

Classic Client 6.1 – 007 for Linux Release Notes

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These release notes provide particular details about release 6.1 - 007 of Classic Client for Linux.

What's New?

This section describes all the differences between this release 6.1 – 007 and the previous release 5.2.0.

Now Supported

This latest release now supports the following:

Operating Systems

- Ubuntu 10.04 LTS – 32-bit and 64-bit

Applications

Some third-party applications have evolved since the previous release of Classic Client for Linux. This release has therefore been tested with:

Browsers

- Mozilla Firefox 3.5, 3.6, and 4.0

E-Mail

- Mozilla Thunderbird 3.0 and 3.1

Other Applications

- Adobe Reader 9.x (in Ubuntu 10.04 LTS 32-bit only)

Fingerprint Scanners

- Futronic FS80: single finger scanner

Cards

The following new cards are supported by Classic Client.

- MultiApp ID IAS ECC 72K CC (with IAS XL applet)
- MultiApp ID Citizen 72K CC (with IAS Classic Applet V3)
- MultiApp ID 72K (with IAS Classic Applet V2)
- MultiApp ID 144K (with IAS Classic Applet V2)
- MultiApp ID Combi 72K Type A (with IAS Classic Applet V2)
- MultiApp ID Dual Citizen EAC 80K CC (contact and contactless) (with IAS Classic Applet V3) / TPC DM (contact and contactless) (with Classic Applet V3)

- MultiApp ID Dual Citizen EAC 144K CC (contact and contactless) (with IAS Classic Applet V3)
- MultiApp ID Citizen BioPIN
- TOP DL V2 – dual (contact and contactless) card.
- IAS TPC (with IAS XL applet)

New Features

The following features have been added to this release of Classic Client 6.1.

- Classic Client now supports fingerprint authentication as an alternative to PIN authentication. The smart card must have the MoC (Match on Card) algorithm loaded inside it.
- Classic Client supports a global bioPIN, that is, a global PIN that can be PIN or fingerprints.

Pre-requisites

For fingerprint authentication, the fingerprints must already be present in the card.

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

Operating Systems

The following operating systems are no longer supported by default, but can be supported on request:

- Redhat
- Debian
- OpenSuse

Applications

Support for the following applications has been removed in this version

Browsers

- Mozilla Firefox 3.0.

E-mail Applications

- Mozilla Thunderbird 2.0

Other Applications

- Adobe Reader 8.1

Cards

The following cards are no longer supported

- Classic MDE TPC IM (Classic MDE Applet)
- TOP DM GX4 – MPH51 – dual (contact and contactless) card with Classic MDE Applet

Revision History

Improvements in Classic Client 5.2.0

OS supported:

- Added Ubuntu 9.0.4

Enhancement:

- Added support of the new smart card MultiApp ID IAS ECC 72K CC (with IAS XL applet).

Improvements in Classic Client 5.1.8 – 003

Enhancement:

- Added support of Optelio card for Santander.

Improvements in Classic Client 5.1.8 – 002

Enhancements:

- Loading of PKCS#11 is enabled on Redhat rhel 5 even if SELinux is activated.
- Cards enrolled on Linux are fully usable on Windows operating systems.
- Added support of Classic Applet v1 and Optelio cards.

What's In?

This section provides a full list of hardware, operating systems, peripherals and software that are supported by Gemalto for use with Classic Client 6.1. It also lists the minimum system requirements to run Classic Client correctly.

System Requirements

Computers on which Classic Client is to be installed must have at least:

- 1 Gigahertz (GHz) processor or faster for 32-bit or 64-bit versions of Ubuntu
- 1 GB of RAM for 32-bit versions of Ubuntu
- 2 GB of RAM for 64-bit versions of Ubuntu

Pre-requisites

For fingerprint authentication, the fingerprints must already be present in the card.

Supported Operating Systems

The versions of Linux that are supported are:

- Ubuntu 10.04 LTS – 32-bit and 64-bit
- Other Linux operating systems upon request.
For details, contact your Gemalto technical consultant.

Supported Applications

This section gives a list of the applications that are officially supported by Classic Client 6.1. Other applications may also work successfully, but have not been validated. For information about the compatibility of Classic Client 6.1 with applications not in this list, please contact your Gemalto technical consultant.

Browsers

- Mozilla Firefox 3.5, 3.6, and 4.0

E-mail Applications

- Mozilla Thunderbird 3.0 and 3.1

Other Applications

- Adobe Reader 9.x (in Ubuntu 10.04 LTS 32-bit only) – for document signature.

Supported Readers

This section provides a list of the readers supported by Classic Client 6.1, and for each reader, the drivers that need to be installed and the OS that are compatible.

Contact:

Reader Name	Old Name	Driver	Compatible OS
PC Card	GemPC Card for laptops	PCCard 4.0.2	32-bit & 64-bit
PC Express	GemPC Express	CCID 4.0.3	32-bit & 64-bit
USB Shell Token V2	GemPCKey	CCID 4.0.3	32-bit & 64-bit
PC Twin	GemPC Twin	CCID 4.0.3	32-bit & 64-bit
USB e-Seal Token V2	Gem e-Seal	eSealP 1.0.0	32-bit
PC USB-SL and PC USB-TR	GemPC USB	CCID 4.0.3	32-bit & 64-bit

Secure PIN Pad Readers

- PC Pinpad (driver is PinPad 4.0.7.5 – compatible with 32-bit and 64-bit OS)
- GCR 5500
- Dell keyboards – SK-3105, SK-3205 and RT7D60

Fingerprint Scanners

- Futronic FS80: single finger scanner

Gemalto has tested these scanners with the Biometric Tools to ensure they work, but support for Classic Client does not normally include support for the readers themselves. It can be provided on request. Please ask your Gemalto vendor for more details.

Note: Biometric support requires an additional software license that is not covered by the standard Classic Client license. You can obtain this license at an extra cost from Gemalto. Please ask your Gemalto vendor for more details.

Supported Smart Cards

This section lists the cards supported by Classic Client 6.1 and their Answer To Resets (ATRs) and mask numbers. These values are all in hexadecimal.

- Classic TPC IXS (Classic Applet V1)
- Classic TPC IXS (Classic Applet V1) – IdenTrust version
- Classic TPC IS (Classic Applet V1)
- Classic TPC IS v2 (Classic Applet V2 default - V1 on demand)
- Classic TPC IS CC (Classic Applet V2)
- Classic TPC IM (Classic Applet V1) – IdenTrust
- Classic TPC IM (Classic Applet V2)
- Classic TPC IM CC (Classic Applet V2 default - V1 on demand)
- Classic TPC IM CC v3 (Classic Applet V3)
- TPC DM (contact and contactless) (Classic Applet V3) – same as MultiApp ID Dual Citizen EAC 80K CC
- GPK16000 (no applet) (limited support, see Product Limitations)
- Optelio D38-D72 R6 (Classic Applet V2)
- Optelio Contactless D72 R6 (Classic Applet V1)
- MultiApp Easy 72K Type B (with IAS Classic Applet V2)
- MultiApp Combi 72K Type B (with IAS Classic Applet V2)
- MultiApp ID Combi 72K Type A (with IAS Classic Applet V2)
- MultiApp ID IAS ECC 72K CC (with IAS XL Applet)
- MultiApp ID Citizen 72K CC (with IAS Classic Applet V3)
- MultiApp ID 72K (with IAS Classic Applet V2)
- MultiApp ID 144K (with IAS Classic Applet V2)
- MultiApp ID Dual Citizen EAC 80K CC (contact and contactless) (with IAS Classic Applet V3)
- MultiApp ID Dual Citizen EAC 144K CC (contact and contactless) (with IAS Classic Applet V3)
- TOP DM GX4 – MPH51 – dual (contact and contactless) card with Classic Applet V1.
- TOP DL V2 – Dual (contact and contactless) card (with Classic Applet V3).
- IAS TPC (with IAS XL applet)

Cards for use with Biometric Verification

The cards that support Biometric verification are MultiApp ID Citizen Bio cards. These cards support the global BioPIN feature. Their ATR is the same as those in the first group of ATRs in the next section.

ATRs

This section lists the ATRs for each card family. Those figures indicated in bold can differ from one card to another in the same family. All values are in hexadecimal.

Classic TPC (IXS, IS, IS V2, IS CC, IM, IM CC, IM CC V3, DM) / MultiApp ID Cards

[T=0] 3B 7D **00 00 00 80 31 80 65 B0 00 00 00 00 83 00 90 00**

[T=1] 3B FD **00 00 00 81 31 00 43 80 31 80 65 B0 00 00 00 00 83 00 90 00 00**

[T=0] Warm Reset: 3B 6D 00 00 80 31 80 65 B0 83 **00 00 00 83 00 90 00**

[T=1] Warm Reset: 3B ED 00 00 81 31 20 43 80 31 80 65 B0 83 **00 00 00 83 00 90 00 00**

Other TPC Cards (with MPCOS Applet)

[T=0] 3B 7A **00 00 00 80 65 A2 00 00 00 00 72 D6 00**

[T=1] 3B FA **00 00 00 81 31 00 43 80 65 A2 00 00 00 00 72 D6 00 00**

[T=0] Warm Reset: 3B 6A 00 00 80 65 A2 **00 00 00 00 72 D6 00**

[T=1] Warm Reset: 3B EA 00 00 81 31 20 43 80 65 A2 **00 00 00 00 72 D6 00 00**

Other TPC Cards (without MPCOS Applet - FIPS)

These cards appear as GXPPro-R3.x FIPS and GXPPro R3.x FIPS PTS

[GXPPro-R3.x FIPS] 3B 6B 00 00 80 65 B0 83 **00 00 00 83 00 90 00**

[GXPPro-R3.x FIPS PTS] 3B 7B **00 00 00 80 65 B0 83 00 00 00 83 00 90 00**

IAS TPC Cards

[IAS XL Type 1] 3B,**00,00,00,00,00,31,B8,64,00,00,00,00,73,00,00,00,82,90,00**

GPk 16000 (32-bit versions of Windows only)

3B A7 00 40 **00 80 65 A2 09 00 00 00**

Optelio Cards (D38-D72 R6)

[T=0 Normal Speed] 3B 6D 00 00 80 31 80 65 B0 84 01 00 C8 83 00 90 00

[T=0 High Speed] 3B 7D 96 00 00 80 31 80 65 B0 84 01 00 C8 83 00 90 00

[T=1 Normal Speed] 3B ED 00 00 80 31 80 65 B0 84 01 00 C8 83 00 90 00

[T=1 High Speed] 3B FD 96 00 00 81 31 48 42 80 31 80 65 B0 84 01 00 C8 83 00 90 00

Other Optelio Card (Santander)

3B 6F 00 00 80 66 B0 07 01 01 77 **00 00 00 00 00 00 90 00**

MultiApp Cards (Easy 72K Type B and Combi 72K Type B)

[MultiApp Easy 72K Type B] 3B 8E 80 01 80 31 80 66 B0 84 0C 01 6E 01 83 00 90 00 1D

[MultiApp Combi 72 K Type B T=0] 3B 6E 00 00 80 31 80 66 B0 84 0C 01 6E 01 83 00 90 00

[MultiApp Combi 72 K Type B T=1] 3B EE 00 00 81 31 80 42 80 31 80 66 B0 84 0C 01 6E 01 83 00 90 00 8E

MultiApp ID IAS ECC 72K CC (with IAS XL Applet)

[IAS XL Type 1] 3B,00,00,00,00,00,31,B8,64,00,00,00,00,73,00,00,00,82,90,00

[IAS XL Type 2] 3B,00,00,00,00,00,31,B8,64,00,00,00,00,73,00,00,00,82,90,00,00

[IAS XL Type 3] 3B,00,00,00,00,00,00,00,00,31,B8,64,00,00,00,00,73,00,00,00,82,90,00

[IAS XL Type 4] 3B, 00,00,00,00,00,00,00,00,31,B8,64, 00,00,00,00,73,00,00,00,82,90, 00,00

MultiApp ID Dual Citizen EAC 80K CC / Classic TPC DM (with IAS Applet V3) – Contactless Mode

[MultiApp ID Dual Citizen EAC 80K CC Contactless]

3B,8F,80,01,80,91,E1,31,80,65,B0,85,02,00,CF,83,00,90,00,C1

MultiApp ID Dual Citizen EAC 144K CC (with IAS Applet V3) – Contactless Mode

[MultiApp ID Dual Citizen EAC 144K CC Contactless]

3B,8F,80,01,80,91,E1,31,80,65,B0,85,02,00,E9,83,00,90,00,E7

TOP DL V2 Cards

[TOP DL V2 on Prox DU] 3B 8F 80 01 80 91 E1 31 80 65 B0 83 11 11 E5 83 00 90 00 EF

TOP DM GX4 Cards

There is one ATR when using the contact interface. When using the contactless interface, the ATR varies according to the type of card reader used:

[TOP DM GX4 – contact interface] 3B 8F 80 01 80 91 E1 31 80 65 B0 83 11 00 AC 83 00 90 00 B7

[TOP DM GX4 on SmartLogon Pro] 3B 0F 80 91 E1 31 80 65 B0 83 11 11 AC 83 00 90 00

[TOP DM GX4 on Omnikey] 3B 8F 80 01 80 91 E1 31 80 65 B0 83 11 11 AC 83 00 90 00 A6

[TOP DM GX4 on Gemalto Prox] 3B 8D 80 01 80 91 E1 31 80 65 B0 83 11 11 AC 83 00 34

JCOP41 Cards (not supported, but recognized by Classic Client)

The ATR varies according to the type of card reader used

[T=0] 3B 6A 00 FF 4A 43 4F 50 34 31 56 32 32 31

[T=1] 3B F9 18 00 00 81 31 FE 45 4A 43 4F 50 34 31 56 32 32 AF

[T=1 on OMNIKEY 1109] 3B 8A 01 43 4F 50 34 31 56 32 32 31 FF 4A

[T=0 RFID on OMNIKEY CardMan 5x21-CL] 3B 8A 80 01 4A 43 4F 50 34 31 56 32 32 31 7F

[T=1 RFID on OMNIKEY CardMan 5x21-CL] 3B 89 80 01 4A 43 4F 50 34 31 56 32 32 4D

Other Cards

The following cards are also recognized by Classic Client 5.2

[HPC card] 3B 2B 00 00 64 0E 3E 02 F0 31 80 0E 90 00

[HPC card 2] 3B 3B 94 00 00 64 0E 3E 02 F0 31 80 0E 90 00

[HIC card] 3B 3B 94 00 00 64 0E 3E 03 0F 31 80 0E 90 00

[Venez_Prox] 3B 80 80 01 01

[Venez_Omnikey] 3B 88 80 01 31 F3 5E 11 00 81 95 00 90

[GXP7 T=0] 3B 6D 00 00 80 31 80 65 B0 87 27 01 BC 83 08 90 00

[GXP7 T=1] 3B ED 00 00 81 31 80 42 80 31 80 65 B0 87 27 01 BC 83 08 90 00

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

There are certain issues independent of Classic Client that you need to know in order to use Classic client correctly.

The following Classic Client-related issues were known at the time of writing this release note.

- Document signing in Adobe Reader is not supported on 64-bit Ubuntu 10.04 LTS for this release.
- A reboot must be performed after the Classic Client installation.
- In case of re-installation of Classic Client, the user must unload and load again the Security Module in Mozilla applications.
- Under some circumstances, when multiple applications are performing pulling on the PKCS#11 layer, closing one of these applications can disable the PKCS#11 access for the other applications. The user has to close the other applications, or remove and insert the card again to restore access to the PKCS#11 layer.
- With Firefox 3.x, upon card insertion or removal, pcsc lite can miss the event. To go back to a normal state, insert or remove the card again.
- Using Firefox, if a user does not type the CSD when required, but clicks on the "Cancel" button instead, Firefox can freeze. The user has to close Firefox and restart it to go back to a normal state.
- Using Firefox, it is impossible to change the PIN of IAS XL with card 2 profile.

Where's the Doc?

This section describes the documentation that is provided with Classic Client 6.1 and where to find it:

Documentation

Document	Location	Description
Classic Client 6.1 User Guide (Linux)	▪ Classic Client installation folder (/usr/share/doc/libclassicclient)	Describes installation and how to perform end-user tasks.
Classic Client Release Notes (this document)	▪ Classic Client installation folder (/usr/share/doc/libclassicclient)	Describes the new features and cards/readers/applications supported, added since 6.1.0 as well as known limitations.
EULA	▪ Classic Client installation folder (/usr/share/doc/libclassicclient)	Describes the End User License Agreement – the terms and condition of use for Classic Client 6.1