



**Gemalto .NET Smart Cards
PKCS#11 Library and TokenD for
Mac - Release 2.1.3.1
Release Notes**

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These release notes provide particular details about release 2.1.3.1 of .NET Smart Cards PKCS#11 Library and TokenD for Mac.

What's New?

This section describes all the differences between this release 2.1.3.1 and the previous official release 2.1.3.

New Features

This release supports “No PIN” type user PINs (in the Minidriver sense of the term). This means that all key containers that are protected by the user PIN can be used without having to enter the user PIN.

Corrected Problems

- The way in which the serial number returned by the “C_GetTokenInfo” method changed between v2.1.1 to v2.1.3. This bug has been fixed, and the current cryptoki version now returns the same serial number as in v2.1.1.

What's Old?

This section describes what has been removed in this current release and provides a history of the changes made in previous releases.

No Longer Supported

No support has been removed for release 2.1.3.1.

Revision History

Improvements in .NET Smart Cards PKCS#11 Library and TokenD for Mac 2.1.3 (since 2.1.1)

OS Supported:

- Added Mac OS 10.6 (Snow Leopard) Intel 32-bits and 64-bits
- Removed Mac OS 10.5 (Leopard) Power PC

Applications Supported:

- Added Mozilla Firefox 3.5

- Removed Mozilla Firefox 2.0
- Added Adobe Acrobat 9.X
- Removed Adobe Acrobat 8.X
- Removed Lotus Notes 7.X

Readers Supported:

- PIN pad readers compliant with PC/SC V2.0 specification, although only for the **Verify PIN** operation. For other PIN operations such as **Change PIN** and **Unblock PIN**, the readers act in transparent mode, that is, like an ordinary smart card reader.

Corrected problems:

- A problem was corrected in order to enable support of Firefox 3.0.13 and 3.5.2. This was done by enabling PKCS#11 templates to support attributes of "null" size. In such a case, the attribute is ignored and the rest of the template is processed.
- There was a bug fix concerning multisessions.

Improvements in .NET Smart Cards PKCS#11 Library and TokenD for Mac 2.1.1 (since 2.1)

OS Supported:

- Removed support for Mac OS 10.4 (Tiger) Power PC and Intel

Applications Supported:

- Added OpenOffice 3.X
- Removed OpenOffice 2.X
- Removed Mail (Mac's native e-mail program) version 2.x
- Removed Keychain 3.X

Features added:

- SSO (Single Sign-On) mode supported if .NET policy configured accordingly.

Improvements in .NET Smart Cards PKCS#11 Library and TokenD for Mac 2.1 (since 2.0)

PKCS#11 Module:

- C_GetSlotList method behaves differently so PC/SC reader list is refreshed each time the method is called.

TokenD Module:

- Change the credential list computed for the KeyChain

The new TokenD constructs the credential list presenting only the certificate and the private key. The capabilities of the private key are taken directly from the capabilities given in its corresponding X509 certificate. The modulus of the public key in the certificate is used to retrieve the private key from the smart card.

- Optimization

The speed has been optimized to increase performance.

- Naming

The token name presented in the KeyChain has changed. The new name is in the format "Gemalto smartcard X (Y)" where X is the PKCS#11 label of the smart card and Y is the serial number of the smart card.

What's In?

This section provides a full list of hardware, operating systems, peripherals and software that are supported by Gemalto for use with this current version of .NET Smart Cards PKCS#11 Library and TokenD for Mac.

Supported Operating Systems

This section provides a full list of all the OS supported by this current version of .NET Smart Cards PKCS#11 Library and TokenD for Mac.

PKCS#11 for .NET Smart Cards supports the following operating systems (32-bits and 64-bits in all cases):

- Mac OS 10.5 (Leopard) Intel
- Mac OS 10.6 (Snow Leopard) Intel

Note: Unless indicated otherwise, all Service Packs (SP) associated with the various OS are supported.

Supported Applications

This section provides a full list of all the applications supported for this current release of .NET Smart Cards PKCS#11 Library and TokenD for Mac.

Browsers

To view secure Web sites from your computer with PKCS#11 for .NET Smart Cards, you can use any of the following Web browsers:

- Mozilla Firefox versions 3.0 and 3.5
You can download the latest version, free of charge, from www.mozilla.org.
- Safari version 3.X

E-mail Applications

To digitally sign or encrypt emails with PKCS#11 for .NET Smart Cards, you can use any of the following e-mail programs:

- Mozilla Thunderbird version 2.0
You can download the latest version, free of charge, from www.mozilla.org.
- Mail (Mac's native e-mail program) version 3.X

Other Applications

- Adobe Acrobat 9.x
- Keychain 4.X
- Microsoft Office 2008 for Mac
- OpenOffice 3.X

Supported Readers

The smart card reader may be integrated with the Mac operating system or it can be an external device that is connected via USB. The solution is compatible with any certified Chip Card Interface Device (CCID), USB class or embedded smart card reader; for example Gemalto's USB Shell Token V2 and PC Twin.

PIN pad readers that are compliant with the PC/SC V2.0 specification are supported but the PIN pad itself can be used only for the **Verify PIN** function.

What's Up?

This section provides a list of the known issues at the time of this current release and also of the limitations of the product.

Known Issues

The following issues were known at the time of writing this release note.

Smart Enterprise Guardian (SEG)

The SEG is not supported on Linux and Mac OS X operating systems because the smart card reader is not seen. This is a SEG limitation due to its hardware design.

PC/SC and CCID Issues

Reader Hot-Plug

On Linux and Mac OS X, the reader hot-plug is not detected. This is a limitation of the PC/SC layer.

For example, if you plug a reader while Firefox is running, you have to close and restart the application to see the reader.

Occasional Irregular Behavior

On Mac OS X, sometimes PC/SC & CCID do not behave correctly for some PKCS#11 use cases.

For example, sometimes after a few successful calls to the smart card, the P11 is not able to retrieve the reader connection.

Gemalto USB Readers

On Mac OS X, the latest Gemalto CCID drivers must be installed to use Gemalto USB readers.

Mozilla Firefox and Thunderbird

Simultaneous Smart Cards

When browsing the cryptographic modules on either Firefox or Thunderbird with two smart cards connected and logs on with one of the smart cards, Firefox/Thunderbird considers both smart cards as being logged on.

Adobe Acrobat Reader

Adobe Acrobat Reader does not support certificate importation.

Where's the Doc?

This section describes the documentation that is provided with .NET Smart Cards PKCS#11 Library and TokenD for Mac and where to find it:

Documentation

Document	Location	Description
Gemalto .NET Smart Cards PKCS#11 Library and TokenD for Mac User Guide	<ul style="list-style-type: none">In the ZIP file containing the library.Library/Documentation	Describes the architecture and PKCS#11 methods and describes the main tasks to perform with the solution.
Release Notes (this document)	<ul style="list-style-type: none">In the ZIP file containing the library.Library/Documentation	Describes the new features and cards/readers/applications supported, added since the previous release as well as known limitations.
EULA	<ul style="list-style-type: none">Appears during installation when asked to accept terms and conditions	Describes the End User License Agreement – the terms and condition of use for .NET Smart Cards PKCS#11 Library and TokenD for Mac