

Gemalto's SafeNet Authentication Client

SDK CUSTOMER RELEASE NOTES

Version: 9.0
Build 8
Issue Date: 2 June 2015
Document Part Number: 007-013114-001, Revision A

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Product Description

Gemalto's SafeNet Authentication Client SDK enables developers to integrate third-party applications and services with SafeNet's tokens. Generic integration with both Microsoft CNG, CAPI and PKCS#11 security interfaces enables interoperability with a variety of security application such as Web Access, VPN Access, Network Logon, PC Protection and Secure eMail.

Gemalto's SafeNet Authentication Client SDK:

- Demonstrates how to perform cryptographic operations on SafeNet tokens
- Demonstrates how to use the PKCS#11 API and API extensions
- Contains a wrapper for PKCS#11 implantations as well as for SafeNet extensions

Release Description

The SAC 9.0 SDK release is a cross-platform SDK version, which introduces new features and enhancements, as well as supports Windows, Linux, and Mac operating systems.

New Features and Enhancements

Enhancements have been made to the supported API's since previous versions of SafeNet Authentication Client.

Cross-platform SAC eToken SDK

SafeNet Authentication Client 9.0 SDK is the first cross platform SAC SDK version.

The SAC9.0 SDK contains a windows solution (Samples.sln) that demonstrates all product API's in three main language Categories:

- C++
- C#
- Java

Linux (Samples.pro) and MAC (Samples.xcodeproj) solutions cover all relevant API's (PKCS#11 and PKCS#11EX) used in the platforms.

The native language used in the samples is C/C++. Java SUN sample will also work.

New Code Sample

etdUtil is a new sample that demonstrates a new API used in eToken drive.

This sample demonstrates how to unlock and open a token's secured flash, making the secured flash accessible for read and write.

- Writing to the CD area
- Signing and re-updating the CD Content
- Working with the hidden area (how to write and read from the hidden area)

New eToken Device Supported

SafeNet eToken 5110 supports ECC capabilities.

Advisory Notes

Installing SAC SDK

Ensure that SAC 9.0 is installed.

The SDK installation path is: **C:\Users\[user-name]\Documents\SafeNet\Authentication\SAC\SDK**



NOTE: SAC 9.0 does not need to be installed when working with HID based tokens. However, the following binary files must exist on the machine:

eToken.dll, eTokenHID.dll, and eTPKCS11.dll

Development Environments

Windows supported development environments:

- Visual Studio 2012

Linux supported development environments:

- QT Creator 2.6.2

Mac supported development environments:

- Xcode 6.3.2

Operating Systems

The following Windows operating systems are supported:

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

The following Linux operating systems:

- Red Hat 6.6 (32-bit and 64-bit), 7.0 (64-bit)
- Ubuntu 13.10, 14.04 (32-bit and 64-bit)
- SUSE Enterprise Desktop 11.3 (32-bit and 64-bit), 12.0 (64-bit)
- CentOS 6.6 (32-bit and 64-bit), 7.0 (64-bit)
- Fedora 20 (32-bit and 64-bit)
- Debian 7.7 (32-bit and 64-bit)

The following Mac operating systems are supported:

- OS X 10.9 (Mavericks)
- OS X 10.10 (Yosemite)

Tokens

The following tokens are supported:

Certificate-based USB tokens

- SafeNet eToken PRO Java 72K
- SafeNet eToken PRO Anywhere
- SafeNet eToken 5100/5105
- SafeNet eToken 5200/5205
- SafeNet eToken 5200/5205 HID
- SafeNet eToken 5110
- SafeNet eToken 5110 HID

Smart Cards

- SafeNet eToken PRO Smartcard 72K
- SafeNet eToken 4100

Certificate-based Hybrid USB Tokens

- SafeNet eToken 7300
- SafeNet eToken 7300-HID
- SafeNet eToken 7000 (SafeNet eToken NG-OTP)

Software Tokens

- SafeNet eToken Virtual
- SafeNet eToken Rescue

End-of-Sale Tokens/Smart Cards

- SafeNet iKey: 2032, 2032u, 2032i (Windows and Mac only)
- SafeNet smart cards: SC330, SC330u, SC330i
- SafeNet eToken 7100 (SafeNet eToken NG-Flash)
- SafeNet eToken 5000 (iKey 4000)
- SafeNet eToken 4000 (SC400)
- eToken PRO 32K v4.2B
- eToken PRO 64K v4.2B
- eToken Pro SC 32K v4.2B
- eToken Pro SC 64K v4.2B

External Smart Card Readers

Gemalto's SafeNet Authentication Client 9.0 SDK supports the following smart card readers:

- SCR 3310 v2 Reader
- Athena AESDrive IIIe USB v2 and v3
- ACR
- Athena Keyboard
- GemPC CCID
- Omnikey 3121
- Dell Broadcom
- Unotron



NOTE:

- SC Reader drivers must be compatible with the extended APDU format in order to be used with RSA-2048.
 - The latest CCID Driver must be installed when using Athena v3.
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Product Documentation

The following product documentation is associated with this release:

- Gemalto's SafeNet Authentication Client Developer's Guide 9.0_Revision A
- Gemalto's SafeNet Authentication Client SDK 9.0

We have attempted to make these documents complete, accurate, and useful, but we cannot guarantee them to be perfect. When we discover errors or omissions, or they are brought to our attention, we endeavor to correct them in succeeding releases of the product.

Support Contacts

If you have questions or need additional assistance, contact SafeNet Customer Support through the listings below:

Contact Method	Contact Information
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