

SafeNet Authentication Client (Mac)

Version 8.2 Revision B

User's Guide



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Additional Documentation

The following SafeNet publications are available:

- SafeNet Authentication Client (Mac) 8.2 Administrator's Guide
- SafeNet Authentication Client (Mac) 8.2 ReadMe

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1

Introduction

SafeNet Authentication Client enables token operations and the implementation of token based PKI solutions.

In this chapter:

- Overview
- New Features

Overview

Public Key Infrastructure (PKI) is a framework for creating a secure method for exchanging information based on public key cryptography, providing for trusted third-party vetting of, and vouching for, user identities. It is an arrangement that consists of 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's Authentication Client enables integration with various security applications. It enables token security applications and third party applications to communicate with the token. These include token PKI solutions using PKCS#11 or proprietary token applications.

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 PKCS#11 security interfaces enables out-of-the-box interoperability with a variety of security applications offering secure web access, PC and data security, secure email, and more. PKI keys and certificates can be created, stored, and used securely from within token hardware or software devices.

SafeNet Authentication Client can be deployed and updated using any standard software distribution system.

The SafeNet Authentication Client Tools application is installed by the SafeNet Authentication Client, providing easy-to-use configuration tools for users and administrators.

New Features

The following features were introduced in SafeNet Authentication Client 8.2 (Mac):

- Support for OS x 10.8 (Mountain Lion)
- Support for Common Criteria (CC) certified devices and CC digital signatures.
- Support for following SHA2 algorithms: SHA256, SHA384, SHA512
- Support for onboard hashing: SHA1, SHA256
- Licensing Activation function
- Certificate Expiry Alert function (For details on how to configure the Certification Expiry Alert, see SafeNet Authentication Client (Mac) 8.2 Administrator's Guide).
- Support for additional tokens:
 - ◆ SafeNet eToken Pro CC
 - ◆ SafeNet eToken 5100/5105
 - ◆ SafeNet eToken 5200/5205
 - ◆ SafeNet eToken 7300
 - ◆ SafeNet iKey 2032
 - ◆ SafeNet iKey 4000

2

SafeNet Authentication Client User Interface

This section describes how to find your way around the SafeNet Authentication Client user interface.

In this chapter:

- Overview of SafeNet Authentication Client User Interface
- SafeNet Authentication Client Tray Icon
- SafeNet Authentication Client Tools Main Screen

Overview of SafeNet Authentication Client User Interface


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

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.

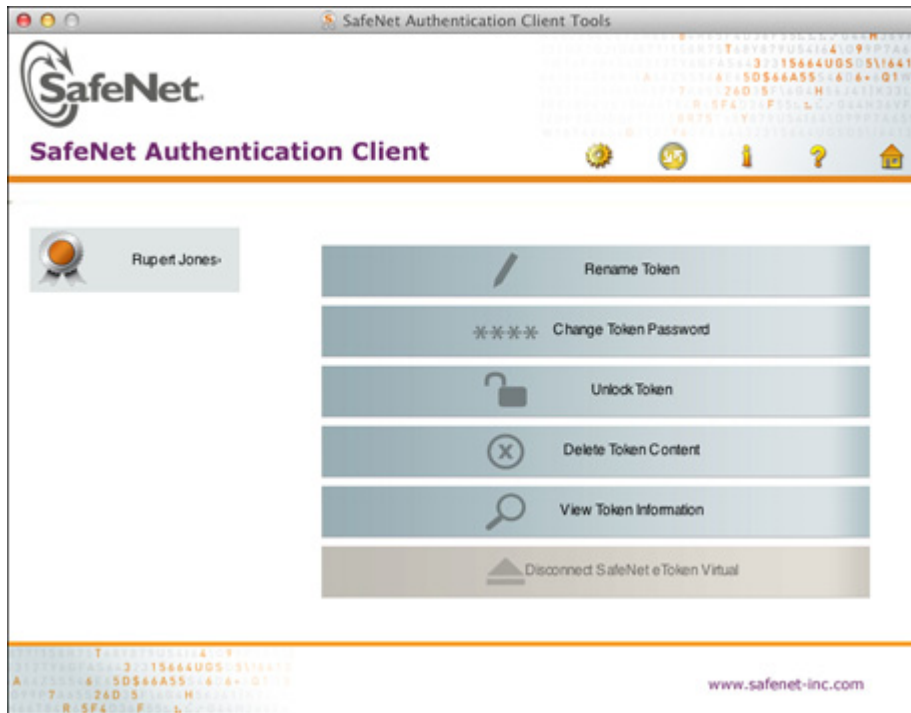
Tools provides information about the token, including its identification and capabilities. It has access to information stored on the token such as keys and certificates, and enables management of content, such as password profiles.

NOTE Do not remove the token from the USB port during an operation. This may cause corruption of data on the token.

To launch the application, do one of the following:

- 1 Click the application tray icon  and select **Tools** from the menu.
- 2 From Mac desktop select **Go > Applications > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client Tools**.

The *SafeNet Authentication Client Tools* window opens.



SafeNet Authentication Client Tray Icon

The SafeNet Authentication Client tray icon gives you quick access to many of the functions in the application.

Launching the Tray Menu

To access the tray menu:

- Click the application tray icon.



The tray menu opens.

Tray Icon Menu

The following functions can be accessed quickly from the tray icon menu:

- **Tools:** launches *SafeNet Authentication Client Tools*.
- **Generate OTP:** generates OTP for *SafeNet eToken Virtual*. This function is available only if *SafeNet eToken Virtual* is configured to support this function.

- **Delete Token Content:** removes the deletable data from the token. (This is disabled by default. For details on how to activate this feature, see SafeNet Authentication Client (Mac) 8.2 Administrator's Guide)
- **Change Token Password:** changes the token password.
- **Tokens:** provides the option to select the active token when more than one is inserted.
- **About:** displays product information
- **Hide:** hides the icon

Hiding and Unhiding the Tray Icon

To hide the tray Icon:

- Click the application tray icon and select **Hide**.

To unhide the tray Menu:

Do one of the following:

- ◆ Remove and re-insert the token
- ◆ Re-boot the computer

SafeNet Authentication Client Tools Main Screen

Tools includes two viewing options:

- *Simple view*: to perform basic and common tasks. See *Simple View* on page 19.
- *Advanced view*: for complete control over the SafeNet Authentication Client and the inserted tokens.





See *Advanced View* on page 24.



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 Main Screen Toolbar

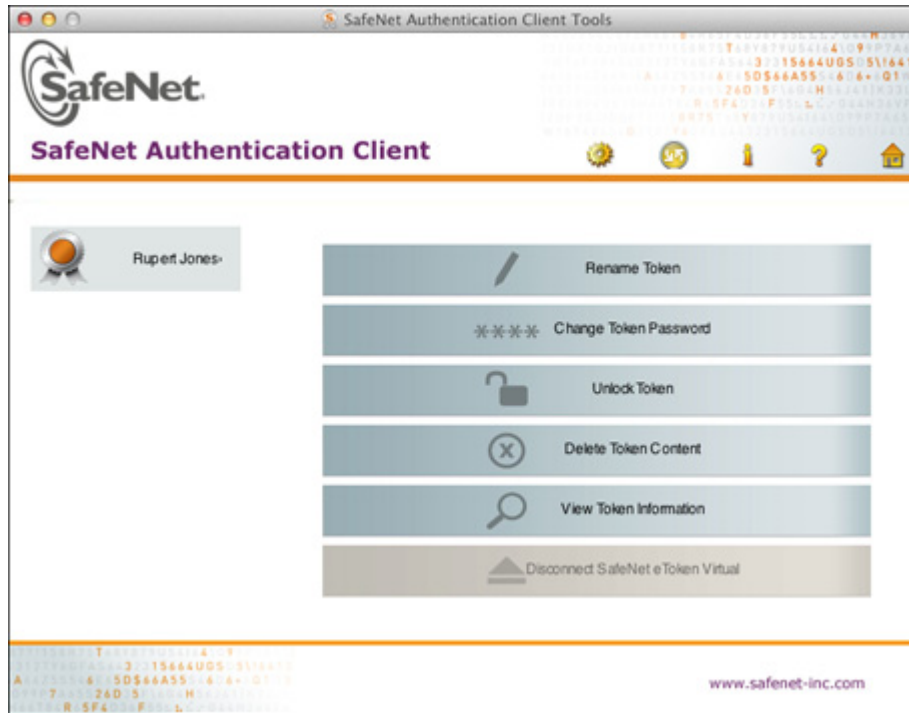
The main screen toolbar is displayed in both simple and advanced view. The toolbar contains the following icons:

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
	About – displays product version information

Icon (Cont.)	Action (Cont.)
	Help – launches the help
	SafeNet Home - opens the SafeNet's website

Simple View

The SafeNet Authentication Client Tools is launched in simple view.






When a token is inserted or SafeNet eToken Virtual is present, a specific icon representing the inserted token is displayed in the left pane.




Each token has a name displayed to the right of the icon. *My Token* is the default name if no name has been assigned to the token.

The selected token is marked by a shaded rectangle in the left pane.

Authenticator Icons


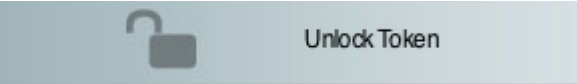
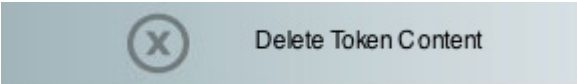
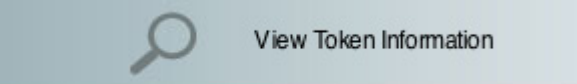
The icon indicates the type of authenticator attached. Simple View Functions

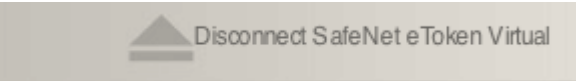
Icon	Type
	eToken PRO, SafeNet eToken Virtual, eToken NG Flash, eToken NG Flash Anywhere
	eToken PRO Anywhere
	SafeNet eToken Rescue
	eToken NG-OTP
	Reader

Icon (Cont.)	Type (Cont.)
	eToken PRO Smartcard
	Broken token
	Unknown token

In the right pane, you can select any of the enabled buttons to perform the action described.

Function	Button
Rename Token - sets the token name.	

Function (Cont.)	Button (Cont.)
Change Token Password – changes the token password.	 <p>A rectangular button with a light blue background. On the left, there are four asterisks (****) in a grey font. To the right of the asterisks, the text "Change Token Password" is displayed in a dark grey font.</p>
Unlock Token – resets the user password via a challenge response mechanism. Enabled only when an administrator password has been initialized on the token.	 <p>A rectangular button with a light blue background. On the left, there is a grey icon of an open padlock. To the right of the icon, the text "Unlock Token" is displayed in a dark grey font.</p>
Delete Token Content - removes deletable data from the token.	 <p>A rectangular button with a light blue background. On the left, there is a grey icon of a circle with an 'X' inside. To the right of the icon, the text "Delete Token Content" is displayed in a dark grey font.</p>
View Token Information – provides detailed information about the token.	 <p>A rectangular button with a light blue background. On the left, there is a grey icon of a magnifying glass. To the right of the icon, the text "View Token Information" is displayed in a dark grey font.</p>

Function (Cont.)	Button (Cont.)
Disconnect SafeNet eToken Virtual – disconnects the SafeNet eToken Virtual or SafeNet eToken Rescue, with an option for deleting it.	

Advanced View

The Advanced View provides additional token management functions.

To see the advanced view, click the **Advanced View** icon  in the Simple view.



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

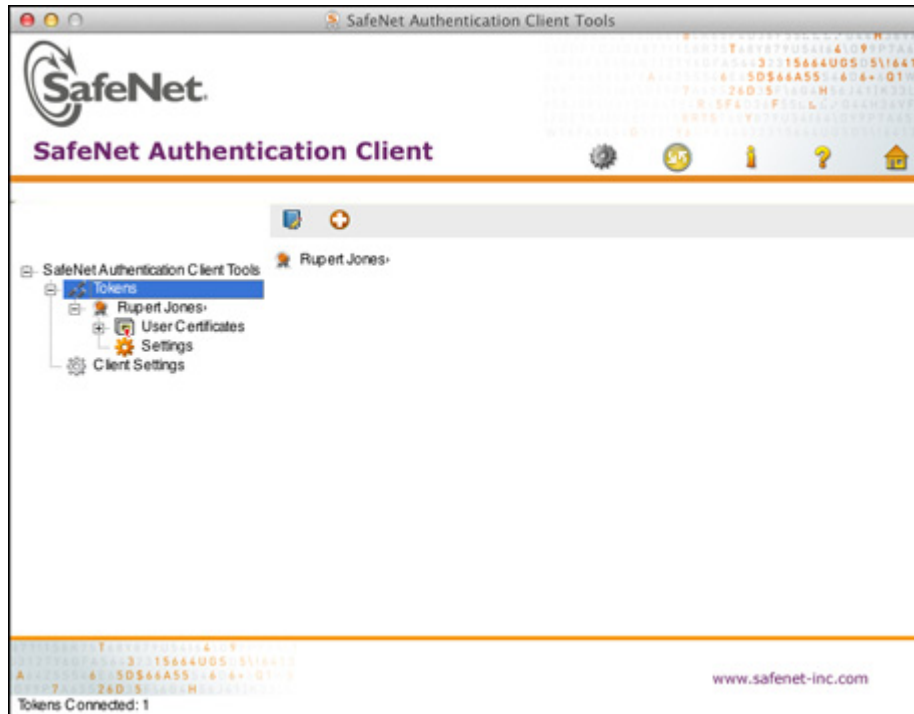
When you select an object, the relevant functions are available by clicking on the icons in the right pane, or by right clicking on the object and selecting the required function from the menu.

Advanced View Functions



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

Tokens Node

When you select the Tokens node, the list of attached tokens is displayed in the right pane.



The following functions are available.






Function	Icon	Right-Click Menu Item
Reader Settings See <i>Reader Settings</i> on page 84		Reader Settings
Connect SafeNet eToken Virtual See <i>Overview of SafeNet eToken Virtual and SafeNet eToken Rescue</i> on page 87		Connect SafeNet eToken Virtual



Attached Tokens

The names of the tokens are displayed in the left pane. When you select a token, information about the token is displayed in the right pane and the name of the token reader is displayed in the tool-tip.




The following user functions are available.




User Function	Icon	Right-Click Menu Item
Initialize Token See <i>Token Initialization</i> on page 37		Initialize
User Logon to Token See <i>Logging On to a Token as a User</i> on page 56		Log on
Import Certificate See <i>Importing a Certificate onto a Token</i> on page 59		Import Certificate
Change Password See <i>Changing the Token Password</i> on page 68.		Change Password
Rename Token See <i>Renaming a Token</i> on page 70.		Rename

User Function (Cont.)	Icon (Cont.)	Right-Click Menu Item (Cont.)
Disconnect SafeNet eToken Virtual. See <i>Disconnecting SafeNet eToken Virtual</i> or <i>SafeNet eToken Rescue</i> on page 90		Disconnect
Copy to Clipboard See <i>Copying Token Information to the Clipboard</i> on page 71		<i>Not available</i>

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

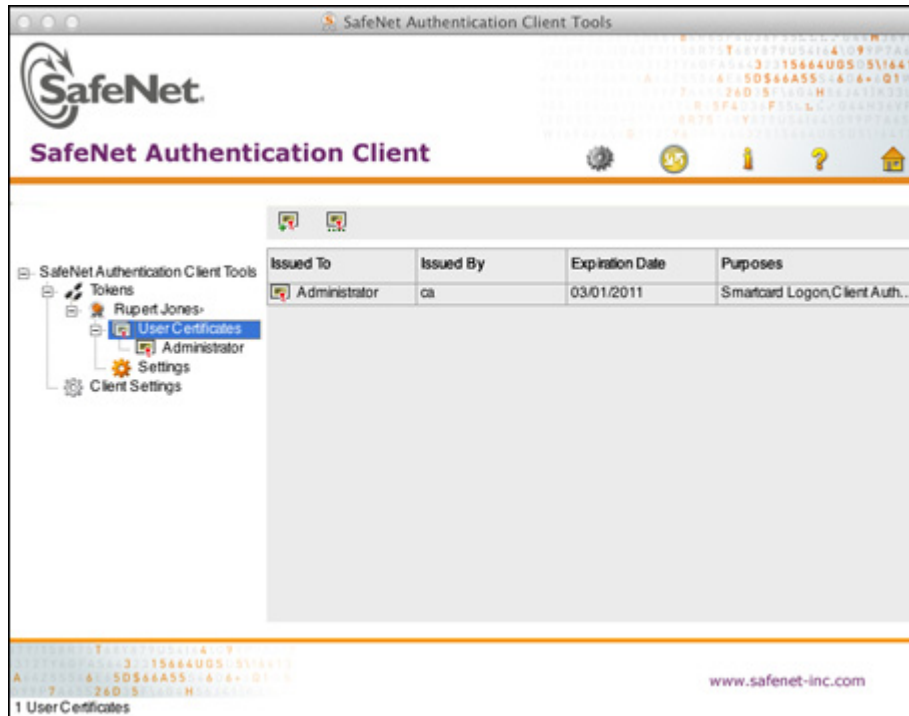


Administrator Function	Icon	Right-Click Menu Item
Log on as Administrator See <i>Logging On to a Token as an Administrator</i> on page 58.		Log on as Administrator




Administrator Function	Icon (Cont.)	Right-Click Menu Item (Cont.)
Change Administrator Password See <i>Changing the Administrator Password</i> on page 72.		Change Administrator Password
Unlock Token See <i>Unlocking a Token using Challenge - Response</i> on page 77.		Unlock
Set Token Password (is activated only when you have logged on to the Token with an administrator password) See <i>Unlocking a Token Using Set Token Password</i> on page 76.		Set Token Password

User Certificates

If the token contains certificates, a *User Certificates* node is displayed in the left pane under the token. Information about the certificates on the token is displayed in the right pane.

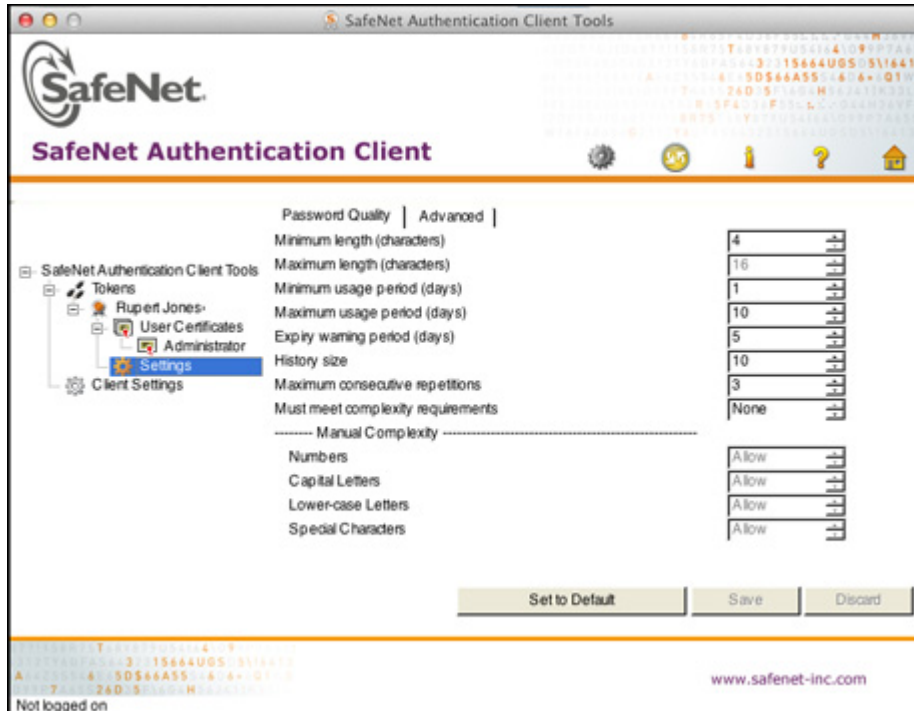


The following functions are available:

User Function	Icon	Right-Click Menu Item
Import Certificate See <i>Importing a Certificate onto a Tokenon</i> page 59	 An icon showing a certificate with a green plus sign and a red checkmark, indicating an import action.	Import Certificate
Export Certificate See <i>Exporting a Certificate from a Tokenon</i> page 64	 An icon showing a certificate with a green plus sign and a red checkmark, indicating an export action.	Export Certificate
Delete Certificate See <i>Deleting a Certificateon</i> page 66	 An icon showing a certificate with a red X over it, indicating a delete action.	Delete Certificate

Settings

Each attached token has a *Settings* window.



The settings window contains two tabs:

- Password Quality (See *Setting Password Quality* on page 96)
- Advanced (See *Setting Private Data Caching* on page 101 and *Setting RSA Key Secondary Authentication* on page 103)

SafeNet Authentication Client Settings

The Client Settings will affect all tokens that will be initialized after the settings have been configured.

The *SafeNet Authentication Client Settings* window contains two tabs, as in the *Settings* window:

- Password Quality
- Advanced

See *SafeNet Authentication Client Settings* on page 105.

3

Token Initialization

Token initialization restores a token to its initial state, removing all objects stored on the token since manufacture, frees up memory, and resets the token password.

Typically, initialization is carried out on a token when an employee leaves the company, enabling the token to be issued to another employee.

NOTE You cannot initialize SafeNet eToken Virtual with SafeNet Authentication Client.

In this chapter:

- Overview of Token Initialization
- Initializing a Token
- Configuring Advanced Initialization Settings
- Changing the Token Initialization Key
- Configuring Common Criteria Settings

Overview of Token Initialization

The token initialization option restores a token to its initial state. It removes all objects stored on the token since manufacture, frees up memory, and resets the token password, allowing administrators to initialize the token according to specific organizational requirements or security modes.

Initializing a token is useful, for example, after an employee has left a company. 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)
- Login retries before token is locked (for token and administrator passwords)
- Token Password must be changed on first logon
- Initialization key

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

Initializing a Token

To initialize a token:

- 1 Click **Initialize Token** on the toolbar, or right-click the token name in the left pane and select **Initialize** from the shortcut menu.

The *Initialize Token* window opens.



The screenshot shows the 'Token Initialization' window from the SafeNet Authentication Client. The window title is 'Token Initialization' and the header includes the SafeNet logo and 'SafeNet Authentication Client'. The main content area is divided into two sections. The first section, 'Set new Token Password', is checked and contains fields for 'Token Name' (with 'My Token' entered), 'Token Password', 'Confirm', and 'Logon retries before token is locked' (set to 15). The second section, 'Set new Administrator Password', is unchecked and contains fields for 'Administrator Password', 'Confirm', and 'Logon retries before token is locked' (set to 15). A note below this section states: 'Note: Many token models can be unlocked only if they have an Administrator Password.' At the bottom, there is a checked checkbox for 'Token Password must be changed on first logon', a blue 'Advanced' link, and 'Start' and 'Cancel' buttons.

- 2 Enter a name for the token in the *Token Name* field. If no name is entered, the default name, *My Token*, is applied.
- 3 Select **Set Token Password** to initialize the token with a token password. Otherwise, the token is initialized without a token password, and it will not be usable for SafeNet (eToken) applications.
- 4 If **Set Token Password** is selected, enter a new token password in the *Set Token Password* and *Confirm* fields.

NOTE The default password for a new token is 1234567890. If the user uses the default password during initialization, and default password quality requirements are used, the user must select the Token Password must be changed at first logon option. Otherwise the initialization will fail, as the default password will not meet default password quality requirements (See Setting Password Quality on page 99). If the Token Password must be changed at first logon field is selected, the initialization will succeed and the user will be prompted to set a new token password when next logging on with the token. The user will then be required to set a password meeting password quality requirements, as configured in the settings window. See *Setting Password Quality* on page 96.

- 5 To initialize an administrator password, select **Set Administrator Password** and enter a password in the *Set Administrator Password* and *Confirm fields*. (Minimum password length is 4 characters.)

NOTE The user cannot set the Administrator Password for SafeNet iKey 2032 or SafeNet iKey 4000.

- 6 In the *Logon retries before token is locked* field, enter a value between 1 and 15. This counter specifies the number of times the user or administrator can attempt to log on to the token with an incorrect password before the token is locked. The default number of incorrect logon attempts is 15.

- 7 If required, select **Token Password must be changed on first logon**.

This is selected by default.

- 8 If you want to configure advanced settings, continue from the next section (see *Configuring Advanced Initialization Settings*).

- 9 Click **Start**.

When the initialization process is complete, a confirmation message is displayed.

Configuring Advanced Initialization Settings

To configure advanced settings:

- 1 In the *Initialize Token* window click **Advanced**.

The *Advanced Token Initialization Settings* window opens.



2 Complete the fields as follows:

Field	Description
One-factor logon	<p>Default: disabled.</p> <p>When one factor logon is enabled, only the presence of the token is required to log on to applications. A password is not required.</p> <p>Note: For security reasons, one-factor logon is not applied to SafeNet Authentication Client Tools.</p>
Token settings control password policy	<p>Default: enabled</p> <p>Select to keep password quality requirements on the token device.</p>
OTP support	<p>Select to enable OTP support (on compatible token).</p>
2048-bit RSA key support	<p>Default: enabled</p> <p>Select to enable 2048-bit RSA key support (on compatible tokens).</p>
Private data caching	<p>In SafeNet Authentication Client, public information stored on the token is cached to enhance performance. This option defines when private information (excluding private keys on the physical token) can be cached outside the token.</p> <p>Select one of the following options:</p> <ul style="list-style-type: none">◆ 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 out, all the private data in the cache is erased.◆ Never: does not cache private data.

Field (Cont.)	Description (Cont.)
RSA key secondary authentication	<p>An authentication password may be set for an RSA key. If this option is used, then in addition to having the token and knowing the token's password, accessing the RSA key requires knowing the password set for that particular key.</p> <p>This option defines the policy for using this secondary authentication of RSA keys.</p> <ul style="list-style-type: none"> ◆ Always: every time an RSA key is generated, you are prompted to enter a secondary password for accessing this key. Clicking OK generates the key and uses the entered password as the secondary RSA password for that key. Clicking Cancel causes key generation to fail. ◆ Always prompt user: every time an RSA key is generated, a secondary password for accessing this key is requested. However, the user can choose to dismiss the prompt (by clicking Cancel), and key generation will continue without using a secondary password for the generated RSA key. ◆ Prompt on application request: this enables applications that use secondary authentication for RSA keys to make use of this feature on the token (when creating the key in Crypto API with a user protected flag). ◆ Never: secondary passwords are not created for any RSA key and the authentication method uses only the token password to access the key. <p>If the token was initialized as Common Criteria and the secondary authentication <i>Always</i>, <i>Always prompt user</i> or <i>Prompt upon application request</i>, then the secondary authentication setting cannot be changed to <i>Never</i> or <i>Token authentication on application request</i>. This limitation applies to Common Criteria certificates only.</p>
Manually set the number of reserved RSA keys	Set the number of reserved RSA keys. This ensures that there will always be memory available for this number of keys.

Field (Cont.)	Description (Cont.)
Certification	Default: N/A Select the certification type for formatting the token. Select one of the following options: <ul style="list-style-type: none"> ◆ N/A: None ◆ FIPS: Federal Information Processing Standards is a US government approved set of standards designed to improve the utilization and management of computer and related telecommunication systems ◆ Common Criteria: an international standard for computer security certification
Change Initialization Key (link)	The initialization key protects against accidental initialization and requires a separate password to be entered before initialization can occur.
Common Criteria Settings (link)	If <i>Certification</i> is set to Common Criteria , click this button to set the certificate import PIN and the maximum number of certificates for which to reserve space on the token.

- 3 If you want to change the token initialization key continue from the next section (see *Changing the Token Initialization Key* on page 46), else, click **OK** to return to the *Initialize Token* window.
- 4 Click *Start*.

When the initialization process is complete, a confirmation message is displayed.

Changing the Token Initialization Key

Two initialization keys can be provided during the initialization process. One is the current initialization key, it is required so the initialization can be done. The Default Initialization and Specified Initialization Key refer to current initialization key. Second is the Change Initialization key which is the new value of the initialization key that can be set during the initialization.

To change the Token Initialization Key:

- 1 In the *Advanced Token Initialization Settings* window, click **Change Initialization Key**.
The *Token Initialization Key* window opens.



2 Complete the fields as follows:

Field	Description
Use the default initialization Key	Select to use factory-set default.
Use this value	Enter the initialization key to be used.

Field (Cont.)	Description (Cont.)
Change the key for the next initialization to:	Set the new value of the 2nd initialization key for any of the 3 options specified. <ul style="list-style-type: none"> ◆ Default: Revert to default. ◆ Random: If selected, it will never be possible to re-initialize the token. ◆ This Value: Enter and confirm a value for initialization key.

3 Click **OK** to return to the **Advanced Token Initialization Settings** window, then click **OK** again to return to the *Initialize Token* window.

4 Click **Start**.

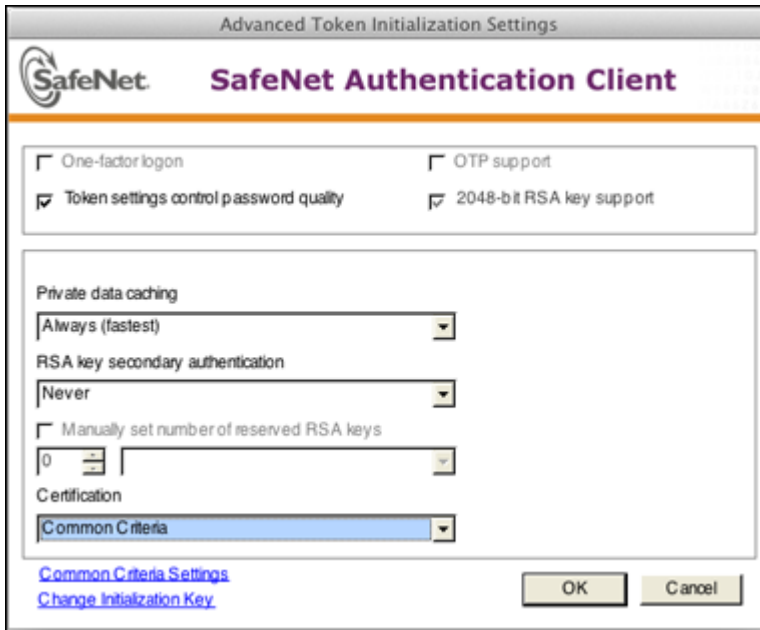
When the initialization process is complete, a confirmation message is displayed.

Configuring Common Criteria Settings

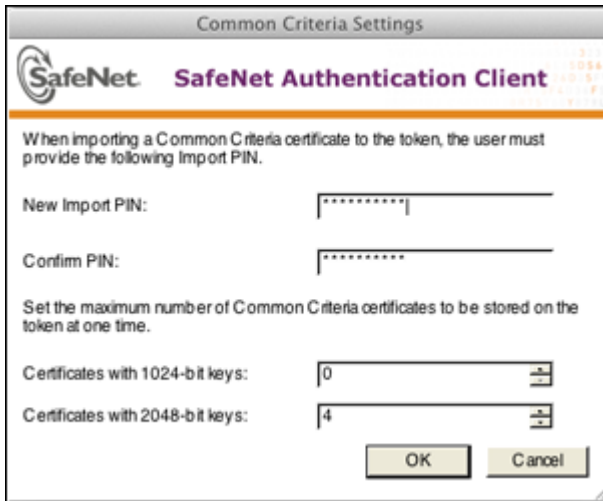
When the selected certification type is **Common Criteria**, set the certificate import PIN and the maximum number of certificates for which to reserve space on the token.

To define the Common Criteria settings:

- 1 Open the *Advanced Settings* window.
See *Configuring Advanced Initialization Settings* on page 42.



- 2 In the *Certification* field, select **Common Criteria**.
- 3 Click the **Common Criteria Settings** link.
The *Common Criteria Settings* window opens.



4 Complete the fields as follows:

Field	Description
Import PIN, Confirm PIN	Define and confirm a PIN that must be entered when a Common Criteria certificate is imported to the token. The minimum PIN length is 4 characters. The default value is 1234567890 .
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 keys	To reserve adequate space on the token, set the maximum number of Common Criteria certificates with 2048-bit keys that will be imported to the token. Select a number within the range 1- 16.
---------------------------------	---

- 5 Click **OK** to return to the *Configuring Advanced Initialization Settings* window.

4

Token Management

The SafeNet Authentication Client Tools application and the SafeNet Authentication Client tray menu enable you to configure the options that control the use of token devices.

In this chapter:

- Selecting the Active Token
- Logging On to a Token
- Importing a Certificate onto a Token
- Exporting a Certificate from a Token
- Deleting a Certificate
- Changing the Token Password
- Renaming a Token
- Copying Token Information to the Clipboard
- Changing the Administrator Password
- Unlocking a Token

- Deleting Token Content
- Viewing Token Information
- Reader Settings

Selecting the Active Token

If more than one token is attached, you must select which device you want to work with.

NOTE The token selected here is relevant only for tray menu functions.

To select the active token:

- 1 Click the application tray icon



- 2 Select **Tokens**.

A list of inserted tokens is displayed.

- 3 Select the required token.

Logging On to a Token

You can log on to a token as a user or as an administrator.

An administrator has limited permissions on a token. No changes to any user information may be made, nor may the user's security be affected. The administrator's functions are restricted to *Change Administrator Password*, *Set Token Password*, *Unlocking Token using Challenge-Response* and *Change Password Quality Settings* that are stored on the token.

Logging On to a Token as a User

To log on as a user:

1 Open *SafeNet Authentication Client Tools*.

2 Click the **Advanced View** icon .

The *Advanced View* window opens.

3 Do one of the following:

◆ Select the required token in the left pane and click the **Log On to Token** icon:




- ◆ Right-click the required token in the left pane and select **Log On** from the shortcut menu. The *Log on* window opens.



- 4 Enter the token password in the *Password* field and click **OK**. The user is logged on.

Logging On to a Token as an Administrator

To log on as an administrator:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 Do one of the following:
 - ◆ Select the required token in the left pane and click the **Log on as Administrator** icon:
A small square icon with a grey background and a black border. Inside, there is a white document icon with a green checkmark.
 - ◆ Right-click the required token in the left pane and select **Log on as Administrator** from the shortcut menu.
The *Log on* dialog box opens.
- 4 Enter the administrator password in the *Password* field and click **OK**.
The user is logged on *as the Administrator*.

Importing a Certificate onto a Token

The following certificate types are supported in SafeNet Authentication Client (Mac):

- .pfx
- .p12
- .cer

If you select a PFX file, the private key and corresponding certificate chain will be imported to the token. You will be prompted to enter the password (if it exists) protecting the PFX file.

If you select a CER file (which contains only X.509 certificates), the program checks if a private key exists on the token. If the private key is found, the certificate is stored with it.

NOTE It is not possible to import a certificate onto SafeNet eToken Rescue.

To import a certificate:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 In the left pane of the *Advanced View* window, select the required token.
- 4 Do one of the following:
 - ◆ In the left pane of the Advanced View window, select the required token and click the *Import Certificate* icon

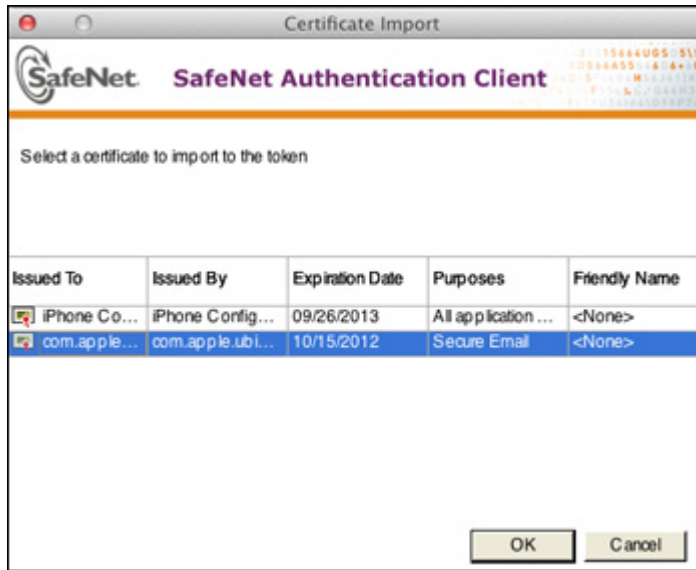


- ◆ In the left pane of the *Advanced View* window, right click the required token and select *Import Certificate* from the menu.

The *Import Certificate* window opens.



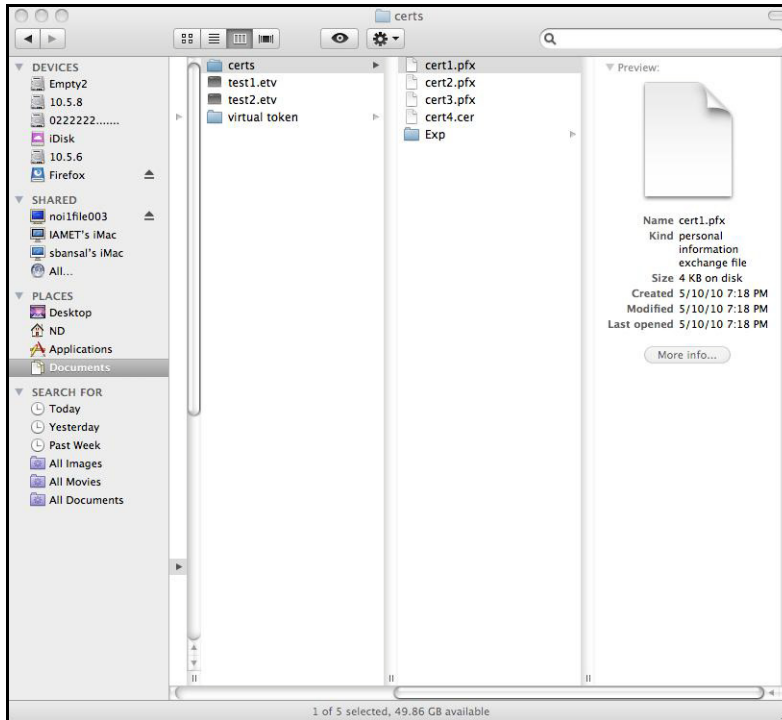
- 5 Select one of the following:
 - ◆ Import a certificate from my personal certificate store
 - ◆ Import a certificate from a file
- 6 If you select **Import a certificate from my personal certificate store**, a list of available certificates is displayed.



Only certificates that can be imported on to the token are listed. These are:

- ◆ Certificates with a private key already on the token
 - ◆ Certificates that may be imported from the computer together with their private key
- 7 If you select **Import a certificate from a file**, the *Certificate Selection* window opens.
 - 8 Select **Import a certificate from a file** and click **Open**.

The *Certificate Selection* window opens.

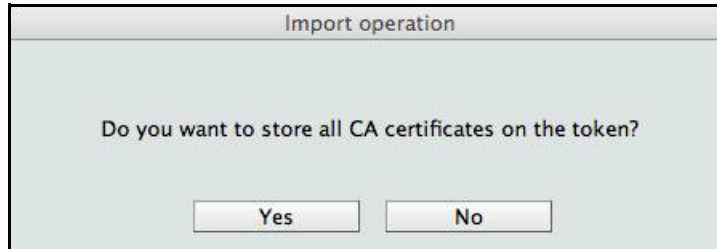


9 Select the certificate file to import and click **Open**.

If the certificate requires a password, the *Password* dialog box opens.

10 Enter the certificate password.

A window opens asking if you want to store the CA certificates on the token.



11 Select **Yes** or **No**.

All requested certificates are imported, and a confirmation message opens.

Exporting a Certificate from a Token

A physical token or SafeNet eToken Virtual exports the certificate only, without its key.

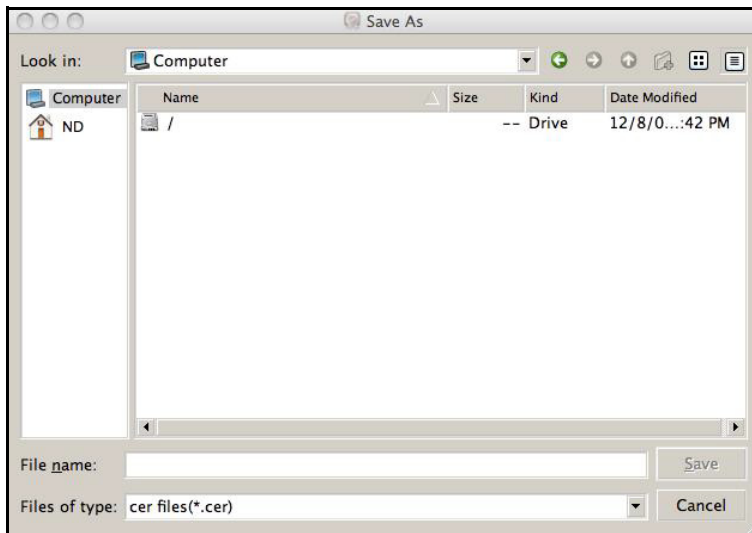
NOTE Mac OS x supports the export of the *.cer format only.

To export a certificate:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 In the left pane of the *Advanced View* window, select the required certificate and click the **Export Certificate** icon.



The *Save As* window opens.



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

NOTE The certificate file must be DER encoded or Base64 (not PKCS #7).

Deleting a Certificate

You can remove a certificate from a token.

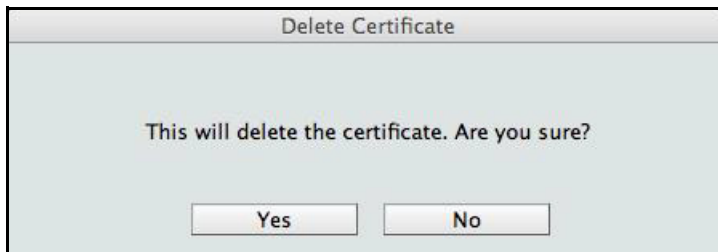
To delete a certificate from a Token:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 Do one of the following:
 - ◆ In the left pane of the Advanced View window, expand the required token, select the required certificate and click the **Delete Certificate** icon.



- ◆ In the left pane of the Advanced View window, expand the required token, right-click the required certificate and select **Delete Certificate** from the shortcut menu.

The *Delete Certificate* window opens.



- 4 Do one of the following:
- ◆ To cancel the deletion click **No**.
 - ◆ To delete the certificate click **Yes**.

Changing the Token Password

All the manufactured token devices are configured with the factory initial password, 1234567890. To ensure strong, two factor security, it is important for the user to change the token password to a private user 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 user cannot use the token.

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, punctuation marks and numbers created 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 the token password:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 In the left pane of the *Tools* window, select the token to which the new password will be assigned.
- 3 Click **Change Password** in the right pane.

TIP You can change the token Password also by clicking on the application tray icon and selecting **Change Token Password**.

The *Change Password* window is displayed.

Change Password: Rupert Jones

SafeNet SafeNet Authentication Client

Current Token Password:

New Token Password:

Confirm Password: 0 %

The Password must comply with the quality settings.

A secure Password has at least 8 characters, and contains up per-case letters, lower-case letters, numerals, and special characters (such as !, \$, #, %).

Enter a Password.

OK Cancel

- 4 Enter the current token password in the *Current Token Password* field.
- 5 Enter the new token password in the *New Token Password* and *Confirm New Token Password* fields.

NOTE As you type a new password, the password quality indicator on the right displays a percentage score of how well the new password matches the password quality policy.

- 6 Click **OK**.
- The token password is changed.

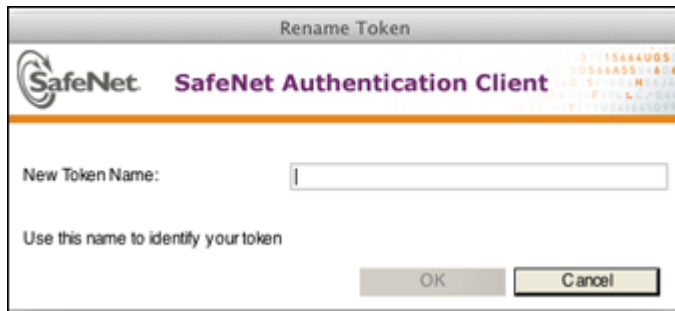
Renaming a Token

You can change the token name.

To rename a token:

- 1 Open **SafeNet Authentication Client Tools**.
- 2 In the left pane of the *Tools* window, select the token to be renamed.
- 3 Click **Rename Token** in the right pane.
- 4 If prompted, enter the token password.

The *Rename Token* window opens.



- 5 Enter the new name in the *New Token Name* field and click **OK**.

The new token name is displayed in the *Tools* window.

Copying Token Information to the Clipboard

To copy and paste token information:

1 Do one of the following:

- ◆ In the *Token Info* window click **Copy**.
- ◆ In *Advanced* view, select the required token in the left pane and click the Copy to Clipboard icon:



2 Place the cursor in the target application and paste the information.

Changing the Administrator Password

Setting an administrator password on the token enables the administrator to unlock a locked token by resetting a new token password if it is forgotten. We recommend initializing all tokens with an administrator password.

Password Quality feature enables the administrator to set certain complexity and usage requirements for the password.

See *Setting Password Quality* on page 96.

NOTE 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, punctuation marks and numbers created 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 the Administrator Password:

- 1 Open *SafeNet Authentication Client Tools* in the advanced view.
- 2 To change the administrator password, do one of the following:
 - ◆ In the left pane of the *Tools* window, select the required token and click the *Change Administrator Password* icon:



The *Change Administrator Password* icon is located at the right of the window, enclosed within a border:



- ◆ In the left pane of the *Tools* window, right-click the required token and select **Change Administrator Password** from the menu.

The *Change Administrator Password* window opens.



Enter the current administrator password in the *Current Password* field.

NOTE If an incorrect password is entered more than a specified number of times, the token will be locked.

- 3 Enter the new administrator password in the *New Password* and *Confirm Password* fields.

4 Click **OK**.

The token's administrator password is changed.

Unlocking a Token

If you enter an incorrect password more than a specified number of times, the token hardware device, SafeNet eToken Virtual or SafeNet eToken Rescue will be locked.

You can unlock the token only if an administrator password was set during initialization.

The unlock feature is available for token hardware devices, and SafeNet eToken Virtual. This feature is not available for SafeNet eToken Rescue.

CAUTION The number of times that SafeNet eToken Virtual can be unlocked can be limited to a specified number. If this number is exceeded, the SafeNet eToken Virtual becomes unusable and must be replaced.

If the administrator has access to the user's computer, the token may be unlocked using the *Set Token Password* feature (see *Unlocking a Token Using Set Token Password* on page 76).

NOTE iKey tokens cannot be unlocked by the Administrator, as no Administrator Password is set for iKey tokens.

When the administrator is located remotely, for example when an employee is out of the office, a Challenge – Response authentication method can be employed to unlock the token (see *Unlocking a Token using Challenge - Response* on page 77). With this method, the user sends the administrator the Challenge Code supplied by Tools, and then enters the Response Code provided by the administrator. The user then enters a new password and the token is unlocked.

Unlocking a Token Using Set Token Password

To unlock a token using Set Token Password:

1 Log on to the token as an administrator (see *Logging On to a Token as an Administrator* on page 58).

2 Do one of the following:

- ◆ Click the **Set Token Password** icon:



- ◆ Right-click the token in the left pane and select **Set Token Password** from the shortcut menu.

The *Set Password* window opens.

3 Enter a new password in the *New Password* and *Confirm Password* fields.

The *Set maximum number of logon failures* displays the maximum login failures set by the administrator during initialization.

4 Click **OK**.

The token is unlocked.

You can now log on as a user with the new password.


Unlocking a Token using Challenge - Response

To unlock a token using Challenge – Response:

- 1 Open SafeNet Authentication Client Tools.
- 2 In the left pane of the Tools window, select the token to be unlocked.
- 3 Click **Unlock Token** in the right pane.
The Unlock Token window is displayed.

Unlock Token: Rupert Jones

 **SafeNet Authentication Client**

Challenge Code: 

Response Code:

Token Password must be changed on first logon

New Token Password:

Confirm Password:

The Password must comply with the quality settings.

A secure Password has at least 8 characters, and contains upper-case letters, lower-case letters, numerals, and special characters (such as !, \$, #, %).

Enter the Response Code provided by your administrator.

4 Contact the administrator and provide the Challenge Code.

NOTE To copy the challenge code to the clipboard, click on the **Copy challenge code to clipboard** icon:



CAUTION After providing the Challenge Code to the administrator, do not undertake any activities that use the token until after receiving the Response Code and completing 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.

The administrator provides the Response Code to be entered.

NOTE The creation of response code depends on the backend application being used by the organization. System administrators should refer to the relevant documentation for details on how to generate the response code.

- 5 Enter a new token password in the *Password* and *Confirm* fields.
- 6 Select **Token Password must change on first logon** if the new password is known to others and must be changed.
- 7 Click **OK**.

The token is unlocked and a confirmation message is displayed.

Deleting Token Content

The *Delete Token Content* function enables you to delete all deletable objects on your token. Object types include data objects (profiles), keys and certificates (CA or user).

Non-deletable objects will not be removed. Non-deletable objects are created when the administrator configures the object attributes.

The *Delete Token Content* function leaves the data structure on your token intact. It is less wide-reaching than the *Initialize* function which restores a token to its initial state, removing all objects stored on the token since manufacture and resets the token password (See Chapter 3 Token Initialization on page 37).

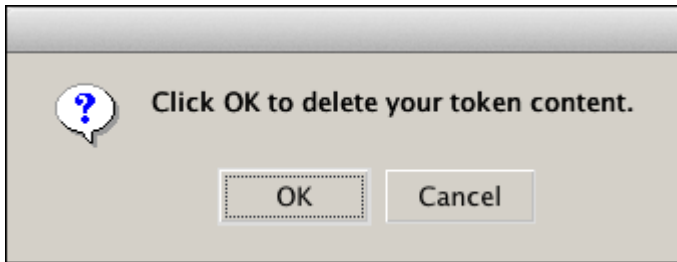
To Delete Token Content:

- 1 Click the application tray icon



- 2 Select **Delete Token Content** from the menu.

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




- 3** To continue with the delete process, click **OK**, else click **Cancel**.
The *Log On* window opens.
- 4** Enter the token password and click **OK**.
The *Delete Token Content* window opens, confirming that the delete process has been successful.
- 5** Click **OK** to finish.

Viewing Token Information

To view token information:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 In the left pane of the Tools window, select the required token.
- 3 Click **View Token Information** in the right pane.
The *Token Information* window opens.

Token Information: Rupert Jones



SafeNet Authentication Client

Name	Rupert Jones
Token category	Hardware
Reader name	AKS IIdh 00 00
Serial number	0x00a3d618
Total memory capacity	73728
Free space	32767
Hardware version	4.29
Firmware version	N/A
Card ID	0029AD7F
Product name	eToken PRO JC
Model	Token JC
Card type	Java Card
OS version	eToken Java Applet 1.0.37
Mask version	N/A
Color	Blue
Supported key size	2048
Token Password	Present
Token Password retries remaining	15
Maximum Token Password retries	15
Token Password expiration	9 days (07/04/2012)

Copy Close

Reader Settings

During SafeNet Authentication Client installation, three virtual smart card and two SafeNet eToken Virtual readers are installed.

The number of available hardware and software readers is configured by your system administrator.

When a token is inserted into a USB port, or SafeNet eToken Virtual is added, the effect is the same as inserting a smart card into one of the readers.

To display the number of readers:

- 1 Open SafeNet Authentication Client Tools.
- 2 Click the *Advanced View* icon.
- 3 Do one of the following:

- ◆ Click the **Reader Settings** icon 
 - ◆ Right-click the *Tokens* node and select **Reader Settings** from the shortcut menu
- The *Managing Readers* window opens.



- 4 The default number of available readers is:
 - ◆ Hardware readers: 3 (The number is determined by the `pcscslots` property value.)
 - ◆ Software readers: 2

NOTE In SafeNet Authentication Client (Mac) the number of available readers is set by your system administrator. They cannot be configured in the *Managing Readers* window.

- 5 Click **OK** to close the window.

5

SafeNet eToken Virtual

SafeNet Authentication Client supports the SafeNet eToken Virtual line of products. This includes SafeNet eToken Virtual and SafeNet eToken Rescue. These are stored as files on your computer or on a mass storage device.

In this chapter:

TIP To obtain SafeNet eToken Rescue or SafeNet eToken Virtual, contact your system administrator.

- Overview of SafeNet eToken Virtual and SafeNet eToken Rescue
- Using SafeNet eToken Virtual/SafeNet eToken Rescue to Replace a Lost Token
- Connecting SafeNet eToken Virtual or SafeNet eToken Rescue
- Disconnecting SafeNet eToken Virtual or SafeNet eToken Rescue
- Unlocking SafeNet eToken Virtual
- Generating a One Time Password (OTP)
- Autoconnecting SafeNet eToken Virtual

Overview of SafeNet eToken Virtual and SafeNet eToken Rescue

SafeNet Authentication Client supports software tokens.

The following types of software tokens are available:

- **SafeNet eToken Rescue:** provides a solution when a staff member loses or damages a token when away from the office. SafeNet eToken Rescue is a read-only token. You cannot import certificates. It operates for a limited period of time.

NOTE SafeNet eToken Rescue 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 eToken Virtual:** performs all the functions of an eToken NG-OTP. It supports OTP generation (if so configured).

In Mac OS, SafeNet eToken Virtual is locked to a particular flash drive. This means that it can be used only on the flash drive where it was enrolled.

Using SafeNet eToken Virtual/SafeNet eToken Rescue to Replace a Lost Token


To use SafeNet eToken Virtual/SafeNet eToken Rescue to replace a lost token, the SafeNet eToken Virtual/SafeNet eToken Rescue must be enrolled using the *SafeNet Authentication Manager*.

For more details, refer to the SafeNet Authentication Manager Client documentation.



Connecting SafeNet eToken Virtual or SafeNet eToken Rescue

To connect SafeNet eToken Virtual or SafeNet eToken Rescue:

- 1 Open SafeNet Authentication Client Tools.
- 2 Click the **Advanced View** icon.
- 3 Select **Tokens** in the left pane.
- 4 Click the **Connect SafeNet eToken Virtual** icon  or right-click **Tokens** and select **Connect SafeNet eToken Virtual** from the shortcut menu.
- 5 Navigate to the SafeNet eToken Virtual file (*.etvp) or SafeNet eToken Rescue file (*.etv) and click it. The SafeNet eToken Virtual/SafeNet eToken Rescue file is added.
- 6 Click **OK**.

Disconnecting SafeNet eToken Virtual or SafeNet eToken Rescue

When the SafeNet eToken Virtual is no longer necessary, disconnect it from its attached reader.

To disconnect SafeNet eToken Virtual or SafeNet eToken Rescue:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 Select the SafeNet eToken Virtual or SafeNet eToken Rescue to be disconnected and do one of the following:
 - ◆ In the left pane, right-click and select **Disconnect**.
 - ◆ In the right pane, click **Disconnect SafeNet eToken Virtual** (or **Disconnect SafeNet eToken Rescue**) icon.
The *Disconnect SafeNet eToken Virtual* message is displayed.
- 4 Do one of the following:
 - ◆ To keep the SafeNet eToken Virtual/SafeNet eToken Rescue file on the computer, click **Disconnect**; only the connection from the SafeNet eToken Virtual to the SafeNet Authentication Client is disconnected.
 - ◆ To remove the SafeNet eToken Virtual/SafeNet eToken Rescue file from the computer, click **Delete**.

NOTE Disconnecting the SafeNet eToken Virtual/SafeNet eToken Rescue is applicable when the user is out of the office and may need to use the SafeNet eToken Virtual/SafeNet eToken Rescue on the road later. When the lost token is replaced, the SafeNet eToken Virtual/SafeNet eToken Rescue should be deleted from the computer. After the SafeNet eToken Virtual/SafeNet eToken Rescue is deleted, it can be recreated only by reinstalling it.

Unlocking SafeNet eToken Virtual

NOTE The unlock function is supported only by SafeNet eToken Virtual (not SafeNet eToken Rescue).

If you enter an incorrect password more than a specified number of times, the SafeNet eToken Virtual will be locked. See *Unlocking a Token using Challenge - Response* on page 77 or *Unlocking a Token Using Set Token Password* on page 76.

CAUTION The number of times that SafeNet eToken Virtual can be unlocked can be limited to a specified number. If this number is exceeded, the SafeNet eToken Virtual becomes unusable.

Generating a One Time Password (OTP)

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

To generate an OTP:

- 1 Click the application tray icon



The SafeNet Authentication Client tray menu opens.

- 2 Select **Generate OTP**.

The *Generate OTP* window opens.

- 3 Click **Generate OTP**.

The *Log on* window opens.

- 4 Enter the token password. The generated OTP is displayed in the *Generate OTP* window.

Autoconnecting SafeNet eToken Virtual

If SafeNet eToken Virtual is locked to a flash drive, and SafeNet eToken Virtual file is located in the eTokenVirtual folder, when the drive is connected, SafeNet Authentication Client automatically recognizes the insertion of the SafeNet eToken Virtual. Also, when the device is removed, SafeNet Authentication Client recognizes the removal of the SafeNet eToken Virtual.

NOTE If the SafeNet eToken Virtual is located on the mass storage device in a location other than the eTokenVirtual folder, you will need to connect the eToken manually in Tools. If the mass storage device is removed, without the SafeNet eToken Virtual being disconnected in Tools, the SafeNet eToken Virtual will be displayed as an eToken with corrupted data (See *Authenticator Icons* on page 21).

TIP Before removing the flash drive from a Mac computer, we recommend using the Mac OS Eject procedure (Right-click on the authenticator icon on the Mac desktop and select **Eject**).

6

Token Settings

Configurations set in token settings determine behavior that applies to the specific token.

In this chapter:

- Setting Password Quality
- Setting Private Data Caching
- Setting RSA Key Secondary Authentication

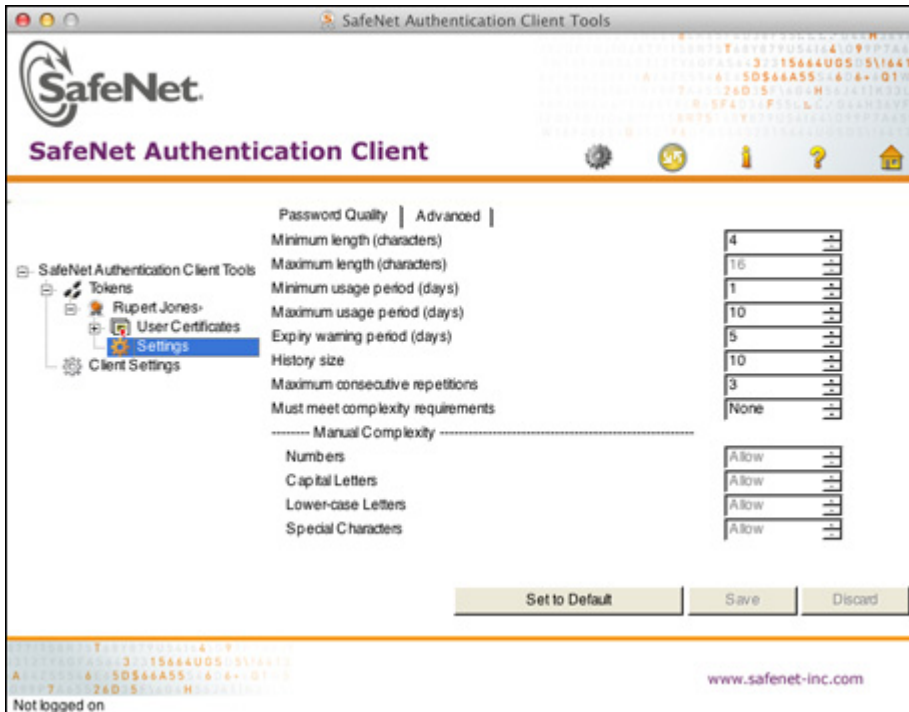
Setting Password Quality

Once password quality parameters are set, any future passwords are automatically checked against these parameters to determine the password's level of acceptability.

If the token was initialized in early PKI Client versions (RTE), no password policy is stored on the token.

To set password quality:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 In the left pane of the *Advanced View* window, expand the required token and select **Settings**.
- 4 In the right pane select the **Password Quality** tab.



5 Enter the password quality parameters as follows:

Password Quality Parameter	Description
Minimum password length (characters)	Default: 6 characters
Maximum password usage period (days)	The maximum period before which the password must be changed. Default: 0 (none)
Minimum password usage period (days)	The minimum period before the password can be changed Default: 0 (none)
Password expiration warning period (days)	Defines the number of days before the password expires that a warning message is shown. Default: 0 (none)
Password history size	Defines how many previous passwords should not be repeated. Default: 10
Maximum character repetitions in a password	Defines number of times a character can be repeated in the password. Default: 3

Password Quality Parameter	Description (Cont.)
The password must comply with the complexity rules	<p>Determines if the complexity requirements are required in the token password.</p> <ul style="list-style-type: none"> ◆ At least 3 rules: Complexity requirements are enforced ◆ None: Complexity requirements are not enforced ◆ Manual: Complexity requirements, as set manually in the Manual Complexity settings, are enforced (Default)
Manual Complexity Rules	<p>For each of the character types (Numerals, Upper-case letters, Lower-case letters and Special Characters) select one of the following options:</p> <ul style="list-style-type: none"> ◆ 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.

6 Do one of the following:

- ◆ To save your changes click **Save**.
- ◆ To ignore your changes click **Discard**.
- ◆ To return to default settings click **Set to Default**.

Setting Private Data Caching

In SafeNet Authentication Client, public information stored on the token is cached to enhance performance. This option defines when private information (excluding private keys on the physical token) can be cached outside the token.

To set private data caching:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 In the left pane of the *Advanced View* window, expand the required token and select **Settings**.
- 4 In the right pane select the **Advanced** tab.
- 5 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.

Option (Cont.)	Description (Cont.)
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 out, all the private data in the cache is erased.
Never	Does not cache private data.

6 Do one of the following:

- ◆ To save your changes click **Save**.
- ◆ To ignore your changes click **Discard**.

Setting RSA Key Secondary Authentication

An authentication password may be set for an RSA key. If this option is used, then in addition to having the token and knowing the token's password, accessing the RSA key requires knowing the password set for that particular key.

This option defines the policy for using this secondary authentication of RSA keys.

To set RSA key secondary authentication:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 In the left pane of the **Advanced View** window, expand the required token and select **Settings**.
- 4 In the right pane select the **Advanced** tab.
- 5 In the *RSA key secondary authentication* field, select one of the following options:

Option	Description
Always	Every time an RSA key is generated, you are prompted to enter a secondary password for accessing this key. Clicking OK generates the key and uses the entered password as the secondary RSA password for that key. Clicking Cancel causes key generation to fail.

Option (Cont.)	Description (Cont.)
Always prompt user	Every time an RSA key is generated, a secondary password for accessing this key is requested. However, the user can choose to dismiss the prompt (by clicking Cancel), and key generation will continue without using a secondary password for the generated RSA key.
Prompt on application request	This enables applications that use secondary authentication for RSA keys to make use of this feature on the token (when creating the key in Crypto API with a user protected flag).
Never	Secondary passwords are not created for any RSA key and the authentication method uses only the token password to access the key.

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

7

SafeNet Authentication Client Settings

The SafeNet Authentication Client Settings set the parameters that apply to all tokens that are initialized after the settings have been configured.

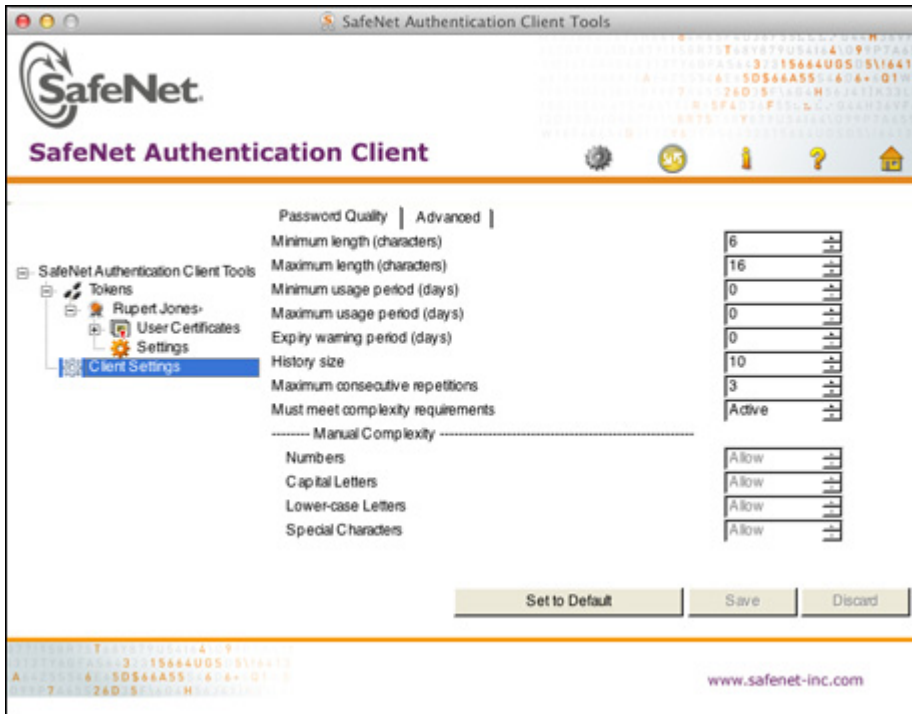
In this chapter:

- Opening SafeNet Authentication Client Settings
- Client Settings Password Quality
- Copying User Certificates to a Local Store
- Copying CA Certificates to a Local Store
- Enabling Single Logon
- Allowing password quality configuration on token after initialization
- Allowing only an administrator to configure password quality on token
- Showing SafeNet Authentication Client Tray Icon
- Defining Automatic Logoff
- Enabling Logging

Opening SafeNet Authentication Client Settings

To open SafeNet Authentication Client Settings:

- 1 Open *SafeNet Authentication Client Tools*.
- 2 Click the **Advanced View** icon.
- 3 In the left pane of the *Advanced View* window, select **Client Settings**.



Client Settings Password Quality

To set the Client Settings Password Quality:

- 1 Open **SafeNet Authentication Client Tools**.
- 2 Select **Client Settings** in Advance View (See "Opening SafeNet Authentication Client Settings" on page 106 on page 106).
- 3 Select the **Password Quality** tab.
- 4 Change the password quality settings.

TIP The SafeNet Authentication Client Settings password quality is configured in the same way as the token password quality settings. See *Setting Password Quality* on page 96)

- 5 Do one of the following:
 - ◆ To save your changes click **Save**.
 - ◆ To ignore your changes click **Discard**.
 - ◆ To return to default settings click **Set to Default**.

Copying User Certificates to a Local Store

SafeNet Authentication Client operations often require certificates, private keys, and public keys.

Private keys should always be stored securely on the token. Certificates should also be stored on the token as this enables mobility, ensuring that the certificate will be readily available when using the token on a different computer.

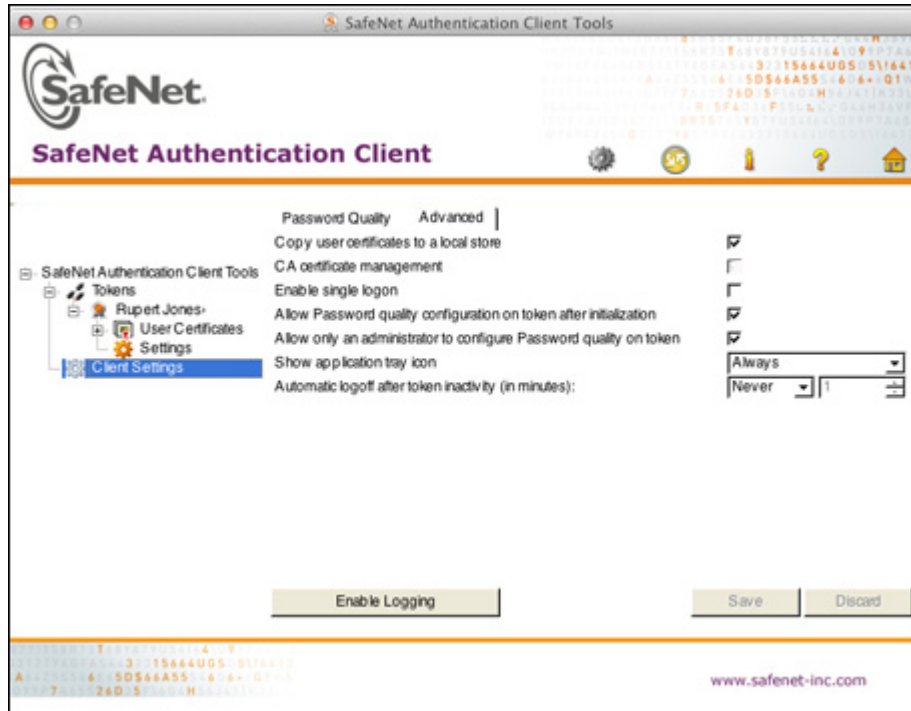
Use SafeNet Authentication Client settings to control the action of automatically copying all user certificates to the certificate store upon token connection.

This option is selected by default.

To copy user certificates to a local store:

- 1 Open SafeNet Authentication Client Tools *Advanced View*.
See "Opening the Advanced View" on page 21.
- 2 In the left pane, select **Client Settings**.
- 3 In the right pane, select the **Advanced** tab.

The *Advanced* tab opens.



4 Select **Copy user certificates to a local store**.

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

Copying CA Certificates to a Local Store

CA certificates can be downloaded onto a token. When the token is inserted into the computer, one or more of these CA certificates may not be on the computer. In such a case, the CA certificate may be loaded onto the computer.

This option is selected by default.

To open CA certificate management:

- 1 Open **SafeNet Authentication Client Tools**.
- 2 Select **Client Settings** in Advance View (See See "Opening SafeNet Authentication Client Settings" on page 106on page 106).
- 3 Select the **Advanced** tab.



- 4 Select **Copy CA certificates to a local store**.
- 5 Do one of the following:
 - ◆ To save your changes click **Save**.

- ◆ To ignore your changes click **Discard**.

Enabling Single Logon

When single logon is enabled, users can access multiple applications with only one request for the Token Password during each computer session. This alleviates the need for the user to log on to each application separately.

NOTE

Setting the single logon using SAC Tools will not include a Windows Logon on the single logon process. This must be configured by the system administrator.

This option is disabled by default.

To enable single logon:

- 1 Open SafeNet Authentication Client Tools *Advanced View*.
See "Opening the Advanced View" on page 21.
- 2 In the left pane, select **Client Settings**.
- 3 In the right pane, select the **Advanced** tab.
- 4 Select **Enable Single Logon**.
- 5 Do one of the following:
 - ◆ To save your changes, click **Save**.
 - ◆ To ignore your changes click, **Discard**.

To activate the single logon feature, log off from the computer and log on again.

Allowing password quality configuration on token after initialization

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

This option is selected by default.

To allow password quality configuration on token after initialization:

- 1 Open **SafeNet Authentication Client Tools**.
- 2 Select **Client Settings** in Advance View (See "Opening SafeNet Authentication Client Settings" on page 106).
- 3 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

The *Allow only an administrator to configure password quality on token* option defines whether the password quality parameters may be changed after initialization by the administrator, or, if unchecked, by the user. This option is selected by default.

To allow only an administrator to configure password quality on token:

- 1 Open **SafeNet Authentication Client Tools**.
- 2 Select **Client Settings** in Advance View (See *Opening SafeNet Authentication Client Settings* See "Opening SafeNet Authentication Client Settings" on page 106).
- 3 Select the **Advanced** tab.
- 4 Do one of the following:
 - ◆ To enable configuration by administrator, check *Allow only an administrator to configure password quality on token*.
 - ◆ To enable configuration by user, uncheck *Allow only an administrator to configure password quality on token*.
- 5 Do one of the following:
 - ◆ To save your changes click **Save**.
 - ◆ To ignore your changes click **Discard**.

Showing 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:

- 1 Open SafeNet Authentication Client Tools *Advanced View*. See "Opening the Advanced View" on page 21.
- 2 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**.

Defining Automatic Logoff

You can determine whether tokens are automatically logged off following a period of token inactivity, even if the tokens are not disconnected.

After a token is logged off, the user must enter the Token Password again before the token contents can be accessed.

To define the automatic logoff setting:

- 1 Open SafeNet Authentication Client Tools *Advanced View*. See "Opening the Advanced View" on page 21.
- 2 In the left pane, select **Client Settings**.
- 3 In the right pane, select the **Advanced** tab.
- 4 In the *Automatic logoff after token inactivity* drop-down list, select one of the following:
 - ◆ **Never:** The Token Password must be entered once, and the token remains logged on as long as it remains connected.
 - ◆ **Always:** The Token Password must be entered each time the token contents are accessed.
 - ◆ **After:** The Token Password must be entered if the number of minutes set in the text box has passed since the last token activity.
Set the number of minutes in the text box (1 - 254).

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

Enabling Logging

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

NOTE You must have administrator privileges to use the logging feature.

To activate the logging feature:

- 1 Open SafeNet Authentication Client Tools *Advanced View*.
See "Opening the Advanced View" on page 21.
- 2 In the left pane, select **Client Settings**.
- 3 In the right pane, select the **Advanced** tab, and click **Enable Logging**.

To disable the logging feature:

- 1 Open SafeNet Authentication Client Tools *Advanced View*.
See "Opening the Advanced View" on page 21.
- 2 In the left pane, select **Client Settings**.
- 3 In the right pane, select the **Advanced** tab, and click **Disable Logging**.

8

Licensing

Import a SafeNet license for your SafeNet Authentication Client installation.

In this chapter:

- Viewing and Importing Licenses

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:

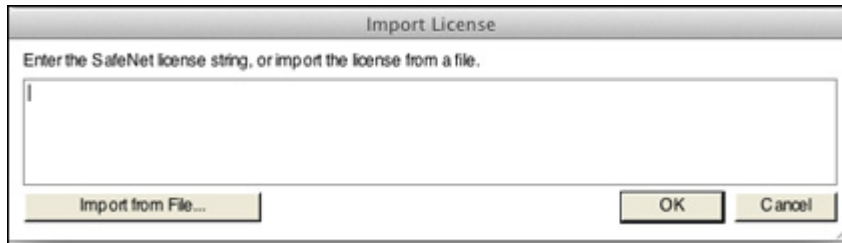
- ◆ Right-click the SafeNet Authentication Client tray icon, and from the shortcut menu, select **About**.
- ◆ Open SafeNet Authentication Client Tools.
See Simple View on page 19 or See Advanced View on page 24.
On the toolbar, click the **About** icon.



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.