

# SafeNet Authentication Client WINDOWS USER GUIDE



# **Document Information**

#### **Document Information**

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# **PREFACE:** About this Document

This document describes the operational and administrative tasks you can perform to maintain the functionality and efficiency of your SafeNet Authentication Client.

This section also identifies the audience, explains how to best use the written material, and discusses the documentation conventions used. They are:

- > "Audience" below
- > "Document Conventions" below
- > "Support Contacts" on page 9

For information regarding the document status and revision history, refer to "Document Information" on page 2.

# Audience

This document is intended for personnel responsible for maintaining your organization's security infrastructure. This includes SAC users and administrators.

All products manufactured and distributed by Thales Group are designed to be installed, operated, and maintained by personnel who have the knowledge, training, and qualifications required to safely perform the tasks assigned to them. The information, processes, and procedures contained in this document are intended for use by trained and qualified personnel only.

It is assumed that the users of this document are proficient with security concepts.

# **Document Conventions**

This section describes the conventions used in this document.

## Command Syntax and Typeface Conventions

This document uses the following conventions for command syntax descriptions, and to highlight elements of the user interface.

Format	Convention
bold	<ul> <li>The bold attribute is used to indicate the following:</li> <li>Command-line commands and options that you enter verbatim (Type dir /p.)</li> <li>Button names (Click Save As.)</li> <li>Check box and radio button names (Select the Print Duplex check box.)</li> <li>Dialog box titles (On the Protect Document dialog box, click Yes.)</li> <li>Field names (User Name: Enter the name of the user.)</li> <li>Menu names (On the File menu, click Save.) (Click Menu &gt; Go To &gt; Folders.)</li> <li>User input (In the Date box, type April 1.)</li> </ul>
italics	In type, the italic attribute is used for emphasis or to indicate a related document. (See the <i>Installation Guide</i> for more information.)
<variable></variable>	In command descriptions, angle brackets represent variables. You must substitute a value for command line arguments that are enclosed in angle brackets.
[ <b>optional</b> ] [ <optional>]</optional>	Represent optional <b>keywords</b> or <variables> in a command line description. Optionally enter the keyword or <variable> that is enclosed in square brackets, if it is necessary or desirable to complete the task.</variable></variables>
{ <b>a b c</b> } { <a> <b> <c>}</c></b></a>	Represent required alternate <b>keywords</b> or <variables> in a command line description. You must choose one command line argument enclosed within the braces. Choices are separated by vertical (OR) bars.</variables>
[ <b>a b c]</b> [ <a> <b> <c>]</c></b></a>	Represent optional alternate keywords or variables in a command line description. Choose one command line argument enclosed within the braces, if desired. Choices are separated by vertical (OR) bars.

## Notifications and Alerts

Notifications and alerts are used to highlight important information or alert you to the potential for data loss or personal injury.

#### Tips

Tips are used to highlight information that helps to complete a task more efficiently.

TIP This is some information that will allow you to complete your task more efficiently.

#### Notes

Notes are used to highlight important or helpful information.

**NOTE** Take note. Contains important or helpful information.

#### Cautions

Cautions are used to alert you to important information that may help prevent unexpected results or data loss.

**CAUTION!** Exercise caution. Contains important information that may help prevent unexpected results or data loss.

#### Warnings

Warnings are used to alert you to the potential for catastrophic data loss or personal injury.

**\*\*WARNING\*\*** Be extremely careful and obey all safety and security measures. In this situation you might do something that could result in catastrophic data loss or personal injury.

# Support Contacts

If you encounter a problem while installing, registering, or operating this product, please refer to the documentation before contacting support. If you cannot resolve the issue, contact your supplier or Thales Customer Support.

Thales Customer Support operates 24 hours a day, 7 days a week. Your level of access to this service is governed by the support plan arrangements made between Thales and your organization. Please consult this support plan for further information about your entitlements, including the hours when telephone support is available to you.

#### **Customer Support Portal**

The Customer Support Portal, at https://supportportal.thalesgroup.com, is where you can find solutions for most common problems. The Customer Support Portal is a comprehensive, fully searchable database of support resources, including software and firmware downloads, release notes listing known problems and workarounds, a knowledge base, FAQs, product documentation, technical notes, and more. You can also use the portal to create and manage support cases.

**NOTE** You require an account to access the Customer Support Portal. To create a new account, go to the portal and click on the **REGISTER** link.

#### Telephone

The support portal also lists telephone numbers for voice contact (Contact Us).

# **CHAPTER 1:** Introduction

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

SAC 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.

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

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

# **CHAPTER 2:** SafeNet Authentication Client User Interface

This section describes the SafeNet Authentication Client (SAC) 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.

**NOTE** In some instances, the word *Password* is replaced by *PIN* or *Passcode*.

# Overview

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

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

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

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

SAC provides two user interfaces:

- > "SafeNet Authentication Client Tray Icon" below
  - For quick access to several token operations.
- > "SafeNet Authentication Client Tools" on page 13
  - Provides information about each connected token, including its identification and capabilities.
  - Allows to access information stored on each connected token, such as keys and certificates.
  - Enables management of token content, such as password policy.

# SafeNet Authentication Client Tray Icon

The SAC tray icon offers a shortcut menu to several token operations, and the tray icon is displayed as follows:

No Tokens Connected	One Token Connected	Multiple Tokens Connected
Q	S	S

## Running the SafeNet Authentication Client Monitor

The SAC tray icon is displayed only when the SAC Monitor is running.

**NOTE** If SAC is open and the tray icon is not displayed in the task bar, refer to "Show application tray icon" on page 81.

#### To open SafeNet Authentication Client Monitor:

On Windows: From the taskbar, select Start > All 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.
- > **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. Refer to "Changing the Token Password" on page 32.
- > Unlock Token: Opens the Unlock Token window for the selected token. Refer to "Activating a Token" on page 34.
- > Certificate Information: Opens the Token Certificate Information window for the selected token.
- > Exit: Closes SafeNet Authentication Client and the tray icon.

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

- > Delete Token Content: Removes the deletable data from the selected token
- > **Synchronize Password:** Synchronizes your token password with your domain password. Use this feature only when requested by your administrator.
- > Token Activation: Activates a token that's protected with an Activation PIN.

## Opening the SafeNet Authentication Client 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 the required token from the tray menu by performing the following steps:

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

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

Tools	
About	
Card #35DB917212B0E366 - 35DB917212B0E366	>
SafeNet eToken 5110 - 02bb0f6b	>
Exit	

2. Select the required token.

Options for the selected token are displayed.

		Tools	
		About	
	Change Token PIN	Card #35DB917212B0E366 - 35DB917212B0E366	>
	Unlock Token	SafeNet eToken 5110 - 02bb0f6b	>
Certificate Information	Exit		

3. Select the required option.

## **Closing SafeNet Authentication Client Monitor**

Perform the following steps to close SafeNet Authentication Client monitor:

1. Right-click the **SafeNet Authentication Client** tray icon, and select **Exit**.

A warning message is displayed.

2. Click OK.

# SafeNet Authentication Client Tools

SafeNet Authentication Client Tools includes two viewing options:

1. Simple View: To perform common tasks.

Refer to "Opening the Simple View" on the next page.

2. Advanced View: For extensive control over SafeNet Authentication Client and your connected tokens.

Refer to "Opening the Advanced View" on page 16.

Each view displays two panes:

- 1. The left pane indicates which token (Simple View) or which object (Advanced View) is to be managed.
- 2. 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.

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

# SafeNet Authentication Client Tools 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:

lcon	Action
	Advanced View – Switches from the Simple View to the Advanced View
٢	Simple View – Switches from the Advanced View to the Simple View
<b>5</b>	<b>Refresh</b> – Refreshes the data for all connected tokens
1	About – Displays product version information
?	<b>Help</b> – Opens the <i>Help</i> feature
	Home – Opens the company website (cpl.thalesgroup.com/)

## **Opening the Simple View**

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

Perform the following step:

- 1. Do one of the following:
  - Right-click the SafeNet Authentication Client tray icon, and select Tools.
  - From the taskbar, select Start > All Programs > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client Tools.

The SafeNet Authentication Client Tools window is displayed in the Simple View.

			TI	-1	L	ES
SafeNet Authe	enticati	on Client 🛛 🧔	20 🕸	i	?	
Card #35DB917212B0E366	1	Rename Token				
SafeNet eToken 5110	****	Change Token Password				
		Unlock Token				
	$\otimes$	Delete Token Content				
	Q	View Token Info				
< >						
			tha	lesgr	oup.co	m

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.

lcon	Token Type
	Token Connected For a full list of supported devices, refer to <i>SafeNet Authentication Client Release Notes</i> .
$\checkmark$	Smart Card reader – no card connected
	Smart Card reader – card connected For a full list of supported devices, refer to <i>SafeNet Authentication Client Release Notes</i> .

Icon	Token Type
	Token with corrupted data This icon is also displayed when connecting a device needed to activate using an Activation PIN, refer to "Activating a Token" on page 34
P	Unknown token

## **Simple View Functions**

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

Function	Description
Rename Token	Sets a new name for the token
Change Token Password	Changes the token password
Unblock Token	Unblocks the token and resets the token password
Delete Token Content	Removes deletable data from the token (enabled by default)
View Token Info	Provides detailed information about the token

## Opening the Advanced View

The *SafeNet Authentication Client Tools* > *Advanced View* provides additional token management functions. Perform the following steps:

- 1. Do one of the following:
  - Right-click the SafeNet Authentication Client tray icon, and select Tools.
  - From the taskbar, select Start > All Programs > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client Tools.

The SafeNet Authentication Client Tools window is displayed in the Simple View.

2. Click the Advanced View icon.

The SafeNet Authentication Client Tools window is displayed in the Advanced View.

		THAL	ES		
SafeNet Auth	entication Clie	ent 💿 💁 👔 🤋	r		
SafeNet Authentication Client Tools	🥺 🖡 📮 🛅 🔪 👘 🔛 🔐	S   🗳			
Card #35DB917212B0E366	Token name	Card #35DB917212B0E366	-		
Settings	Token category	Hardware			
SafeNet eToken 5110	Reader name	Broadcom Corp Contacted SmartCard 0			
Settings	Serial number (PKCS#11)	35DB917212B0E366			
	Free space	80744			
	Card ID (GUID)	0x9A8000004BA83C789A8000004BA83C78			
	Product name	IDPrime 3930			
	Card type	IDPrime			
	Applet Version	IDPrime Java Applet 4.5.0.E			
	Mask version	G286			
	Token Password	Present			
	Token Password retries remaining	5			
	Maximum Token Password retries	5	-		
	Token Password expiration	No expiration			
	Administrator Password	Present			
	Administrator Password retries remaining	5			
	Maximum administrator Password retries	5			
< >	FIPS	FIPS 140-2 L2			
		thalesgroup.co	m		

**NOTE** For IDPrime SIS 840/ 940 SIS /IDClassic 410 cards, the **SIS ID** is present in the *Advanced View*.

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

## **Advanced View Functions**

You can access the advanced functions by selecting the required object from the left pane in the *SafeNet Authentication Client Tools* > *Advanced View* window.

Perform the following steps to access the advanced functions:

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

The relevant functions are displayed in the right pane.

- 2. Do one of the following:
  - In the left pane, right-click the object, and select the required function.
  - 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, a list of connected tokens is displayed in the right pane.

		THALES
SafeNet Authe	ntication Client	🏶 💿 🧎 <b>?</b> 🎰
SafeNet Authentication Client Tools	Card #35DB917212B0E366 SafeNet eToken 5110	
٢ >		
		thalesgroup.com

## Selected Token Node

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

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

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

The following user functions are available:

User Function	lcon	Right-Click Menu Item
Initialize Token Refer to "Token Initialization" on page 49		Initialize Token

User Function	lcon	Right-Click Menu Item
Log On to Token Refer to "Logging On to the Token as a User" on page 31	<b>P</b>	Log On to Token
Import Certificate Refer to "Importing a Certificate to a Token" on page 36		Import Certificate
Change Password Refer to "Changing the Token Password" on page 32		Change Password
Rename Token Refer to "Renaming a Token" on page 31		Rename Token
Copy to Clipboard Refer to "Viewing and Copying Token Information" on page 30		(None)
Change Digital Signature PIN Refer to "Change Digital Signature PIN" on page 85	9	Change Digital Signature PIN
Change Digital Signature PUK Refer to "Change Digital Signature PUK" on page 86	<b>*</b>	Change Digital Signature PUK
Set Digital Signature PIN Refer to "Set Digital Signature PIN" on page 87	*	Set Digital Signature PIN

**NOTE** Depending on the token type, additional options may be displayed in the drop-down 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:



The following administrator functions are available:

User Function	lcon	Right-Click Menu Item
Log on as Administrator Refer to "Logging On to the Token as an Administrator" on page 40	<b>P</b>	Log on as Administrator

User Function	lcon	Right-Click Menu Item
Change Administrator Password Refer to "Changing the Administrator Password" on page 41		Change Administrator Password
Unlock Token Refer to "Unlocking a Token by the Challenge-Response Method" on page 42	<b>∎</b> ∩	Unlock Token
Set Token Password Refer to "Setting a Token Password by an Administrator" on page 44		Set Token Password

## Certificate Type Node

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

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

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

					TH	IALES
SafeNet Authe	ntica	atio	n Clie	nt	@ 😳 i	1 ? 🖻
afeNet Authentication Client Tools	<b>,</b>					
	Issued To	Issued By	Expiration Date	Purposes		
<ul> <li>Image: Second ender end</li></ul>	Le la	user	30-Sep-2022	All application policies		
<u>‹</u>						
					that	esgroup.com

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

User Function	lcon	Right-Click Menu Item
Import Certificate Refer to "Importing a Certificate to a Token" on page 36		Import Certificate
Reset Default Certificate Selection Refer to "Clearing a Default Certificate" on page 39	<b></b>	Reset Default Certificate Selection

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

## **Common Criteria Certificates**

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

Common Criteria certified devices require a common criteria certificate to be imported onto the token/card. This provides an extra authentication layer for digital signing purposes. Refer to "Importing Common Criteria Certificates" on page 37.

**NOTE** Standard Common Criteria devices support only ECC 256. For more information, refer to IDPrime documentation.

For a full list of devices supporting CC Certificates, refer to SafeNet Authentication Client Release Notes.

## **ECC Certificates**

ECC Certificates are supported by eTokens and IDPrime cards.

For a full list of devices supporting ECC Certificates, refer to SafeNet Authentication Client Release Notes.

## 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.

		THALE	s
SafeNet Authe	ntication	Client 🛛 💩 🔹 🤋 🚖	
SafeNet Authentication Client Tools 4-5 Tokens	ia a a		
<ul> <li>Card #A11869702A8FB9DE</li> </ul>	Certificate:		
User certificates     Sourt Test Exchange DSA	Serial number	6E 4D 5A 48 42 7C EB 36	
Settings	Issued to	Sejuti Test Exchange RSA	
A 👷 RCMP-GRC	Issued by	Thales Training Root CA	
🛶 🔆 Settings	Valid from	22-Apr-2021	
- 🎲 Client Settings	Valid to	22-Apr-2026	
	Intended purposes	Client Authentication, Secure Email	
	Friendly name	<none></none>	
	State	Valid	
	Private key:		
	Cryptographic Provider	Microsoft Base Smart Card Crypto Provider	
	Container name	p11#b969a37feb2a4980	
	Modulus	DA 0A 56 A2 DE 12 8D AE CA 26 D8 17 83 52 E3 5D 57 0A 0D 2	29
	Key size	2048 bits	
	Key specification	AT_KEYEXCHANGE	
	Default key container	Yes	
	Auxiliary key container	Yes	
۰ III +	Token authentication o	No	
		thalesgroup.co	m

Some or all of the following functions are available:

User Function	Icon	Right-Click Menu Item
Delete Certificate Refer to "Deleting a Certificate" on page 40	R	Delete Certificate

User Function	Icon	Right-Click Menu Item
Export Certificate Refer to "Exporting a Certificate from a Token" on page 39		Export Certificate
Set as Default Refer to "Setting a Certificate as Default or Auxiliary" on page 47	(None)	Set as Default
Set as Auxilliary Refer to "Setting a Certificate as Default or Auxiliary" on page 47	(None)	Set as Auxiliary
Copy to Clipboard Refer to"Viewing and Copying Token Information" on page 30		(None)
Set as KSP / Set as CSP Refer to "Setting a Certificate as KSP or CSP" on page 47	(None)	Set as KSP / Set as CSP

## Settings Node

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

nt	<b>@</b>	
		170
Numerals:	8 20 0 0 10 3 At least 3 ty	- + - + - + - + - + - + - + pes •
Special charae	ve	nitted 👻 Discard
	Numerals: Special charae	8 20 0 0 0 10 3 At least 3 ty Special characters: Perm Perm Perm Perm

The following tabs exist for IDPrime and Common Criteria devices:

> PIN Quality

Refer to "Setting IDPrime PIN Quality (PIN Quality Tab)" on page 71.

> Advanced

Refer to "Setting IDPrime PIN Properties (Advanced Tab)" on page 73.

The following tabs exist for eToken devices:

> Password Quality

Refer to "Setting eToken Password Quality (Password Quality Tab)" on page 68.

> Advanced

Refer to "Setting eToken Advanced Properties (Advanced Tab)" on page 70.

## **Client Settings Node**

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

		THALES
Safeivet Auther	ntication Client	🏶 😳 🧯 🥐 🎰
afeNet Authentication Client Tools	Password Quality Advanced	
<ul> <li>Tokens</li> <li>Broadcom Corp Contacted SmartCard 0</li> <li>SafeNet eToken 5110</li> <li>Settings</li> <li>Client Settings</li> </ul>	Minimum length (characters):	8
	Maximum length (characters): Minimum usage period (days):	
	Expiration warning period (days):	
	Maximum consecutive repetitions:	
	Must meet complexity requirements: Manual Complexity Rules	At least 3 types V
	Lower-case letters: Permitted V Special of S	haracters: Permitted V
٤	Set to Default	Save Discard
		thalesgroup.com

The changes you make to the *Client Settings* window affects eToken devices (excluding eToken CC) that is initialized using this computer after the changes have been saved.

Similar to the Settings window, the Client Settings window contains two tabs:

- > Password Quality
- > Advanced

Refer to "Client Settings" on page 77

## Data Objects Node

Tokens used with some applications (for example, Entrust) have a *Data Objects* node, which contains PKCS#11 data objects.

			THALES
SafeNet Auth	enticatio	n Client	a 💿 i ? 📾
SafeNet Authentication Client Tools	<b>#</b>		
Card #4B80A3706721FD58	Attribute CKA_CLASS CKA_TOKEN CKA_PRIVATE CKA_LABEL CKA_APPLICATION CKA_VALUE (Size) CKA_VALUE (hex) CKA_VALUE (UTF-8)	Value CKO_DATA TRUE FALSE Data for test 90893E31 8 bytes 01 23 45 67 89 AB CD EF I⊯Eg♦♦♦♥	
<u> </u>	>		thalesgroup.com

#### To view the contents of a data object

Perform the following steps:

1. In the left pane, under the **Tokens** 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

Perform the following steps:

- 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

Perform the following steps:

- 1. In the left pane, under the Tokens 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

Perform the following steps:

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

## 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.

SafeNet V	irtual Keyboard
•	1 2 3 4 5 6 7 8 9 0 - = \ Backspace
	q w c r t y u i o p [ ]
CapsLo	xkasdfohjki;
	z x c v b n m , . /

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

- > Token Logon
- > Change Password

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

# Validating Binary Signatures

This feature verifies the integrity of SafeNet Authentication Client binary files. SAC binary (dll and exe files) signatures can be validated using the About window in SAC Tools.

The binary verification process is performed via the standard Windows functionality (WinVerifyTrust).

WinVerifyTrust checks the following:

> The certificate used to sign the file chains up to a root certificate located in the trusted root certificate store.

This implies that the identity of the publisher has been verified by a certification authority.

> The end entity certificate has sufficient permission to sign code.

## **Verified Binaries**

The verified binaries are located under c:\windows\System32 and c:\windows\SysWoW64.

The following binaries are verified:

- > etCAPI.dll
- > etCoreInst.dll
- > eTOKCSP.dll
- > eToken.dll
- > eTPKCS11.dll
- > SNSCKSP.dll
- > eTokenMD.dll
- > axaltocm.dll
- > SafeNetMD.dll

**NOTE** The binary files above are present in the System32 and SysWoW64 depending on the customized installation parameters defined.

The DLL and EXE binaries are also verified under the following installation folders:

#### SafeNet Minidriver Proxy and Minidriver folders:

- > C:\Program Files (x86)\Gemalto\IDGo 800 PKCS#11\
- > C:\Program Files (x86)\Gemalto\IDGo 800 Minidriver\

#### SAC installation folder (default):

> C:\Program Files\SafeNet\Authentication\SAC\

#### To validate SAC binary signatures

Perform the following steps:

- 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, and on the toolbar, click the About icon

The **About** window is displayed.

#### 2. Click Validate Binary Signatures.

The validation runs in the background and the results are displayed in the Validation Summary window.

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

# **CHAPTER 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.

# Selecting the Active Token

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

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

Perform the following steps:

1. Open SafeNet Authentication Client Tools.

Refer to "Opening the Simple View" on page 14 or "Opening the Advanced View" on page 16.

2. In the left pane, select the required token.

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

Perform the following steps:

1. Click the SafeNet Authentication Client tray icon.

The SafeNet Authentication Client tray menu is displayed.

2. Select the required token from the tray menu by hovering over the relevant token name.

A sub-menu appears displaying a list of tasks that can be performed on the active token.

3. Select the relevant option from the sub-menu.

# Viewing and Copying Token Information

Perform the following steps to view and copy token information:

- 1. Do the following to view token information from the Simple View:
  - a. Open SafeNet Authentication Client Tools > Simple View.

Refer to "Opening the Simple View" on page 14.

- **b.** In the left pane, select the required token.
- c. In the right pane, select View Token Info.
- **d.** Continue with step 3.
- 2. Do the following to view token information from the Advanced View:

a. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- b. In the left pane, select the node of the required token.
- c. Continue with step 3.
- 3. The Token Information is displayed. The information displayed varies according to the type of token.
- 4. Do the following to copy the token information to the clipboard:
  - a. In the Token Information window, click Copy
  - <sup>b.</sup> 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.

Perform the following steps to log on as a user:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

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

- 2. Do one of the following:
  - In the left pane, select the node of the required token.

In the right pane, click the Log On to Token icon

• In the left pane, right-click the node of the required token, and select Log On to Token.

The Token Logon window is displayed.

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

You are logged on to the token.

# Renaming a Token

**NOTE** This feature is disabled for IDPrime SIS 840, IDPrime 940 SIS and IDClassic 410 cards.

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, it is recommended assigning each one a unique token name.

Perform following steps to rename a token:

- 1. Do the following to view token information from the *Simple View*:
  - a. Open SafeNet Authentication Client Tools > Simple View.

Refer to "Opening the Simple View" on page 14.

- **b.** In the left pane, select the required token.
- c. In the right pane, select Rename Token.
- d. Continue with step 3.
- 2. Do the following to view token information from the Advanced View:
  - a. Open SafeNet Authentication Client Tools > Advanced View.
     Refer to "Opening the Advanced View" on page 16.
  - **b.** Do one of the following:
    - In the left pane, select the node of the required token.

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

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

The Token Logon window is displayed.

3. Enter the token password, and click OK.

The Token Rename window is displayed.

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

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

# Changing the Token Password

**NOTE** The term *Token Password* may be replaced by another term (for example, *Token PIN*), depending on your SAC configuration.

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

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

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

When a token password is 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.

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

It is recommended not to use easily discovered passwords, such as names or birth dates of family members.

Perform the following steps to change a token's password:

- 1. Do the following to view token information from the Simple View:
  - a. Open SafeNet Authentication Client Tools > Simple view.

Refer to "Opening the Simple View" on page 14.

- **b.** In the left pane, select the required token.
- c. In the right pane, select Change Token Password.
- d. Continue with step 4.
- 2. Do the following to change the token password from the Advanced View:
  - a. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Token Management" on page 30.

- **b.** Do one of the following:
  - In the left pane, select the node of the required token.

In the right pane, click the **Change Password** icon 朣

- In the left pane, right-click the node of the required token, and select Change Password.
- c. Continue with step 4.
- 3. Do the following to change the token password using 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 Change Token Password.
  - d. Continue with step 4.
  - The Change Password window is displayed.
- 4. 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.

5. 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.

6. Click OK.

A message confirms that the token password is changed successfully.

7. Click OK.

# Activating a Token

**NOTE** This feature is not available for IDPrime SIS 840, IDPrime 940 SIS and IDClassic 410 cards.

Devices that are protected by an activation PIN must be activated before first use. Entering an Activation PIN is required only once.

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

The *Token Activation* function is accessed quickly by right-clicking the tray menu.

Connecting an unactivated device displays the Token with corrupted data icon in SAC Tools. This does not mean that the device is corrupted, it simply needs to be activated.



Perform the following steps to activate a token:

1. Connect the token.

The **Token Activation** window is displayed.



- 2. Click OK to continue with the activation process or Cancel to close the window without activating the token.
- 3. Enter activation PIN (Role 1), and click OK.

SafeNet Authentication	n Client	THALES
Enter the Token Activation PIN		
Reader name:	Broadcom Corp 588	0 [Contacted SmartCard] (0123456]
Activation PIN:	[	
	Current Language: E	N
Retries remaining before the token i	s locked: 5	OK Cancel

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

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

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

# **Deleting Token Content**

**NOTE** This feature is disabled for IDPrime SIS 840, IDPrime 940 SIS and IDClassic 410 cards.

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, refer to "Token Initialization" on page 49.

Perform the following steps to delete the token content in the Simple View:

#### 1. Open SafeNet Authentication Client Tools > Simple View.

Refer to "Opening the Simple View" on page 14.

- a. In the left pane, select the required token.
- b. In the right pane, select Delete Token Content.
- c. 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.

The **Token Logon** window is displayed.

3. Enter the token password, and click OK.

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

4. To continue with the delete process, click OK.

The **Delete Token Content** window is displayed, confirming that the token content is deleted successfully.

5. Click OK to finish.

# Importing a Certificate to a Token

**NOTE** Importing a certificate to a Token with Sign only feature is not applicable for IDPrime SIS 840 and IDClassic 410 cards.

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.

Perform the following steps to import a certificate:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. Do one of the following:
  - In the left pane, select the node of the required token.

In the right pane, click the **Import Certificate** icon

• In the left pane, right-click the node of the required token, and select Import Certificate.

The Token Logon window is displayed.

3. Enter the token password, and click OK.

The Import Certificate window is displayed.

- 4. Select one of the following, and click **OK**:
  - Import a certificate from my personal certificate store
  - Import a certificate from a file
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 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

**NOTE** Ensure to import a Certificate with the enabled export private key option. For that, you need to select the check box *Make this key as exportable. This will allow you to back up or transport your keys at a later time* available in the **Certificate Import Wizard > Private key protection** window.

If you select Import a certificate from a file, the Certificate Selection window is displayed.

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

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

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

### Importing Common Criteria Certificates

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

Perform the following steps to import a Common Criteria Certificate:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. Do one of the following:
  - In the left pane, select the node of the required token.

In the right pane, click the Import Certificate

• In the left pane, right-click the node of the required token, and select Import Certificate.

The Token Logon window is displayed.

3. Enter the token password, and click OK.

The Import Certificate window is displayed.

- 4. Select one of the following, and click OK:
  - · Import a certificate from my personal certificate store
  - Import a certificate from a file

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 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

If you select Import a certificate from a file, the Certificate Selection window is displayed.

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

The Certificate Password window is displayed.

SafeNet Authentication Client		TH/	LES
Enter the PFX or P12 password: Current Language: EN	•••••		
		OK	Cancel

6. Enter the certificate password, and click OK.

The **Digital Signature PIN Logon** window is displayed.

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

SafeNet Authentication	Client	THALES
Enter the Digital Signature PIN:		
Token Name:	Card #65D64F2969CD4539	
Digital Signature PIN:		
	Current Language: EN	
		OK Cancel

7. Enter the Digital Signature PIN and click OK.

The certificate is imported, and a message confirms that the import is successful.

Common Criteria (CC) certificates are displayed as follows in the left pane:



# Exporting a Certificate from a Token

Perform the following steps to export a certificate:

- Open SafeNet Authentication Client Tools > Advanced View. Refer to "Opening the Advanced View" on page 16.
- 2. In the left pane, expand the node of the required token.
- 3. Do one of the following:
  - Select the required certificate, and click the **Export Certificate** icon .
  - Right-click the required certificate, and select Export Certificate.
  - The Save As window is displayed.
- 4. Select the location to store the certificate, enter a file name, and click OK.

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

### **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.

Perform the following steps to clear a default certificate:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. In the left pane, expand the node of the required token.
- 3. Do one of the following:
  - In the left pane, select User Certificates.
  - In the right pane, click the Reset Default Certificate Selection icon.
  - In the left pane, right-click User Certificates, and select Reset Default Certificate Selection.

The **Reset Default Certificate Selection window** is displayed, confirming that the Default certificate has been reset.

4. Click OK.

### **Deleting a Certificate**

Perform the following steps to remove a certificate from a token:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Token Management" on page 30.

- 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**.

The **Delete Certificate** window is displayed.

4. To delete the certificate, click Yes.

The **Token Logon** window is displayed.

5. Enter the token password, and click OK.

The **Delete Certificate** window is displayed, confirming that the certificate is deleted successfully.

6. Click OK.

**NOTE** If *Read Only* mode is enabled, the certificate is not deleted. For more information, refer to *SafeNet Authentication Client Administrator Guide*.

### 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.

TIP It is recommended to initialize all supported tokens with an Administrator Password.

**NOTE** IDPrime devices have a built-in administrator role.

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" on the next page
- > "Setting a Token Password by an Administrator" on page 44
- > "Unlocking a Token by the Challenge-Response Method" on page 42
- > "Setting eToken Password Quality (Password Quality Tab)" on page 68

#### > "Setting IDPrime PIN Properties (Advanced Tab)" on page 73

Perform the following steps to log on to a token as an administrator:

**NOTE** This feature is disabled for IDClassic 410 cards.

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- **2.** Do one of the following:
  - In the left pane, select the node of the required token.

In the right pane, click the Log On as Administrator icon.

- In the left pane, right-click the node of the required token, and select Log On as Administrator.
- The Administrator Logon window is displayed.
- 3. Enter the token's Administrator Password, and click OK.

You are logged on as an administrator.

### Changing the Administrator Password

**NOTE** This feature is disabled for IDClassic 410 cards.

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

Perform the following steps to change the administrator password:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

- **2.** Do one of the following:
  - In the left pane, select the node of the required token.

In the right pane, click the **Change Administrator Password** icon.

• In the left pane, right-click the node of the required token, and select **Change Administrator Password**.

The Change Administrator Password window is displayed.

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.

Ensure the password complies with the password quality settings: A secure password has at least 8 characters and at least three of the following rules: Uppercase letters; Lowercase letters; Numerals; Special Characters.

- 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.

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6. Click OK.

# Unlocking a Token by the Challenge-Response Method

**NOTE** This feature is disabled for IDPrime SIS 840, IDPrime 940 SIS and IDClassic 410 cards.

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

Tokens can be unlocked if, and only if, an Administrator Password was set during initialization.

#### NOTE

The unlock feature is supported by eToken and IDPrime devices. For Common Criteria devices, the new user password is used for both the token password and Digital Signature PIN when unblocking a device.

When the administrator has access to the user's token, the administrator can unlock the token using the *Set Token Password* feature. Refer to "Setting a Token Password by an Administrator" on page 44.

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 SafeNet eTokens.

**NOTE** Unlocking the User PIN via the Challenge-Response method is not supported on Common Criteria cards when the User PIN is protected by the PUK.

Perform the following steps to unlock a token using the Challenge-Response method:

- 1. Do the following to unlock a token from the Simple View:
  - a. Open SafeNet Authentication Client Tools > Simple View.

Refer to "Opening the Simple View" on page 14.

- b. In the left pane, select the required token.
- c. In the right pane, select Unlock Token.
- d. Continue with step 4.
- 2. Do the following to unlock a token from the Advanced View:

#### a. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16".

b. Do one of the following:

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

In the right pane, click the **Unlock Token** icon

- In the left pane, right-click the node of the required token, and select **Unlock Token**.
- c. Continue with step 4.
- 3. Do the following to change the token password using 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 Unlock Token.
  - d. Continue with step 4.
- 4. The Unlock Token window is displayed, 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.

SafeNet Authen	tication Client	тнл	LES
Challenge Code:	92 F9 69 B3 79 BE 8E BC		a
Response Code:			
	Token Password must be chan	ged on first logon	
New Password:			
Confirm Password:			
The new password must co	mply with the quality settings defined on	the token.	
A secure password has at le numerals, and special chara	east 8 characters, and contains upper-ca cters (such as !, \$, #, %).	se letters, lower-cas	ie letters,
Current Language: EN			
Enter the Response Code p	rovided 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 affects the context of the Challenge – Response process and invalidate the procedure.

- For IDPrime devices only: - During the unlock operation, any application that attempts to connect to the device is suspended until the unlock operation is completed or canceled.

6. Enter the Response Code provided by the administrator.

The Response Code is 16 characters or, if the token is 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 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 is unlocked successfully.

10. Click OK.

### Setting a Token Password by an Administrator

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

**NOTE** The *Unlock Token* feature is for eToken devices only, whereas the *Set Token Password* features is for eToken and IDPrime devices. When setting the token password, updating the retry counter can be performed only on IDPrime devices.

Perform the following steps to unlock a token by setting a new token password:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

#### 2. Do one of the following:

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

In the right pane, click the Set Token Password icon.

• In the left pane, right-click the node of the required token, and select Set Token Password.

The Administrator Logon window is displayed.

3. Enter the Administrator Password, and click OK.

The Set Token Password window is displayed.

4. Enter a new token password in the New Password and Confirm Password fields.

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

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

A message confirms that the token password is changed successfully.

7. Click OK.

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

# Synchronizing Passwords

SafeNet Authentication Client supports synchronization between token/card passwords and domain logon passwords.

Password synchronization can be configured via the **Synchronize with Domain Password** registry key setting (refer to the Token-Domain Password Settings section in the *SafeNet Authentication Client Administrator Guide*), or via the SAC Customization Tool.

The synchronization process ensures that a single password is used for logging on to both the token/card and the Windows domain. The process enforces the password complexity requirements that were set for the token as well as in Active Directory. You must have access to the domain when changing the password.

Perform the following steps to synchronize passwords:

1. Click the SafeNet Authentication Client tray icon.

The SafeNet Authentication Client tray menu is displayed.

2. Select Synchronize Password.

The Synchronize Passwords window is displayed.

- 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.

**NOTE** If a token/card is configured with the *Token Password must be changed on first logon* parameter and SAC is configured with the *Synchronize with Domain Password* property, only the Synchronize Password window is displayed.

### 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.

Perform the following steps to see which Cryptographic Providers are supported on the token:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

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.

**NOTE** Setting a Certificate as KSP or CSP is available on eToken devices only.

Perform the following steps to set the certificate as KSP or CSP:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. In the left pane, expand the node of the required token.
- 3. Right-click the required certificate, and select Set as CSP or Set as KSP.

The Token Logon window is displayed.

4. 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 Default. In most Microsoft applications, smart card logon is used.	<ul> <li>Your token contains two certificates. One is to logon to domain A and the other to logon to domain B. If your previous logon was to domain A, it means that the certificate used to logon to domain A is now the Default. If you need to log on to domain B from another computer, the following happens:</li> <li>&gt; If you first set the domain B certificate as Default, the logon uses the correct certificate, and the logon succeeds.</li> <li>&gt; If you do not set the domain B certificate as Default, the domain A certificate is used, and logon fails.</li> </ul>

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

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

Perform the following steps:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 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.

# **CHAPTER 4:** Token Initialization

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

### Overview

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

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

The following data is initialized:

- > Token name
- > Token Password
- > IDPrime Cards A new administrator password may be entered. If the current administrator password is to be maintained, select the option: *Keep the current administrator password*.
- > Administrator Password (optional)
- > 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 are applied 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.

### Initialization Key Recommendations

The Initialization Key can be changed using either one of the following methods:

- > Customization Product Branding (CPB) (Factory settings)
- > SAC Initialization process documented in this section

**NOTE** Initialization feature is disabled for IDPrime SIS 840, IDPrime 940 SIS and IDClassic 410 cards.

# Initializing eToken Devices

This section refers to the following devices:

- > SafeNet eToken 5110
- > SafeNet eToken 5110 FIPS
- > Gemalto IDCore 30B eToken

Depending on the type of token being initialized, certain settings are not enabled. To initialize an eToken 5110 CC device, refer to "Initializing IDPrime Common Criteria Devices" on page 57.

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

Perform the following steps to initialize an eToken device:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- **2.** Do one of the following:
  - In the left pane, select the node of the required token.

In the right pane, click the Initialize Token icon 🦉

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

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

**NOTE** Initializing a token deletes all objects created on the device, while in use.

- 3. Select one of the following:
  - Preserve the token settings and policies Select to keep current token policies and settings.
  - **Configure all initialization settings and policies** Select to change some or all token policies and settings. This option allows to:
    - Create a token password
    - Create an administrator password
    - Enter the default token and administrator passwords
    - Enter Common Criteria passwords (PIN and PUK)
- 4. Click Next.

The Password Settings window is displayed.

SafeNet Authentic	ation Clie	nt	THALES
Token Name: Create Token Password	SafeNet eToke	en 5110	
New Token Password: Confirm Password:		••••••	
Logon retries before toker	n is locked: <b>be changed on</b>	15 🔹	
Create Administrator Passw Create Administrator Pass	word		
Confirm Password: Logon retries before toke	n is locked:	15	
One-factor logon			Current Language: EN
	< Back	Next >	Finish Cancel

#### 5. Complete the fields as follows:

Field	Description
Token Name	<ul> <li>&gt; Enter a name for the token. If no name is entered, a default name is used. In many organizations, the default token name is "My Token".</li> <li>&gt; The token name does not affect the token contents. It is used solely to identify the token.</li> </ul>

Field	Description
New Token Password	Enter a new Token Password. The default password on an eToken device is 1234567890 automatically appears in this field.
	<ul> <li>NOTE - If the device is initialized with the default token/card password, and standard password quality requirements are in effect, the user must select the <i>Token Password must be changed on first logon</i> option. Otherwise, the initialization fails because the default password does not meet the password quality requirements.</li> <li>If the <i>Token password must be changed on first logon</i> option is selected, the initialization succeeds, and the user is prompted to create a new password when next logging on with the token/card.</li> <li>The user is required to set a token password that meets the Password Quality requirements configured in the Settings window.</li> </ul>
Confirm Password	Re-enter the password entered above.
Logon retries before token is locked	Enter the number of times a token password can be entered incorrectly before the token is locked.
	<b>NOTE</b> The retry counter counts only passwords that have a valid length. This field is enabled/disabled based on the card type.
Token password	If required, select this field.
must be changed on first logon	<b>NOTE</b> When initializing a device in Unlinked mode, and this option is selected, both the Token (User) Password and Digital Signature PIN are effected (ensure that both the Token Password and Digital Signature PIN are changed).
Create Administrator Password	<ul> <li>If necessary, enter a new administrator password, that's different from the current administrator password. Your current password may be the default password or a different password. Only you know this password.</li> <li>The minimum password length on an eToken device is 8 characters.</li> </ul>
	<b>NOTE</b> Setting an Administrator Password enables certain functions to be performed on the token, such as setting a new token password to unlock a token.

Field	Description	
Confirm Password	Re-enter the administrator password.	
Logon retires before token is locked	<ul> <li>Enter a numeric value. This counter specifies the number of time the administrator can attempt to log on to the token with an incorrect password before the token is locked.</li> <li>The default setting for the maximum number of incorrect logon attempts is 15.</li> </ul>	
	<b>NOTE</b> This field is enabled/disabled based on the card type.	
One-factor logon	Configures the token without a password. The default value for this setting is <b>disabled</b> .	
	<ul> <li>NOTE</li> <li>This One-factor logon feature is used by eToken device only.</li> <li>The One-factor logon feature is not supported by FIPS devices.</li> <li>Selecting the One-factor logon option disables the <i>Create Token Password</i> and <i>Create Administrator Password</i> fields.</li> </ul>	

#### 6. Click Next.

The Advanced Security Settings window is displayed.

SafeNet Authentication Client	THALES
Private data caching: Secondary Authentication Key:	Always (fastest) 🗘 Never 🗘
Cancel	< Back Next > Finish

#### **7.** Complete the following fields:

Field	Description
Private data caching	<ul> <li>Default: Always (fastest)</li> <li>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.</li> <li>Select one of the following options:</li> <li>Always (fastest): Private information is always cached in the application memory. This enables fast performance, as certain information is cached outside the token as long as the 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	Description
Secondary Authentication Key	Default: Never Set the number of reserved RSA keys to reserve space in the token memory. This ensures that memory is always available for keys. Refer to "Setting eToken Advanced Properties (Advanced Tab)" on page 70.

8. Click Next.

The Initialization Key Settings window is displayed.

SafeNet Authentication Client	THALES
Default Initialization Key	
O Use Default Initialization Key	
O Use this initialization key:	
Next Initialization Key	
Change the key for the next initialization to:	
<ul> <li>Default</li> </ul>	
O Random	
O This value:	
Confirm value:	
	Current Language: EN
Cancel	< Back Next > Finish

Use this window to configure *Default* and *Next* Initialization Settings.

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

9. 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	Select this option and enter the Initialization Key configured in the <b>This Value</b> field during the previous token initialization.
Change the key for the next initialization to:	<ul> <li>Select one of the following:</li> <li>Default: Revert to the factory-set default so that the user is not required to enter an Initialization Key during subsequent token initializations.</li> <li>Random: If selected, it will never be possible to re-initialize the token.</li> <li>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.</li> </ul>

**NOTE** The initialization key minimum length is 4.

**NOTE** Initialization Key policy:

A secure password has at least 8 characters (up to 32 characters) and contains at least 3 of the following rules:

- Upper case letters
- Lower case letters
- Numerals
- Special characters (&, %, \$, etc.)

#### 10. Click Finish.

A warning message is displayed.

**11.**Click **OK** when the following warning message appears:

The token initialization process will delete all token content and reset all token parameters.

The Token initialized successfully message is displayed.

### **Initializing IDPrime Devices**

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

The following can be performed during the initialization process:

- > All user-generated data, such as certificates and profiles
- > All PKCS#11 objects that were created on the token/card, while in use
- > Token/card name/label
- > Define a user and administrator password (the user password must be according to the card's policy settings).

- > Define password quality settings
- Define a Digital Signature PIN and Digital Signature PUK password, the password must be according to the card's policy settings (for IDPrime CC and eToken 5110 CC devices). Refer to "Set Digital Signature PIN" on page 87.

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

**NOTE** If Administrator Password is blocked (applies to all IDPrime devices) or if the Digital Signature PUK is blocked (applies only to IDPrime CC and eToken 5110 CC) then the IDPrime device cannot be initialized unless it comes with an initialization key.

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

### Initializing IDPrime Common Criteria Devices

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

Perform the following steps to initialize IDPrime based Common Criteria certified devices (eToken 5110 CC/IDPrime Common Criteria):

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

- 2. Do one of the following:
  - In the left pane, select the node of the required token/card.

In the right pane, click the Initialize Token icon

• In the left pane, right-click the node of the required device, and select **Initialize Token**.

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

- 3. Select one of the following:
  - **Preserve the token settings and policies** Select to keep current token policies and settings.
  - **Configure all initialization settings and policies** Select this option to change some/all token policies and settings. This option allows to:
    - Create a token password
    - Create an administrator password
    - Enter the default token and administrator passwords
    - Enter Common Criteria passwords (PIN and PUK)
- 4. Click Next.

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

#### NOTE

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

SafeNet Authentication Client	тн	IALES
Use Initialization key to initialize the Token		
Enter the current Administrator Password to initialize th	e Token	
Use factory default administrator password		
Administrator Password:		
Enter the current Digital Signature PUK to initialize the	Token	
Use factory default digital signature PUK		
Digital Signature PUK:		
	Curren	nt Language: EN
The default administrator password and digital signa the standard profile. For the non-default value, please enter it manually.	ture PUK is a known val	ue of 0's set on
Cancel	Back	d Finish

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

feNet Authentication Client		THALES	
Use Initialization key to initial ter the current Administrator Pa	ize the Token ssword to initialize the	• Token	
Use factory default adminis	strator password		
Administrator Password:			
		Current Language:	EN
The default administrator pass	uard is a known walve	of 0's pat on the standay	
profile. For the non-default value, plea	se enter it manually.	or os aer on the standar	a

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

5. Do following as per the requirement:

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Use Initialization key to initialize the Token	Select this check box to if you have an initialization key.
	<b>NOTE</b> This option is enabled only for the devices that have an initialization key.
Use factory default administrator password	<ul> <li>Select this check box if the current administrator password is 48 zeros. If selected, the <i>Administrator Password</i> field below is shaded showing the default password.</li> <li>Deselect it, if the current administrator password is different from the factory default.</li> </ul>
Administrator Password	Enter the current administrator password, that's different from the factory default.
Use factory default digital signature PUK	<ul> <li>Select this check box if the current digital signature PUK is 6 zeros (000000). If selected, the <i>Digital Signature PUK</i> field below is shaded showing the default password.</li> <li>Deselect it, if the current Digital Signature PUK is different from the factory default.</li> </ul>
Digital Signature PUK	Enter the current Digital Signature PUK, that's different from the factory default.

#### 6. Click Next.

The **Password Settings** window is displayed.

SafeNet Authentic	ation Client		THALES
Token Name: Create Token Password	My Token		
New Token Password:		•••••	
Logon retries before token	is locked:	15	
Token password must	be changed on first l	ogon	PIN Policy
Create Administrator Passw Create Administrator Passw Confirm Password:	ord word		
Logon retries before token	is locked:	5	
			Current Language: EN
	< Back	Next >	Finish Cancel

**NOTE** The *Pin Policy* button is not visible if *Preserve the token settings and policies* option is selected in step 3.

7. Enter the following:

Field	Description
Token Name	<ul> <li>&gt; Enter a name for the token. If no name is entered, a default name is used. In many organizations, the default token name is "My Token".</li> <li>&gt; The token name does not affect the token contents. It is used solely to identify the token.</li> </ul>
New Token Password	The default password is 1234567890 automatically appears in this field. The default password on an IDPrime card is 4 zeros (0000).           NOTE         - If the device is initialized with the default token/card password, and standard password quality requirements are in effect, the user must select the <i>Token Password must be changed on first logon</i> option.           Otherwise, the initialization fails because the default password does not meet the password quality requirements.           If the <i>Token password must be changed on first logon</i> option is selected, the initialization succeed, and the user is prompted to create a new password when next logging on with the token/card.           The user is required to set a token password that meets the Password Quality requirements configured in the <i>Settings</i> window.
Confirm Password	<ul> <li>The default password (1234567890) automatically appears in this field.</li> <li>If the above field was changed, then re-enter the password entered in the <i>New Token Password</i> field.</li> </ul>
Logon retries before token is locked	<ul> <li>Enter the number of times a token password can be entered incorrectly before the token is locked.</li> <li>For Common Criteria devices that are in linked mode, the maximum value displayed is 3. When in unlinked mode, the value displayed is 15. This value cannot be changed for both linked and unlinked modes.</li> <li>NOTE This field is enabled/disabled based on the card type.</li> </ul>
Token password must be changed on first logon	If required, select <i>Token password must be changed on first logon</i> . <b>NOTE</b> When initializing a device in Unlinked mode, and this option is selected, both the Token (User) Password and Digital Signature PIN are effected (ensure that both the Token Password and Digital Signature PIN are changed).
PIN Policy	Enables you to set PIN Quality/Property parameters. Refer to "Setting IDPrime PIN Quality (PIN Quality Tab)" on page 71 and "Setting IDPrime PIN Properties (Advanced Tab)" on page 73.

Field	Description
Create Administrator Password	<ul> <li>&gt; If necessary, enter a new administrator password, that's different from the current administrator password. Your current password may be the default password or a different password. Only you know this password.</li> <li>&gt; You can change the default Administrator Password to a password that is between 8-32 alphanumeric characters.</li> </ul>
Confirm Password	Re-enter the administrator password.
Logon retires before token is locked	<ul> <li>Enter a numeric value. This counter specifies the number of times the administrator can attempt to log on to the token with an incorrect password before the token is locked.</li> <li>The default setting for the maximum number of incorrect logon attempts is 15.</li> <li>NOTE This field is enabled/disabled based on the card type.</li> </ul>
Keep the current administrator password	Select this if you want to keep the current administrator password. <b>NOTE</b> If this option is selected, the following warning message appears: If the current password is the default password (48 zeros), it is strongly recommended to update the administrator password to keep your token secure.

#### 8. Click Next.

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

This window defines whether you are going to work in linked or unlinked mode.

SafeNet Authentication Cl	ient		τηνι	.ES
Common Criteria Passwords:				
New Digital Signature PIN:				
Confirm PIN:				
			PIN P	olicy
New Digital Signature PUK:				
Confirm PUK:				
			PIN P	olicy
Cancel		Back	Next	Finish

**NOTE** Due to Security concerns related to IDPrime MD 840 cards in Linked Mode, the support for Linked Mode in the Initialization window is disabled by default. To enable Linked Mode, refer to *SafeNet Authentication Client Administrator Guide* (LinkMode property). It is recommended to use the Linked Mode feature only with the IDPrime 940 card.

When using a Common Criteria smart card (SafeNet IDPrime 940 or IDPrime MD 840), if the Admin PIN is set to default, the unlock button is disabled until changed. For example, when using a SafeNet IDPrime 940 or IDPrime MD 840 card in linked mode, the Unlock Token button (in SAC Tools) is disabled until the default Admin PIN is changed

#### 9. Enter the following:

Field	Description
New Digital Signature PIN	Enter a New Digital Signature PIN. This option allows you to work in 'unlinked' mode.
Confirm PIN	Re-enter the New Digital Signature PIN.
PIN Policy	Enables you to set PIN Quality/Property parameters. Refer to "Setting IDPrime PIN Quality (PIN Quality Tab)" on page 71 and "Setting IDPrime PIN Properties (Advanced Tab)" on page 73.
New Digital Signature PUK	Enter a New Digital Signature PUK. This option allows you to work in Unlinked mode.
Confirm PUK	Re-enter the New Digital Signature PUK.
PIN Policy	Enables you to set PIN Quality/Property parameters. Refer to "Setting IDPrime PIN Quality (PIN Quality Tab)" on page 71 and "Setting IDPrime PIN Properties (Advanced Tab)" on page 73.

#### 10. Click Finish.

A warning message is displayed.

**11.**Click **OK** when the following warning message appears:

The token initialization process will delete all token content and reset all token parameters.

The Token initialized successfully message is displayed.

### Initializing IDPrime Based Devices (Non Common Criteria/FIPS Devices)

IDPrime cards that are not Common Criteria certified can be initialized using SAC Tools and the IDPrime cards that are FIPS certified can be configured during factory settings with either one of the following profiles:

> **Managed** - managed devices have an Administrator PIN and they have to be initialized according to the initialization sections above.

Non-Managed - non-managed devices have an Administrator PIN that is locked and cannot be used in Managed environments by CMS's. Non-managed devices may have an additional initialization key (for example: SafeNet IDPrime 930/3930 devices), which allows initializing the device without using the Administrator PIN.

A non-managed device is displayed in SAC Tools with the Administrator functions disabled

Perform the following steps to initialize an IDPrime based non Common Criteria/FIPS device:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

- 2. Do one of the following:
  - In the left pane, select the node of the required token/card

In the right pane, click the Initialize Token icon 🤒

• In the left pane, right-click the node of the required device, and select Initialize Token.

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

- 3. Select the relevant option:
  - Preserve the token settings and policies Select to keep current token policies and settings.
  - **Configure all initialization settings and policies** Select this option to change some/all token policies and settings. This option allows to:
    - Create a token password
    - Create an administrator password
    - Enter the default token and administrator passwords
    - Enter Common Criteria passwords (PIN and PUK)
- 4. Click Next.

The **Administrator Logon** window is displayed. This window requires you to enter an Administrator Password to begin the initialization process.

enerAdmentication	Client	THAL	.ES
Use Initialization key to initiali	ize the Token		
ter the current Administrator Pa	ssword to initialize the	Token	
Use factory default adminis	strator password		
Administrator Password:			
		Current	EN
The default administrator passv	word is a known value	Language: of 0's set on the standa	rd
The default administrator passy profile. For the non-default value, pleas	word is a known value se enter it manually.	Language: of 0's set on the standa	rd

NOTE This window is not displayed for Non-Managed cards.

5. Do following as per the requirement:

Use Initialization key to initialize the Token	Select this check box to if you have an initialization key.		
	<b>NOTE</b> This option is enabled only for the devices that have an initialization key.		
Use factory default administrator password	<ul> <li>Select this check box if the current administrator password is 48 zeros. If selected, the <i>Administrator Password</i> field below is shaded showing the default password.</li> <li>Deselect it, if the current administrator password is different from the factory default.</li> </ul>		
Administrator Password	Enter the current administrator password. <b>NOTE</b> Current administrator password is different from the factory default. The default Administrator Password is 48 zeros		

### 6. Click Next.

The Password Settings window is displayed.

SafeNet Authentication Client	THALES
Token Name: My Token Create Token Password New Token Password: Confirm Password: Logon retries before token is locked: 15 ☑ Token password must be changed on first logon	••••• ••••• •••••
Create Administrator Password Create Administrator Password Confirm Password: Logon retries before token is locked: Composed: Logon retries before token is locked: Keep the current administrator password	
< Back Next	Current Language: EN

**NOTE** For Non-Managed cards, the *Pin Policy* button and the *Create Administrator Password* option are not visible if *Preserve the token settings and policies* option is selected in step 3. While for Managed cards, only the *Pin Policy* button is not visible.

#### 7. Enter the following:

Field	Description
Token Name	<ul> <li>&gt; Enter a name for the token. If no name is entered, a default name is used. In many organizations, the default token name is <i>My Token</i>.</li> <li>&gt; The token name does not affect the token contents. It is used solely to identify the token.</li> </ul>
New Token Password	The default password is 1234567890 automatically appears in this field. The default password on an IDPrime card is 4 zeros (0000).
	<ul> <li>NOTE <ul> <li>If the device is initialized with the default token/card password, and standard password quality requirements are in effect, the user must select <i>Token Password must be changed on first logon</i> option.</li> <li>Otherwise, the initialization fails because the default password does not meet the password quality requirements.</li> <li>If the <i>Token password must be changed on first logon</i> option is selected, the initialization succeed and the user is prompted to create a new password when next logging on with the token/card.</li> <li>The user is required to set a token password that meets the PIN Quality requirements.</li> </ul> </li> </ul>

Field	Description
Confirm Password	<ul> <li>The default password (1234567890) automatically appears in this field.</li> <li>If the above field was changed, then re-enter the password entered in the <i>New Token Password</i> field.</li> </ul>
Logon retries before token is locked	Enter the number of times a token password can be entered incorrectly before the token is locked.           NOTE         This field is enabled/disabled based on the card type.
Token password must be changed on first logon	If required, select Token password must be changed on first logon.
PIN Policy	Enables you to set PIN Quality/Property parameters. Refer to "Setting IDPrime PIN Quality (PIN Quality Tab)" on page 71 and "Setting IDPrime PIN Properties (Advanced Tab)" on page 73.
Create Administrator Password	<ul> <li>&gt; If necessary, enter a new administrator password, that's different from the current administrator password. Your current password may be the default password or a different password. Only you know this password.</li> <li>&gt; You can change the default Administrator Password to a password that is between 8-32 alphanumeric characters (or to 48 hexadecimal digits).</li> </ul>
Confirm Password	Re-enter the administrator password.
Logon retires before token is locked	<ul> <li>&gt; Enter a numeric value. This counter specifies the number of times the administrator can attempt to log on to the token with an incorrect password before the token is locked.</li> <li>&gt; The default setting for the maximum number of incorrect logon attempts is 15.</li> <li>NOTE This field is enabled/disabled based on the card type.</li> </ul>
Keen the current	Select this if you want to keep the current administrator password
administrator password	<b>NOTE</b> If this option is selected, the following warning message appears: If the current password is the default password (48 zeros), it is strongly recommended to update the administrator password to keep your token secure.

### 8. Click Finish.

A warning message is displayed.

9. Click OK when the following warning message appears:

The token initialization process will delete all token content and reset all token parameters.

The Token initialized successfully message is displayed.

# Friendly Admin Password

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

- > SAC requires a 48 Hexadecimal PIN to be entered.
- > The Friendly Admin Password (known as Friendly Admin) works with all IDPrime devices.
- > The Friendly Admin uses a user secret in the range of 8 to 32 ASCII7 characters.

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

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

When working in linked mode (refer to "Working with Common Criteria" on page 83) the Digital Signature PUK is derived from the Admin Key. This is not part of the Friendly Admin feature, but can be used together.

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



# **CHAPTER 5:** Token Settings

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

To know about the settings applied to all tokens when they are initialized, refer to "Client Settings" on page 77.

# Setting eToken Password Quality (Password Quality Tab)

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

afeNet Authe	entication Client	@ © i ? ੇ
SafeNet Authentication Client Tools	Password Quality Advanced	
<ul> <li>✓ Iokens</li> <li>✓ Safenet eToken 5110</li> <li>✓ Settings</li> <li>∅ Client Settings</li> </ul>	Minimum length (characters): Maximum length (characters): Minimum usage period (days): Maximum usage period (days): Expiration warning period (days): History size: Maximum consecutive repetitions: Must meet complexity requirements:	8       -       +         20       -       +         0       -       +         0       -       +         0       -       +         10       -       +         3       -       +         At least 3 types       ▼
	Manual Complexity Rules Upper-case letters: Lower-case letters: Permitted  Specia Set to Default	rals: Permitted  al characters: Permitted  Save Discard

#### Perform the following steps:

Open SafeNet Authentication Client Tools > Advanced View.
 Refer to "Opening the Advanced View" on page 16.

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

3. In the right pane, select the Password Quality tab.

The **Password Quality** tab is displayed.

4. Enter the password quality parameters as follows:

Password Quality Parameter	Description
Minimum length (characters)	Default: 6 characters
Maximum length (characters)	Default: 20 characters
Maximum usage period (days)	Default: 0 (none) The maximum period, in days, before which the password must be changed.
Minimum usage period (days)	Default: 0 (none) The minimum period before the password can be changed.
Expiration warning period (days)	Default: 0 (none) Defines the number of days before the password expires that a warning message is shown.
History size	Default: 0 <ul> <li>For eToken devices - 10</li> <li>Defines how many previous passwords must not be repeated.</li> </ul>
Maximum consecutive repetitions	Default: 3 The maximum number of repeated characters that is permitted in the password.
Must meet complexity requirements	<ul> <li>Determines the complexity requirements that are required in the token password.</li> <li>At least 2 types: a minimum of 2 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced.</li> <li>At least 3 types: a minimum of 3 complexity rules (out of the 4 shown in the Manual Complexity fields) are enforced (Default).</li> <li>None: Complexity requirements are not enforced.</li> <li>Manual: Complexity requirements, as set manually in the Manual Complexity settings, are enforced.</li> </ul>
Manual complexity rules	<ul> <li>For each of the character types (Numerals, Upper-case letters, Lower-case letters, and Special characters), select one of the following options:</li> <li>Permitted - Can be included in the password, but is not mandatory (Default).</li> <li>Mandatory - Must be included in the password.</li> <li>Forbidden - Must not be included in the password.</li> </ul>

#### 5. Do one of the following:

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

• To apply SafeNet Authentication Client's default settings, click **Set to Default**.

### Setting eToken Advanced Properties (Advanced Tab)

The eToken's *Advanced* tab enables you to cache public information stored on the token as well as defines the policy used for the secondary authentication of RSA keys.

		THALES
SafeNet Auther	ntication Clie	nt 🛛 🕸 💁 🔒
<ul> <li>SafeNet Authentication Client Tools</li> <li>Tokens</li> <li>Card #35DB917212B0E366</li> <li>Settings</li> <li>SafeNet e Token 5110</li> <li>Settings</li> <li>Client Settings</li> </ul>	Password Quality Advanced Private data caching: Secondary Authentication Key:	Always (fastest)
< >		
		thalesgroup.com

Perform the following steps :

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. In the left pane, expand the node of the required token, and select **Settings**.
- 3. In the right pane, select the Advanced tab.

The Advanced tab is displayed.

4. Select following as per the requirement:

Option	Description
Private data caching	This option defines when private information (excluding private keys on the eToken PRO/NG OTP/smart card) can be cached outside the token. In SafeNet Authentication Client, public information stored on the token is cached to enhance performance. In SafeNet Authentication Client, public information stored on the token is cached to enhance performance.
	Select one of the following:
	> 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.
	<ul> <li>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.</li> <li>Never- Does not cache private data.</li> </ul>
Secondary Authentication Key	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.
	<b>NOTE</b> This setting defines the policy for using the secondary authentication of RSA keys.
	Solast one of the following:
	> Always
	<ul> <li>Always prompt user</li> </ul>
	<ul> <li>Prompt user on application request</li> </ul>
	> Never
	> Token authentication on application request
	For an explanation of these options, refer to "Token Initialization" on page 49.

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

# Setting IDPrime PIN Quality (PIN Quality Tab)

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

**NOTE** For Non-Managed cards, IDClassic 410, IDPrime SIS 840 and IDPrime 940 SIS cards, the parameters of this tab are disabled.

		THALES
SafeNet Authe	ntication Client	😳 i ? 🚖
<ul> <li>SafeNet Authentication Client Tools</li> <li>Tokens</li> <li>Card #84803B7C7BF2E34B</li> </ul>	PIN Quality Advanced	
	Minimum length (characters):	4
Digital Signature PIN	Maximum length (characters):	16
Digital Signature PUK	History size:	0
	Number of different characters that can be repeated at least once:	0
	Maximum number a character can appear:	0
	Maximum number of characters in a sequence:	0
	Maximum number a character can be repeated in adjacent positions:	0
	Manual Complexity Rules	
	Numeric: Permitted Alpha:	Customized ~
	Non alpha: Permitted Alpha upper:	Permitted ~
	Non ASCII: Permitted Apha lower:	Permitted
	Save	Discard
< >		
		thalesgroup.com

### NOTE

- In the MD Manager, the unlimited value is equal to FFh
- In SAC Tools, the unlimited value is equal to 00h

For IDPrime cards, the following *PIN Quality* parameters exist:

PIN Quality Parameter	Description		
Minimum length (characters)	The minimum value that can be set for the length of a PIN's value. This value must be in the range 04h - 40h for a local PIN and 04h - 10h for the global PIN.		
Maximum length (characters)	The maximum value that can be set for the length of a PIN's value. This value must be in the range 04h - 40h for a local PIN and 04h - 10h for the global PIN. This value must be equal to or greater than the PIN minimum length value.		
History size	Number of previous PIN values that cannot be matched by a new PIN. Range is 00h-0Ah. 00h = No history		
PIN Quality Parameter	Description		
---	--	--	--
Number of different characters that can be repeated at least once	The number of different characters that can be repeated at least once. Range is 00h-FFh. 00h = No limitation		
Maximum number of times a character can appear	The maximum number of times a character can appear. Range is 00h-FFh. )0h = No limitation		
Maximum number of character in a sequence	Maximum length of characters sequences e.g. 1,2,3,4 or a,b,c,d. Range is 00h-FFh. (For example: If set to 4, 1,2,3,4,a,5 is allowed, but 1,2,3,4,5,a is not allowed). 00h = No limitation		
Maximum number of times a character can be repeated in adjacent	<ul> <li>Maximum number of times that characters can be adjacent. Range is 00h-FFh.</li> <li>00h = No limitation</li> <li>01h = Repeated characters cannot be adjacent</li> </ul>		
Manual complexity rules	<ul> <li>For each of the character types (Numeric, Alpha upper, Alpha lower, Alpha, non alpha, Non ASCII)</li> <li>Numeric = 30h39h</li> <li>Alpha upper = 41h5Ah</li> <li>Alpha lower = 61h7Ah</li> <li>Alpha = 41h5Ah + 61h7Ah</li> <li>Non alpha = 20h2Fh + 3Ah40h + 5Bh60h + 7Bh7Fh</li> <li>Non ASCII = 80hFFh</li> </ul>		

## Setting IDPrime PIN Properties (Advanced Tab)

The Advanced tab enables you to define PIN properties that must be met in order for the PIN to be accepted.

The **Advanced** tab is available for all IDPrime based devices.

- > Select Settings in the left pane, to view the user PIN Quality/Advanced tabs in the right pane.
  - Select Digital Signature PIN in the left pane, to view the Digital Signature PIN Quality/Advanced tabs in the right pane.
  - Select **Digital Signature PUK** in the left pane, to view the Digital Signature **PIN Quality/Advanced** tabs in the right pane.

**NOTE** The setting of *Digital Signature PIN* and *Digital Signature PUK* are disabled in linked mode.

		THALES
SafeNet Authe	entication Client	🏶 💿 i ? 🐽
SafeNet Authentication Client Tools Tokens Card #84803B7C7BF2E34B Settings Digital Signature PIN Digital Signature PUK Client Settings	PIN Quality       Advanced         PIN Properties       PIN Type:         PIN Purpose:       Cache Type:         Cache Timeout:       PIN Rags:         External PIN Rags:       PIN Validity         Validity period (days):       Expiration warning period (days):	Regular PIN       ~         Primary Card PIN       ~         Normal Cache       ~         0       •         No Flags       ~         No Flags       ~         0       •         0       •         0       •         0       •         0       •         0       •         0       •         0       •         0       •         0       •
٢		Save Discard
		thalesgroup.com

**NOTE** For Non-Managed cards, IDClassic 410, IDPrime SIS 840 and IDPrime 940 SIS cards, the parameters of this tab are disabled.

#### For IDPrime cards

Following **PIN Property** parameters exist in the Advanced Tab:

PIN Property Parameter	Description
PIN Type	<ul> <li>Regular PIN - Use the keyboard to enter a PIN</li> <li>External PIN - Use an external keyboard/key pad</li> </ul>

PIN Property Parameter	Description
PIN Purpose	<ul> <li>Defines the purpose of the PIN. This property is for information only.</li> <li>The following options are available:</li> <li>Authentication PIN</li> <li>Digital Signature PIN</li> <li>Encryption PIN</li> <li>Non Repudiation PIN</li> <li>Administrator PIN</li> <li>Primary Card PIN</li> <li>Unlock Only PIN</li> </ul>
Cache Type	<ul> <li>Select one of the following Cache Type functions:</li> <li>Normal Cache</li> <li>Timed Cache (Minidriver)</li> <li>No Cache (Minidriver)</li> <li>Always Prompt</li> </ul>
Cache Timeout	<ul> <li>&gt; This field is activated only if <i>Timed Cache (Minidriver)</i> is selected in the Cache Type parameter above.</li> <li>&gt; Defines the number of seconds it takes before the cache times out.</li> </ul>
PIN Flags	<ul> <li>These flags are for backward compatibility only.</li> <li>No Flags</li> <li>Required Security Entry</li> </ul>
Ext. PIN Flags	<ul> <li>The following options are available:</li> <li>No Flags - PINs are considered as follows: <ul> <li>Regular PIN &amp; Normal Reader ==&gt; Regular PIN</li> <li>Regular PIN &amp; PIN Pad Reader ==&gt; External PIN</li> <li>External PIN &amp; Normal Reader ==&gt; Regular PIN</li> <li>External PIN &amp; PIN Pad Reader ==&gt; External PIN</li> </ul> </li> <li>No Regular fallback - changes the third case as follows: <ul> <li>External PIN &amp; Normal Reader ==&gt; Login refused</li> </ul> </li> <li>No Auto PIN Pad - changes the second case as follows: <ul> <li>Regular PIN &amp; PIN Pad Reader ==&gt; Regular PIN</li> </ul> </li> </ul>

Following **PIN Validity** parameters exist in the *Advanced* Tab:

PIN Validity Parameter	Description
Validity period (days)	Default: 0 (no validity period) The maximum period, in days, before the PIN must be changed. When the PIN expires, the user is forced to change the PIN value the next time that the PIN is presented.
Expiration warning period (days)	Default: 0 (no warning) Defines the number of days before the PIN expires that a warning message is shown.

**NOTE** *PIN Quality* and *PIN Property* settings can be accessed when Initializing a device. Refer to "Initializing IDPrime Devices" on page 56.

# **CHAPTER 6:** Client Settings

Client Settings are basically the settings of the SAC Tools. It includes the parameters that are saved to the computer and applied to all tokens that are initialized on the computer after the settings have been configured. Client Settings displays two tabs, the *Password Quality* tab and the *Advanced* tab.

To know about the settings applied to a specific token, refer to "Token Settings" on page 68

## Setting Password Quality (Password Quality Tab)

The Client's *Password Quality* tab enables the administrator to set certain complexity and usage requirements for token passwords.

		THALES
SafeNet Auther	ntication Client	🏶 😳 🧯 <b>?</b> 🚖
afeNet Authentication Client Tools Fokens Broadcom Corp Contacted SmartCard 0 SafeNet e Token 5110 Settings Client Settings	Password Qualty       Advanced         Minimum length (characters):       Maximum length (characters):         Minimum usage period (days):       Maximum usage period (days):         Maximum usage period (days):       Expiration warning period (days):         History size:       Maximum consecutive repetitions:         Must meet complexity requirements:       Manual Complexity Rules         Upper-case letters:       Permitted       Numerals:         Lower-case letters:       Permitted       Special characters	8 16 1 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1
٤	Set to Default Si	ave Discard
		thalesgroup.com

To set PIN Quality parameters for IDPrime cards, refer to "Setting IDPrime PIN Quality (PIN Quality Tab)" on page 71.

**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.

Perform the following steps to set the Password Quality:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. In the left pane, select Client Settings.
- 3. In the right pane, select the Password Quality tab.

The Password Quality tab is displayed.

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

**NOTE** The Client *Password Quality* settings are configured the same way as the Token *Password Quality* settings. Refer to "Setting eToken Password Quality (Password Quality Tab)" on page 68.

- 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.

## Setting Advanced Properties (Advanced Tab)

The Client's *Advanced* tab enables you to configure password quality, SAC tray icon visibility, token activity, and more.

			Т	H/	۸L	ES
SafeNet Auther	ntication Client	٢	<u></u>	i	?	
SafeNet Authentication Client Tools	Password Quality Advanced					
My Token	Copy user certificates to the local store. Copy CA certificates to the local store.					
	Enable single logon for PKCS#11.      Allow password quality configuration on token after initialization	ation.				
	Allow only an administrator to configure password quality of	n token.		_		
	Show application tray icon: Automatic logoff after token inactivity (in minutes):	Always		1		* *
	Enable Logging	Save	e	D	)iscard	

Perform following steps to set advanced options for the Client:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. In the left pane, select Client Settings.
- 3. In the right pane, select the Advanced tab.

The **Advanced** tab is displayed.

4. Select following as per the requirement:

Option	Description
Copy user certificates to the local store	<ul> <li>SAC 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.</li> <li>Select this option to control the automatic installation of the token's user certificates to the local certificate store upon token connection.</li> </ul>
	<b>NOTE</b> This option is selected by default.

Option	Description		
Copy CA Certificates to the Local Store	<ul> <li>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.</li> <li>Select this option to control the automatic installation of the token's CA certificates to the local certificate store upon token connection.</li> </ul>		
	<b>NOTE</b> Microsoft displays a security warning when it detects that CA certificates are be installed to the local store. To permit the certificates to be installed from the token, the user must click <b>Yes</b> .		
	<b>NOTE</b> This option is selected by default.		
Enable 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.		
	<b>NOTE</b> This option is disabled by default.		
	<b>NOTE</b> When single logon is set using SAC Tools, Windows Logon is not included in the single logon process. Only an administrator can configure Windows Logon as single logon.		
	> Select one of the following:		
	<ul> <li>To enable Single Logon for MS Cryptography, select Enable single logon.</li> <li>To enable Single Logon for MS Cryptography and PKCS#11 cryptography, select Enable single logon and then select Enable single Logon for PKCS#11.</li> </ul>		
	<b>TIP</b> To activate the single logon feature, log off from the computer and log on again.		
Allow password This option determines whether the password quality parameters on the token can be changed after initialization.			
on token after initialization	<ul> <li>Select this option to enable password quality configuration after initialization.</li> </ul>		
Allow only an administrator to	This option determines whether the password quality parameters on the token can be changed after initialization by the administrator only, and not by the user.		
configure password quality on token	<b>NOTE</b> This option is selected by default.		
	<ul> <li>Select one of the following:</li> <li>To enable configuration by the administrator only select Allow only an</li> </ul>		
	administrator to configure password quality on token.		
	<ul> <li>To enable configuration by the user also, clear Allow only an administrator to configure password quality on token.</li> </ul>		

Option	Description
Show application tray icon	This options determines whether the SafeNet Authentication Client tray icon can be displayed or not.
	<b>NOTE</b> The default value of this option is <i>Always</i> .
	Select one of the following:
	> Never: The tray icon is never displayed.
	> Always: The tray icon is always displayed.
Automatic logoff after token inactivity	<ul> <li>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.</li> <li>Select one of the following: <ul> <li>Never- The token password must be entered once, and the token remains logged on as long as it remains connected.</li> </ul> </li> </ul>
	<ul> <li>Always- The token password must be entered each time the token contents are accessed.</li> </ul>
	• <b>After</b> - 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 - 240).
Enabling Logging	The logging function generates logs for SafeNet Authentication Client activities.
	<b>NOTE</b> You must have administrator privileges to use the logging function.
	For details, refer to below steps.

For Windows - The log files are located in: C:\WINDOWS\Temp\eToken.log

#### To activate the logging function

Perform the following steps:

#### 1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

- 2. In the left pane, select **Client Settings**.
- 3. In the right pane, select the Advanced tab, and click Enable Logging.

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

#### To disable the logging feature

Perform the following steps:

1. Open SafeNet Authentication Client Tools > Advanced View.

Refer to "Opening the Advanced View" on page 16.

2. In the left pane, select Client Settings.

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

# **CHAPTER 7:** Working with Common Criteria

SafeNet Authentication Client (SAC) supports Thales IDPrime Common Criteria (CC) cards range as well as eToken 5110 CC.

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

For a detailed list of supported cards, refer to SafeNet Authentication Client Release Notes.

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

- 1. Unlinked Mode
- 2. Linked Mode



## Unlinked Mode (4 Passwords)

NOTE Common Criteria devices are set to work in Unlinked Mode by default.

The following four common criteria device passwords are required in Unlinked Mode:

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

#### NOTE

- If the device is in Unlinked Mode, the new user password is used for both the *Token Password* and *Digital Signature PIN* when unblocking a device.

- When initializing a device in Unlinked Mode and the *Token Password Must be changed at first logon* option is selected, both the Token (User) Password and Digital Signature PIN are affected (ensure that both the Token Password and Digital Signature PIN are changed).

## Linked Mode (2 Passwords)

To work in the Linked mode, each token/card must be initialized. User needs to select the *Use the same token* and administrator passwords for digital signature operation check box available in the **Initialize Token**-**IDPrime Common Criteria Settings** window during the token initialization.

In order to set the Linked Mode, administrator rights on your PC are required to change SAC default configuration. For more details, refer to **Configuration Properties** > **Initialization Settings** section in the *SafeNet Authentication Client Administrator Guide* where a registry value (LinkMode) is described to enable the Linked Mode initialization.

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

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

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



#### Linked Mode PIN Policy Settings

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

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

## **Common Criteria Extended Functions**

When in unlinked mode, the following Digital Signing function icons are displayed in *SAC Tools* > *Advanced View*:

User Function	Icon	Right-Click Menu Item
Change Digital Signature PIN	3	Change Digital Signature PIN
Change Digital Signature PUK	<b>*</b>	Change Digital Signature PUK
Set Digital Signature PIN	*	Set Digital Signature PIN

#### **Change Digital Signature PIN**

Use this option to change the Digital Signature PIN.

Perform the following steps:

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

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

• In the left pane, right-click the node of the required token, and select Change Digital Signature PIN.

The Change Digital Signature PIN window is displayed.

SafeNet Authentication Client	TH/	LES
Current Digital Signature PIN:		
New Digital Signature PIN:		
Confirm PIN:		
The new PIN must comply with the quality settings defined on the	token.	
A secure PIN has at least 8 characters, and contains upper-case le and special characters (such as !, \$, #, %).	etters, lower-case let	ters, numerals,
Current Language: EN		
Enter your current PIN.		
	ОК	Cancel

- 3. Enter the Current Digital Signature PIN.
- 4. Enter the New Digital Signature PIN.
- 5. Confirm the New Digital Signature PIN, and click OK.

The Password Changed Successfully window is displayed.

6. Click OK.

#### **Change Digital Signature PUK**

NOTE This feature is not available for IDPrime SIS 840/ 940 SIS /IDClassic 410 cards.

Use this option to change the Digital Signature PUK.

Perform the following steps:

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

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

• In the left pane, right-click the node of the required token, and select Change Digital Signature PUK.

The Change Digital Signature PUK window is displayed.

SafeNet Authenticati	on Client	тни	LES
Current Digital Signature PUK:	•••••		
New Digital Signature PUK:	•••••		
Confirm PUK:	•••••		
The new PUK must comply with the	quality settings defined on the tok	en.	
A secure PUK has at least 8 charact and special characters (such as !, \$,	ers, and contains upper-case lette #, %).	rs, lower-case let	tters, numerals,
Current Language: EN			
		OK	Cancel

- 3. Enter the Current Digital Signature PUK.
- 4. Enter the New Digital Signature PUK.
- 5. Confirm the New Digital Signature PUK, and click OK.

The **Password Changed Successfully** window is displayed.

6. Click OK.

#### Set Digital Signature PIN

Use this option to change the Digital Signature PIN using the Digital Signature PUK. Perform the following steps:

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

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

• In the left pane, right-click the node of the required token, and select Set Digital Signature PIN.

The Digital Signature PUK Logon window is displayed.

SafeNet Authenticat	tion Client	THA	LES
Enter the Digital Signature PUK:			
Token Name:	FIDO-940CC		
Digital Signature PUK:	1		
	Current Language: EN		
		OK	Cancel

3. Enter the Digital Signature PUK and click OK.

The **Set PIN** window is displayed.

SafeNet Authentica	tion Client	тни	LES
New Digital Signature PIN:	•••••		
Confirm PIN:	•••••		
Token PIN must be changed of	on first logon		
The new PIN must comply with th	e quality settings defined on the	e token.	
A secure PIN has at least 8 chara and special characters (such as !,	cters, and contains upper-case \$, #, %).	e letters, lower-case lett	ers, numerals,
Current Language: EN			
		OK	Cancel

- 4. Enter a New Digital Signature PIN.
- 5. Confirm the New Digital Signature PIN, and click OK.

The **Password Changed Successfully** window is displayed.

6. Click OK.

## PKCS#11 Digital Signature PIN Authentication

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

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

The application must then call C\_Login on the virtual slot as a CKU\_USER to provide the qualified Digital Signature PIN (PIN role #3).

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

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

For setting Multi-Slot values, refer to SafeNet Authentication Client Administrator Guide.

## **Operational Differences and Role Protection**

Below displays the differences between eToken 5100 CC (legacy) and other tokens regarding the roles that protect the specific operation.

Operation	<ul><li>Password required to perform the specified operation on:</li><li>eToken 5100 CC (legacy)</li></ul>	<ul> <li>Password required to perform the specified operation on:</li> <li>SafeNet IDPrime 940/3940/SIS 840/940 SIS</li> <li>IDClassic 410</li> <li>IDPrime 840/840B/3840/3840B</li> <li>eToken 5110 CC</li> </ul>
Initialize <b>NOTE</b> This feature is disabled for IDPrime SIS 840/ 940 SIS /IDClassic 410 cards.	Initialization Key	Administrator Password
Generate sign only key pair	Token Password	Token Password + Digital Signature PIN
Generate exchange key pair	Token Password	Token Password

Operation	<ul><li>Password required to perform the specified operation on:</li><li>eToken 5100 CC (legacy)</li></ul>	<ul> <li>Password required to perform the specified operation on:</li> <li>SafeNet IDPrime 940/3940/SIS 840/940 SIS</li> <li>IDClassic 410</li> <li>IDPrime 840/840B/3840/3840B</li> <li>eToken 5110 CC</li> </ul>
Import sign only key pair <b>NOTE</b> This feature is disabled for IDPrime SIS 840 and IDClassic 410 cards.	Import Password	Token Password + Digital Signature PIN
Import exchange key pair	Token Password	Token Password
Delete sign only key pair	Token Password	Token Password
Delete exchange key pair	Token Password	Token Password
Sign with sign only key pair	Token Password	Digital Signature PIN
Sign with exchange only key pair	Token Password	Token Password
Decrypt	Token Password	Token Password
Unlock	Token Password is unlocked by the Digital Signature PUK	<ul> <li>Token Password is unlocked by the Administrator Password</li> <li>Digital Signature PIN is unlocked by the Digital Signature PUK</li> </ul>

# **CHAPTER 8:** Working with SafeNet eToken 5300

SafeNet eToken 5300 (an IDPrime card) is an ideal solution for enterprises looking to deploy the military-grade security of PKI, while maintaining a convenient solution for employees. The eToken 5300 is a compact, tamper-evident USB with presence detection, which creates a third factor of authentication. Something you have (physical token), something you know (PIN), something you do (enabling touch sensor).

The eToken 5300 offers multi-application dynamic smart card functionality. It can be used with any USB connection for Identity and Access Management applications such as network authentication, digital signatures, email encryption and other advanced services based on Public Key Infrastructure (PKI). The eToken 5300 is certified FIPS 140-2 L3 at the full token boundary.

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

## eToken 5300 Certificates

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

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

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

The eToken 5300 is available in the following configurations:

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

#### NOTE

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

## Viewing eToken 5300 Information

Perform the following steps to view eToken 5300 touch sense configurations in SAC Tools:

- 1. Do one of the following:
  - Right-click the SafeNet Authentication Client tray icon, and select Tools.
  - From the Windows taskbar, select Start > All Programs > SafeNet > SafeNet Authentication Client > SafeNet Authentication Client.

The SafeNet Authentication Client Tools window is displayed in the Simple View.

2. Click the Advanced View icon.

The SafeNet Authentication Client Tools window is displayed in the Advanced View.

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

The Token's Information is displayed.

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

#### **Touch Sense support - Signature Keys**

afeNet Authe	entication Clie	ent 🛛 🕸 💿 🛔 🥐	r
<ul> <li>SafeNet Authentication Client Tools</li> <li>Tokens</li> </ul>	🥺 🖡 🗊 🔪 🔪 🕷 🕼 🕼	Se   🎒	
> 👷 5300	Free space (minimum estimated)	28293	
Sources Client Settings	Card ID (GUID)	0x348000032E079577348000032E079577	
	Product name	SafeNet eToken 5300	
	Card type	IDPrime	
	Applet Version	IDPrime Java Applet 4.3.5.D	
	Mask version	G286	
	Token Password	Present	
	Token Password retries remaining	15	
	Maximum Token Password retries	15	
	Token Password expiration	No expiration	
	Administrator Password	Present	
	Administrator Password retries remaining	5	
	Maximum administrator Password retries	5	
	FIPS	FIPS 140-2	
	Full Secure Messaging (SM)	Yes	
	Sign padding on-board	Yes	
	Touch Sense support	Signature keys	
	Supported key size	2048 bits	

**Touch Sense support - Signature and Exchange Keys** 

		THAL	ES
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<ul> <li>SafeNet Authentication Client Tools</li> <li>Tokens</li> </ul>	🥹 🖡 🗖 🔪 🔪 👘 🕲 🔐 (	S   🗗	
> 👷 5300	Free space (minimum estimated)	28293	
ିଲ୍ଟରୁ Client Settings	Card ID (GUID)	0x348000032E079577348000032E079577	
	Product name	SafeNet eToken 5300	
	Card type	IDPrime	
	Applet Version	IDPrime Java Applet 4.3.5.D	
	Mask version	G286	
	Token Password	Present	
	Token Password retries remaining	15	
	Maximum Token Password retries	15	
	Token Password expiration	No expiration	
	Administrator Password	Present	
	Administrator Password retries remaining	5	
	Maximum administrator Password retries	5	
	FIPS	FIPS 140-2	
	Full Secure Messaging (SM)	Yes	
	Sign padding on-board	Yes	
	Touch Sense support	Signature and Exchange keys	

#### **Touch Sense support - Exchange Keys**

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SafeNet Authentication Client Too ∽ -∡ Tokens	le 🧕 🖗 🗊 🖻 🔨 🖡 🔊 🖬	i 🖌 ا
> 🤵 5300	Free space (minimum estimated)	28293
ି ୍ବାରୁ Client Settings	Card ID (GUID)	0x348000032E079577348000032E079577
	Product name	SafeNet eToken 5300
	Card type	IDPrime
	Applet Version	IDPrime Java Applet 4.3.5.D
	Mask version	G286
	Token Password	Present
	Token Password retries remaining	15
	Maximum Token Password retries	15
	Token Password expiration	No expiration
	Administrator Password	Present
	Administrator Password retries remaining	ng 5
	Maximum administrator Password retrie	es 5
	FIPS	FIPS 140-2
	Full Secure Messaging (SM)	Yes
	Sign padding on-board	Yes
	Touch Sense support	Exchange keys
	Supported key size	2048 bits

## Using the eToken 5300 Touch Sense

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

For more details, refer to the Touch Sense Notify and ForceCreateWithoutTouchSens properties in the **Configuration Properties** chapter of *SafeNet Authentication Client Administrator Guide*.

## eToken 5300 Touch Sense Timeout and Grace period

#### **Touch Sense Timeout**

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

#### **Touch Sense Grace Period**

The eToken 5300 has a 30 second grace period.

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

# **CHAPTER 9:** Working with PIN Pad Readers

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

For a complete list of smart cards supported with PIN Pad readers, refer to *SafeNet Authentication Client Release Notes*.

## PIN Pad Readers with IDPrime Cards

The following PINs are configured as external PINs. They are supported by PKCS#11 and SafeNet Minidriver:

- IDPrime MD 3840/840 and SafeNet IDPrime 3940/940 Cards Role 1 (User), Role 3 (Digital Signature PIN) and Role 4 (Digitial Signature PUK)
- > IDPrime MD 830/3810/930/3930 Role 1 (User) only

**NOTE** The PIN entry is requested for each signature performed with Role 3, as Role 3 protects Certificates with Non-repudiation Key usage.

## PIN Pad Management Scenarios

Below table describes the different scenarios for PINs and PIN Pad readers:

Scenario	Initial PIN Type	Connected Reader	PIN Operating Mode
1	Regular	Normal	Regular
2	Regular	PIN Pad	External
3	External	Normal	Regular
4	External	PIN Pad	External

- > Regular PIN is entered using the computer keyboard
- > External PIN is entered using an external PIN pad reader
- > Setting the NoRegularFallback flag changes the third scenario as follows:

External PIN & Normal Reader - Login refused

> Setting the NoAutoPINpad flag changes the second scenario as follows:

Regular PIN & PIN Pad Reader - Regular PIN

#### **PIN Pad Functions**

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

- > Logging on to the token (Refer to "Logging On to the Token as a User" on page 31).
- > Change PIN (Refer to "Changing the Token Password" on page 32).
- Unlock Token by the Challenge-Response Method (Refer to "Unlocking a Token by the Challenge-Response Method" on page 42).
- Setting a Token Password by an Administrator (Refer to "Setting a Token Password by an Administrator" on page 44).

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

> When performing a user operation, the following message appears:

S Use PIN Pad to Logon	X
SafeNet Authentication Client	THALES
Enter the User PIN via the PIN Pad reader.	
To cancel the operation, press the 'C' button on the PIN Pad r	eader for a few seconds.

> When performing a sign operation using a Common Criteria device, the following message appears:



> When changing a Digital Signature PIN, the following message appears:



> When changing a Digital Signature PUK, the following message appears:



> When setting the Digital Signature PIN, the following message appears:

🕵 Use PIN Pad to Initialize PIN	X
SafeNet Authentication Client	THALES
Set the Digital Signature PIN via the PIN Pad reader.	
To cancel the operation, press the 'C' button on the PIN Pad r	eader for a few seconds.

## **PIN Pad Functional Limitations**

The following functional limitations exist with the PIN pad:

- > When using an IDPrime MD 840/3840 device with the **Must change password on first logon** feature enabled, you are required to log in again.
- > Secure Messaging (SM) PINs are not supported (FIPS level 3).
- > EZIO Shield PRO reader does not support Secure Messaging (SM) protected operations such as import key pair, generate key pair and change administrator key.
- Some PIN pad readers (for example: EZIO Bluetooth) have their built-in password policies. When changing the password via these readers, the new password must comply with both the reader's password quality and card password quality policies.

## Must Change Password

When using a PIN Pad with a card configured with *Must Change Password* (for User PIN and/or Digital Signature PIN), during the first login the password is changed with the keyboard. Subsequently, the PIN Pad must be used to change the password.

SUse PIN Pad to Change PIN	X
SafeNet Authentication Client	THALES
Change the User PIN via the PIN Pad reader.	
To cancel the operation, press the 'C' button on the PIN Pad r	reader for a few seconds.

**NOTE** Refer to your PIN Pad reader documentation to verify whether the reader permits PIN change with the keyboard.