

# SafeNet Authentication Client

**Version 8.3 Build 73**

**User's Guide**



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## Additional Documentation

The following SafeNet publications are available:

- SafeNet Authentication Client 8.3 Build 73 Administrator's Guide
- SafeNet Authentication Client 8.3 Build 73 Customer Release Notes

# Table of Contents

Chapter 1: Introduction . . . . .	10
Overview. . . . .	11
SafeNet Authentication Client Main Features. . . . .	12
What's New . . . . .	13
Supported Browsers . . . . .	14
Supported Platforms. . . . .	15
Supported Tokens . . . . .	17
Supported Localizations . . . . .	18
Chapter 2: SafeNet Authentication Client User Interfaces. . . . .	20
Overview of SafeNet Authentication Client User Interfaces. . . . .	21
SafeNet Authentication Client Tray Menu . . . . .	22
Opening SafeNet Authentication Client . . . . .	22
SAC Tray Menu Functions . . . . .	23
Opening the SAC Tray Menu . . . . .	25
Selecting the Token from the SAC Tray Menu. . . . .	25
Closing SafeNet Authentication Client. . . . .	26
SafeNet Authentication Client Tools . . . . .	28
SafeNet Authentication Client Tools Toolbar . . . . .	29
Opening the Simple View. . . . .	30

Token Icons . . . . .	32
Simple View Functions . . . . .	34
Opening the Advanced View . . . . .	35
Advanced View Functions . . . . .	37
Tokens Node . . . . .	38
Selected Token Node . . . . .	39
Certificate Type Node . . . . .	42
Selected Certificate Node . . . . .	45
Settings Node . . . . .	47
Data Objects Node . . . . .	49
Orphan Objects Node . . . . .	52
Client Settings Node . . . . .	54
Using the Virtual Keyboard . . . . .	54

## Chapter 3: Token Management . . . . . 56

Selecting the Active Token . . . . .	58
Viewing and Copying Token Information . . . . .	59
Logging On to the Token as a User . . . . .	62
Renaming a Token . . . . .	64
Changing the Token Password . . . . .	67
Unlocking a Token by the Challenge-Response Method . . . . .	71
Unlocking an iKey Token Initialized Using BSec Utilities . . . . .	76
Deleting Token Content . . . . .	80
Importing a Certificate to a Token . . . . .	83

Exporting a Certificate from a Token . . . . .	89
Viewing Supported Cryptographic Providers . . . . .	91
Setting a Certificate as KSP or CSP. . . . .	93
Setting a Certificate as Default or Auxiliary . . . . .	96
Clearing a Default Certificate. . . . .	99
Deleting a Certificate . . . . .	101
Logging On to the Token as an Administrator . . . . .	103
Changing the Administrator Password . . . . .	105
Unlocking a Token by an Administrator . . . . .	108
Synchronizing Passwords . . . . .	112
Working with IdenTrust . . . . .	114
Using the Identity PIN (Legacy) . . . . .	114
Changing the Identity PIN . . . . .	114
Unblocking the Identity PIN . . . . .	115
Reader Settings . . . . .	117
 Chapter 4: Token Initialization . . . . .	 120
Overview of Token Initialization. . . . .	121
Configuring Initialization Settings. . . . .	122
Configuring Advanced Initialization Settings . . . . .	126
Setting the RSA Key Secondary Authentication Field. . . . .	130
Changing the Token Initialization Key. . . . .	133

Configuring Common Criteria Settings . . . . .	136
<b>Chapter 5: SafeNet eToken Virtual. . . . .</b>	<b>139</b>
Overview of SafeNet eToken Virtual Products . . . . .	141
Connecting a SafeNet eToken Virtual . . . . .	142
Disconnecting or Deleting a SafeNet eToken Virtual Product. . . . .	144
Using a SafeNet eToken Virtual to Replace a Lost Token . . . . .	147
Unlocking a SafeNet eToken Virtual . . . . .	148
Generating a One-Time Password (OTP) . . . . .	149
Using a SafeNet eToken Virtual on an External Storage Device. . . . .	152
Using an Emulated SafeNet eToken Virtual . . . . .	153
<b>Chapter 6: SafeNet eToken 7300. . . . .</b>	<b>154</b>
Introduction to SafeNet eToken 7300. . . . .	155
SafeNet eToken 7300 Launcher. . . . .	156
Running the Launcher to Open the Tray Icon on Windows . . . . .	156
Running the Launcher to Open the Tray Icon on Mac. . . . .	160
SafeNet eToken 7300 Tray Menu. . . . .	162
SafeNet eToken 7300 Tray Menu Functions. . . . .	162
Using the SafeNet eToken 7300 Tray Icon . . . . .	163
Selecting the Token from the SafeNet eToken 7300 Tray Menu . . . . .	164
Closing SafeNet eToken 7300 . . . . .	165

SafeNet eToken 7300 User Storage . . . . .	167
Accessing an Unprotected Flash Partition on Windows . . . . .	167
Accessing a Protected Flash Partition on Windows . . . . .	171
Accessing an Unprotected Flash Partition on Mac. . . . .	174
Accessing a Protected Flash Partition on Mac. . . . .	175
Partitioning the SafeNet eToken 7300 . . . . .	178
 Chapter 7: Client Settings . . . . .	 185
Setting Password Quality . . . . .	186
Copying User Certificates to a Local Store. . . . .	189
Copying CA Certificates to a Local Store . . . . .	192
Enabling Single Logon . . . . .	194
Allowing Password Quality Configuration on Token after Initialization . . . . .	196
Allowing Only an Administrator to Configure Password Quality on Token . . . . .	197
Showing the SafeNet Authentication Client Tray Icon. . . . .	199
Defining Automatic Logoff. . . . .	200
Enabling Logging . . . . .	202
 Chapter 8: Token Settings . . . . .	 204
Setting Token Password Quality. . . . .	205
Setting Private Data Caching Mode . . . . .	210
Setting RSA Key Secondary Authentication . . . . .	213

Chapter 9: Licensing . . . . . 215

Viewing and Importing Licenses . . . . . 216

# 1

# Introduction

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

## In this chapter:

- Overview
- SafeNet Authentication Client Main Features
- What's New
- Supported Browsers
- Supported Platforms
- Supported Tokens
- Supported Localizations

# 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 provides easy-to-use configuration tools for users and administrators.

# SafeNet Authentication Client Main Features

SafeNet Authentication Client incorporates features that were supported by previous releases of eToken PKI Client and SafeNet Borderless Security (BSec). It provides a unified middleware client for a variety of SafeNet smartcards, SafeNet iKey tokens, and SafeNet eToken devices.

SafeNet Authentication Client offers full backward compatibility so that customers who have been using eToken PKI Client or SafeNet Borderless Security Client (BSec) can continue to use deployed eToken and iKey devices.

# What's New

SafeNet Authentication Client 8.3 offers the following new features:

- Windows 8.1 support
- Each SafeNet eToken 7300 (HID and non-HID) device initialized using SafeNet Authentication Client 8.3 can be used on both Windows and MAC computers even where SafeNet Authentication Client is not installed
- Each SafeNet eToken 5200/5205 HID device can be used on both Windows and MAC computers even where SafeNet Authentication Client is not installed
- New common SafeNet Authentication Client tray icons and tray menu user interface for both eTokens and iKey tokens
- eToken 7300 CD-ROM update (supported via SDK)

# Supported Browsers

SafeNet Authentication Client 8.3 supports the following browsers:

- Firefox 5 and later
- Internet Explorer 7, 8, 9, 10, 11, Metro
- Chrome version 14 and later, for authentication only (Does not support enrollment)

# Supported Platforms

SafeNet Authentication Client 8.3 supports the following operating systems:

- Windows XP SP3 (32-bit, 64-bit)
- Windows Server 2003 SP3 (32-bit, 64-bit)
- Windows Server 2003 R2 (32-bit, 64-bit)
- Windows Vista SP2 (32-bit, 64-bit)
- Windows Server 2008 SP2 (32-bit)
- Windows Server 2008 R2 SP1 (64-bit)
- Windows Server 2012 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Windows 7 SP1(32-bit, 64-bit)
- Windows 8 (32-bit, 64-bit)
- Windows 8.1 (32-bit, 64-bit)

## NOTE

- ◆ To use a KSP cryptographic provider, Windows Vista or higher is required.
- ◆ In Windows 8.1 environments, SafeNet eToken 7300 devices earlier than version 9.0.35 can be used only when SafeNet Authentication Client is installed.

The following Mac operating systems support SafeNet eToken 7300 devices initialized using SafeNet Authentication Client 8.3, and SafeNet eToken 5200/5205 HID devices:

- Mac OS X 10.9.1 (Mavericks)
- Mac OS X 10.8 (Mountain Lion)
- Mac OS X 10.7.3 and 10.7.4 (Lion)

# Supported Tokens

SafeNet Authentication Client 8.3 supports the following tokens:

- SafeNet eToken PRO
- SafeNet eToken PRO Anywhere
- SafeNet eToken PRO Smartcard
- SafeNet eToken 7300 (standard and HID)
- SafeNet eToken 5100/5105
- SafeNet eToken 5200/5205
- SafeNet eToken 5200/5205 HID
- SafeNet eToken 4100
- SafeNet eToken 7000 (SafeNet eToken NG-OTP)
- SafeNet eToken 7100 (SafeNet eToken NG-Flash)
- SafeNet eToken NG-Flash Anywhere
- SafeNet eToken Virtual Family
- SafeNet iKey: 2032, 2032u, 2032i
- SafeNet Smartcard: SC330, SC330u, SC330i
- SafeNet Smartcard SC400
- SafeNet iKey 4000

# Supported Localizations

## NOTE

Localizations are not supported in the BSec Utility applications.

SafeNet Authentication Client 8.3 supports the following languages:

- Chinese (Simplified)
- Chinese (Traditional)
- Czech
- English
- French (Canadian)
- French (European)
- German
- Hungarian
- Italian
- Japanese
- Korean
- Lithuanian
- Polish
- Portuguese (Brazilian)

- Romanian
- Russian
- Spanish
- Thai
- Vietnamese

# 2

# SafeNet Authentication Client User Interfaces

This section describes the SafeNet Authentication Client 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 installations, the word **Password** is replaced by **PIN** or **Passcode**.

## In this chapter:

- Overview of SafeNet Authentication Client User Interfaces
- SafeNet Authentication Client Tray Menu
- SafeNet Authentication Client Tools

# Overview of SafeNet Authentication Client User Interfaces

SafeNet Authentication Client provides two user interfaces:

- SafeNet Authentication Client Tray Menu
  - ◆ for quick access to many of the functions in the application

## NOTE

The SafeNet Authentication Client tray icon and tray menu used for eTokens are now used for iKey tokens also.

- 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 profiles




# SafeNet Authentication Client Tray Menu

The SafeNet Authentication Client tray icon offers a shortcut menu to many of the application's functions.

## NOTE

The SafeNet Authentication Client tray icon and tray menu used for eTokens are now used for iKey tokens also.

The SafeNet Authentication Client tray icon is displayed in the Windows taskbar as follows:

No Tokens Connected	One Token Connected	Multiple Tokens Connected
		

## Opening SafeNet Authentication Client

The SafeNet Authentication Client tray icon is displayed only when SafeNet Authentication Client is open.

## NOTE

If SafeNet Authentication Client is open and the tray icon is not displayed in the Windows taskbar, see Chapter 7: *Showing the SafeNet Authentication Client Tray Icon* on page 199.

## To open SafeNet Authentication Client:

- From the Windows taskbar, select **Start > Programs > 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 3: *Changing the Token Password* on page 67.
- **Unlock Token:** opens the *Unlock Token* window for the selected token. See Chapter 3: *Unlocking a Token by the Challenge-Response Method* on page 71.
- **Certificate Information:** opens the *Token Certificate Information* window for the selected token.
- **Log On to Flash/Log Off from Flash:** displayed when a SafeNet eToken 7300 having a password-protected flash partition is connected. Opens the *Log On to Token* window for the selected token. See Chapter 3: *Logging On to the Token as a User* on page 62.
- **Exit:** closes SafeNet Authentication Client and the tray icon.

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

- **Open eToken SSO:** launches the *eToken Single Sign-On* application. This function is available only if *eToken SSO* is installed.
- **SAM Agent:** launches the *SAM Desktop Agent* application. For more information, see the SafeNet Authentication Manager User's Guide.
- **Delete Token Content:** removes the deletable data from the selected token.
- **Generate OTP:** generates an OTP on the selected *SafeNet eToken Virtual* token. This function is available only if the selected SafeNet eToken Virtual is configured to support this function.
- **Synchronize Password:** Synchronizes your Token Password with your domain password. Use this feature only when requested by your administrator.

#### NOTE

For users of the BSec Utility application:

"Enroll" is no longer an option in the tray menu.

Use the BSec Utilities link in the *Start* menu to access the "Enroll" option:

Start > Programs > SafeNet > SafeNet Authentication Client > BSec > SafeNet Token Manager Utility

# Opening the SAC Tray Menu

**To access the shortcut menu from the SafeNet Authentication Client tray icon:**

- Right-click the SafeNet Authentication Client tray icon.

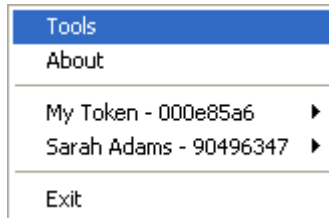
## Selecting the Token from the SAC Tray Menu

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

**To select from multiple tokens in the tray menu:**

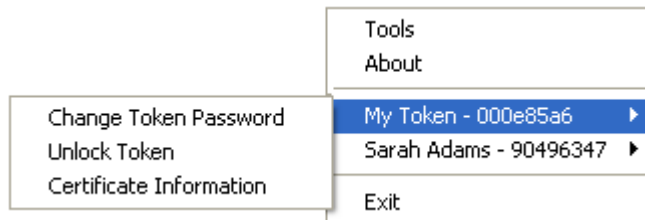
- 1 Right-click the SafeNet Authentication Client tray icon.

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.

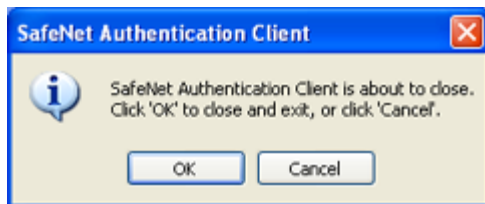


- 3 Select the required option.

## Closing SafeNet Authentication Client

### To close SafeNet Authentication Client:

- 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

Administrators use SafeNet Authentication Client Tools to set token policies. 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 and administrators with a quick and easy way to transfer keys from a computer to a token, and to transfer digital certificates between a computer and a token.

SafeNet Authentication Client Tools allows administrators to initialize tokens according to specific organizational requirements or security modes. It includes a password quality feature that sets parameters to calculate a Token Password quality rating.

## CAUTION

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

SafeNet Authentication Client Tools includes two viewing options:





- **Simple view:** to perform common tasks  
See *Opening the Simple View* on page 30.
- **Advanced view:** for extensive control over SafeNet Authentication Client and your connected tokens  
See *Opening the Advanced View* on page 35.



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
	<b>Advanced View</b> – switches from the <i>Simple</i> to the <i>Advanced</i> view
	<b>Simple View</b> – switches from the <i>Advanced</i> to the <i>Simple</i> view
	<b>Refresh</b> – refreshes the data for all connected tokens
	<b>About</b> – displays product version information and license information, and enables license import

Icon (Cont.)	Action (Cont.)
	<b>Help</b> – opens the <i>Help</i> feature
	<b>Home</b> – opens the company website

## Opening the Simple View

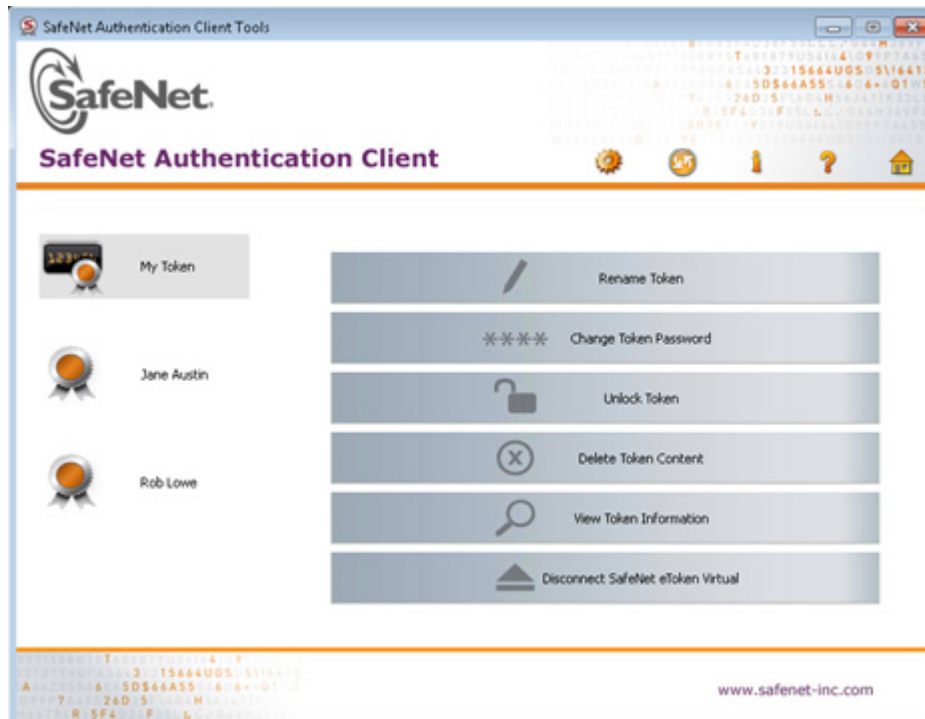
When SafeNet Authentication Client Tools is opened, the *Simple* view is displayed.

### 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 Windows taskbar, select **Start > Programs > 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
	<ul style="list-style-type: none"><li>◆ SafeNet eToken 7100 (SafeNet eToken NG-Flash)</li><li>◆ SafeNet eToken 7200 (SafeNet eToken NG-Flash Anywhere)</li><li>◆ SafeNet eToken 7300</li><li>◆ SafeNet eToken 5100/5105 (SafeNet eToken PRO)</li><li>◆ SafeNet eToken 5200/5205 HID</li><li>◆ SafeNet iKey: 2032, 2032u, 2032i</li><li>◆ SafeNet iKey 4000</li></ul>
	<ul style="list-style-type: none"><li>◆ SafeNet eToken 5200/5205 (SafeNet eToken PRO Anywhere)</li></ul>
	<ul style="list-style-type: none"><li>◆ SafeNet eToken 7000 (SafeNet eToken NG-OTP)</li><li>◆ SafeNet eToken Virtual</li></ul>
	<ul style="list-style-type: none"><li>◆ SafeNet eToken Virtual Temp</li></ul>

Icon (Cont.)	Token Type (Cont.)
	<ul style="list-style-type: none"> <li>◆ SafeNet eToken Rescue</li> </ul>
	<ul style="list-style-type: none"> <li>◆ Smartcard reader – no card connected</li> </ul>
	<p>Smartcard reader – card connected:</p> <ul style="list-style-type: none"> <li>◆ SafeNet eToken 4100 (SafeNet eToken PRO Smartcard)</li> <li>◆ SafeNet SC330</li> <li>◆ SafeNet SC400</li> </ul>
	<ul style="list-style-type: none"> <li>◆ Token with corrupted data</li> </ul>
	<ul style="list-style-type: none"> <li>◆ Unknown token</li> </ul>

## 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
Unlock Token	Unlocks 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 eToken Virtual	Disconnects the SafeNet eToken Virtual or SafeNet eToken Rescue, 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 Windows taskbar, select **Start > Programs > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client Tools**.

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.



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

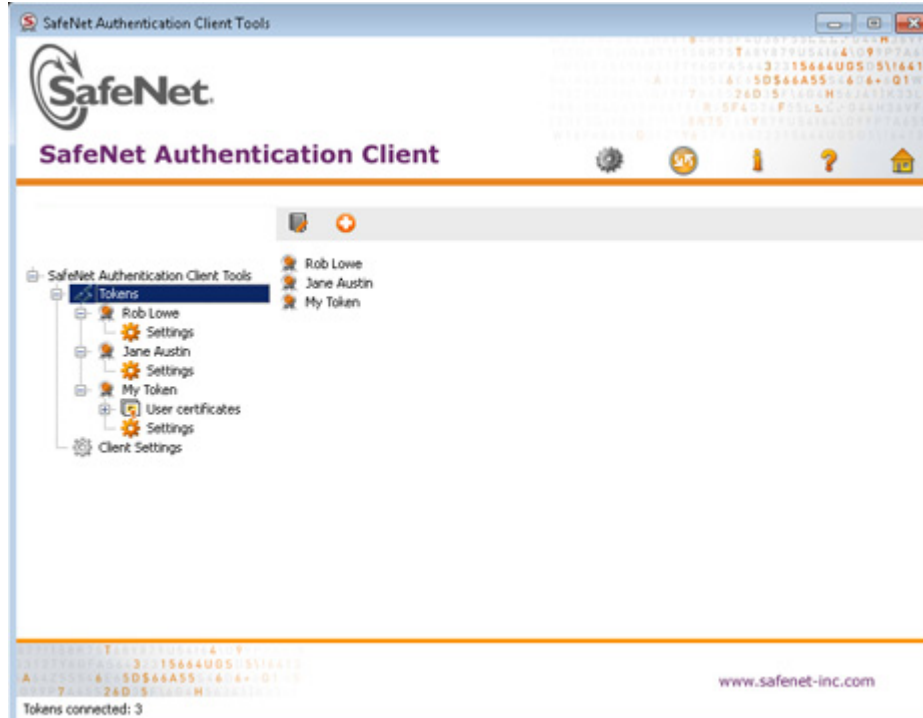
## Advanced View Functions

### To access the Advanced functions:



- 1 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 tokens is displayed in the right pane, and icons are displayed above them.



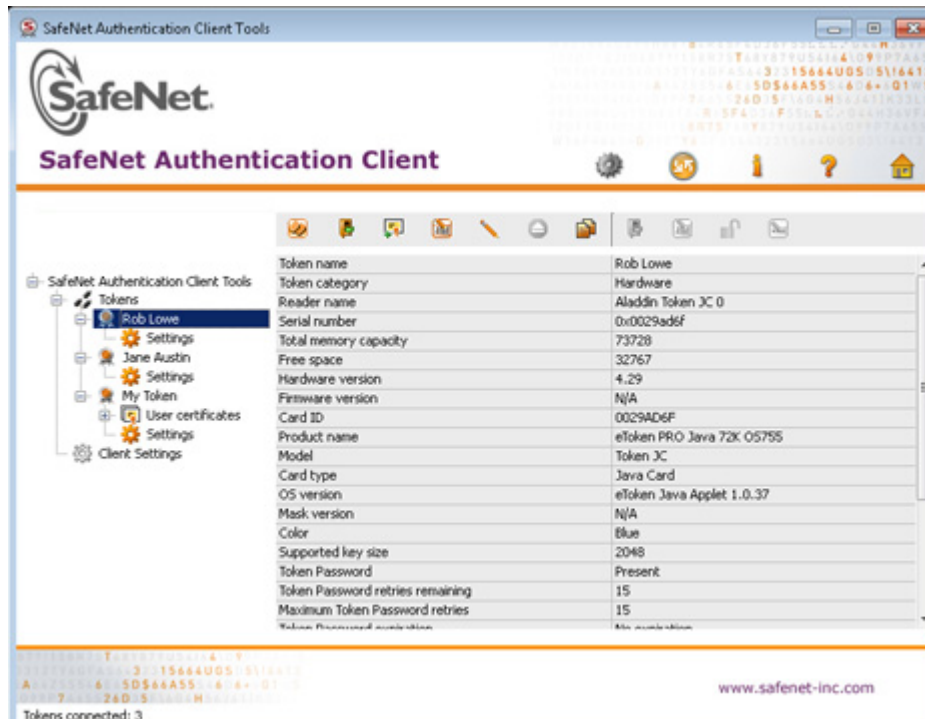
The following functions are available:

Function	Icon	Right-Click Menu Item
Reader Settings See Chapter 3: <i>Reader Settings</i> on page 117.		Reader Settings
Connect SafeNet eToken Virtual See Chapter 5: <i>Connecting a SafeNet eToken Virtual</i> on page 142.		Connect SafeNet eToken Virtual

## 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 tooltip



Right-click a token name to open a dropdown 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 4: <i>Token Initialization</i> on page 120.		Initialize Token
Log On to Token See Chapter 3: <i>Logging On to the Token as a User</i> on page 62.		Log On to Token
Import Certificate See Chapter 3: <i>Importing a Certificate to a Token</i> on page 83.		Import Certificate
Change Password See Chapter 3: <i>Changing the Token Password</i> on page 67.		Change Password
Rename Token See Chapter 3: <i>Renaming a Token</i> on page 64.		Rename
Disconnect SafeNet eToken Virtual (Enabled for SafeNet eToken Virtual or SafeNet eToken Rescue only) See Chapter 5: <i>Disconnecting or Deleting a SafeNet eToken Virtual Product</i> on page 144.		Disconnect
Copy to Clipboard See Chapter 3: <i>Viewing and Copying Token Information</i> on page 59.		(None)

#### 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 3: *Logging On to the Token as an Administrator* on page 103.

#### NOTE

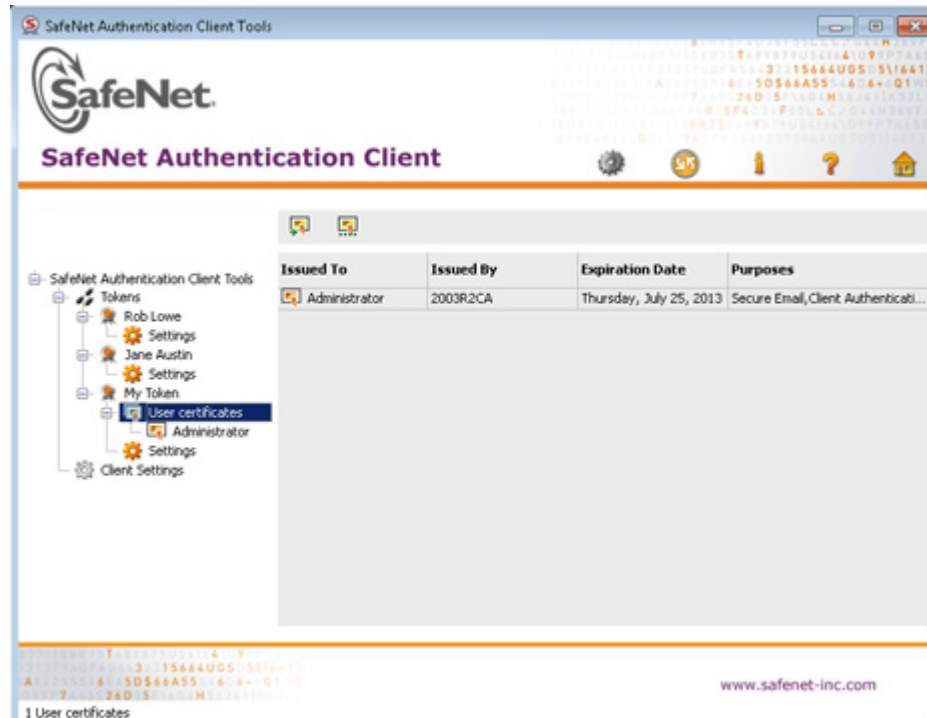
Administrator functions are not supported by iKey devices.

## Certificate Type Node



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

- User certificates
- CA certificates
- CC certificates

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	Icon	Right-Click Menu Item
Import Certificate See Chapter 3: <i>Importing a Certificate to a Token</i> on page 83.		Import Certificate
Reset Default Certificate Selection See Chapter 3: <i>Clearing a Default Certificate</i> on page 99.		Reset Default Certificate Selection

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

## 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.






The screenshot shows the 'SafeNet Authentication Client Tools' window. The left pane has a tree view with 'User certificates' selected, showing a sub-entry for 'Administrator'. The right pane displays the following data:

Certificate Data	
Serial number	61 10 af ca 00 00 00 00 7c
Issued to	Administrator
Issued by	2003R2CA
Valid from	Wednesday, July 25, 2012
Valid to	Thursday, July 25, 2013
Intended purposes	Secure Email, Client Authentication, Smartcard Logon
Friendly name	<None>
State	Valid

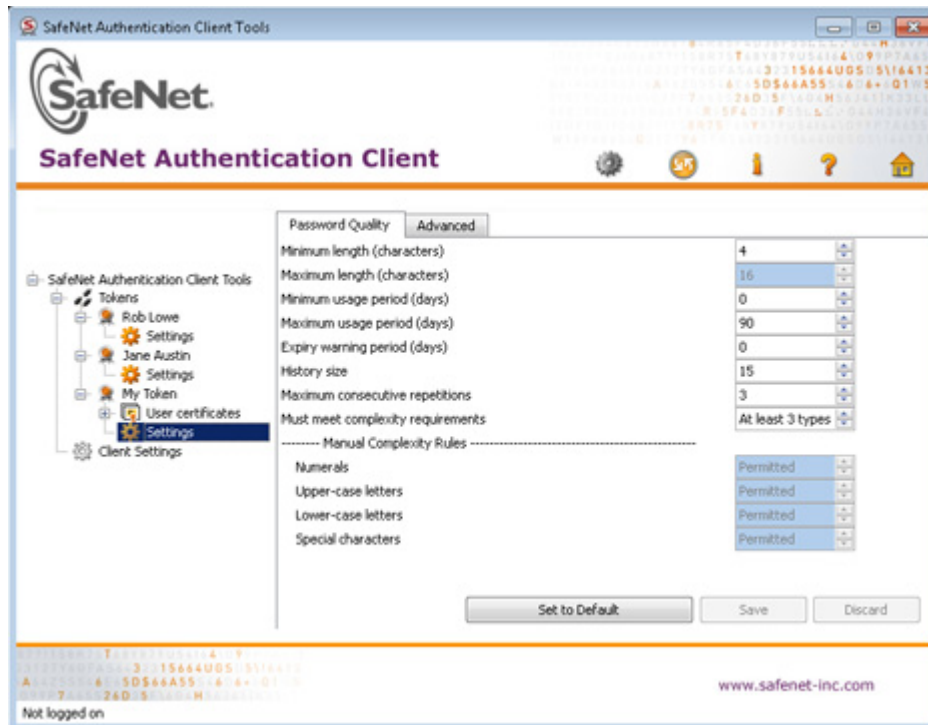
Private Key Data	
Key size	512 bits
Container name	{d8d6231c-6efd-408e-9065-eb90df5a166c}
Modulus	e5 e3 76 48 e9 96 97 47 82 f5 7a 79 b8 76 55 c1 d0 60 12 a9 d1
Key specification	AT_KEYEXCHANGE
Default key container	Yes
Auxiliary key container	Yes
Cryptographic Provider	CSP
Token authentication on application request	No

Some or all of the following functions are available:

User Function	Icon	Right-Click Menu Item
Delete Certificate See <i>Deleting a Certificate</i> on page 101.		Delete Certificate
Export Certificate See <i>Exporting a Certificate from a Token</i> on page 89.		Export Certificate
Set as Default See <i>Setting a Certificate as Default or Auxiliary</i> on page 96.	(None)	Set as Default
Set as Auxiliary See <i>Setting a Certificate as Default or Auxiliary</i> on page 96.	(None)	Set as Auxiliary
Copy to Clipboard See <i>Viewing and Copying Token Information</i> on page 59.		(None)
Set as KSP / Set as CSP See <i>Setting a Certificate as KSP or CSP</i> on page 93.	(None)	Set as KSP / Set as CSP

## Settings Node

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



The settings are in two tabs:

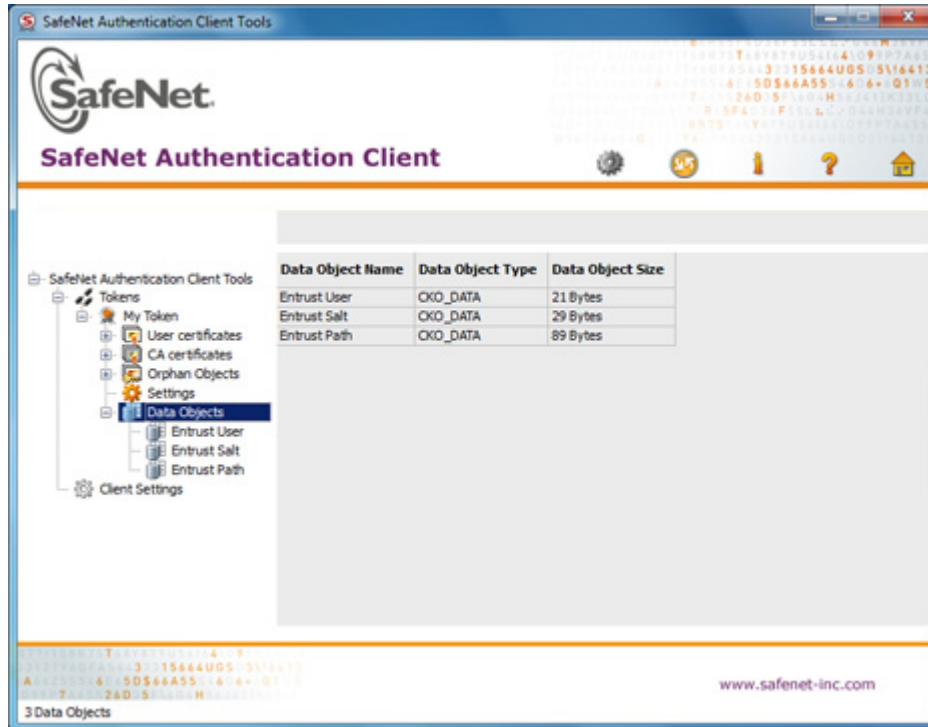
- Password Quality  
See Chapter 8: *Setting Token Password Quality* on page 205.
- Advanced  
See Chapter 8: *Setting Private Data Caching Mode* on page 210 and *Setting RSA Key Secondary Authentication* on page 213.

**NOTE**

The *Advanced* tab is not used for iKey devices.

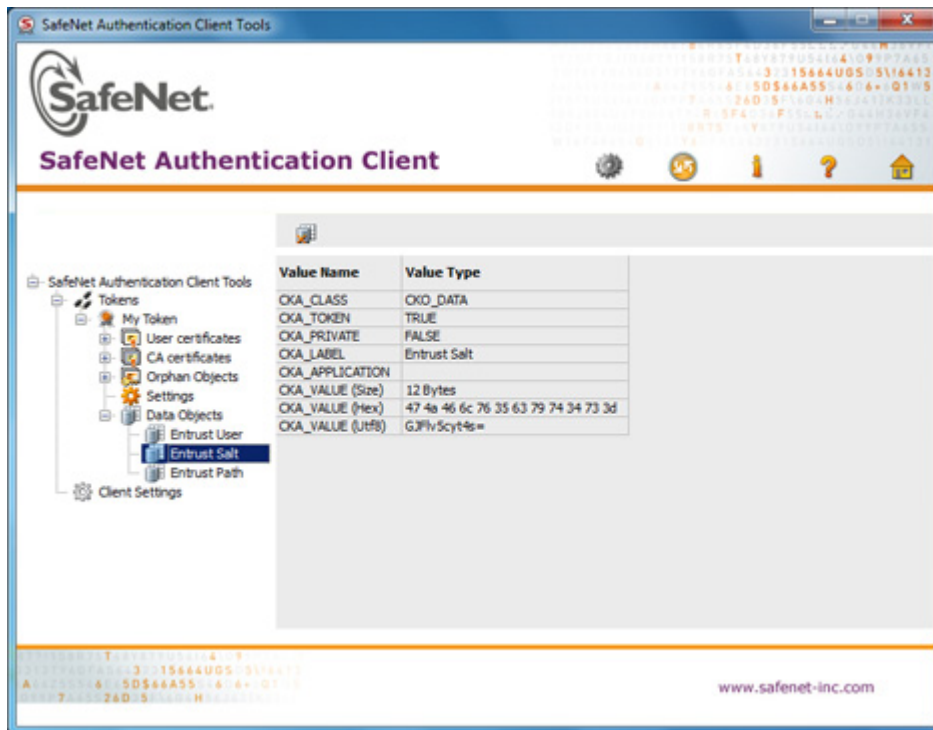
## Data Objects Node

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




## To view the contents of a data object:

- 1 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 .

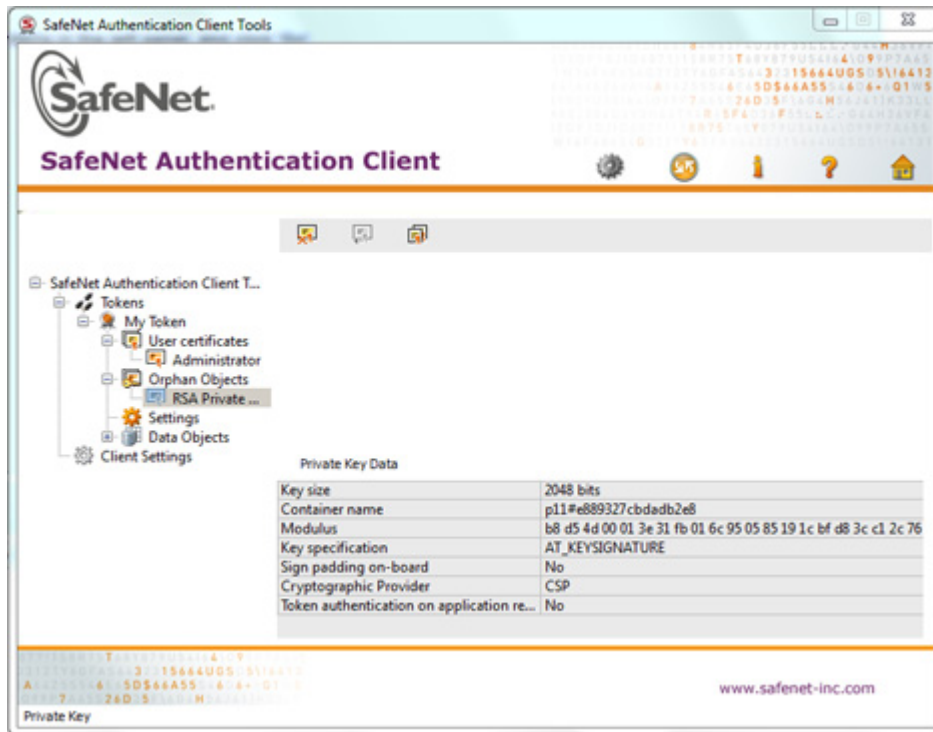
## Orphan Objects Node

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 Select the object to be deleted.
- 2 Click the **Delete Orphan Object** icon .

## 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 all tokens 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 7: *Client Settings* on page 185.

## Using the Virtual Keyboard

A virtual keyboard provides protection against kernel-level key loggers. It provides an additional layer of security by enabling you to enter passwords without using the physical keyboard.



If your installation has been configured for virtual keyboard use, use it for the following functions:

- Token Login
- Change Password

#### NOTES

- ◆ The virtual keyboard supports English characters only.
- ◆ To type an upper-case character, press **Shift** on your physical keyboard.

# 3

## 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.

### In this chapter:

- Selecting the Active Token
- Viewing and Copying Token Information
- Logging On to the Token as a User
- Renaming a Token
- Changing the Token Password

- Unlocking a Token by the Challenge-Response Method
- Unlocking an iKey Token Initialized Using BSec Utilities
- Deleting Token Content
- Importing a Certificate to a Token
- Exporting a Certificate from a Token
- Viewing Supported Cryptographic Providers
- Setting a Certificate as KSP or CSP
- Setting a Certificate as Default or Auxiliary
- Clearing a Default Certificate
- Deleting a Certificate
- Logging On to the Token as an Administrator
- Changing the Administrator Password
- Unlocking a Token by an Administrator
- Synchronizing Passwords
- Working with IdenTrust
- Reader Settings

# Selecting the Active Token

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

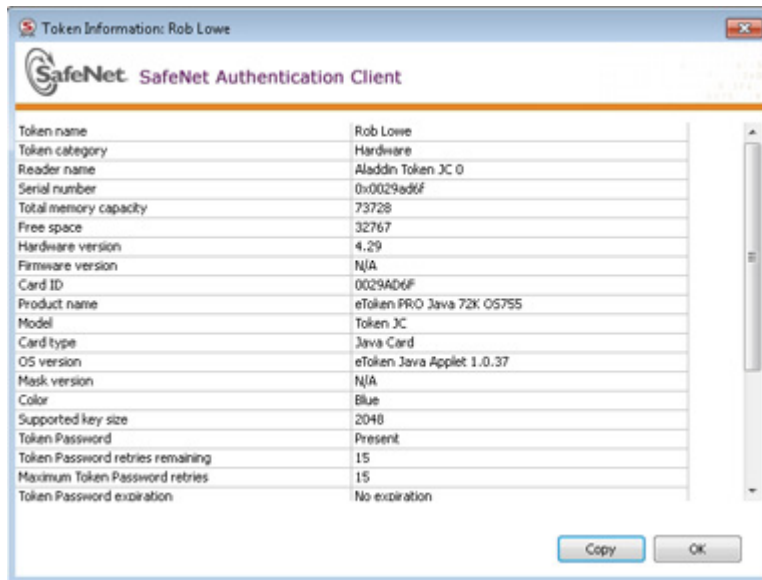
## To set a token as the active token:

- 1** Open SafeNet Authentication Client Tools.  
See Chapter 2: *Opening the Simple View* on page 30 or *Opening the Advanced View* on page 35.
- 2** In the left pane, select the required token.

# 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 *Opening the Simple View* on page 30.
  - 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:
  - a** Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
  - 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 *Unlocking 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:



- 5 To paste the copied token information, click the cursor in the target application, and paste the information.
- 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.

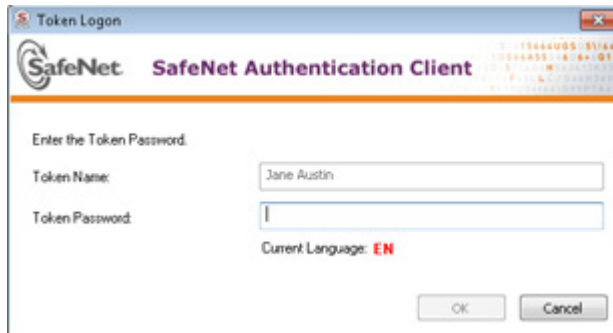
## To log on as a user:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

### 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:
  - a Open SafeNet Authentication Client Tools *Simple* view.  
See *Opening the Simple View* on page 30.
  - 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:
  - a Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

**b** Do one of the following:

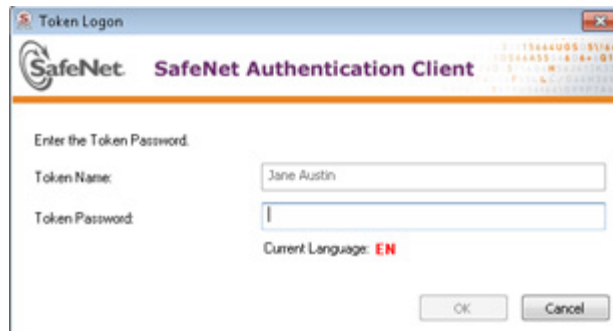
- In the left pane, select the node of the required token.  
In the right pane, click the **Rename Token** icon:



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

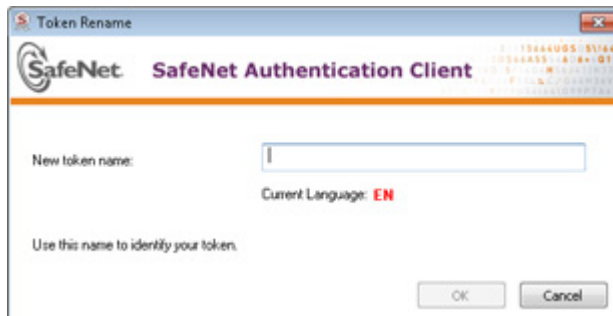
**c** Continue with step 3.

**3** The *Token Logon* window opens.



**4** Enter the Token Password, and click **OK**.

The *Token Rename* window opens.



- 5 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**.

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 Token Password:

- 1 To use the *Simple* view to change the Token Password, do the following:
  - a Open SafeNet Authentication Client Tools *Simple* view.  
See *Opening the Simple View* on page 30.
  - b In the left pane, select the required token.
  - c In the right pane, select **Change Token Password**.
  - d Continue with step 4.
- 2 To use the *Advanced* view to change the Token Password, do the following:
  - a Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
  - 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.

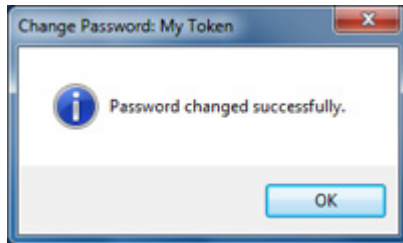
- 6 Enter a new Token Password in the *New Token Password* and *Confirm Password* fields.

**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 requirements.

- 7 Click **OK**.

A message confirms that the Token Password was changed successfully.



- 8 Click **OK**.

# 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 eToken Virtual tokens, can be unlocked if, and only if, an Administrator Password was set during initialization.

## NOTE

iKey devices cannot be unlocked by the Challenge-Response method.

SafeNet eToken Rescue tokens 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 3: *Unlocking a Token by an Administrator* on page 108.

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 *Opening the Simple View* on page 30.
  - 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:
  - a Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

**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.

**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 **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.

Unlock Token: My Token

SafeNet Authentication Client

Challenge Code: 08 7B 2C AF 62 F0 5E 20

Response Code:

☐ Token Password must be changed on first login

New Password:

Confirm Password:

The new Password must comply with the quality settings defined on the token.

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

Current Language: EN

Enter the Response Code provided by your administrator.

OK Cancel

- 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.

- 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**.

# Unlocking an iKey Token Initialized Using BSec Utilities

An iKey token that was initialized using BSec Utilities can be unlocked if it was configured with unblocking codes.

## To unlock an iKey token:

- 1** To use the *Simple* view to unlock an iKey token, do the following:
  - a** Open SafeNet Authentication Client Tools *Simple* view.  
See *Opening the Simple View* on page 30.
  - b** In the left pane, select the required token.
  - c** In the right pane, select **Unlock Token**.
  - d** Continue with step 3.
- 2** To use the *Advanced* view to unlock an iKey token, do the following:
  - a** Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

**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 3.

**3** The *Unlock Token* window opens.

- 4 Enter one of the unblocking codes in the *Enter Unlocking Code* field.

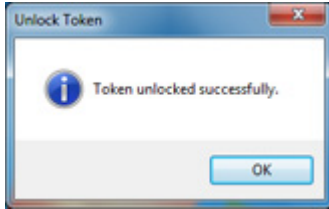
#### NOTE

For iKey 4000:

- ◆ Up to six unblocking codes can be stored on each token and each unblocking code can be used only once.
  - ◆ The unblocking codes can be used in any order.
  - ◆ If only one unblocking code is configured, it can be re-used an unlimited number of times.
- If more than one unblocking code is configured, each unblocking code can be used only once.

- 5 Enter a new password in the *New Token Password* and *Confirm Password* fields, and click **OK**.

A message confirms that the token was unlocked successfully.



6 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.

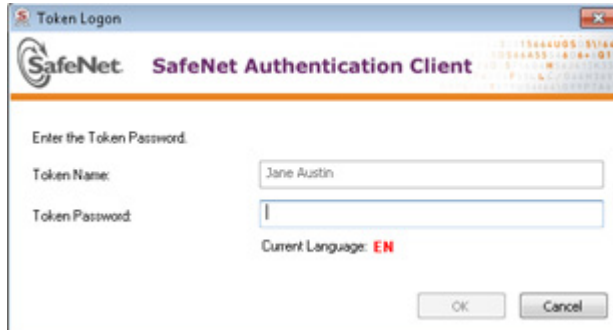
The *Delete Token Content* function is less comprehensive than the *Initialize* function which restores a token to its initial state, removing all objects stored on the token since manufacture and resetting the Token Password.

See Chapter 4: *Token Initialization* on page 120.

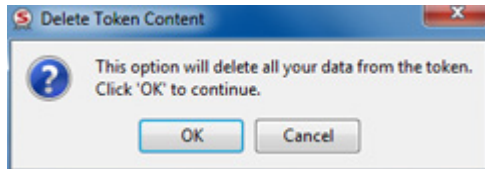
## To delete the token content:

- 1 To use the *Simple* view, do the following:
  - a Open SafeNet Authentication Client Tools *Simple* view.  
See *Opening the Simple View* on page 30.
  - 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.
  - c** Select **Delete Token Content**.
  - d** Continue with step 3.
- 3** The *Token Logon* window opens.

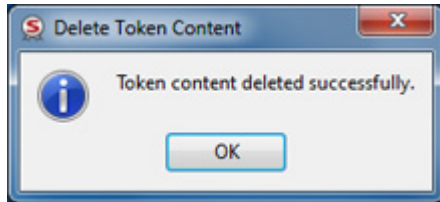


- 4** Enter the Token Password, and click **OK**.
- The *Delete Token Content* window opens, prompting you to confirm the delete action.



- 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 eToken Rescue.

## To import a certificate:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

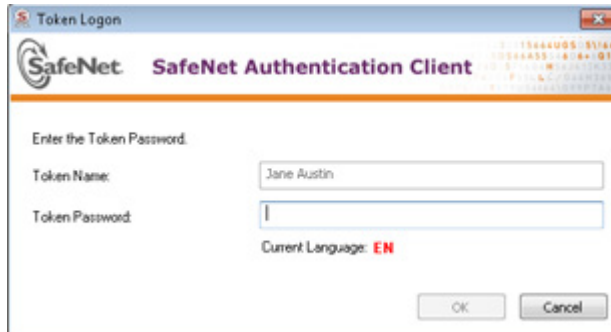
2 Do one of the following:

- ◆ In the left pane, select the node of the required token.  
In the right pane, click the **Import Certificate** icon:



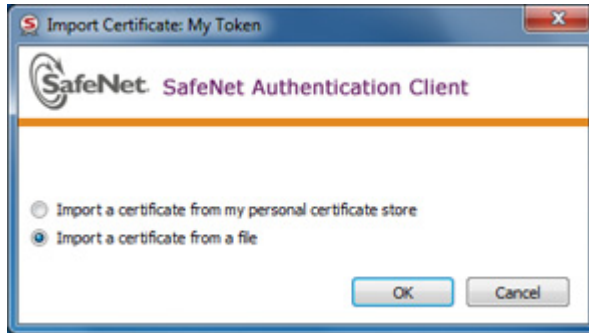
- ◆ In the left pane, right-click the node of the required token, and select **Import Certificate** from the shortcut menu.

3 The *Token Logon* window opens.

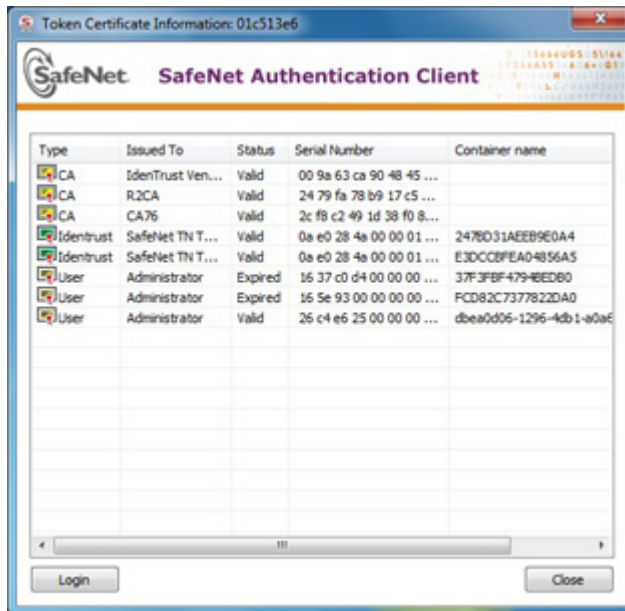


4 Enter the Token Password, and click **OK**.

The *Import Certificate* window opens.

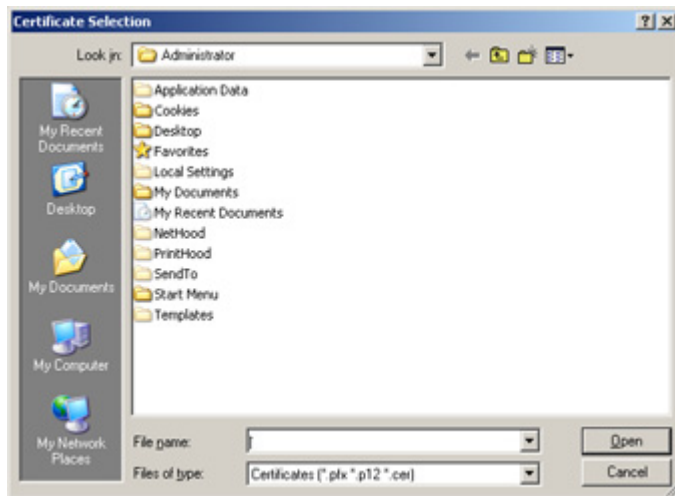


- 5 Select one of the following:
  - ◆ Import a certificate from my personal certificate store
  - ◆ Import a certificate from a file
- 6 If you select **Import a certificate from my personal certificate store**, a list of available certificates is displayed.



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 can 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.



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

- 8 If the certificate requires a password, the *Password* window opens.

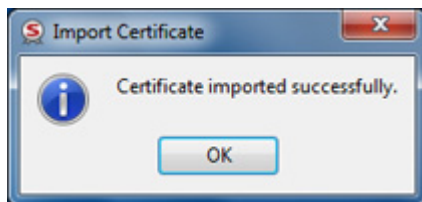


Enter the certificate password, and click **OK**.

- 9 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**.

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

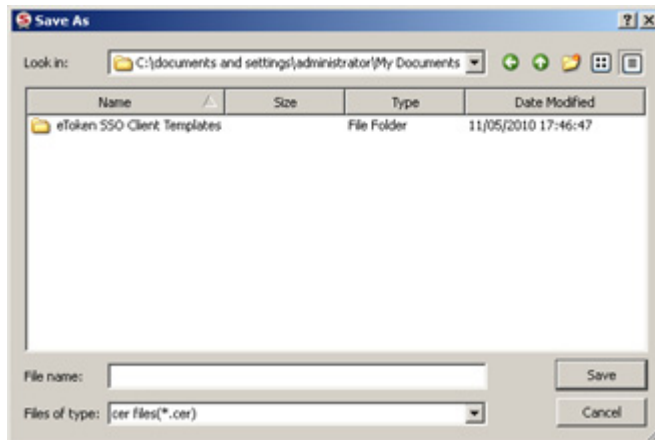


# Exporting a Certificate from a Token

## To export a certificate:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, expand the node of the required token.
- 3 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.
- 4 The *Save As* window opens.



- 5 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.

# Viewing Supported Cryptographic Providers

When you select a token node in the SafeNet Authentication Client Tools *Advanced* view, the cryptographic providers supported by the token (KSP or CSP) are displayed.

## To see which Cryptographic Providers are supported on the token:

**1** Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

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

Token data, including the supported cryptographic providers, is displayed in the right pane.



# Setting a Certificate as KSP or CSP

When you select a certificate node in the SafeNet Authentication Client Tools *Advanced* view, the cryptographic provider supported by the specific certificate is displayed under *Private Key Data*.

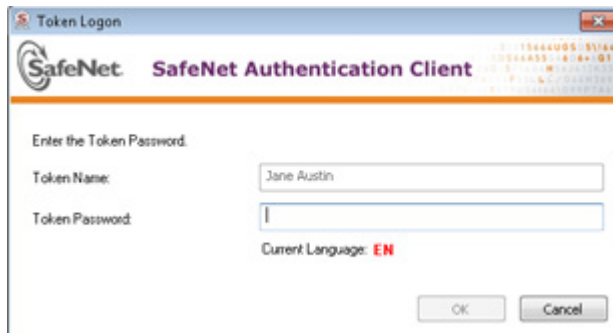
You can set a certificate type as Key Storage Provider (KSP) or Cryptographic Service Provider (CSP). This is typically required when you have a token enrolled with a legacy CSP that you want to convert to KSP, to enable support for the Suite B set of cryptographic algorithms such as SHA-2.

## To set the certificate as KSP or CSP:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, expand the node of the required token.



- 3 Right-click the required certificate, and from the shortcut menu, select **Set as CSP** or **Set as KSP**.
- 4 The *Token Logon* window opens.



- 5 Enter the Token Password, and click **OK**.  
The supported cryptographic provider is set.

# Setting a Certificate as Default or Auxiliary

If there are multiple certificates on the token, you can determine which one is set as *Default* and which is set as *Auxiliary*.

Each option is enabled only if the action can be performed on that particular certificate or key.

The following table describes the use of these settings.

Setting	Description	Scenario
Default	Smart card logon uses the certificate defined as the <i>Default</i> . In most Microsoft applications, smart card logon is used.	Your token contains two certificates. One is for logon to domain A and the other for logon to domain B. Your previous logon was to domain A, which means that the certificate for logon to domain A is now the <i>Default</i> . If you need to log on to domain B from another computer, the following happens: <ul style="list-style-type: none"><li>◆ If you first set the domain B certificate as <i>Default</i>, the logon uses the correct certificate, and the logon succeeds.</li><li>◆ If you do not set the domain B certificate as <i>Default</i>, the domain A certificate is used, and logon fails.</li></ul>

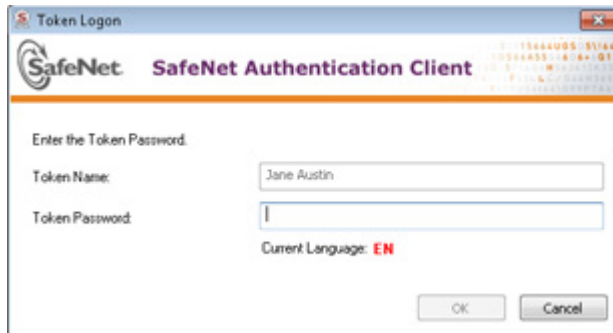
Setting	Description (Cont.)	Scenario (Cont.)
Auxiliary	<p>Some applications use Client Authentication and not smart card logon. Client Authentication provides access to fewer system resources than smart card logon.</p> <p>SafeNet Authentication Client enables a Client Authentication logon process for these applications, such as VPN.</p> <p>If more than one certificate on the token includes <i>Client Authentication</i> as an <i>Intended Purpose</i>, define which certificate to use by setting it as <i>Auxiliary</i>.</p>	<p>Your token contains a certificate intended for VPN connection, but there is another certificate that also includes <i>Client Authentication</i> as its <i>Intended Purpose</i>. The certificate for the VPN connection must be set as <i>Auxiliary</i>, to ensure that it is used as the default for VPN logon.</p>

#### NOTE

iKey does not support Auxiliary certificates. It treats an Auxiliary certificate as a Default certificate.

### To set a certificate as Default or Auxiliary:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, expand the node of the required token, and right-click the required certificate.
- 3 From the shortcut menu, select **Set as Default** or **Set as Auxiliary**.  
The *Token Logon* window opens.




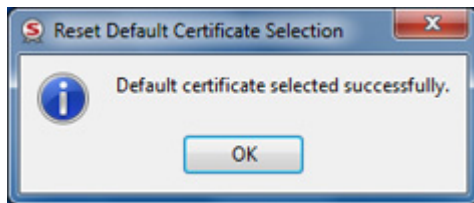
- 4 Enter the Token Password, and click **OK**.  
The certificate is set as *Default* or *Auxiliary*.

# Clearing a Default Certificate

If you have set a certificate as Default, you can clear the setting and revert to using the previous Default certificate.

## To clear a Default certificate:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, expand the node of the required token.
- 3 Do one of the following:
  - ◆ In the left pane, select *User Certificates*.  
In the right pane, click the **Reset Default Certificate Selection** icon.  
The icon is a small blue square with a white border. Inside, there is a yellow rectangle with a black outline of a computer monitor. Below the monitor, there are three small red circles arranged horizontally.
  - ◆ In the left pane, right-click *User Certificates*, and select **Reset Default Certificate Selection** from the shortcut menu.
- 4 The *Reset Default Certificate Selection* window opens, confirming that the Default certificate has been reset.



5 Click **OK**.

# Deleting a Certificate

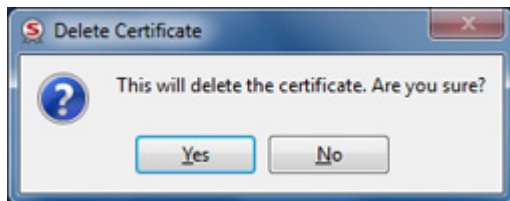
You can remove a certificate from a token.

## To delete a certificate from a token:

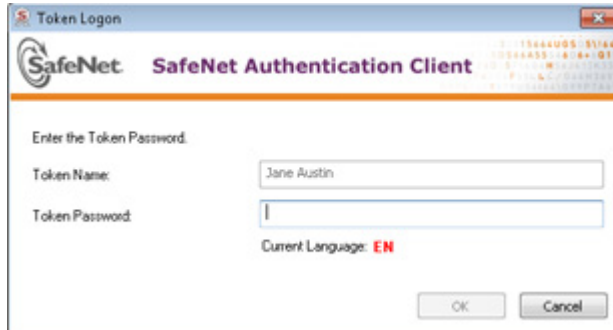
- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, expand the node of the required token.
- 3 Do one of the following:
  - ◆ In the left pane, select the required certificate, and click the **Delete Certificate** icon:



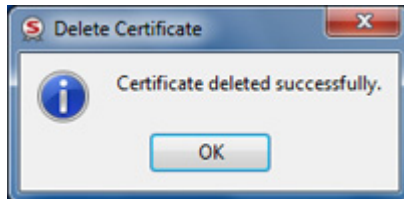
- ◆ In the left pane, right-click the required certificate, and select **Delete Certificate** from the shortcut menu.
- 4 The *Delete Certificate* window opens.



- 5 To delete the certificate, click **Yes**.  
The *Token Logon* window opens.



- 6 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

Administrator functions are not supported by iKey devices.

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)
- Unlocking a Token by an Administrator
- Unlocking a Token by the Challenge-Response Method
- Setting Token Password Quality
- Setting Private Data Caching Mode
- Setting RSA Key Secondary Authentication

## To log on to a token as an administrator:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

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.  
See *Opening the Advanced View* on page 35.
- 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.



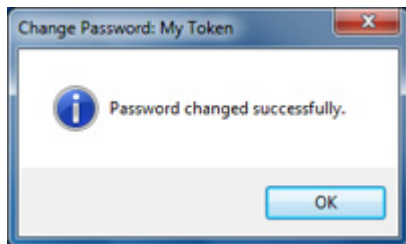
- 3 Enter the current Administrator Password in the *Current Administrator Password* field.

**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.



6 Click **OK**.

# Unlocking a Token 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.

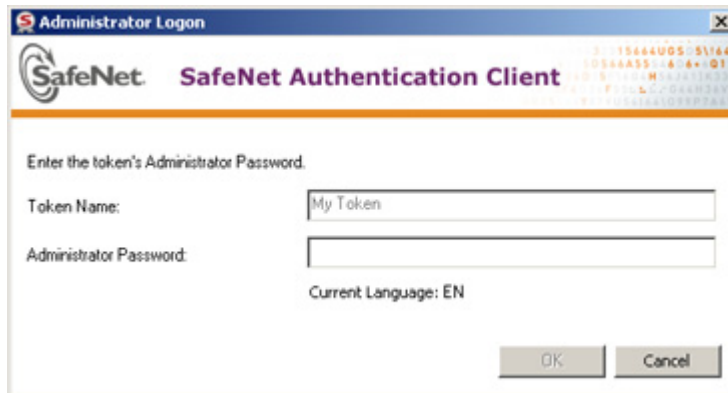
## To unlock a token by setting a new Token Password:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 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.



The image shows a screenshot of the 'Administrator Logon' window in the SafeNet Authentication Client. The window has a blue title bar with the text 'Administrator Logon' and a close button. Below the title bar is a header area with the SafeNet logo and the text 'SafeNet Authentication Client'. The main area of the window contains the instruction 'Enter the token's Administrator Password.' followed by two input fields: 'Token Name:' with the value 'My Token' and 'Administrator Password:' which is empty. Below these fields, it says 'Current Language: EN'. At the bottom right, there are two buttons: 'OK' and 'Cancel'.

- 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.

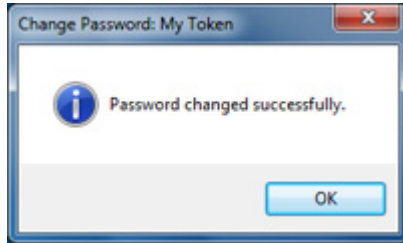
- 5 Set the *Logon retries before token is locked* field to the required number.

**NOTE**

The *Logon retries before token is locked* feature is available CardOS tokens only. Java card tokens are not supported.

**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.

# Synchronizing Passwords

## NOTE

Password synchronization is implemented only in specific installations of SafeNet Authentication Client.

SafeNet Authentication Client supports synchronization between Token Passwords and domain logon passwords.

The synchronization process ensures that a single password is used for logging on to both the token and the Windows domain. The process enforces the password complexity requirements that were set for the token and SafeNet Authentication Client.

## NOTE

- ◆ The new password must meet the complexity requirements for the token and the domain.
- ◆ You must have access to the domain when changing the password.

### To synchronize passwords:

- 1** Right-click the SafeNet Authentication Client tray icon.  
The SafeNet Authentication Client tray menu opens.
- 2** Select **Synchronize Password**.  
The *Synchronize Passwords* window opens.
- 3** Enter the current Token Password and the current domain password.

- 4 Enter the new Token Password, and confirm it.
- 5 Click **OK**.

You now have a single password for logging on to your token and Windows domain.

Every time you change your Token Password using SafeNet Authentication Client, your domain logon password is changed to the same value.

# Working with IdenTrust

IdenTrust supports two modes:

- **Token Password** - used as an Identity PIN and is entered each time an identity certificate is used. This is supported by all SafeNet eToken and iKey devices.
- **Identity PIN (Legacy)** - used in legacy iKey 2032i devices. The Identity PIN is used in addition to the Token Password.

## Using the Identity PIN (Legacy)

### Changing the Identity PIN

**To change the Identity PIN:**

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 Right-click the token, and select **Change Identity PIN**.
- 3 The *Change Identity PIN* window opens.
- 4 Enter the current PIN, and enter and confirm the new PIN.

## Unlocking the Identity PIN

If an incorrect Identity PIN is entered multiple times, the PIN becomes blocked. It must be unblocked to enable you to continue working with the token.

### To unblock the Identity PIN:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 Right-click the token, and select **Unblock Identity**.

The *Unblock Identrust PIN* window opens.

The screenshot shows a window titled "Unlock Token" from the "SafeNet Authentication Client". The window has a blue header bar with the SafeNet logo and the text "SafeNet Authentication Client". Below the header, there is a section for entering an unblocking code and a new password. The "Enter Unlocking Code #1:" field is a single-line text box. Below it are two more single-line text boxes for "New Token Password:" and "Confirm Password:". A note states: "The new Password must comply with the quality settings defined on the token." Another note provides password requirements: "A secure Password has at least 8 characters, and contains upper-case letters, lower-case letters, numerals, and special characters (such as !, \$, #, %)." At the bottom, it shows "Current Language: EN" and "Enter the Unlocking Code." with "OK" and "Cancel" buttons.

- 3 Enter the unblocking code in the *Enter Unlocking Code* field.
- 4 Enter a new password in the *New Password* and *Confirm Password* fields, and click **OK**.

# Reader Settings

A token is connected to a reader when one of the following occurs:

- A token is physically inserted into a USB port
- A SafeNet eToken Virtual is connected
- A smartcard is physically inserted into a reader

During the default installation of SafeNet Authentication Client, the following numbers of virtual readers are installed on the computer:

- 2 SafeNet eToken readers
- 2 iKey readers
- 1 virtual reader for SafeNet eToken Virtual smartcard emulation
- 2 SafeNet eToken Virtual slots

The number of readers defined on the computer determines the maximum number of these types of tokens that can be recognized upon connection.

The number of virtual SafeNet eToken readers and eToken Virtual slots for a computer can be changed by a user with local administrator rights on that computer.

## NOTE

The number of iKey readers is set during installation and cannot be modified.

## To change the number of readers:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 Do one of the following:
  - ◆ In the left pane, select the **Tokens** node.  
In the right pane, click the **Reader Settings** icon:



- ◆ In the left pane, right-click the **Tokens** node, and select **Reader Settings** from the shortcut menu.

The *Reader Settings* window opens.



- 3 Set the required number of virtual hardware or software readers in the appropriate field.

The default numbers of available readers are:

- ◆ SafeNet eToken readers: 2
- ◆ SafeNet eToken Virtual slots: 2

**4** Click **OK** to close the window.

The number of available readers is changed.

**5** Restart SafeNet Authentication Client Tools to make the changes effective.

# 4

## Token Initialization

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

### NOTE

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

### In this chapter:

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

# Overview of Token Initialization

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.

# Configuring Initialization Settings

## 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 a token:

**1** Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.

**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** from the shortcut menu.

The *Token Initialization* window opens.

Token Initialization

SafeNet Authentication Client

Token Name:

☒ Create Token Password

New Token Password:

Confirm:

Logon retries before token is locked:

☒ Create Administrator Password

New Administrator Password:

Confirm:

Logon retries before token is locked:

Note: Many tokens can be unlocked only if they have an Administrator Password.

☒ Token Password must be changed on first logon

[Partitioning Settings](#)

[Advanced Settings](#)

- 3 Enter a name for the token in the *Token Name* field. 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.
- 4 Select **Create Token Password** to initialize the token with a Token Password.  
If the token is initialized without a Token Password, it will not be usable for token applications.

- 5 Enter a new Token Password in the *New Token Password* and *Confirm* fields.

**NOTE**

- ◆ The default Token Password is 1234567890.
- ◆ If the token is initialized with the default Token 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. The user will be required to set a Token Password that meets the Password Quality requirements configured in the *Settings* window. See Chapter 8: *Setting Token Password Quality* on page 205.

- 6 To initialize an Administrator Password, select **Set Administrator Password** and enter a password in the *New Administrator Password* and *Confirm* fields. The minimum password length 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.

- 7 In the *Logon retries before token is locked* field, enter a numeric value. 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 setting for the maximum number of incorrect logon attempts is 15.
- 8 If required, select **Token Password must be changed on first logon**.

This is selected by default.

- 9 To configure the partitioning settings of SafeNet eToken 7300, see Chapter 6: *Partitioning the SafeNet eToken 7300* on page 178.

**NOTE**

- ◆ The SafeNet eToken 7300 initialization process always initializes the smartcard and partitions the flash drive.
- ◆ If partitioning settings are not set before the initialization proceeds, the default partitioning settings are used.

- 10 To configure advanced settings, see *Configuring Advanced Initialization Settings* on page 126.

**NOTE**

iKey tokens do not support advanced initialization settings.

- 11 Click **Start**.

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

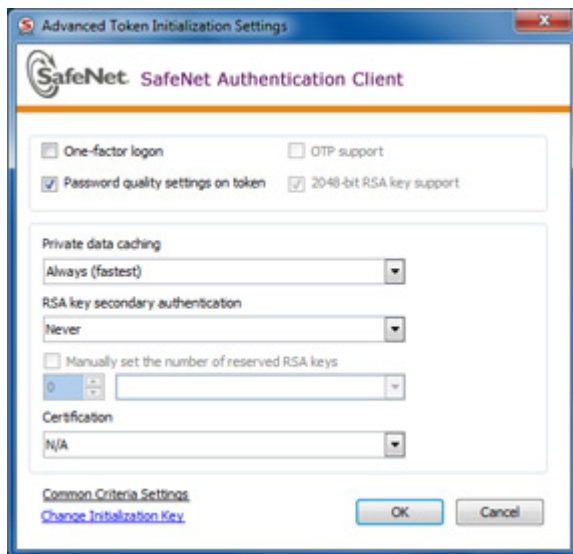
# Configuring Advanced Initialization Settings

**To configure advanced initialization settings:**

**1** Open the *Token Initialization* window.  
See *Configuring Initialization Settings* on page 122.

**2** Click **Advanced Settings**.

The *Advanced Token Initialization Settings* window opens.



### 3 Complete the fields as follows:

Field	Description
One-factor logon	Default: disabled When one-factor logon is enabled, only the presence of the token is required to log on to applications. The Token Password is not required.
Password quality settings on token	Default: enabled Select to keep password quality requirements on the token device.
OTP Support	Default: disabled Select to enable OTP support (on compatible tokens).
2048-bit RSA key support	Default: enabled Select to enable 2048-bit RSA key support (on compatible tokens).
Private data caching	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: <ul style="list-style-type: none"><li>◆ 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.</li><li>◆ 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.</li><li>◆ Never: Private information is not cached.</li></ul>

Field (Cont.)	Description (Cont.)
RSA key secondary authentication	<p>Default: Never</p> <p>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.</p> <p>Having a password for the key is known as <i>secondary authentication</i>. Select one of the following:</p> <ul style="list-style-type: none"> <li>◆ Always</li> <li>◆ Always prompt user</li> <li>◆ Prompt user on application request</li> <li>◆ Never</li> <li>◆ Token authentication on application request</li> </ul> <p>For an explanation of these options, see <i>Setting the RSA Key Secondary Authentication Field</i> on page 130.</p> <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	<p>Default: disabled</p> <p>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.</p>

Field (Cont.)	Description (Cont.)
Certification	<p>Default: N/A</p> <p>Select the certification type for formatting the token.</p> <p>Select one of the following options:</p> <ul style="list-style-type: none"> <li>◆ N/A: None</li> <li>◆ 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</li> <li>◆ Common Criteria: an international standard for computer security certification</li> </ul>
Change Initialization Key (link)	<p>The initialization key protects against future accidental initialization by requiring a non-default password to be entered before future initialization can occur.</p> <p>See <i>Changing the Token Initialization Key</i> on page 133.</p>
Common Criteria Settings (link)	<p>If <i>Certification</i> is set to <b>Common Criteria</b>, click this button to set the certificate import PIN and the maximum number of certificates for which to reserve space on the token.</p> <p>See <i>Configuring Common Criteria Settings</i> on page 136.</p>

**4** You can do the following:

- ◆ To change the token initialization key, see *Changing the Token Initialization Key* on page 133.
- ◆ To define the Common Criteria settings, see *Configuring Common Criteria Settings* on page 136.

**5** To return to the *Token Initialization* window, click **OK**.

# Setting the RSA Key Secondary Authentication Field

The following table explains the options for the RSA key secondary authentication setting.

## RSA Key Secondary Authentication settings

Setting	Description	
Always	Every time an RSA key is generated, the user is prompted to create a secondary password for accessing the key.	
	If the user clicks OK, the RSA key is generated, and the password entered becomes the new key's secondary password.  When using the certificate, the user must authenticate once using the Token Password. For each operation that requires the RSA key, the user must authenticate using the secondary password.	If the user clicks Cancel, RSA key generation fails.
Always prompt user	Every time an RSA key is generated, the user is prompted to create a secondary password for accessing the key.	
	If the user clicks OK, the RSA key is generated, and the password entered becomes the new key's secondary password.  When using the certificate, the user must authenticate once using the Token Password. For each operation that requires the RSA key, the user must authenticate using the secondary password.	If the user clicks Cancel, the RSA key is generated without a secondary password.  When using the certificate, the user must authenticate once using the Token Password. No additional authentication is required for operations that require the RSA key.

## RSA Key Secondary Authentication settings

Setting	Description	
Prompt user on application request	When using an RSA key generation application that requires secondary passwords for strong private key protection (such as Crypto API with a user-protected flag, or the PKCS#11 CKA_ALWAYS_AUTHENTICATE attribute), the user is prompted to create a secondary password for accessing the RSA key.	When using applications that do not require secondary passwords for strong private key protection, the RSA key is generated without a secondary password.
	<p>If the user clicks OK, the RSA key is generated, and the password entered becomes the new key's secondary password.</p> <p>When using the certificate, the user must authenticate once using the Token Password. For each operation that requires the RSA key, the user must authenticate using the secondary password.</p>	<p>When using the certificate, the user must authenticate once using the Token Password. No additional authentication is required for operations that require the RSA key.</p> <p>If the user clicks Cancel, RSA key generation fails.</p>
Never	<p>Secondary passwords are not created for new RSA keys.</p> <p>When using the certificate, the user must authenticate once using the Token Password. No additional authentication is required for operations that require the RSA key.</p>	

## RSA Key Secondary Authentication settings

Setting	Description	
Token authentication on application request	Secondary passwords are not created for new RSA keys. When using the certificate, the user must authenticate once using the Token Password.	
	When using an RSA key generated by an application that requires secondary passwords for strong private key protection (such as Crypto API with a user protected flag, or the PKCS#11 CKA_ALWAYS_AUTHENTICATE attribute), the user must authenticate using the Token Password for each operation that requires the RSA key.	When using an RSA key that was not generated by an application that requires secondary passwords for strong private key protection, no additional authentication is required for operations that require the RSA key.

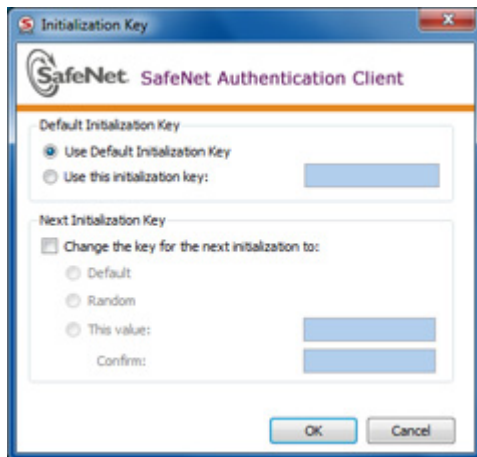
# Changing the Token Initialization Key

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.

iKey tokens do not support Initialization Keys.

## To change the Token Initialization Key:

- 1 Open the *Advanced Settings* window.  
See *Configuring Advanced Initialization Settings* on page 126.
- 2 Click **Change Initialization Key**.  
The *Initialization Key* window opens.



### 3 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 *Use this Initialization Key* field.

4 Click **OK** to return to the *Advanced Token Initialization Settings* window.

# Configuring Common Criteria Settings

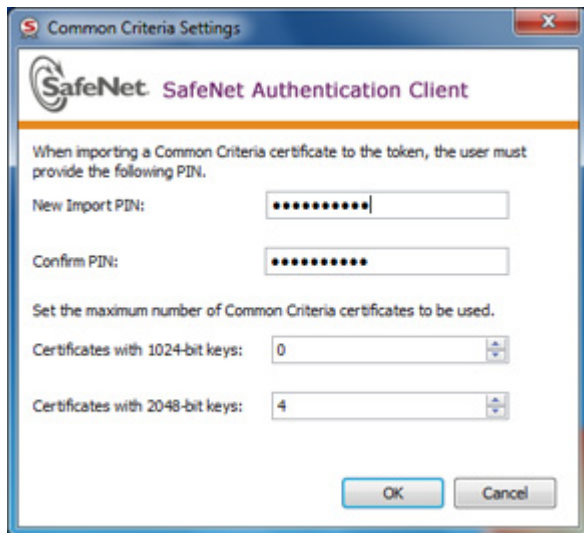
When the selected certification type is **Common Criteria**, set the certificate import PIN and the maximum number of certificates for which to reserve space on the token.

## NOTE

This section is relevant only to tokens that support Common Criteria.

### To define the Common Criteria settings:

- 1 Open the *Advanced Settings* window.  
See *Configuring Advanced Initialization Settings* on page 126.
- 2 In the *Certification* field, select **Common Criteria**.
- 3 Click **Common Criteria Settings**.  
The *Common Criteria Settings* window opens.



#### 4 Complete the fields as follows:

Field	Description
New Import 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 <b>1234567890</b> .
Confirm PIN	

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.

# 5

## SafeNet eToken Virtual

SafeNet Authentication Client supports the SafeNet eToken Virtual line of products. This includes SafeNet eToken Virtual and eToken Rescue tokens.

### **TIP**

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

### **In this chapter:**

- Overview of SafeNet eToken Virtual Products
- Connecting a SafeNet eToken Virtual
- Disconnecting or Deleting a SafeNet eToken Virtual Product
- Using a SafeNet eToken Virtual to Replace a Lost Token
- Unlocking a SafeNet eToken Virtual
- Generating a One-Time Password (OTP)

- Using a SafeNet eToken Virtual on an External Storage Device
- Using an Emulated SafeNet eToken Virtual

# Overview of SafeNet eToken Virtual Products

SafeNet Authentication Client supports tokens from the SafeNet eToken Virtual 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 eToken Rescue:** provides a solution when a staff member loses or damages their token when away from the office. A SafeNet eToken Rescue is a read-only token which functions for a limited period of time. You cannot import certificates to it.
- **SafeNet eToken Virtual:** performs all the functions of an eToken NG-OTP. It can store the same data, including eToken Single Sign-On (SSO) profiles and key pairs and certificates. Its configuration may enable it to support OTP generation.

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

# Connecting a SafeNet eToken Virtual

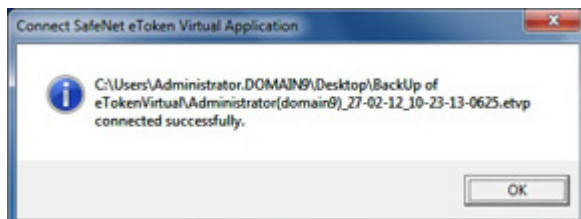
To use your SafeNet eToken Virtual product as a token, connect its file to SafeNet Authentication Client.

Under certain conditions, the token is connected automatically. See *Using a SafeNet eToken Virtual on an External Storage Device* on page 152.

## To connect a SafeNet eToken Virtual token from the file:


- 1 Double-click the SafeNet eToken Virtual (.etvp) or eToken Rescue (.etv) file.

The SafeNet eToken Virtual or eToken Rescue connects to the computer and displays a confirmation message.



- 2 Click **OK**.

## To use SafeNet Authentication Client Tools to connect a SafeNet eToken Virtual:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 Do one of the following:
  - ◆ In the left pane, select the **Tokens** node.  
In the right pane, click the **Connect SafeNet eToken Virtual** icon:  

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

# Disconnecting or Deleting a SafeNet eToken Virtual Product

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

Under certain conditions, the token is disconnected automatically. See *Using a SafeNet eToken Virtual on an External Storage Device* on page 152.

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

## To disconnect or delete a SafeNet eToken Virtual product:

- 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 30.
  - b In the left pane, select the required SafeNet eToken Virtual or eToken Rescue token.
  - c In the right pane, select **Disconnect SafeNet eToken Virtual** (or **Disconnect SafeNet eToken Rescue**).
  - 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 35.

**b** Do one of the following:

- In the left pane, select the node of the required SafeNet eToken Virtual or eToken Rescue token.

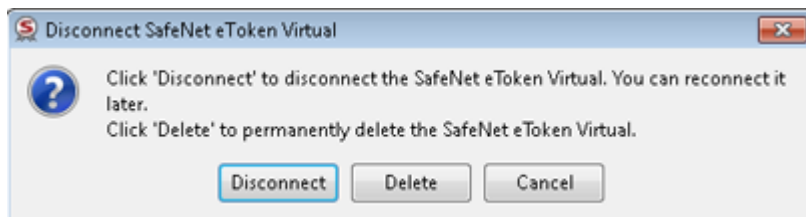
In the right pane, click the **Disconnect SafeNet eToken Virtual** icon:



- In the left pane, right-click the node of the required SafeNet eToken Virtual or eToken Rescue token, and select **Disconnect** from the shortcut menu.

**c** Continue with step 3.

**3** The *Disconnect SafeNet eToken Virtual* window opens.



4 Do one of the following:

- ◆ To keep the SafeNet eToken Virtual or eToken Rescue 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 eToken Virtual* on page 142.
- ◆ To disconnect the token from SafeNet Authentication Client, and also remove the SafeNet eToken Virtual or eToken Rescue file from the computer, click **Delete**.  
After a SafeNet eToken Virtual or eToken Rescue is deleted, it cannot be reconnected later. A new file must be installed before it can be connected.

# Using a SafeNet eToken Virtual to Replace a Lost Token

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

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

# Unlocking a SafeNet eToken Virtual

If you enter an incorrect password more than a pre-defined number of times, the SafeNet eToken Virtual becomes locked. To unlock the token, see Chapter 3: *Unlocking a Token by the Challenge-Response Method* on page 71, or *Unlocking a Token by an Administrator* on page 108.

## NOTE

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

# Generating a One-Time Password (OTP)

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

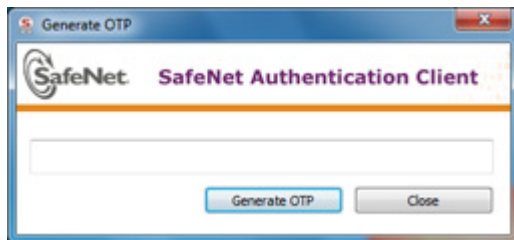
## To generate an OTP:

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

The SafeNet Authentication Client tray menu opens.

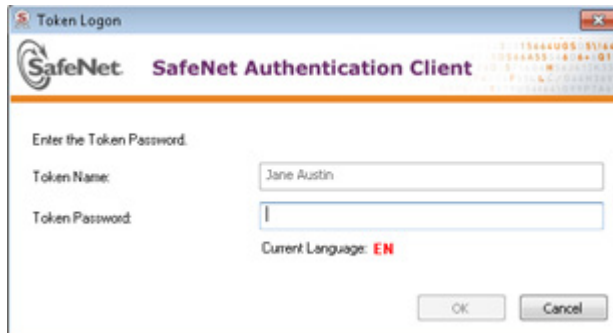
- 2 Select **Generate OTP**.

The *Generate OTP* window opens.



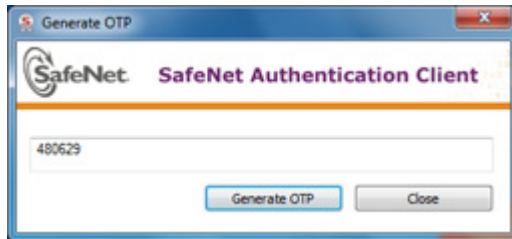
- 3 Click **Generate OTP**.

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.

#### NOTE

Depending on your SafeNet Authentication Client configuration, you may need to include other secure information, such as your OTP PIN or Windows password.

**6** Click **Close** to close the *Generate OTP* window.

# Using a SafeNet eToken Virtual on an External Storage Device

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

- The SafeNet eToken Virtual 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 eToken Virtual that was automatically connected.

If the SafeNet eToken Virtual is located on an external storage device in a location other than the `eTokenVirtual` folder, you must connect the SafeNet eToken Virtual manually. See *Connecting a SafeNet eToken Virtual* on page 142.

Before removing the storage device, you must disconnect the SafeNet eToken Virtual manually. See *Disconnecting or Deleting a SafeNet eToken Virtual Product* on page 144. Otherwise, the SafeNet 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 32.

# Using an Emulated SafeNet eToken Virtual

Certain applications that work with smartcard readers require the SafeNet eToken Virtual to emulate the action of the smartcard reader. To use a SafeNet eToken Virtual product with such applications, you must use an emulated SafeNet eToken Virtual.

Typically, the emulated SafeNet eToken Virtual is locked to an external storage device.

By default, the emulated SafeNet eToken Virtual cannot be locked to your computer's hard drive, as this can cause a malfunction of the Windows logon. This occurs because the Windows logon process cannot deal with multiple smartcard readers. However, if you want to work with the SafeNet eToken Virtual located on the hard drive, the administrator can configure SafeNet Authentication Client to support this.

It is important to disconnect the emulated SafeNet eToken Virtual when you have finished the session, so that the computer reverts to working with the default reader.

# 6

## SafeNet eToken 7300

SafeNet eToken 7300 devices combine a certificate-based authentication solution with password-protected data and application storage on up to 64GB of encrypted flash memory.

In this chapter:

- Introduction to SafeNet eToken 7300
- SafeNet eToken 7300 Launcher
- SafeNet eToken 7300 Tray Menu
- SafeNet eToken 7300 User Storage
- Partitioning the SafeNet eToken 7300

# Introduction to SafeNet eToken 7300

The SafeNet eToken 7300 device is a hybrid certificate-based authentication token and a flash token on a single device.

SafeNet eToken 7300 addresses the following needs:

- Portable secure applications: Secure access to online resources with the ability to store portable applications on the token that are accessible when the user enters the Token Password.
- Portable office: secure remote access to corporate resources combined with a fully bootable secure portable office environment that is stored on the token.
- Secure documents and data: Secure access combined with encrypted storage for sensitive documents and data.

SafeNet eToken 7300 devices that have been initialized using SafeNet Authentication Client 8.3 work seamlessly on computers running either Windows or Mac operating systems.

If SafeNet Authentication Client is not installed on your computer, connect your SafeNet eToken 7300 device and run the built-in launcher application. This application temporarily installs the SafeNet eToken 7300 tray menu for token management. If the token's user storage has been password-protected, you must log on to your token to access its contents.

## NOTE

In Windows 8.1 environments, SafeNet eToken 7300 devices earlier than version 9.0.35 can be used only when SafeNet Authentication Client is installed.

# SafeNet eToken 7300 Launcher

Depending on the configuration of your SafeNet eToken 7300 device, connecting the device to your computer initiates a launcher application that enables the SafeNet eToken 7300 flash tray icon to be displayed:



## Running the Launcher to Open the Tray Icon on Windows

After connecting the SafeNet eToken 7300 device, you can run the launcher application from the eToken 7300's *AutoPlay* window or from the **eToken 7300 > SafeNet-Authentication-Client** folder.

### To run the launcher from the eToken 7300's *AutoPlay* window:

- 1 If the SafeNet eToken 7300 device is not connected, connect it, and wait until the operating system recognizes it.

#### NOTE

If your operating system does not recognize your token, a message may be displayed instructing you to restart your computer.

To prevent this message from being displayed in the future when this token is connected, restart your computer.

The eToken 7300's *AutoPlay* window opens.

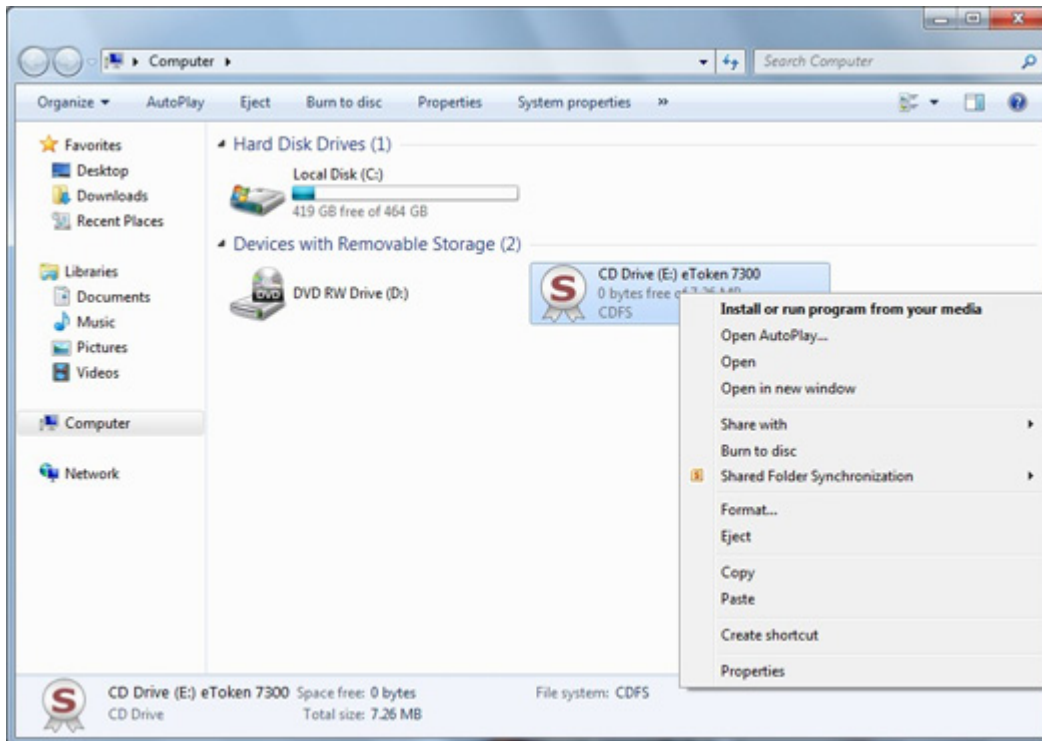


Continue with step 3.

#### NOTE

If the device's user storage is not password-protected, the ETOKEN 7300's *AutoPlay* window opens also.

- 2 If the eToken 7300's *AutoPlay* window is not open, from the computer directory window, right-click the SafeNet drive's **eToken 7300** icon and from the drop-down menu, select **Open AutoPlay**.



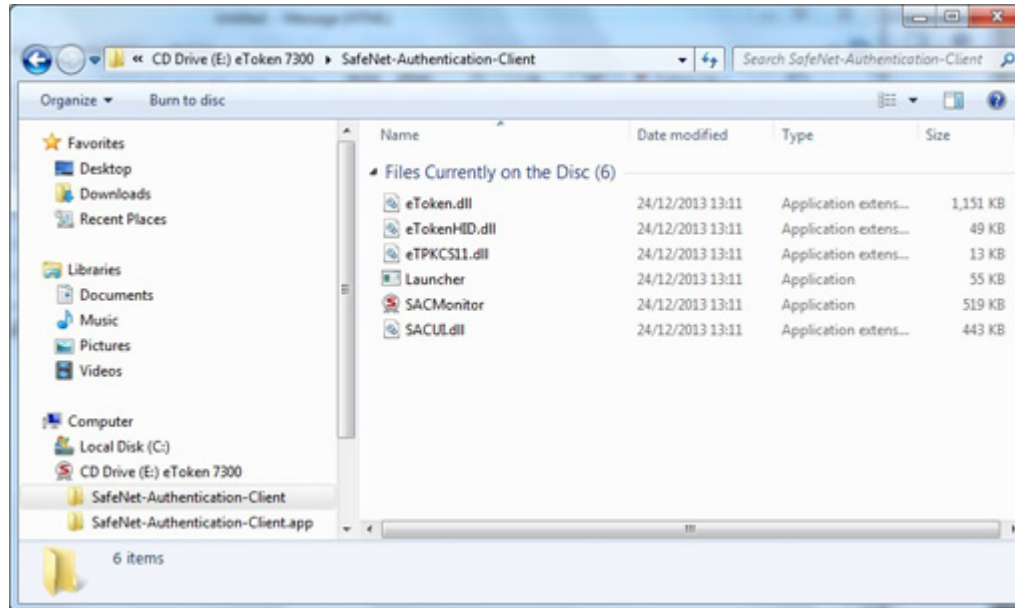
### 3 Select **Run Launcher.exe**.

In the menu bar, the SafeNet eToken 7300 flash tray icon is displayed:



## To run the launcher from the SafeNet-Authentication-Client folder:

- 1 From the computer directory window, open the folder **eToken 7300 > SafeNet-Authentication-Client**.



- 2 Double-click **Launcher**.

In the menu bar, the SafeNet eToken 7300 flash tray icon is displayed:



## Running the Launcher to Open the Tray Icon on Mac

Before running the launcher application on a Mac operating system, ensure that the appropriate reader slots have been allocated. See *Preparing Reader Slots on a Mac* on page 168.

### To run the launcher on a Mac operating system:

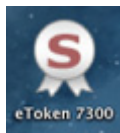
- 1 Connect the SafeNet eToken 7300 device and wait until the operating system recognizes it.

#### NOTE

If the device's user storage is not password-protected, the **ETOKEN 7300** icon is displayed.

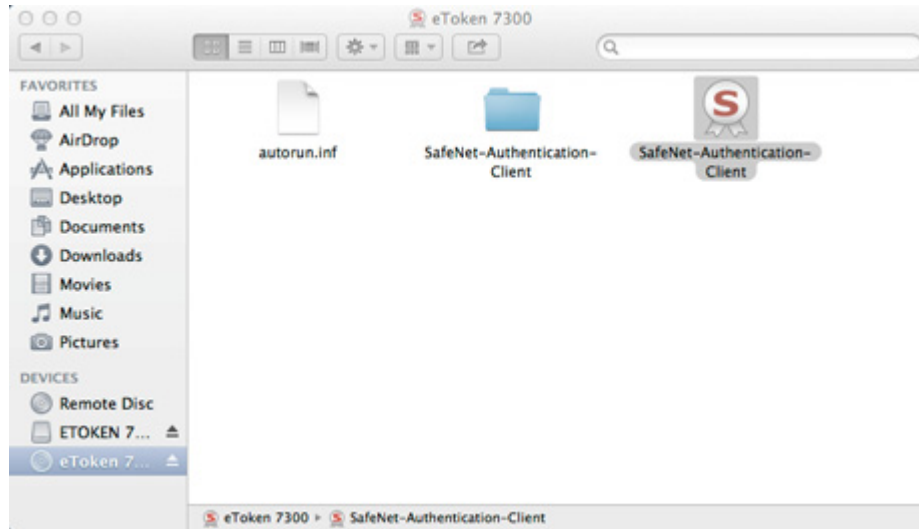
- 2 Do one of the following:

- ◆ If the **eToken 7300** icon is displayed on the desktop, click it.



- ◆ If the **eToken 7300** icon is not displayed on the desktop, click the *Finder* icon, and under *DEVICES*, select **eToken 7300**.

The *eToken 7300* folder contents are displayed.



3 Click the **SafeNet-Authentication-Client** icon.

In the menu bar, the SafeNet eToken 7300 flash tray icon is displayed:



# SafeNet eToken 7300 Tray Menu

The SafeNet eToken 7300 flash tray icon offers the same shortcut menu to token functions as the SafeNet Authentication Client tray icon. If SafeNet Authentication Client is not installed, use the SafeNet eToken 7300 tray menu for token management.

## SafeNet eToken 7300 Tray Menu Functions

The following functions can be accessed quickly by right-clicking the SafeNet eToken 7300 tray menu:

- **About:** displays product version information and license information.
- 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 SafeNet eToken 7300 device is connected.
- **Change Token Password:** opens the *Change Password* window for the selected token. See Chapter 3: *Changing the Token Password*, on page 67.
- **Unlock Token:** opens the *Unlock Token* window for the selected token. See Chapter 3: *Unlocking a Token by the Challenge-Response Method*, on page 71.
- **Certificate Information:** opens the *Token Certificate Information* window for the selected token.

- **Log On to Flash/Log Off from Flash:** displayed when a SafeNet eToken 7300 having a password-protected flash partition is connected. Opens the *Log On to Token* window for the selected token.  
See Chapter 3: *Logging On to the Token as a User*, on page 62.
- **Exit:** closes the SafeNet eToken 7300 flash tray icon.

#### NOTE

The SafeNet eToken 7300 shortcut menu options are identical to the SafeNet Authentication Client shortcut menu options for the connected token.

## Using the SafeNet eToken 7300 Tray Icon

After the launcher application is run, the SafeNet eToken 7300 flash tray icon is displayed in the menu bar:



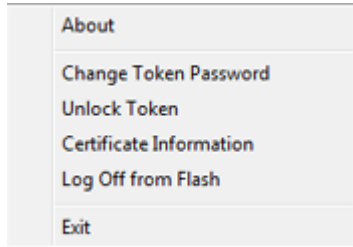
The SafeNet eToken 7300 flash tray icon offers a shortcut menu to the application's functions.

#### NOTE

When using a Mac operating system, click the SafeNet eToken 7300 icon; do not right-click it.

## To open the SafeNet eToken 7300 shortcut menu:

- Right-click the SafeNet eToken 7300 icon.  
The SafeNet eToken 7300 shortcut menu opens.



## Selecting the Token from the SafeNet eToken 7300 Tray Menu

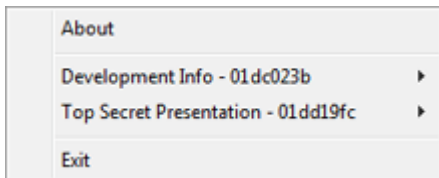
If more than one token is connected, select which token to work with.

### To select from multiple tokens in the SafeNet eToken 7300 tray menu:

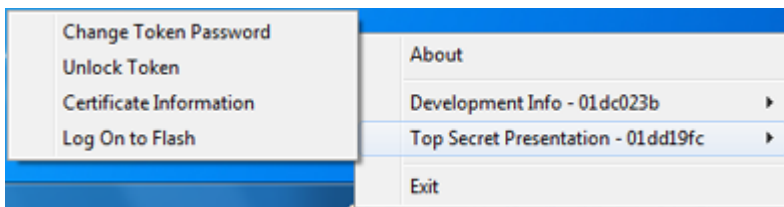
- 1 Right-click the SafeNet eToken 7300 flash tray icon:



- 2 The SafeNet eToken 7300 shortcut menu opens. Among the options, a list is displayed of the names and serial numbers of the connected SafeNet eToken 7300 tokens.



- 3 Hover the mouse over the required token.  
Options for the selected token are displayed.



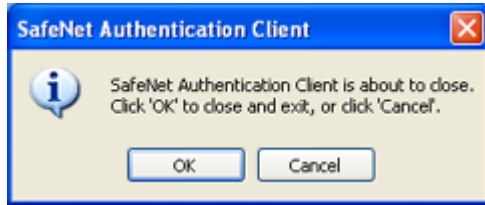
- 4 Select the required option.

## Closing SafeNet eToken 7300

The SafeNet eToken 7300 flash tray icon closes automatically when all connected SafeNet eToken 7300 devices are disconnected.

## To close the SafeNet eToken 7300 tray icon manually:

- 1 Right-click the SafeNet eToken 7300 flash tray icon, and from the shortcut menu, select **Exit**.  
A warning message is displayed.



- 2 Click **OK**.

# SafeNet eToken 7300 User Storage

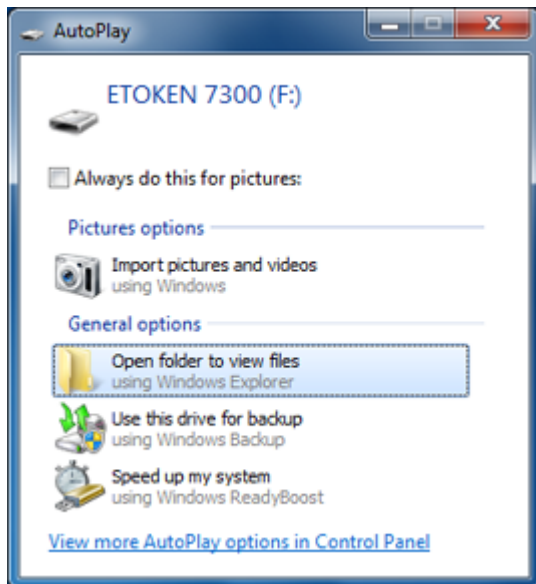
The SafeNet eToken 7300 device includes a flash partition for the storage of user data.

The flash partition can be password-protected.

## Accessing an Unprotected Flash Partition on Windows

**To access a SafeNet eToken 7300 device's user storage that is not password-protected:**

- 1 Connect the SafeNet eToken 7300 device and wait until the operating system recognizes it.  
The ETOKEN 7300's *AutoPlay* window opens.



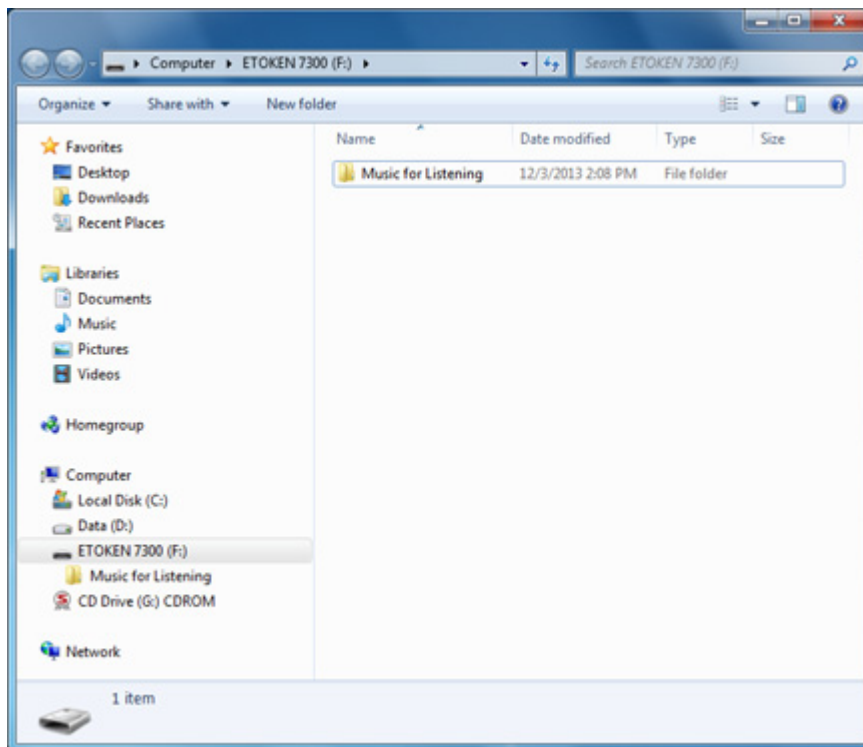
#### NOTE

If the SafeNet eToken 7300 device's flash partition is not password-protected, the contents can be accessed even if SafeNet Authentication Client is not installed and the launcher application is not run.

2 Do one of the following:

- ◆ In the ETOKEN 7300's *AutoPlay* window, select **Open folder to view files**.
- ◆ From the computer directory window, open the SafeNet eToken 7300 device's folder **ETOKEN 7300**.

The user storage contents are displayed.



# Accessing a Protected Flash Partition on Windows

If the SafeNet eToken 7300 device's flash partition is password-protected, the contents of the flash can be accessed only after logging on to the token.

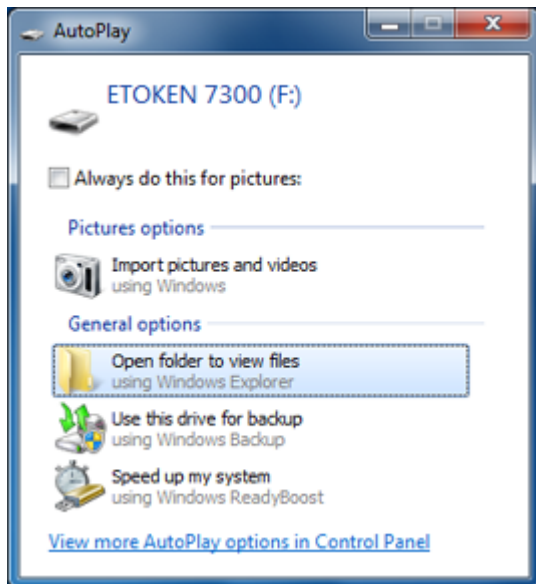
## To access a SafeNet eToken 7300 device's user storage that is password-protected:

- 1 Right-click the SafeNet eToken 7300 flash tray icon, and for the appropriate device, select **Log On to Token**.
- 2 Log on to the token.  
See Chapter 3: *Logging On to the Token as a User*, on page 62.

### NOTE

- ◆ If SafeNet Authentication Client is installed, use the SafeNet Authentication Client tray menu to log on to your token.  
See Chapter 2: *SafeNet Authentication Client Tray Menu*, on page 22.
- ◆ If SafeNet Authentication Client is not installed, use the SafeNet eToken 7300 flash tray menu to log on to your token.  
See *SafeNet eToken 7300 Launcher* on page 156.

The ETOKEN 7300's *AutoPlay* window opens.



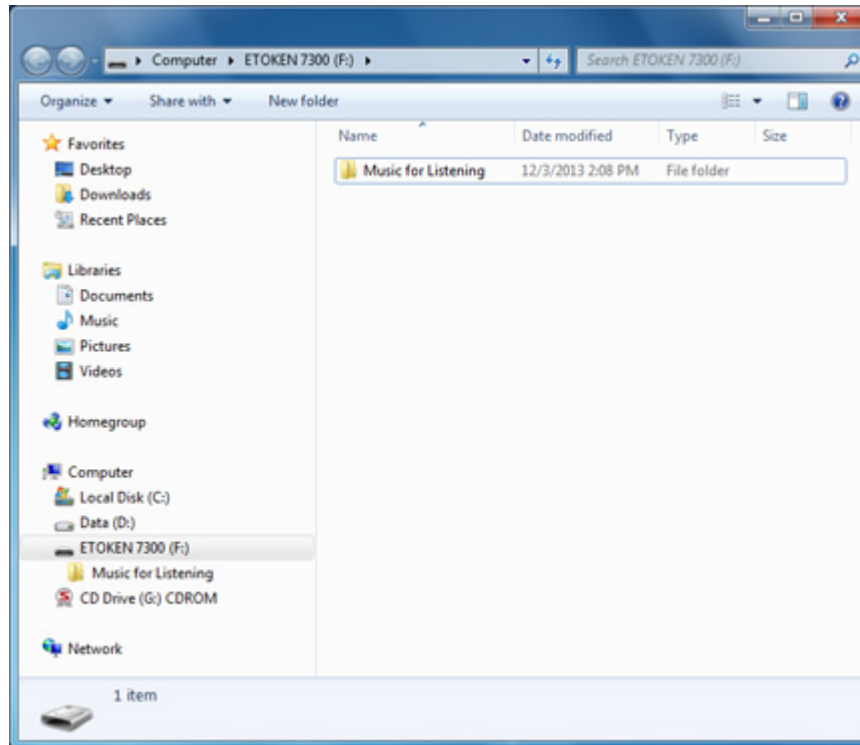
3 Do one of the following:

- ◆ In the EToken 7300's *AutoPlay* window, select **Open folder to view files**.
- ◆ From the computer directory window, open the SafeNet eToken 7300 device's folder **ETOKEN 7300**.

**NOTE**

If the *Log On to Token* window opens, re-enter the Token Password.

The user storage contents are displayed.



# Accessing an Unprotected Flash Partition on Mac

**To access a SafeNet eToken 7300 device's user storage that is not password-protected:**

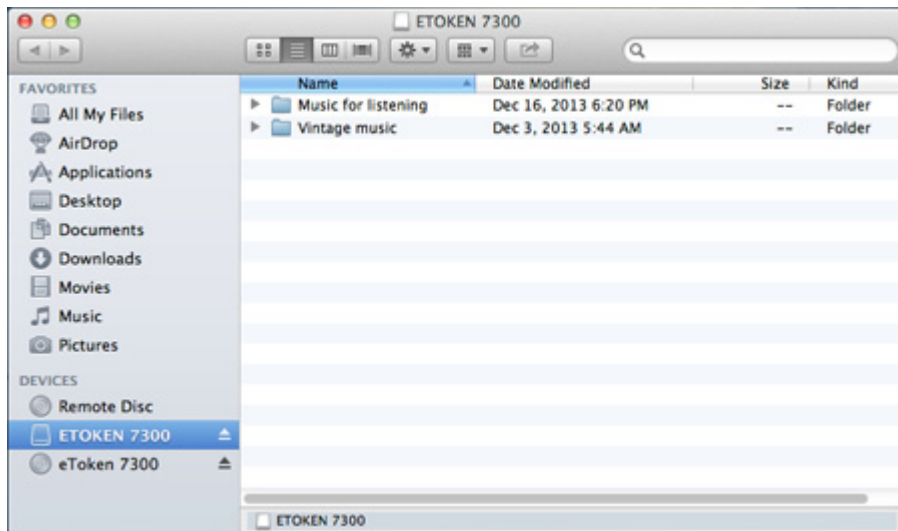
- 1 Connect the SafeNet eToken 7300 device and wait until the operating system recognizes it.  
The **ETOKEN 7300** icon is displayed on the desktop.



## NOTE

If the SafeNet eToken 7300 device's flash partition is not password-protected, the contents can be accessed even if SafeNet Authentication Client is not installed and the launcher application is not run.

- 2 Click the icon.  
The user storage contents are displayed.



## Accessing a Protected Flash Partition on Mac

If the SafeNet eToken 7300 device's flash partition is password-protected, the contents of the flash can be accessed only after logging on to the token.

## To access a SafeNet eToken 7300 device's user storage that is password-protected:

- 1 Right-click the SafeNet eToken 7300 flash tray icon, and for the appropriate device, select **Log On to Token**.
- 2 Log on to the token.  
See Chapter 3: *Logging On to the Token as a User*, on page 62.

### NOTE

- ◆ If SafeNet Authentication Client is installed, use the SafeNet Authentication Client tray menu to log on to your token.  
See Chapter 2: *SafeNet Authentication Client Tray Menu*, on page 22.
- ◆ If SafeNet Authentication Client is not installed, use the SafeNet eToken 7300 flash tray menu to log on to your token.  
See *SafeNet eToken 7300 Launcher* on page 156.

The **ETOKEN 7300** icon is displayed on the desktop.



### NOTE

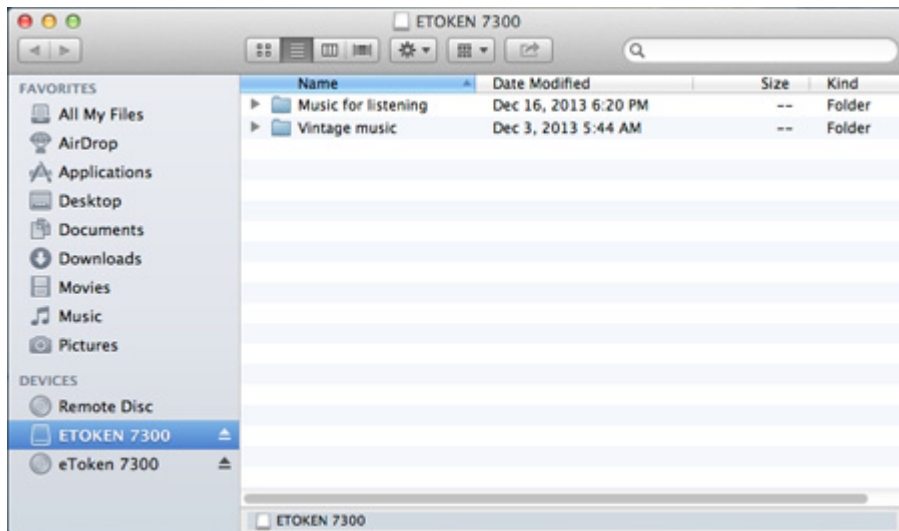
If the SafeNet eToken 7300 device's flash partition is not password-protected, the contents can be accessed even if SafeNet Authentication Client is not installed and the launcher application is not run.

- 3 Click the icon.

## NOTE

If the *Log On to Token* window opens, re-enter the Token Password.

The user storage contents are displayed.



# Partitioning the SafeNet eToken 7300

You can partition your SafeNet eToken 7300 device's flash storage area. The partitioning process allows you to do the following:

- Divide the flash drive into a DVD partition and a user storage partition
- Configure the flash drive partitioning settings

The partitioning process can take several minutes. After entering your token's *Administrator Password* to begin the partitioning process, do not disconnect your token until a confirmation message is displayed.

## NOTE

To enable the use of the SafeNet eToken 7300 flash tray icon, ensure that the ISO file or other content written to the DVD partition includes the contents of the SafeNet default ISO file.

Either one of the following can be performed on the SafeNet eToken 7300:

- **Partition without initialization:** Replace the flash drive's DVD partition and user storage partition.
- **Initialize and partition:** Before the partition process is run, deletes the data from the smartcard and writes new data to it.

## To partition the SafeNet eToken 7300:

### 1 Do one of the following:

- ◆ To partition the SafeNet eToken 7300 without initializing the token:
  - i Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
  - ii In the left pane, right-click the node of the required SafeNet eToken 7300, and select **Partition Flash Drive** from the shortcut menu.
- ◆ To initialize and partition the SafeNet eToken 7300:
  - i Open the *Token Initialization* window.  
See Chapter 4: *Configuring Initialization Settings*, on page 122.
  - ii Set the required initialization settings.
  - iii Click the **Partitioning Settings** link.

The *Flash Drive Partitioning* window opens.



#### NOTE

When partitioning the SafeNet eToken 7300 without initialization, the **OK** button is replaced by a **Start** button.

2 In the *DVD source* drop-down list, select one of the following options:

- ◆ **Burn SafeNet default ISO file:** burns the SafeNet default ISO file located in the SAC folder
- ◆ **Burn ISO file:** burns an ISO file located elsewhere on the computer
- ◆ **Copy from ROM drive:** copies files from the selected CD ROM drive
- ◆ **Copy from folder:** copies an entire folder from the computer

**NOTE**

Depending on your *DVD source* selection, other *DVD* fields are enabled.

- ◆ **Burn SafeNet default ISO file:** no other fields are enabled
- ◆ **Burn ISO file:** the *Path* field is enabled
- ◆ **Copy from ROM drive:** the *Drive* field is enabled
- ◆ **Copy from folder:** the *Path* and *Label* fields are enabled

The *Flash Drive Partitioning* window includes the following details:

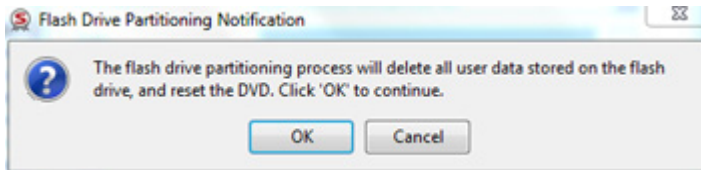
- ◆ **Size:** total size of the flash memory (DVD + user storage)
- ◆ The *Protection* area determines the token contents' security level:
  - **Repartitioning:** password-protection requirements for future partitioning

**NOTE**

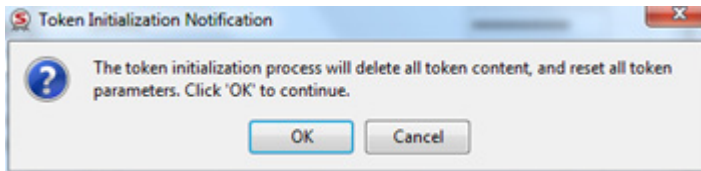
For future partitioning without initialization to be password-protected, the token must be initialized with an Administrator Password.

- **User storage:** select the password requirements for accessing the user storage

- ◆ In the *Boot* section, select which contents to load when the SafeNet eToken 7300 device is connected:
  - **DVD**
  - **User storage**
- 3 When the partitioning is part of the initialization process, click **OK**.
- 4 Click **Start**.
  - ◆ When partitioning without initialization, the *Flash Drive Partitioning Notification* window opens.

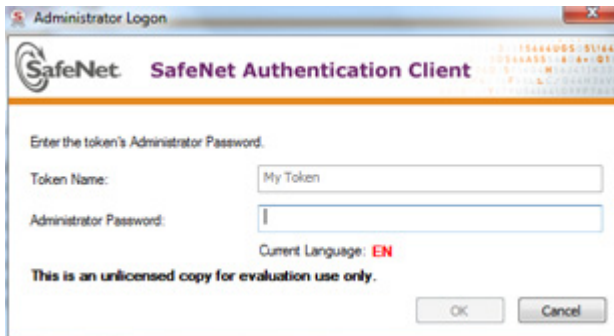


- ◆ When initializing the token, the *Token Initialization Notification* window opens.



- 5 Click **OK**.

The *Administrator Logon* window opens.



Enter the token's *Administrator Password*.

**6** Click **OK**.

**NOTE**

The partitioning process can take several minutes. Do not disconnect the token until a confirmation message is displayed.

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

**7** Click **OK**.

**NOTE**

If a Microsoft Windows message opens prompting you to format the disk, click **Cancel**.

The system identifies your device as a newly connected token, and the *AutoPlay* window opens.





# 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 8: *Token Settings* on page 204.

## In this chapter:

- Setting 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 the SafeNet Authentication Client Tray Icon
- Defining Automatic Logoff
- Enabling Logging

# Setting Password Quality

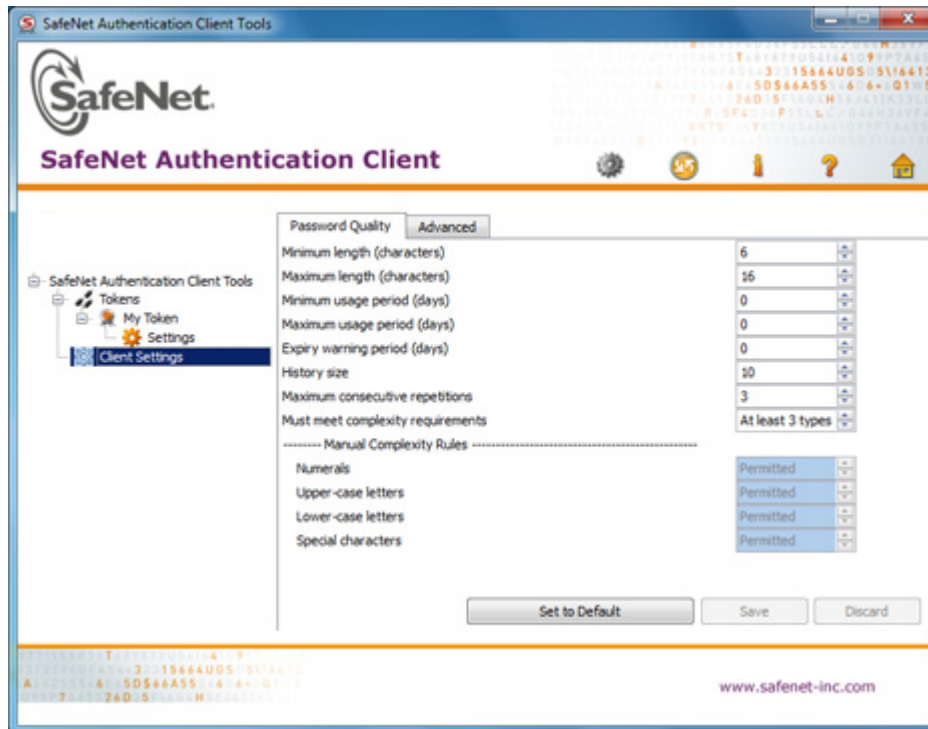
The *Password Quality* feature enables the administrator to set certain complexity and usage requirements for Token Passwords.

## 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:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 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 8: *Setting Token Password Quality* on page 205.

- ◆ 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.

# 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, ensuring that the certificates are readily available when using the token on a different computer.

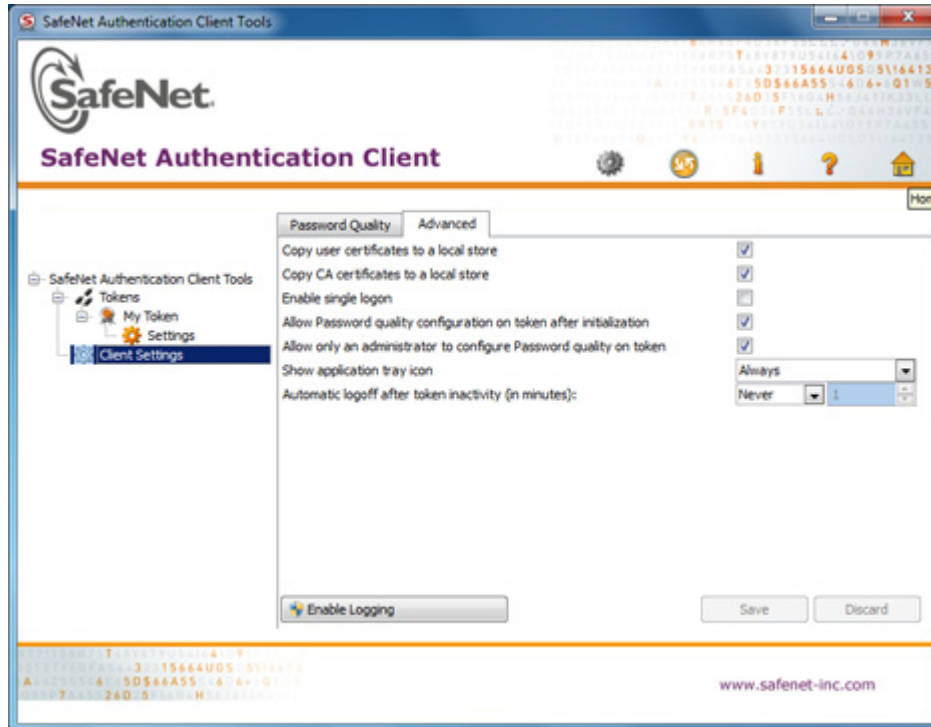
Use the **Copy user certificates to a local store** option to control the automatic installation of the token's user certificates to the local certificate store upon token connection.

This option is selected by default.

## To automatically install the token's user certificates to the local store:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 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

When a token is connected to a computer, the system may detect that one or more CA certificates that are installed on the token are not installed on the computer.

Use the **Copy CA certificates to a local store** option to control the automatic installation of the token's CA certificates to the local certificate store upon token connection.

## NOTE

Microsoft displays a security warning when it detects that CA certificates are to be installed to the local store. To permit the certificates to be installed from the token, the user must click **Yes**.

This option is selected by default.

## To automatically install the token's CA certificates to the local store:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, select **Client Settings**.
- 3 In the right pane, 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

When single logon is set using SafeNet Authentication Client Tools, Windows Logon is not included in the single logon process. Only an administrator can configure Windows Logon as single logon.

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 35.
- 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**.

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

# Allowing Password Quality Configuration on Token after Initialization

## NOTE

This feature is not supported by iKey tokens.

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

### To enable password quality configuration after initialization:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 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

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 token:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 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**.

- 5 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:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 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 still connected.

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 35.
- 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 function creates a log of SafeNet Authentication Client activities.

## NOTE

You must have administrator privileges to use the logging function.

The log files are located at: `C:\WINDOWS\Temp\eToken.log`

### To activate the logging function:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 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:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, select **Client Settings**.

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

# 8

## Token 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 7: *Client Settings* on page 185.

### In this chapter:

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

# Setting Token Password Quality

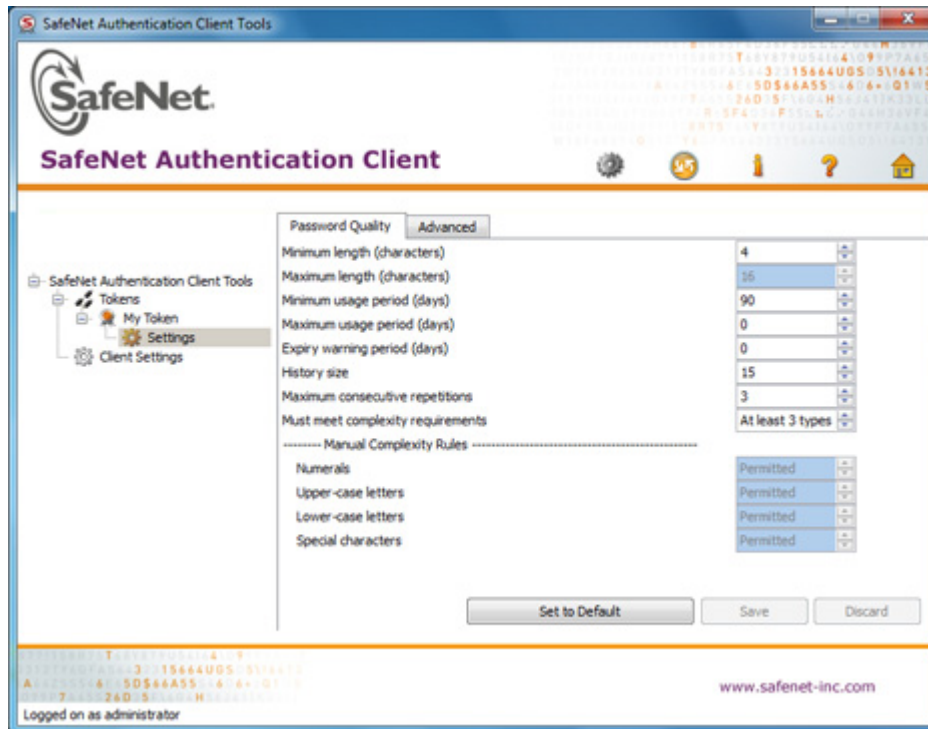
If a token is initialized after Token Password quality parameters are set for the token, all future Token Passwords are automatically checked against these parameters to determine the password's level of acceptability.

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

If an iKey token was initialized in BSec Utilities, its password quality parameters will continue to be supported by SafeNet Authentication Client.

## To set password quality for a token:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, expand the node of the required token, and select **Settings**.
- 3 In the right pane, select the **Password Quality** tab.
- 4 The *Password Quality* tab opens.



**5** 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)	<p>The maximum period, in days, before which the password must be changed.</p> <p>Default: 0 (none)</p> <p>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.</p>
Minimum usage period (days)	<p>The minimum period before the password can be changed.</p> <p>Default: 0 (none)</p> <p>For iKey devices, the periods are rounded up to periods of weeks. See row above for more information.</p>
Expiration warning period (days)	<p>Defines the number of days before the password expires that a warning message is shown.</p> <p>Default: 0 (none)</p>
History size	<p>Defines how many previous passwords must not be repeated.</p> <p>Default:</p> <p>For eToken devices - 10</p> <p>For iKey devices - 6</p>

Password Quality Parameter	Description (Cont.)
Maximum consecutive repetitions	<p>The maximum number of repeated characters that is permitted in the password.</p> <p>Default: 3</p> <p>This feature is not supported by iKey devices.</p>
Must meet complexity requirements	<p>Determines the complexity requirements that are required in the Token Password.</p> <ul style="list-style-type: none"> <li>◆ <b>At least 2 types:</b> a minimum of 2 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced.</li> <li>◆ <b>At least 3 types:</b> a minimum of 3 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced (Default).</li> <li>◆ <b>None:</b> Complexity requirements are not enforced.</li> <li>◆ <b>Manual:</b> Complexity requirements, as set manually in the <i>Manual Complexity</i> settings, are enforced.</li> </ul>
Manual complexity rules	<p>For each of the character types (<b>Numerals</b>, <b>Upper-case letters</b>, <b>Lower-case letters</b>, and <b>Special characters</b>) select one of the following options:</p> <ul style="list-style-type: none"> <li>◆ <b>Permitted</b> - Can be included in the password, but is not mandatory (Default).</li> <li>◆ <b>Mandatory</b> - Must be included in the password.</li> <li>◆ <b>Forbidden</b> - Must not be included in the password.</li> </ul> <p><b>Note:</b> The <b>Forbidden</b> option is not supported by iKey devices.</p>

**6** 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

## NOTE

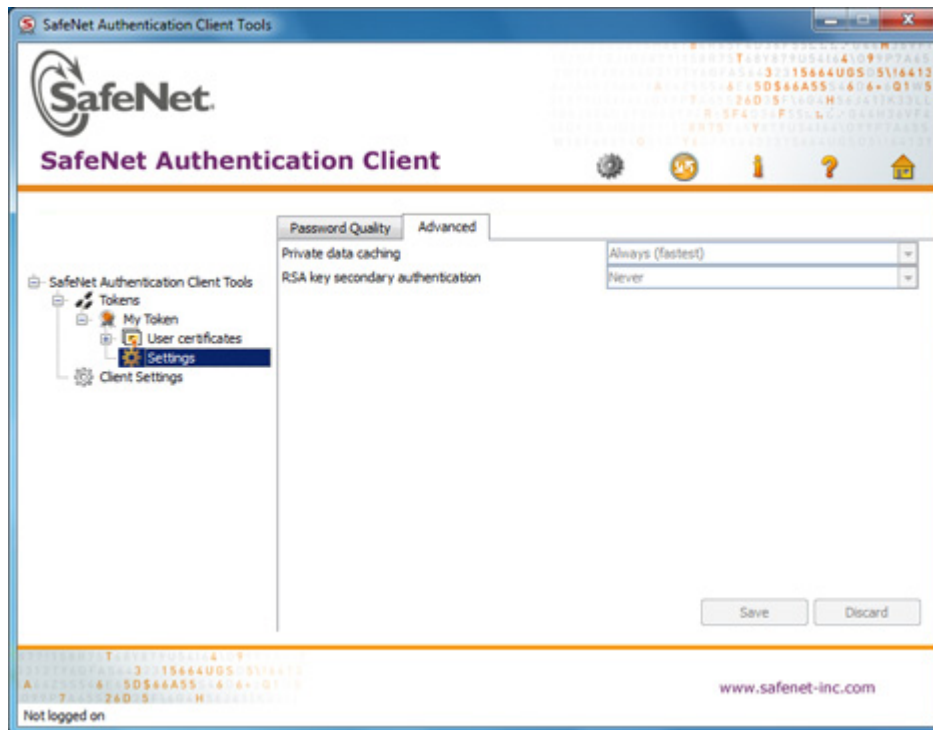
This feature is not supported by iKey devices.

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

This setting defines when private information (excluding private keys) 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 35.
- 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 RSA Key Secondary Authentication

## NOTE

This feature is not supported by iKey devices.

An authentication password may be set for an RSA key. In addition to having the token and knowing its Token Password, accessing the RSA key may require knowing the password for that particular key.

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

### To set RSA key secondary authentication:

- 1 Open SafeNet Authentication Client Tools *Advanced* view.  
See *Opening the Advanced View* on page 35.
- 2 In the left pane, expand the node of the required token, and select **Settings**.
- 3 In the right pane, select the **Advanced** tab.
- 4 In the *RSA key secondary authentication* field, select one of the following:
  - ◆ Always
  - ◆ Always prompt user
  - ◆ Prompt user on application request
  - ◆ Never
  - ◆ Token authentication on application request

## NOTE

For an explanation of these options, see Chapter 4: *Setting the RSA Key Secondary Authentication Field* on page 130.

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

# 9

# 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.

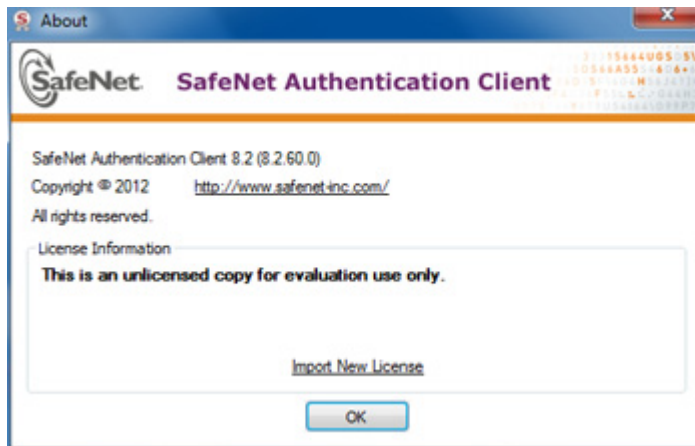
## To view and import licenses:

**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 *Opening the Advanced View* on page 35.  
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.