pane, select Change Token Password.
 - d. Continue with step 4.
- To use the Advanced view to change the token password, do the following:
 - a. Open SafeNet Authentication Client Tools Advanced view. See Chapter 2: "Opening the Advanced View" on page 16.
 - b. Do one of the following:
 - In the left pane, select the node of the required token.

In the right pane, click the **Change Token Password** icon:



- In the left pane, right-click the node of the required token, and select Change Token Password from the shortcut menu.
- c. Continue with step 4.

- 3. To use the tray menu to change the token password, do the following:
 - a. Right-click the SafeNet Authentication Client tray icon.
 - b. If more than one token is connected, hover over the appropriate token.
 - c. Select Change Token Password.
 - d. Continue with step 4.
- 4. The Change Password window opens.



5. Enter the current token password in the Current Token Password field.



NOTE:

If an incorrect password is entered more than a pre-defined number of times, the token becomes locked.

- 6. Enter a new token password in the New Token Password and Confirm Password fields.
- 7. Click OK.

A message confirms that the token password was changed successfully.

8. Click OK.

Activating a Token

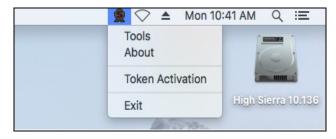
The SafeNet IDPrime MD 940/3940 is protected by an activation PIN and therefore must be activated before first use. Entering an Activation PIN is required only once.



NOTE:

The term Token is used throughout the document and is applicable to both Smart Cards and USB Tokens.

The token activation function can also be accessed quickly by right-clicking the tray menu.



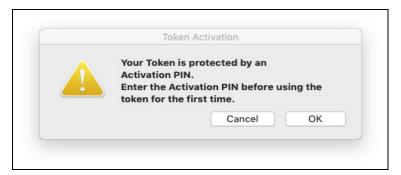
Connecting an unactivated IDPrime 940/3940 device displays the *Token with corrupted data* icon in SAC Tools this does not mean that the device is in fact corrupted, it simply needs to be activated.



To Activate a Token:

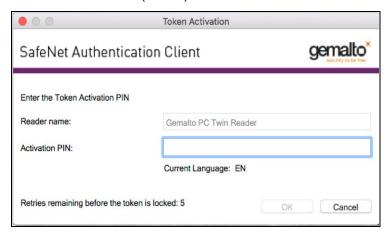
1. Connect the token.

The Token Activation window opens.



2. Click **OK** to continue with the activation process or **Cancel** to close the window without activating the token.

3. Enter Activation PIN (Role 1) and click OK.



If an incorrect activation PIN is entered more than 5 times, the token becomes locked, leaving the token in an unusable state. The Token Activation retries remaining field is displayed at the bottom of the Token Activation window.

4. After activating your token, open SAC Tools to view token information. Your device is ready to be used.



NOTE:

Token functions are enabled only after the correct activation PIN has been entered.

Unlocking a Token by the Challenge-Response Method

If an incorrect token password is entered more than a pre-defined number of times, the token becomes locked. Tokens, including SafeNet Virtual Tokens, can be unlocked if, and only if, an Administrator Password was set during initialization.



NOTE:

The unlock feature is supported by eToken and IDPrime MD devices.

For Gemalto IDPrime MD CC devices (IDPrime MD CC 840/3840) and eToken 51100 CC:

- If the device is in unlinked mode, the new user password is used for both the token password and Digital Signature PIN when unblocking a device.
- If the device is in linked mode, with the default administrator password, the feature is disabled.

SafeNet Rescue Token devices cannot be unlocked.



CAUTION:

The administrator can limit the number of times that a token can be unlocked. If this number is exceeded, the token becomes unusable. If the token is a physical token, it must be initialized. If it is not a physical token, it must be replaced.

When the administrator has access to the user's token, the administrator can unlock the token using the *Set Token Password* feature.

See Chapter 4: Setting a Token Password by an Administrator, on page 49.

Another way to unlock the token and set a new token password is to use the *Challenge – Response* authentication method. The user sends the administrator the *Challenge Code* supplied by SafeNet Authentication Client Tools, and then enters the *Response Code* provided by the administrator. The token becomes unlocked, and the new token password set by the user replaces the previous password.

This method requires a management system, such as SafeNet Authentication Manager, that can generate Response Codes.



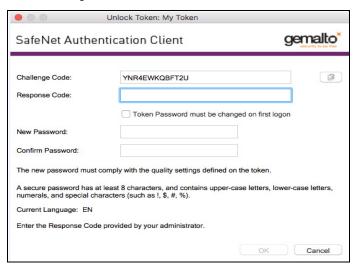
NOTE:

In SafeNet Authentication Client version 8.2 (standard mode) and later, the Challenge-Response unlock method supports both SafeNet eTokens and SafeNet iKey devices.

To unlock a token using the Challenge-Response method:

- 1. To use the Simple view to unlock a token, do the following:
 - a. Open SafeNet Authentication Client Tools Simple view.
 See Chapter 2: "Opening the Simple View" on page 13.
 - b. In the left pane, select the required token.
 - c. In the right pane, select Unlock Token.
 - d. Continue with step 4.
- 2. To use the Advanced view to unlock a token, do the following:
 - Open SafeNet Authentication Client Tools Advanced view.
 See Chapter 2: "Opening the Advanced View" on page 16.
 - b. Do one of the following:
 - In the left pane, select the node of the required token. In the right pane, click the **Unlock** icon.
 - In the left pane, right-click the node of the required token, and select Unlock from the shortcut menu.
 - c. Continue with step 4.
- To use the tray menu to change the token password, do the following:
 - Right-click the SafeNet Authentication Client tray icon.
 - b. If more than one token is connected, hover over the appropriate token.
 - c. Select Unlock Token.
 - d. Continue with step 4.

4. *The Unlock Token* window opens, displaying a value in the *Challenge Code* field. The *Challenge Code* is 16 characters or, if the token was initialized as Common Criteria, 13 characters.



5. Contact your administrator, and provide the administrator with the Challenge Code value displayed.



NOTE:

To copy the Challenge Code to the clipboard, click the **Copy to Clipboard** icon.



CAUTION:

- After providing the Challenge Code to the administrator, do not undertake any activities that
 use the token until you receive the Response Code and complete the unlocking procedure.
 If any other token activity occurs during this process, it will affect the context of the Challenge –
 Response process and invalidate the procedure.
- For Gemalto IDPrime (MD and .Net) devices only During the unlock operation any applications that attempt to connect to the device will be suspended until the unlock operation is completed or canceled.
- 6. The administrator provides you with the *Response Code* to be entered.

 The *Response Code* is 16 characters or, if the token was initialized as Common Criteria, 39 characters.



NOTE:

Response Code creation depends on the back-end application being used by the organization. Administrators should refer to the relevant documentation for information on how to generate the Response Code.

- 7. Enter a new token password in the New Token Password and Confirm Password fields.
- 8. If the new password is known to others and must be changed, select **Token Password must be changed on first logon**.
- 9. Click OK.

A message confirms that the token was unlocked successfully.

10. Click **OK**.

Deleting Token Content

Objects on your token can include data objects (profiles), keys, and CA or user certificates. Your system configuration determines which objects are deletable.

The *Delete Token Content* function deletes all deletable objects on your token. Non-deletable objects are not removed from the token. The function does not change settings on the token, such as password quality requirements.

The *Delete Token Content* function is less comprehensive than the *Initialize* function which restores a token to its initial state, removing all objects stored on the token since manufacture and resetting the token password. See Chapter 5: *Token Initialization*, on page 51.

To delete the token content:

- 1. To use the Simple view, do the following:
 - a. Open SafeNet Authentication Client Tools *Simple* view. See Chapter 2: "Opening the Simple View" on page 13.
 - b. In the left pane, select the required token.
 - c. In the right pane, select **Delete Token Content**.
 - d. Continue with step 3.
- 2. Depending on the configuration of your system, you can use the tray menu:
 - a. Right-click the SafeNet Authentication Client tray icon.
 - b. If more than one token is connected, hover over the appropriate token.
 - Select Delete Token Content.
 - d. Continue with step 3.
- 3. The *Token Logon* window opens.
- 4. Enter the token password, and click **OK**.

The *Delete Token Content* window opens, prompting you to confirm the delete action.

- 5. To continue with the delete process, click **OK**.
 - The Delete Token Content window opens, confirming that the token content was deleted successfully.
- 6. Click OK to finish.

Importing a Certificate to a Token

The following certificate types are supported:

- .pfx
- .p12
- .cer

When importing PFX files, the private key and corresponding certificate are imported to the token. The user is asked if the CA certificates should be imported to the token, and the password (if it exists) that protects the PFX file must be entered.

When downloading a certificate to the computer and then importing the certificate to the token, ensure that the certificate is removed from the local store. Then reconnect the token before using the certificate to sign and encrypt mail. This ensures that the certificate and keys used are those stored on the token and not on the computer.



NOTE:

It is not possible to import a certificate to a SafeNet Rescue Token.

To import a certificate:

- Open SafeNet Authentication Client Tools Advanced view. See Chapter 2: "Opening the Advanced View" on page 16.
- 2. Do one of the following:
 - In the left pane, select the node of the required token.
 - In the right pane, click the **Import Certificate** icon:



- In the left pane, right-click the node of the required token, and select **Import Certificate** from the shortcut menu.
- 3. The Token Logon window opens.
- 4. Enter the token password, and click **OK**.

The Certificate Selection window opens.

- 5. Select the certificate to import, and click **Open**.
- 6. If the certificate requires a password, the *Password* window opens.

Enter the certificate password, and click **OK**.

7. If the certificate is a Common Criteria certificate, the *Import PIN* window opens.

Enter the token's Import PIN defined during token initialization, and click OK.

The default value is 1234567890.

8. All requested certificates are imported, and a message confirms that the import was successful.

Importing Common Criteria Certificates

When importing PFX files, the private key and corresponding certificate are imported to the token. The user is asked if the CA certificates should be imported to the token, and the password (if it exists) that protects the PFX file must be entered.

To import a common criteria certificate:

- Open SafeNet Authentication Client Tools Advanced view.
- 2. Do one of the following:
 - a. In the left pane, select the node of the required token.

In the right pane, click the Import Certificate



- b. In the left pane, right-click the node of the required token, and select Import Certificate from the shortcut menu.
- 3. The **Token Logon** window opens.
- 4. Enter the token password, and click **OK**.

The Certificate Selection window opens.

5. Select the certificate to import, and click **Open**.

The Certificate Password window opens.



6. Enter the certificate password, and click **OK**.

The Digital Signature Logon window opens

The Digital Signature PIN is required as an additional authentication layer for digital signing purposes.



- 7. Enter the Digital Signature PIN and click OK.
- 8. The certificate is imported, and a message confirms that the import was successful.
- 9. Common Criteria certificates are displayed as follows in the left pane:



Exporting a Certificate from a Token

To export a certificate:

- Open SafeNet Authentication Client Tools Advanced view. See Chapter 2: "Opening the Advanced View" on page 16.
- 2. In the left pane, expand the node of the required token.
- Do one of the following:
 - Select the required certificate, and click the Export Certificate icon:



· Right-click the required certificate, and select Export Certificate from the shortcut menu.

The Save As window opens.

4. Select the location to store the certificate, enter a file name, and click **OK**.



NOTE

The certificate file must be DER-encoded or Base64, and not PKCS #7.

Deleting a Certificate

To remove a certificate from a token, follow the procedures below:

To delete a certificate from a token:

- Open SafeNet Authentication Client Tools Advanced view. See Chapter 2: "Opening the Advanced View" on page 16.
- 2. In the left pane, expand the node of the required token.
- 3. Do one of the following:
 - In the left pane, select the required certificate, and click the **Delete Certificate** icon.
 - In the left pane, right-click the required certificate, and select **Delete Certificate** from the shortcut menu.
- 4. The *Delete Certificate* window opens.
- 5. To delete the certificate, click **Yes.** The *Token Logon* window opens.
- Enter the token password, and click **OK**.
 The *Delete Certificate* window opens, confirming that the certificate was deleted successfully.
- 7. Click OK.

Logging On to the Token as an Administrator

If an Administrator Password was set on the token during token initialization, and the user forgets the token password, use the Administrator Password to unlock the token by setting a new token password. We recommend initializing all supported tokens with an Administrator Password.



NOTE:

- IDPrime devices have a built-in administrator role.
- iKey devices do not support administrator functions.

An administrator has limited permissions on a token. No changes to any user information can be made by the administrator, nor can the user's security be affected. The administrator can change only specific data stored on the token only by using the following functions:

- Changing the Administrator Password (not supported by iKey devices)
- Setting a Token Password by an Administrator
- Unlocking a Token by the Challenge-Response Method (not supported by IDPrime and iKey devices)
- Setting eToken Password Quality (Password Quality Tab) (not supported by IDPrime devices)
- Setting IDPrime PIN Properties (Advanced Tab) (not supported by IDPrime devices)

To log on to a token as an administrator:

- Open SafeNet Authentication Client Tools Advanced view.
 See Chapter 2: "Opening the Advanced View" on page 16.
- 2. Do one of the following:
 - In the left pane, select the node of the required token.
 In the right pane, click the Log On as Administrator icon.
 - In the left pane, right-click the node of the required token, and select **Log On as Administrator** from the shortcut menu.
- 3. The Administrator Logon window opens.
- 4. Enter the token's Administrator Password, and click **OK**.

You are logged on as an administrator.

Changing the Administrator Password

If you are logged on to a token as an administrator, you can change the token's Administrator Password.

To change the Administrator Password:

- 1. Open SafeNet Authentication Client Tools Advanced view.
- 2. Do one of the following:
 - In the left pane, select the node of the required token.
 In the right pane, click the *Change Administrator Password* icon.
 - In the left pane, right-click the node of the required token, and select **Change Administrator Password** from the shortcut menu.

The Change Administrator Password window opens.

Enter the current Administrator Password in the Current Administrator Password field.



NOTE

If an incorrect Administrator Password is entered more than a pre-defined number of times, the token becomes locked.

- 4. Enter the new password in the New Administrator Password and Confirm Password fields.
- 5. Click **OK**. A message confirms that the password was changed successfully.
- Click OK.

Setting a Token Password by an Administrator

If you are logged on to a token as an administrator, you can unlock the token by setting a new token password.



NOTE:

The Unlock Token feature is for eToken devices only, whereas the Set Token Password features is for eToken and IDPrime devices.

To unlock a token by setting a new Token Password:

- Open SafeNet Authentication Client Tools Advanced view. Chapter 2: "Opening the Advanced View" on page 16.
- Do one of the following:
 - In the left pane, select the node of the required token. In the right pane, click the **Set Token Password** icon.
 - In the left pane, right-click the node of the required token, and select **Set Token Password** from the shortcut menu.

The Administrator Logon window opens.

- 3. Enter the Administrator Password, and click **OK**. The Set Token Password window opens.
- 4. Enter a new token password in the New Password and Confirm Password fields.



NOTE:

The new token password must meet Password Quality settings defined for the token.

- 5. Set the Logon retries before token is locked field to the required number.
- 6. Click OK.

A message confirms that the token password was changed successfully.

7. Click OK.

The token is unlocked, and the user can now log on with the new token password.

Friendly Admin Password

The Friendly Admin Password feature permits the use of a short password instead of an admin key made up of 24 binary bytes or 48 Hexadecimal digits.

SAC requires a 48 Hexadecimal PIN to be entered.

The Friendly Admin Password (known as Friendly Admin) works with all IDPrime devices.

The Friendly Admin uses a user secret in the range of 8 to 32 ASCII7 characters.



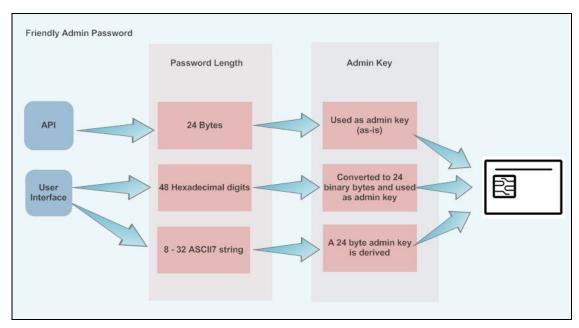
NOTE:

 The user secret that is made up of 8-23 or 25-32 ASCII7 characters derives a 24 byte long Admin Key. The user secret that is made up of 24 ASCII7 characters is used without derivation.

For IDPrime CC devices (940 / 840 / 3840 / eToken 5110 CC):

When working in linked mode (Chapter 7: Working with Common Criteria Certified Tokens and Cards (page 74)) the Digital Signature PUK is derived from the Admin Key. This is not part of the Friendly Admin feature, but can be used together.

The password sizes: 24 bytes and 48 hexadecimal digits are maintained for backward compatibility with SAC.



Token Initialization

The token initialization process restores a token to its initial state.



NOTE:

You cannot use SafeNet Authentication Client to initialize a SafeNet Virtual product.

Token Initialization Overview

The token initialization process removes all objects stored on the token since manufacture, frees up memory, and resets the token password. Then the token is initialized with specific settings according to the organizational requirements or security modes.

Typically, initialization is carried out on a token when an employee leaves the company, enabling the token to be issued to another employee. It completely removes the employee's individual certificates and other personal data from the token, preparing it to be used by another employee.

The following data is initialized:

- Token name
- Token Password
- Administrator Password (optional) not supported by iKey devices
- · Maximum number of logon failures allowed
- Requirement to change the token password on the first logon
- Initialization key
- All user-generated data, such as certificates and profiles

Using customizable parameters, you may be able to select specific parameters that will apply to certain tokens. These parameters may be necessary if you wish to use a token for specific applications or if you require a specific token password or Administrator Password on multiple tokens in the organization.

Initializing eToken Devices

Initializing an eToken device deletes all objects that were created on the device, while it was in use.



NOTE:

- Depending on the type of token being initialized, certain settings may not be enabled.
- If a customized version of SafeNet Authentication Client is installed, the graphics you see may be different from those displayed in this guide.
- To initialize an eToken 5110 Common Criteria device, see Initializing IDPrime MD Common Criteria Devices on page 60.

To initialize an eToken device:

- 1. Open SafeNet Authentication Client Tools *Advanced* view. See Chapter 2: "Opening the Advanced View" on page 16.
- 2. Do one of the following:

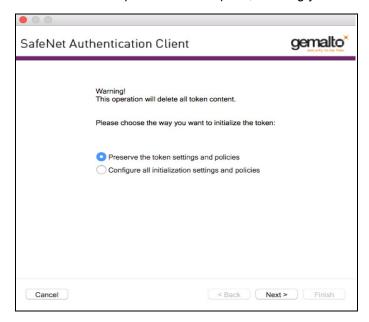
In the left pane, select the node of the required token.

In the right pane, click the **Initialize Token** icon:



In the left pane, right-click the node of the required token, and select Initialize Token from the shortcut menu.

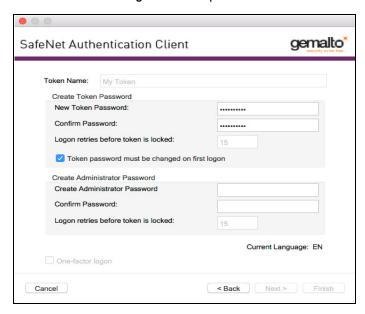
The Initialization Options window opens, allowing you to select how to initialize the token.



Select either one of the following:

Preserve the token settings and policies	Select to keep current token policies and settings.
Configure all initialization settings and policies	Select to change some or all token policies and settings.

The Password Settings window opens.

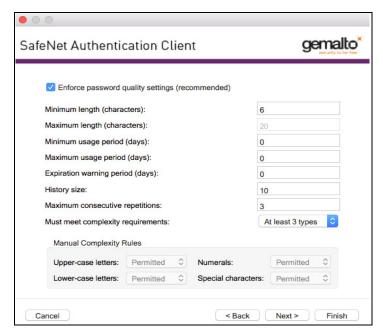


4. Enter the following:

· ·	
Token Name	Enter a name for the token. If no name is entered, a default name is used. In many organizations, the default token name is "My Token". The token name does not affect the token contents. It is used solely to identify the token.
New Token Password	Enter a new Token Password. The default password on an eToken device is 1234567890 automatically appears in this field.
Confirm Password	Re-enter the password entered above.
Logon retries before token is locked	Enter the number of times a token password can be entered incorrectly before the token is locked. Note: The retry counter will count only passwords that have a valid length.
Token password must be changed on first logon	If required, select token password must be changed on first logon.
Create Administrator Password	Select Create Administrator Password and enter a New Administrator Password. The minimum password length on an eToken device is 4 characters. Note: Setting an Administrator Password enables certain functions to be performed on the token, such as setting a new token password to unlock a token.
	iKey tokens do not support Administrator Passwords.
Confirm Password	Re-enter the administrator password.

Logon retires before token is locked	Enter a numeric value. This counter specifies the number of times the administrator can attempt to log on to the token with an incorrect password before the token is locked. The default setting for the maximum number of incorrect logon attempts is 15
One-factor logon	Configures the token without a password. The default value for this setting is disabled . Note:
	 Selecting the One-factor logon option disables the Create Token Password and Create Administrator Password fields. The One-factor logon feature is used by eToken device only.

The Password Quality Settings window opens.



6. Complete the fields as follows:

Field	Description
Enforce password quality settings (recommended)	Select this option if you want to define password quality settings when initializing a token. When selected, all options in the window become available.
Minimum length (characters)	Default: 6 characters
Maximum length (characters)	Default: 16 characters

Field (Cont.)	Description (Cont.)
	The minimum period before the password can be changed. Default: 0 (none).
Minimum usage period (days)	For iKey devices, the periods are rounded up to periods of weeks (7 days), even though the period is displayed in days. For example, if the period is displayed as less than a week, say 6 days, iKey regards it as a week. If the period is more than two weeks, say 15 days, iKey regards it as three weeks.
Maximum usage period (days)	The maximum period, in days, before which the password must be changed. Default: 0 (none) For iKey devices, the periods are rounded up to periods of weeks. See row above for more information.
Expiration warning period (days)	Defines the number of days before the password expires that a warning message is shown. Default: 0 (none)
History size	Defines how many previous passwords must not be repeated. Default: For eToken devices - 10 For iKey devices - 6
Maximum consecutive repetitions	The maximum number of repeated characters that is permitted in the password. Default: 3 This feature is not supported by iKey devices.
Must meet complexity requirements	 Determines the complexity requirements that are required in the token password. At least 2 types: a minimum of 2 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced. At least 3 types: a minimum of 3 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced (Default). None: Complexity requirements are not enforced. Manual: Complexity requirements, as set manually in the Manual Complexity settings, are enforced.
Manual Complexity Rules	For each of the character types (Upper-case letters, Lower-case letters, Numerals and Special characters) select one of the following options: • Permitted - Can be included in the password, but is not mandatory (Default). • Mandatory - Must be included in the password. • Forbidden - Must not be included in the password. Note: The Forbidden option is not supported by iKey devices.

If the device is FIPS or Common Criteria, the FIPS and Common Criteria Settings window opens.

If the device is not FIPS or Common Criteria, this window will not be displayed.

Use this window to configure certification and common criteria settings.



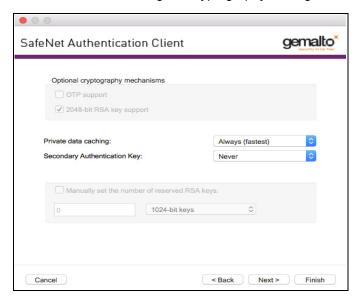
8. Enter the following:

Field	Description
Enforce FIPS settings	Check this options to define FIPS settings. FIPS: Federal Information Processing Standards is a U.S. government-approved set of standards designed to improve the utilization and management of computer and related telecommunication systems
Enforce Common Criteria settings	Check this options to define Common Criteria settings. When selected, the Certificate Import Password and maximum number of certificates for which to reserve space on the token can be set. Common Criteria: an international standard for computer security certification.
New Import Password	Enter a New Import Password. Defines the Password that must be entered when a Common Criteria certificate is imported to the token. The minimum Password length is 4 characters. The default value is: 1234567890.
Confirm Password	Re-enter the password entered above.
Set the maximum number of common criteria certificates to be stored:	
Certificates with 1024-bit keys	To reserve adequate space on the token, set the maximum number of Common Criteria certificates with 1024-bit keys that will be imported to the token. Select a number within the range 0 -16.

Certificates with 2048-bit	To reserve adequate space on the token, set the maximum number of
keys	Common Criteria certificates with 2048-bit keys that will be imported to the
	token.
	Select a number within the range 1- 16.

The Optional Cryptography Mechanisms window opens.

Use this window to configure Cryptography Settings. RSA Authentication settings is for Windows only.



10. Under *Optional cryptography mechanism*, complete the fields as follows:

Field	Description
OTP Support	Default: disabled
	Select to enable OTP support (on compatible tokens).
2048-bit RSA key	Default: enabled
support	Select to enable 2048-bit RSA key support (on compatible tokens).
	Default: Always (fastest)
	To enhance performance, SafeNet Authentication Client caches public information stored on the token. This option defines when private information (excluding private keys on the token) can be cached outside the token.
	Select one of the following options:
Private data caching	 Always (fastest): Private information is always cached in the application memory. This enables fast performance, as certain information is cached on the host machine. However, this option is less secure than if no cache is allowed.
	 While user is logged on: Private information is cached outside the token as long as the user is logged on to the token. Once the user logs out, all the private data in the cache is erased.
	Never: Private information is not cached.

RSA key secondary authentication

The use of secondary authentication is for Windows only.

Default: Never

An authentication password may be set for an RSA key. Depending on how this option is set, in addition to having the token and knowing its token password, accessing the RSA key may require knowing the password set for that particular key.

Having a password for the key is known as *secondary authentication*. Select one of the following:

- Always
- · Always prompt user
- · Prompt user on application request
- Never
- · Token authentication on application request

For an explanation of these options, see *Initializing IDPrime Based Devices* on page 59.

If the token was initialized as Common Criteria and the secondary authentication *Always*, *Always prompt user* or *Prompt upon application request*, then the secondary authentication setting cannot be changed to *Never* or *Token authentication on application request*. This limitation applies to Common Criteria certificates only.

Manually set the number of reserved RSA keys

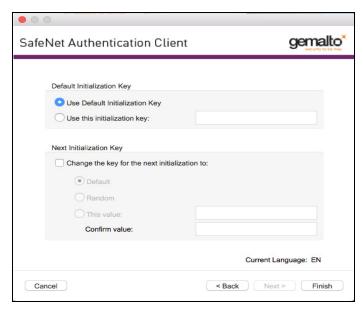
Windows only.

Default: Disabled

Set the number of reserved RSA keys to reserve space in the token memory. This ensures that there will always be memory available for keys.

11. Click Next.

The Initialization Key Settings window opens.



Use this window to configure Default and Next Initialization Settings.

Change the Initialization Key to protect against accidental token re-initialization in the future. If the Initialization Key is changed from the factory-set default value, the user will be required to open the *Initialization Key* window and enter the correct key during future initialization of the token.

12. Under *Default Initialization Key*, complete the fields as follows:

Field	Description
Use default initialization key	Select this option if the Initialization Key was not changed from its default during the previous token initialization. The factory-set default is used as the key for the current token initialization.
Use this initialization key	Enter the Initialization Key configured in the <i>This Value</i> field during the previous token initialization.
Change the key for the next initialization to:	 Default: Revert to the factory-set default so that the user is not required to enter an Initialization Key during subsequent token initializations. Random: If selected, it will never be possible to re-initialize the token. This Value: Select and confirm a unique key. During subsequent token initializations, the user must enter this key in the <i>Use this Initialization Key</i> field.



NOTE:

The initialization key minimum length is 4.

Initializing IDPrime Based Devices

The initialization process removes all objects stored on the device since manufacture, freeing up memory, and resetting the token/card password.

The following can be performed during the initialization process:

- · All user-generated data, such as certificates and profiles
- · All PKCS#11 objects that were created on the token/card, while in use
- Token/card name/label
- Define a user and administrator password (the user password must be according to the card's policy settings).
- Define password quality settings
- Define a Digital Signature PIN and Digital Signature PUK password the password must be according to the card's policy settings (for IDPrime CC and eToken 5110 CC devices). See Chapter 7: Set Digital Signature PIN (page 78)



NOTE:

 The screens displayed during the initialization process are available in English localization only.

This section explains how to initialize IDPrime based Common Criteria and Non Common Criteria devices.

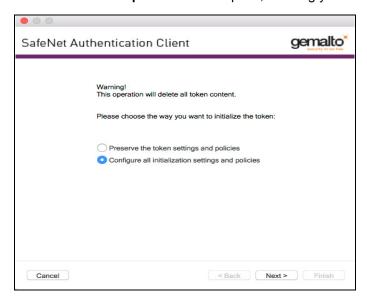
Initializing IDPrime MD Common Criteria Devices

Both eToken 5110 devices and IDPrime based cards that are Common Criteria certified can be initialized using SAC Tools.

To initialize IDPrime MD Common Criteria certified devices (eToken 5110 CC /IDPrime MD Common Criteria):

- 1. Open SafeNet Authentication Client Tools Advanced view.
- Do one of the following:
 - In the left pane, select the node of the required token/card
 In the right pane, click the Initialize Token icon
 - In the left pane, right-click the node of the required device, and select Initialize Token from the shortcut menu.

The Initialization Options window opens, allowing you to select how to initialize the device.



Select the following:

Preserve the token settings and policies	Select to keep current token policies and settings.
Configure all initialization settings and policies	Select this option to change some/all token policies and settings. Selecting this option will allow you to:
	Create a token password
	Create an administrator password
	 Enter the default token and administrator passwords
	Enter Common Criteria passwords (PIN and PUK)

Click Next.

The **Administrator Logon** window opens. This window requires you to enter an **Administrator Password** and a **Digital Signature PUK** to begin the initialization process.



NOTE:

- Gemalto IDPrime MD cards that are Common Criteria certified, are in unlinked mode by default.
- The procedures and screens described in this section are based on the fact that your IDPrime MD device is being used for the first time.



The above window is displayed if your token/card is in unlinked mode as it's received from the factory.



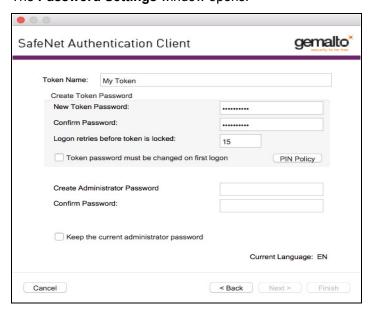
The above window is displayed if your token/card is in linked mode.

4. Enter the current Administrator Password and current Digital Signature PUK. The default Administrator Password is 48 zeros. The default Digital Signature PUK is 6 zeros.

Enter the following:

Use factory default administrator password	 Select this check-box if the current administrator password is 48 0's. If selected, the Administrator Password field below is shaded showing the default password. Deselect it if the current administrator password is different from the factory default.
Administrator Password	Enter the current administrator password, that's different from the factory default.
Use factory default digital signature PUK	 Select this check-box if the current digital signature PUK is 6 zeros (000000). If selected, the Digital Signature PUK field below is shaded showing the default password. Deselect it if the current Digital Signature PUK is different from the factory default.
Digital Signature PUK	Enter the current Digital Signature PUK, that's different from the factory default.

Click Next.
 The Password Settings window opens.



6. Enter the following:

Token Name	Enter a name for the token. If no name is entered, a default name is used. In many organizations, the default token name is "My Token".
	The token name does not affect the token contents. It is used solely to identify the token.

New Token Password	The default password is 1234567890 automatically appears in this field.
	The default password on an IDPrime MD card is 4 zeros (0000)
	Note: If the device is initialized with the default token/card password, and standard password quality requirements are in effect, the user must select the Token Password must be changed on first logon option. Otherwise the initialization will fail because the default password does not meet the password quality requirements. If the token password must be changed or first logon option is selected, the initialization will succeed and the user will be prompted to create a new password when next logging on with the token/card. The user will be required to set a token password that meets the Password Quality requirements configured in the Settings window.
Confirm Password	The default password (1234567890) automatically appears in this field.
	If the above field was changed, then re-enter the password entered in the 'New Token Password' field.
Logon retries before token is locked	Enter the number of times a token password can be entered incorrectly before the token is locked.
	For Common Criteria devices that are in linked mode, the maximum value displayed is 3. When in unlinked mode, the value displayed is 15. This value cannot be changed for both linked and unlinked modes.
Token password must be changed on first logon	If required, select token password must be changed on first logon.
	Note: When initializing a device in Unlinked mode, and this option is selected, both the Token (User) Password and Digital Signature PIN are effected (ensure that both the Token Password and Digital Signature PIN are changed).
PIN Policy	Enables you to set PIN Quality/Property parameters.
	See Chapter 10: Setting IDPrime PIN Quality (PIN Quality Tab) (page 93) and Setting IDPrime PIN Properties (Advanced Tab) on page 95
Create Administrator Password	If necessary, enter a new administrator password, that's different from the current administrator password. Your current password may be the default password or a different password. Only you know this password.
	You can change the default Administrator Password to a password that is between 8-32 alphanumeric characters. See Chapter 1: (page 7).
Confirm Password	Re-enter the administrator password.
Keep the current administrator password	Select this if you want to keep the current administrator password.
ionator paccinora	Note: If this option is selected, the following warning message appears:
	If the current password is the default password (48 0's), it is strongly recommended to update the administrator password to keep your token secure.

The IDPrime Common Criteria Settings window opens.

The IDPrime Common Criteria Settings window allows you to define Common Criteria passwords, which are made up of a Digital Signature PIN (User Password) and Digital Signature PUK (Administrator Password).

This IDPrime Common Criteria Settings window defines whether you are going to work in linked or unlinked mode.



8. To work in linked mode, enter the following:

Use the same token and administrator passwords for digital signature operation

Select this option to perform digital signing operations using your current Token and Administrator passwords.

Note: Selecting this option does not require entering a Digital Signature PIN and Digital Signature PUK. The fields below will be unavailable.

9. To work in unlinked mode, enter the following:

New Digital Signature PIN	Enter a New Digital Signature PIN. This option allows you to work in 'unlinked' mode.
Confirm PIN	Re-enter the New Digital Signature PIN.
PIN Policy	Enables you to set PIN Quality/Property parameters. See Chapter 10: Setting IDPrime PIN Quality (PIN Quality Tab) (page 93) and Setting IDPrime PIN Properties (Advanced Tab) on page 95
New Digital Signature PUK	Enter a New Digital Signature PUK. This option allows you to work in 'unlinked' mode.
Confirm PUK	Re-enter the New Digital Signature PUK.
PIN Policy	Enables you to set PIN Quality/Property parameters. See Chapter 10: Setting IDPrime PIN Quality (PIN Quality Tab) (page 93) and Setting IDPrime PIN Properties (Advanced Tab) on page 95

- 10. Click **Finish**. A warning message is displayed.
- 11. Click OK when the warning message: The token initialization process will delete all token content and reset all token parameters appears.

The Token initialized successfully message is displayed.

Initializing IDPrime Based Devices (Non Common Criteria)

IDPrime cards that are not Common Criteria certified can be initialized using SAC Tools.

To initialize an IDPrime based non Common Criteria device:

- 1. Open SafeNet Authentication Client Tools Advanced view.
- 2. Do one of the following:
 - a. In the left pane, select the node of the required token/card
 - In the right pane, click the Initialize Token icon



b. In the left pane, right-click the node of the required device, and select Initialize Token from the shortcut menu.

The **Initialization Options** window opens, allowing you to select how to initialize the device.



Select the following:

Preserve the token settings and policies	Select to keep current token policies and settings.
Configure all initialization settings and policies	Select this option to change some/all token policies and settings. Selecting this option will allow you to:
	Create a token password
	Create an administrator password
	Enter the default token and administrator passwords

The Administrator Logon window opens.

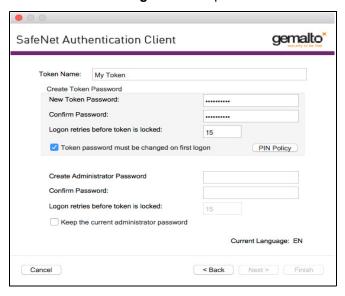
This window requires you to enter an Administrator Password to begin the initialization process



4. Enter the current Administrator Password. The default Administrator Password is 48 zeros. Enter the following:

Use factory default administrator password	 Select this check-box if the current administrator password is 48 0's. If selected, the Administrator Password field below is shaded showing the default password. Deselect it if the current administrator password is different from the factory default.
Administrator Password	Enter the current administrator password, that's different from the factory default.

The **Password Settings** window opens.



6. Enter the following:

Token Name	Enter a name for the token. If no name is entered, a default name is used. In many organizations, the default token name is "My Token".
	The token name does not affect the token contents. It is used solely to identify the token.
New Token Password	The default password is 1234567890 automatically appears in this field.
	The default password on an IDPrime MD card is 4 zeros (0000)
	Note: If the device is initialized with the default token/card password, and standard password quality requirements are in effect, the user must select the Token Password must be changed on first logon option. Otherwise the initialization will fail because the default password does not meet the password quality requirements. If the token password must be changed on first logon option is selected, the initialization will succeed and the user will be prompted to create a new password when next logging on with the token/card. The user will be required to set a token password that meets the PIN Quality requirements.
Confirm Password	The default password (1234567890) automatically appears in this field.
	If the above field was changed, then re-enter the password entered in the 'New Token Password' field.
Logon retries before token is locked	Enter the number of times a token password can be entered incorrectly before the token is locked.
Token password must be changed on first logon	If required, select token password must be changed on first logon.
PIN Policy	Enables you to set PIN Quality/Property parameters.
	See Chapter 10: Setting IDPrime PIN Quality (PIN Quality Tab) (page 93) and Setting IDPrime PIN Properties (Advanced Tab) on page 95

Create Administrator Password	If necessary, enter a new administrator password, that's different from the current administrator password. Your current password may be the default password or a different password. Only you know this password.
	You can change the default Administrator Password to a password that is between 8-32 alphanumeric characters (or to 48 hexadecimal digits). See Chapter 1: (page 7).
Confirm Password	Re-enter the administrator password.
Logon retires before token is locked	The number of times an administrator password can be entered incorrectly before the token is locked. This parameter appears for non IDPrime Common Criteria devices.
Keep the current administrator password	Select this if you want to keep the current administrator password. Note: If this option is selected, the following warning message appears: If the current password is the default password (48 0's), it is strongly recommended to update the administrator password to keep your token secure.

- 7. Click **Finish**. A warning message is displayed.
- 8. Click **OK** when the warning message: **The token initialization process will delete all token content and reset all token parameters** appears.

The Token initialized successfully message is displayed.

SafeNet Virtual Tokens

SafeNet Authentication Client supports the SafeNet Virtual Token line of products. This includes SafeNet Virtual Token and SafeNet Rescue Token devices.

To obtain a SafeNet Virtual Token file, contact your administrator.

Overview of SafeNet Virtual Products

SafeNet Authentication Client supports tokens from the SafeNet Virtual Token family. These tokens are stored as files on your computer or on an external storage device.

The following types of software tokens are available:

 SafeNet Rescue Token: provides a solution when a staff member loses or damages their token when away from the office. A SafeNet Rescue Token is a read-only token which functions for a limited period of time. You cannot import certificates to it.



NOTE:

On a Mac System: A SafeNet Rescue Token must be run from a folder where the user has read-write permissions. If not, it will not be recognized by Mac Keychain Access.

• **SafeNet Virtual Token:** performs all the functions of an eToken NG-OTP. It can store the same data, including key pairs and certificates. Its configuration may enable it to support OTP generation.

A SafeNet Virtual Token is "locked" to a particular computer or storage device, such as a flash drive. This means that it can be used only on the computer or storage device on which it was enrolled.

• SafeNet Virtual Temp Token: identical to a SafeNet Virtual Token, but its certificates become invalid after a pre-defined time period.

Connecting a SafeNet Virtual Token

To use your eToken Virtual product as a token, connect its file to SafeNet Authentication Client.

Under certain conditions, the token is connected automatically. See "Using a SafeNet Virtual Token on an External Storage Device" on page 73.

To connect a SafeNet Virtual device from the file:

- Double-click the SafeNet Virtual (.etvp) or SafeNet Rescue Token (.etv) file.
 The SafeNet Virtual or SafeNet Rescue Tokens connect to the computer and display a confirmation message.
- 2. Click OK.

To use SafeNet Authentication Client Tools to connect a SafeNet Virtual Token:

- Open SafeNet Authentication Client Tools Advanced view. See Chapter 2: "Opening the Advanced View" on page 16.
- 2. Do one of the following:
 - In the left pane, select the **Tokens** node.





- In the left pane, right-click the **Tokens** node, and select **Connect SafeNet VirtualToken** from the shortcut menu.
- 3. Navigate to the SafeNet Virtual Token file (*.etvp) or SafeNet Rescue Token file (*.etv), and double-click it. The SafeNet Virtual product is connected.

Disconnecting or Deleting a SafeNet Virtual Token

For security purposes, disconnect your SafeNet Virtual or SafeNet Rescue Token from its connected reader when you are not using it.

Under certain conditions, the token is disconnected automatically. See "Using a SafeNet Virtual Token on an External Storage Device" on page 73.

When your SafeNet Virtual product is no longer required, disconnect and also delete it. For example, if your SafeNet Rescue Token temporarily replaced a lost token, disconnect and delete it when you receive a permanent replacement token.

To disconnect or delete a SafeNet Virtual Token:

- 1. To use the Simple view to disconnect, do the following:
 - a. Open SafeNet Authentication Client Tools *Simple* view. See "Opening the Simple View" on page 13.
 - b. In the left pane, select the required eToken Virtual or SafeNet Rescue Token.
 - c. In the right pane, select Disconnect SafeNet Virtual Token (or Disconnect).
 - d. Continue with step 3.

- 2. To use the Advanced view to disconnect, do the following:
 - a. Open SafeNet Authentication Client Tools Advanced view.
 See "Opening the Advanced View" on page 16.
 - b. Do one of the following:
 - In the left pane, select the node of the required eToken Virtual or SafeNet Rescue Token.
 In the right pane, click the Disconnect SafeNet Virtual Token icon:



- In the left pane, right-click the node of the required eToken Virtual or SafeNet Rescue Token, and select **Disconnect** from the shortcut menu.
- c. Continue with step 3.

The Disconnect SafeNet Virtual Token window opens.

- Do one of the following:
 - To keep the SafeNet Virtual Token or SafeNet Rescue Token file on the computer or device for later use, click **Disconnect**.
 - Only the token connection to SafeNet Authentication Client is disconnected. It can be reconnected later. See "Connecting a SafeNet Virtual Token" on page 71.
 - To disconnect the token from SafeNet Authentication Client, and also remove the SafeNet Virtual
 Token or SafeNet Rescue Token file from the computer, click **Delete**.
 After a SafeNet Virtual Token or SafeNet Rescue Token is deleted, it cannot be reconnected later. A
 new file must be installed before it can be connected.

Using a SafeNet Virtual Token to Replace a Lost Token

To use a SafeNet Virtual Token or SafeNet Rescue Token to replace a lost token, the SafeNet Virtual Token or SafeNet Rescue Token must be enrolled using SafeNet Authentication Manager.

For more information, refer to the SafeNet Authentication Manager documentation.

Unlocking a SafeNet Virtual Token

If you enter an incorrect password more than a pre-defined number of times, the eToken Virtual becomes locked. To unlock the token, see Chapter 4: "Unlocking a Token by the Challenge-Response Method" on page 40.



NOTE:

The number of times that a SafeNet Virtual Token can be locked can be limited to a specific amount. If this number is exceeded, the SafeNet Virtual Token becomes unusable. This function is not available for a SafeNet Rescue Token.

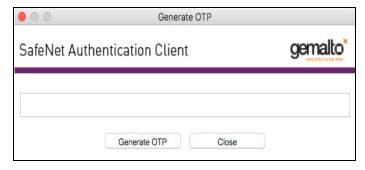
Generating a One-Time Password (OTP)

The **Generate OTP** function is available only if an eToken Virtual or eToken Rescue, with the OTP feature activated, is stored on your computer.

To generate an OTP:

- Right-click the SafeNet Authentication Client tray icon.
 The SafeNet Authentication Client tray menu opens.
- 2. Select Generate OTP.

The Generate OTP window opens.



3. Click Generate OTP.

The *Token Logon* window opens.

- 4. Enter the token password, and click **OK**.
 - A unique OTP is generated, and it is displayed in the *Generate OTP* window.
- 5. Copy the OTP to authenticate yourself to your application.
- 6. Click Close to close the Generate OTP window.

Using a SafeNet Virtual Token on an External Storage Device

The operating system automatically connects an SafeNet Virtual product when all of the following conditions are met:

- The SafeNet Virtual Token file is locked to an external storage device, such as a flash drive.
- The file is located in the eTokenVirtual folder on the storage device.
- The storage device is connected to the computer.

When the storage device is removed from the computer, the operating system automatically disconnects the SafeNet Virtual Token that was automatically connected.

If the SafeNet Virtual Token is located on an external storage device in a location other than the eTokenVirtual folder, you must connect the SafeNet Virtual Token manually. See "Connecting a SafeNet Virtual Token" on page 71.

Before removing the storage device, you must disconnect the eToken Virtual manually. See "Disconnecting or Deleting a SafeNet Virtual Token" on page 71. Otherwise, the eToken Virtual will be displayed in SafeNet Authentication Client as a token with corrupted data.

For more information about token icons, see Chapter 2: "Token Icons" on page 14.

Common Criteria

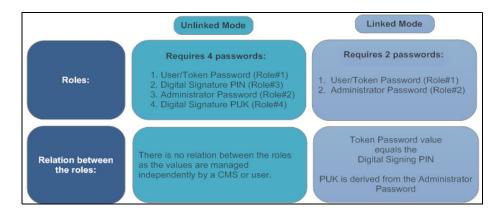
SafeNet Authentication Client supports Gemalto IDPrime MD Common Criteria (CC) cards (See the SafeNet Authentication Client Release Notes for a detailed list of supported cards), as well as eToken 5110 CC.

Working with Common Criteria Certified Tokens and Cards

IDPrime MD and eToken devices that are Common Criteria certified are used mainly for digital signing purposes. When working with common criteria certified tokens and cards, 2 additional passwords (Specific to qualified digital signature operations) are required.

SAC allows you to work with Common Criteria certified tokens and cards in two modes:

- Unlinked mode
- Linked mode



Unlinked Mode (4 Passwords)

Devices are set to work in unlinked mode by default.

To work in unlinked mode, clear the **Use the same token and administrator passwords for digital signature operation** check-box (see *Initializing IDPrime Based Devices* on page 59). The following four common criteria device passwords are required when working in unlinked mode:

- Token Password (Role # 1) Used to perform device write/delete and exchange key operations. The default token password is 4 zero characters "0000".
- Administrator Password (Role # 2) Used to /unblock a locked token password, or to perform initialization operations. The default administrator password is 48 Hexadecimal zeros.
- Digital Signature PIN (Role # 3) Used to perform Digital Signature operations with Sign only keys (CC keys). The default Digital Signature PIN is 6 zero characters "000000".
- **Digital Signature PUK (Role # 4)** Used to /unblock a locked Digital Signature PIN. The default Digital Signature PUK is 6 zero characters "000000".



NOTE:

- If the device is in unlinked mode, the new user password is used for both the token password and Digital Signature PIN when unblocking a device.
- When initializing a device in unlinked mode and the Token Password Must be changed at first logon option is selected, both the Token (User) Password and Digital Signature PIN are effected (ensure that both the Token Password and Digital Signature PIN are changed).

Unlinked Mode Functions

When in unlinked mode, the following Digital Signing function icons are displayed in SAC Tools advanced view:

User Function	Icon	Right-Click Menu Item
Change Digital Signature PIN	7	Change Digital Signature PIN
Change Digital Signature PUK	•	Change Digital Signature PUK
Set Digital Signature PIN	*	Set Digital Signature PIN

Change Digital Signature PIN

Use this option to change the Digital Signature PIN.

To change a digital signature PIN:

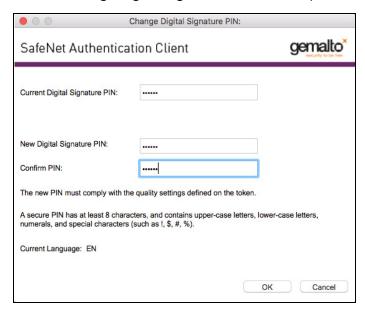
- 1. Open SafeNet Authentication Client Tools Advanced view.
 - Do one of the following:
 - a. In the left pane, select the node of the required token.

In the right pane, click the **Change Digital Signature PIN** icon:



b. In the left pane, right-click the node of the required token, and select **Change Digital Signature PIN** from the shortcut menu.

The Change Digital Signature PIN window opens.



- 2. Enter the Current Digital Signature PIN.
- 3. Enter the New Digital Signature PIN.
- 4. Confirm the New Digital Signature PIN and click **OK**.
 - The Password Changed Successfully window opens.
- 5. Click OK.

Change Digital Signature PUK

Use this option to change the Digital Signature PUK.

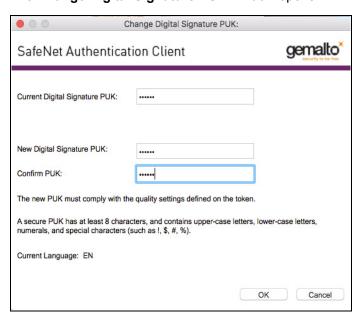
To change a digital signature PUK:

- Open SafeNet Authentication Client Tools Advanced view.
 Do one of the following:
 - a. In the left pane, select the node of the required token.

In the right pane, click the Change Digital Signature PUK icon:

b. In the left pane, right-click the node of the required token, and select **Change Digital Signature PUK** from the shortcut menu.

The Change Digital Signature PUK window opens.



- 2. Enter the Current Digital Signature PUK.
- Enter the New Digital Signature PUK.
- 4. Confirm the **New Digital Signature PUK** and click **OK**. The **Password Changed Successfully** window opens.
- 5. Click OK.

Set Digital Signature PIN

Use this option to change the Digital Signature PIN using the Digital Signature PUK.

To set a digital signature PIN:

1. Open SafeNet Authentication Client Tools Advanced view.

Do one of the following:

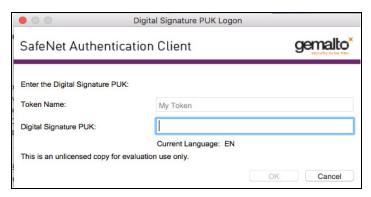
a. In the left pane, select the node of the required token.

In the right pane, click the **Change Digital Signature PIN** icon:



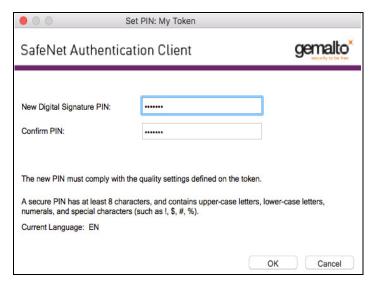
b. In the left pane, right-click the node of the required token, and select **Set Digital Signature PIN** from the shortcut menu.

The Digital Signature PUK Logon window opens.



2. Enter the Digital Signature PUK and click OK.

The Set PIN window opens.



- 3. Enter a New Digital Signature PIN.
- Confirm the New Digital Signature PIN and click OK.
 The Password Changed Successfully window opens.
- 5. Click OK.

PKCS#11 Digital Signature PIN Authentication

For Common Criteria signature compliancy, the Digital Signature PIN must be authenticated before each signing operation. Thus, the PKCS#11 library may prompt the user to enter the Digital Signature PIN.

Logging onto the device is required when a Common Criteria RSA private key operation is performed for the first time using the PKCS#11 library (for example signing operations). With the support of Common Criteria PKCS#11 Multi-Slots (in unlinked mode), all qualified signature functionalities are available via the Common Criteria virtual slot labeled **Digital Signature PIN**, which are associated with PIN Role #3. Thus, in order to use Common Criteria keys, the user must ensure that this Common Criteria slot is selected and used by the application.

The application must then call C_Login on the virtual slot as a CKU_USER to provide the qualified Digital Signature PIN (PIN role #3).

The device remains in login state unless it was configured otherwise. In this case the user is prompted to enter the Digital Signature PIN when needed.

If the Digital Signature PIN authentication fails, an error message is displayed.

See the SafeNet Authentication Client Administrator Guide for setting Multi-Slot values.

Linked Mode (2 Passwords)

To work in linked mode, the token/card must be initialized to work in linked mode. Select the **Use the same token** and administrator passwords for digital signature operation check-box (see Chapter 5: "Initializing IDPrime Based Devices" on page 59) to perform digital signing operations with only a Token and Administrator password.

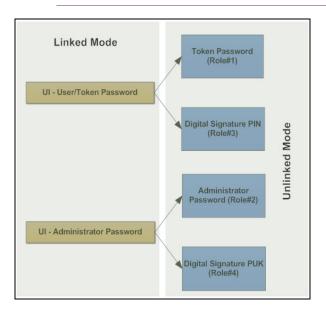
Working in linked mode, the user enters a Token Password to authenticate for both Digital Signature operations (where a Digital Signature PIN is required) and regular token operations (where a Token Password is required).

The user enters the Administrator Password to authenticate operations that require an Administrator Password or Digital Signature PUK.



NOTE:

If the device is in linked mode, with the default administrator password, the feature is disabled.



Linked Mode PIN Policy Settings

The user password must be compliant with the password quality of the Token Password (Role#1) and the Digital Signature PIN (Role#3) i.e. the password used as the Token Password must be at least 6 digits long and must also be compliant with the password quality settings of the Token Password (Role#1) and the Digital Signature PIN (Role#3).

The password policy of the Digital Signature PUK (Role#4) must be set to minimum i.e. 6 characters long, while other password policies are disabled.

Operational Differences and Role Protection

The table below displays the differences between eToken 5100 CC and eToken 5110 CC/IDPrime 840 and the roles that protect the specific operation.

Operation	eToken 5100 CC	IDPrime 840/3840 and
		eToken 5110 CC
This column indicates the type of operation performed.	This column indicates which password is required to perform the specified operation on an eToken 5100 CC device.	This column indicates which password is required to perform the specified operation on IDPrime 840/3840 and eToken 5110 CC devices.
Initialize	Initialization Key	Administrator Password
Generate sign only key pair	Token Password	Token Password + Digital Signature PIN
Generate exchange key pair	Token Password	Token Password
Import sign only key pair	Import Password	Token Password + Digital Signature PIN
Import exchange key pair	Token Password	Token Password
Delete sign only key pair	Token Password	Token Password + Digital Signature PIN
Delete exchange key pair	Token Password	Token Password
Sign with sign only key pair	Token Password	Digital Signature PIN
Sign with exchange only key pair	Token Password	Token Password
Decrypt	Token Password	Token Password
Unlock	Token Password is locked by the Digital Signature PUK	Token Password is locked by the Administrator Password Digital Signature PIN is locked by the Digital Signature PUK

SafeNet eToken 5300

SafeNet eToken 5300 is an ideal solution for enterprises looking to deploy the military-grade security of PKI, while maintaining a convenient solution for employees. The eToken 5300 is a compact, tamper-evident USB with presence detection, which creates a third factor of authentication. Something you have (physical token), something you know (PIN), something you do (enabling touch sensor). The eToken 5300 offers multi-application dynamic smart card functionality. It can be used with any USB connection for Identity and Access Management applications such as network authentication, digital signatures, email encryption and other advanced services based on Public Key Infrastructure (PKI). The eToken 5300 is certified FIPS 140-2 L3 at the full token boundary.

With the Presence Detection feature, enterprise IT can allow single sign on for employees by requiring a user PIN only at logon. That way, employees can use the advance functionality of PKI, such as digitally signing documents and encrypting email by simply touching the sensor on the token, which provides authentication without entering a PIN multiple times. If enterprise IT want more control of specific certificates they can set rules to either always require the user to enter a password or always require both user password and sensor activation when accessing those particular certificates.

eToken 5300 Certificates

The eToken 5300 device can have either one or both of the following certificates on the token:

- Signature Certificate Used to perform digital signature operations only
- Exchange Certificate Used to perform various cryptographic operations such as digital signature, encryption of data or authentication

In addition to the PIN protection available on the token, each or both types of certificates can also be protected using the touch sense on the eToken 5300 device.

The eToken 5300 is available in the following configurations:

- Signature Certificates that are touch sense protected (default)
- Exchange Certificates that are touch sense protected
- Both Signature and Exchange Certificates that are touch sense protected



NOTE:

- The eToken 5300 configuration is defined at the factory and cannot be changed.
- When using the eToken 5300 configured with touch sense support for Signature keys, signature operations with an Exchange certificate will not be touch sense protected.

Viewing eToken 5300 Information

To view eToken 5300 touch sense configurations in SAC Tools:

- 1. Do one of the following:
 - Right-click the SafeNet Authentication Client tray icon, and from the shortcut menu, select Tools.
 - From the Mac desktop, select Go > Applications > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client.

The SafeNet Authentication Client Tools window opens in the Simple view.

2. Click the Advanced View icon.

The SafeNet Authentication Client Tools window opens in the Advanced view.

3. In the left pane, select the eToken 5300 node.

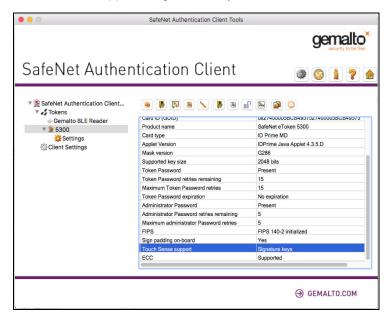
The Token's Information is displayed.



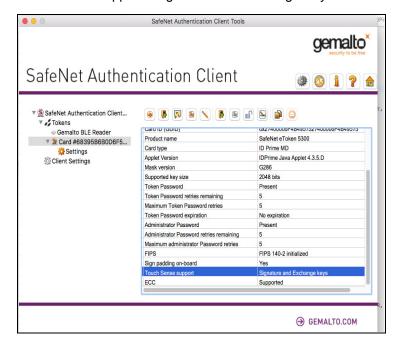
NOTE:

Configuration information displayed in SAC Tools varies according to how the token was received from the factory.

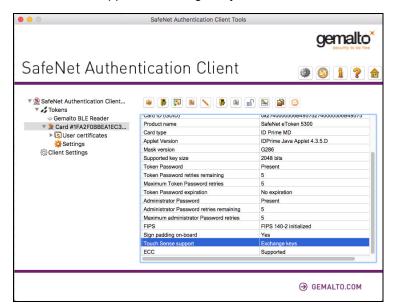
Touch Sense support - Signature Keys



Touch Sense support - Signature and Exchange Keys



Touch Sense support - Exchange Keys



Using the eToken 5300 Touch Sense

When performing a Digital Signature operation using the eToken 5300 device, the user is prompted to touch the sensor on the token to complete the signing operation.



eToken 5300 Touch Sense Timeout and Grace period

Touch Sense Timeout

The eToken 5300 touch sense device has a default timeout of 30 seconds. If the cryptographic operation requires the device to be touched and the user does not touch the sensor within the 30 second time frame, the operation fails.

Touch Sense Grace Period

The eToken 5300 has a 30 second grace period.

After the sensor is touched for the first cryptographic operation (that is within the 30 second time frame mentioned above), all other sequential cryptographic operations performed within the grace period time, will not require the touch sensor.

Client Settings

Client Settings are parameters that are saved to the computer and apply to all tokens that are initialized on the computer after the settings have been configured. Use token settings to determine behavior that applies to a specific token. See Chapter 10: "Token/Smart Card Settings" on page 89.

Setting Password Quality (eToken devices only)

The *Password Quality* feature enables the administrator to set certain complexity and usage requirements for token passwords.

To set PIN Quality parameters for IDPrime cards see Chapter 10: Setting IDPrime PIN Quality (PIN Quality Tab) (page 93).



NOTE:

The token password is an important security measure in safeguarding your company's private information. The best passwords are at least eight characters long, and include upper-case and lower-case letters, punctuation marks, and numerals appearing in a random order.

To set the Password Quality:

- Open SafeNet Authentication Client Tools Advanced view.
 See "Opening the Advanced View" on page 16.
- 2. In the left pane, select Client Settings.
- 3. In the right pane, select the **Password Quality** tab.

The Password Quality tab opens.

- 4. Do one of the following:
 - · Change the Password Quality settings, and click Save.



TIP:

The Password Quality settings are configured the same way as the Token Password quality settings.

See Chapter 10: Setting eToken Password Quality (Password Quality Tab), on page 89.

- · To ignore your changes, click **Discard**.
- To apply SafeNet Authentication Client's default settings, click Set to Default.



NOTE:

When entering a value in the *Expiry warning period* field, you must make sure that a value is also entered in the *Maximum usage period* field. If no value is entered in the *Maximum usage period* field, an error message appears.

Allowing Password Quality Configuration on Token after Initialization (eToken devices only)

The *Allow password quality configuration on token after initialization* option determines whether the password quality parameters on the token can be changed after initialization.



NOTE:

This feature is not supported by iKey devices.

To enable password quality configuration after initialization:

- Open SafeNet Authentication Client Tools Advanced view.
 See "Opening the Advanced View" on page 16.
- 2. In the left pane, select Client Settings.
- 3. In the right pane, select the **Advanced** tab.
- 4. Select Allow password quality configuration on token after initialization.
- 5. Do one of the following:
 - · To save your changes, click Save.
 - To ignore your changes, click Discard.

Allowing Only an Administrator to Configure Password Quality on Token (eToken Devices only)

The *Allow only an administrator to configure password quality on token* option determines whether the password quality parameters on the token can be changed after initialization by the administrator only, and not by the user. This option is selected by default.

To define who can configure password quality on a token:

- 1. Open SafeNet Authentication Client Tools *Advanced* view. See "Opening the Advanced View" on page 16.
- 2. In the left pane, select Client Settings.
- 3. In the right pane, select the **Advanced** tab.
- 4. Do one of the following:
 - To enable configuration by the administrator only, select **Allow only an administrator to configure** password quality on token.
 - To enable configuration by the user also, clear Allow only an administrator to configure password quality on token.
- Do one of the following:
 - To save your changes, click Save.
 - To ignore your changes, click **Discard**.

Showing the SafeNet Authentication Client Tray Icon

You can determine whether the SafeNet Authentication Client tray icon is displayed.

To show the SafeNet Authentication Client tray icon:

- Open SafeNet Authentication Client Tools Advanced view. See "Opening the Advanced View" on page 16.
- In the left pane, select Client Settings.
- 3. In the right pane, select the **Advanced** tab.
- 4. In the Show application tray icon drop-down list, select one of the following:
 - · Never: The tray icon is never displayed
 - · Always: The tray icon is always displayed
- 5. Do one of the following:
 - To save your changes, click Save.
 - To ignore your changes, click **Discard**.

Enabling Logging

The logging function creates a log of SafeNet Authentication Client activities.



NOTE

You must have administrator privileges to use the logging function.

For Mac - The log files are located in: /tmp/eToken.log

To activate the logging function on a Mac System:

- Open SafeNet Authentication Client Tools Advanced view.
 See "Opening the Advanced View" on page 16.
- 2. In the left pane, select Client Settings.
- 3. In the right pane, select the **Advanced** tab, and click **Enable Logging**.



NOTE:

You must restart your machine for the settings to take effect.

To disable the logging feature on a Mac System:

- Open SafeNet Authentication Client Tools Advanced view.
 See "Opening the Advanced View" on page 16.
- 2. In the left pane, select Client Settings.

In the right pane, select the **Advanced** tab, and click **Disable Logging**.

Enabling Logging - eBanking Profile

The eBanking profile excludes SAC Tools and therefore the **Enable Logging** process must be performed manually.

To Enable Loggin via the eBanking Profile:

- 1. Go to the /etc folder.
- 2. Edit the etoken.conf file by adding the following:

```
[LOG]
Enabled = 1
MaxFileSize = 5368770911
Days = 100
```

- 3. Close and then reopen SAC Monitor to begin the logging process (Applications > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client.app).
- 4. Check that the log folder was created under the /tmp folder and that it contains log files.

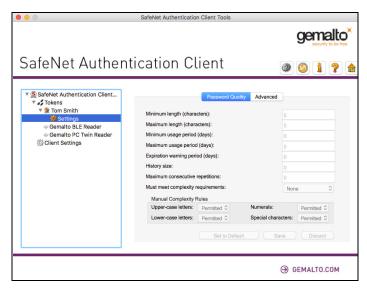
Token/Smart Card Settings

Configurations set in the selected token's Settings tab determine behavior that applies to the specific token.

For configurations set in *Client Settings*, that apply the settings to all tokens that are initialized after the settings have been configured, see Chapter 9: *Client Settings*, on page 85.

Setting eToken Password Quality (Password Quality Tab)

The Password Quality tab enables you to set the device's password policies.



To set password quality for a token:

- Open SafeNet Authentication Client Tools Advanced view.
 See "Opening the Advanced View" on page 16.
- 2. In the left pane, expand the node of the required token, and select **Settings**.
- In the right pane, select the Password Quality tab.
 The Password Quality tab opens.

4. Enter the password quality parameters as follows:

Password Quality Parameter	Description
Minimum length (characters)	Default: 6 characters
Maximum length (characters)	Default: 16 characters
Maximum usage period (days)	The maximum period, in days, before which the password must be changed. Default: 0 (none) For iKey devices, the periods are rounded up to periods of weeks (7 days), even though the period is displayed in days. For example, if the period is displayed as less than a week, say 6 days, iKey regards it as a week. If the period is more than two weeks, say 15 days, iKey regards it as three weeks.
Minimum usage period (days)	The minimum period before the password can be changed. Default: 0 (none) For iKey devices, the periods are rounded up to periods of weeks. See row above for more information.
Expiration warning period (days)	Defines the number of days before the password expires that a warning message is shown. Default: 0 (none)
History size	Defines how many previous passwords must not be repeated. Default: 0 For eToken devices - 10 For iKey devices - 6
Maximum consecutive repetitions	The maximum number of repeated characters that is permitted in the password. Default: 3 This feature is not supported by iKey devices.
Must meet complexity requirements	 Determines the complexity requirements that are required in the token password. At least 2 types: a minimum of 2 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced. At least 3 types: a minimum of 3 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced (Default). None: Complexity requirements are not enforced. Manual: Complexity requirements, as set manually in the Manual Complexity settings, are enforced.

Password Quality Parameter	Description (Cont.)
Manual complexity rules	For each of the character types (Numerals, Upper-case letters, Lower-case letters, and Special characters) select one of the following options:
	 Permitted - Can be included in the password, but is not mandatory (Default).
	Mandatory - Must be included in the password.
	Forbidden - Must not be included in the password.
	Note: The Forbidden option is not supported by iKey devices.

5. Do one of the following:

- To save your changes, click Save.
- To ignore your changes, click **Discard**.
- To apply SafeNet Authentication Client's default settings, click Set to Default.

Setting Private Data Caching Mode (Advanced Tab)



NOTE:

This feature is not supported by iKey, IDPrime MD, .NET and eToken 5110 CC devices.

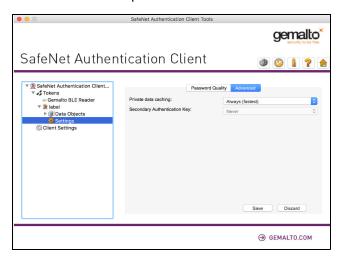
In SafeNet Authentication Client, public information stored on the token is cached to enhance performance.

This setting defines when private information (excluding private keys on the eToken PRO / NG OTP / smart card) can be cached outside the token.

To set private data caching mode:

- 1. Open SafeNet Authentication Client Tools *Advanced* view. See "Opening the Advanced View" on page 16.
- 2. In the left pane, expand the node of the required token, and select **Settings**.
- 3. In the right pane, select the **Advanced** tab.

The Advanced tab opens.



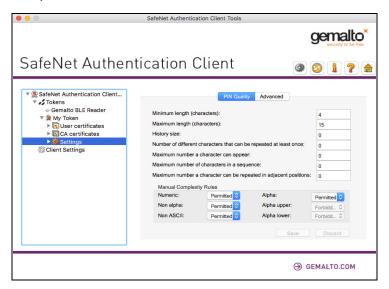
4. In the Private data caching field, select one of the following options:

Option	Description
Always (fastest)	Always caches private information in the application memory. This enables fast performance, as certain information is cached on the host machine. However, this option is less secure than if no cache is allowed.
While user is logged on	Caches private data outside the token as long as the user is logged on to the token. Once the user logs off, all the private data in the cache is erased.
Never	Does not cache private data.

- 5. Do one of the following:
 - To save your changes, click Save.
 - To ignore your changes, click **Discard**.

Setting IDPrime PIN Quality (PIN Quality Tab)

The PIN Quality tab provides parameters which define the rules that must be respected in order for the PIN to be accepted.





NOTE:

In the MD Manager, the unlimited value = FFh In SAC Tools, the unlimited value = 00h

For IDPrime cards, the following PIN Quality parameters exist:

PIN Quality Parameter	Description
Minimum length (characters)	The minimum value that can be set for the length of a PIN's value. This value must be in the range 04h - 40h for a local PIN and 04h - 10h for the global PIN.
Maximum length (characters)	The maximum value that can be set for the length of a PIN's value. This value must be in the range 04h - 40h for a local PIN and 04h - 10h for the global PIN. This value must be equal to or greater than the PIN Min. length value.
History size	Number of previous PIN values that cannot be matched by a new PIN. Range is 00h-0Ah. 00h = No history
Number of different characters that can be repeated at least once	The number of different characters that can be repeated at least once. Range is 00h-FFh. 00h = No limitation
Maximum number of times a character can appear	The maximum number of times a character can appear. Range is 00h-FFh. 00h = No limitation

PIN Quality Parameter	Description (Cont.)
Maximum number of character in a sequence	Max length of characters sequences e.g. 1,2,3,4 or a,b,c,d. Range is 00h-FFh. (For example: If set to 4, 1,2,3,4,a,5 is allowed, but 1,2,3,4,5,a is not allowed). 00h = No limitation
Maximum number of times a character can be repeated in adjacent	Maximum number of times that characters can be adjacent. Range is 00h-FFh. 00h = No limitation 01h = Repeated characters cannot be adjacent
Manual complexity rules	For each of the character types (Numeric, Alpha upper, Alpha lower, Alpha, non alpha, Non ASCII) Numeric = 30h39h Alpha upper = 41h5Ah Alpha lower = 61h7Ah Alpha = 41h5Ah + 61h7Ah Non alpha = 20h2Fh + 3Ah40h + 5Bh60h + 7Bh7Fh Non ASCII = 80hFFh

Setting IDPrime PIN Properties (Advanced Tab)

The PIN Advanced tab enables you to define PIN properties that must be met in order for the PIN to be accepted. The PIN Advanced tab is available for all IDPrime based devices.

Select **Settings** in the left pane, to view the User PIN Quality/Advanced fields in the right pane.

Select **Digital Signature PIN** in the left pane, to view the Digital Signature PIN Quality/Advanced fields in the right pane.

Select **Digital Signature PUK** in the left pane, to view the Digital Signature PUK Quality/Advanced fields in the right pane.



For IDPrime MD cards, the following PIN Property parameters exist in the Advanced Tab:

PIN Property Parameter	Description
PIN Type	 Regular PIN - Use the keyboard to enter a PIN External PIN - Use an external keyboard/key pad
PIN Purpose	Defines the purpose of the PIN. This property is for information only. The following options are available: • Authentication PIN • Digital Signature PIN • Encryption PIN • Non Repudiation PIN • Administrator PIN • Primary Card PIN • Unlock Only PIN
Cache Type	Read only field
Cache Info	Read only field

PIN Property Parameter	Description (Cont.)
PIN Flags	These flags are for backward compatibility only. No Flags Required Security Entry
Ext. PIN Flags	 The following options are available: No Flags - PINs are considered as follows: Regular PIN & Normal Reader ==> Regular PIN Regular PIN & PIN Pad Reader ==> External PIN External PIN & Normal Reader ==> Regular PIN External PIN & PIN Pad Reader ==> External PIN No Regular fallback - changes the third case as follows: External PIN & Normal Reader ==> Login refused No Auto PIN Pad - changes the second case as follows: Regular PIN & PIN Pad Reader ==> Regular PIN No Regular fallback + No Auto PIN Pad (both of the above).
PIN Validity Parameter:	
Validity period (days)	The maximum period, in days, before the PIN must be changed. When the PIN expires, the user is forced to change the PIN value the next time that the PIN is presented. Default: 0 (no validity period) Note: The PIN validity settings (Validity period and Expiration warning period) cannot be modified when using IDPrime MD 830A.
Expiration warning period (days)	Defines the number of days before the PIN expires that a warning message is shown. Default: 0 (no warning)



NOTE:

PIN Quality and PIN Property settings may also be accessed when Initializing a device. See Chapter 5: Initializing IDPrime Based Devices (page 59).

Licensing

Import a SafeNet license for your SafeNet Authentication Client installation.

Viewing and Importing Licenses

SafeNet Authentication Client installations that do not have a SafeNet license can be used for evaluation only, and a message is displayed on all logon windows.

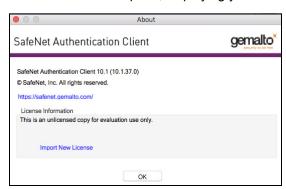
You can view your licenses and import new ones using the SafeNet Authentication Client About window.

To view and import licenses:

- 1. Do one of the following:
 - Right-click the SafeNet Authentication Client tray icon, and from the shortcut menu, select About.
 - Open SafeNet Authentication Client Tools.
 See "Opening the Advanced View" on page 16.
 On the toolbar, click the **About** icon:



The About window opens, displaying your license information in the License Information box.



2. To import a new license, select **Import New License**.

The Import License window opens.

- 3. Do one of the following:
 - If the SafeNet license box is automatically filled, click OK.
 - Copy your new SafeNet license string to the license box, and click OK.
 - Click **Import from File**, browse to the file containing your license, open it to copy its contents to the license box, and click **OK**.
 - The About window opens, displaying your updated license information in the License Information box.