



Bit4id tokenME

User manual

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ISO 9001:2008
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1. Introduction

This document was written to illustrate the use of tokenME FIPS and tokenME CC (thereafter tokenME) and contains the documentation about the hardware specifications and special features.

tokenME has been implemented to be integrated into a large number of application and scenarios concerning digital signature and authentication into PKI infrastructures (Public Key Infrastructures). The device is totally driverless and needs no installation (on Microsoft platforms starting from Vista) to make it work.

Bit4id has made available a “configurator” that allow to use the digital identity into various applications just by following the simple wizard once started the application.

2. Inserting the Device

tokenME has to be inserted into the host PC as shown in Figure 1.



Figure 1

Once inserted the OS will recognise two devices that can be identified following the path “Start>Devices and Printers”. In this window two icons will be shown: Smart Card and TokenME (please refer to figure 2).

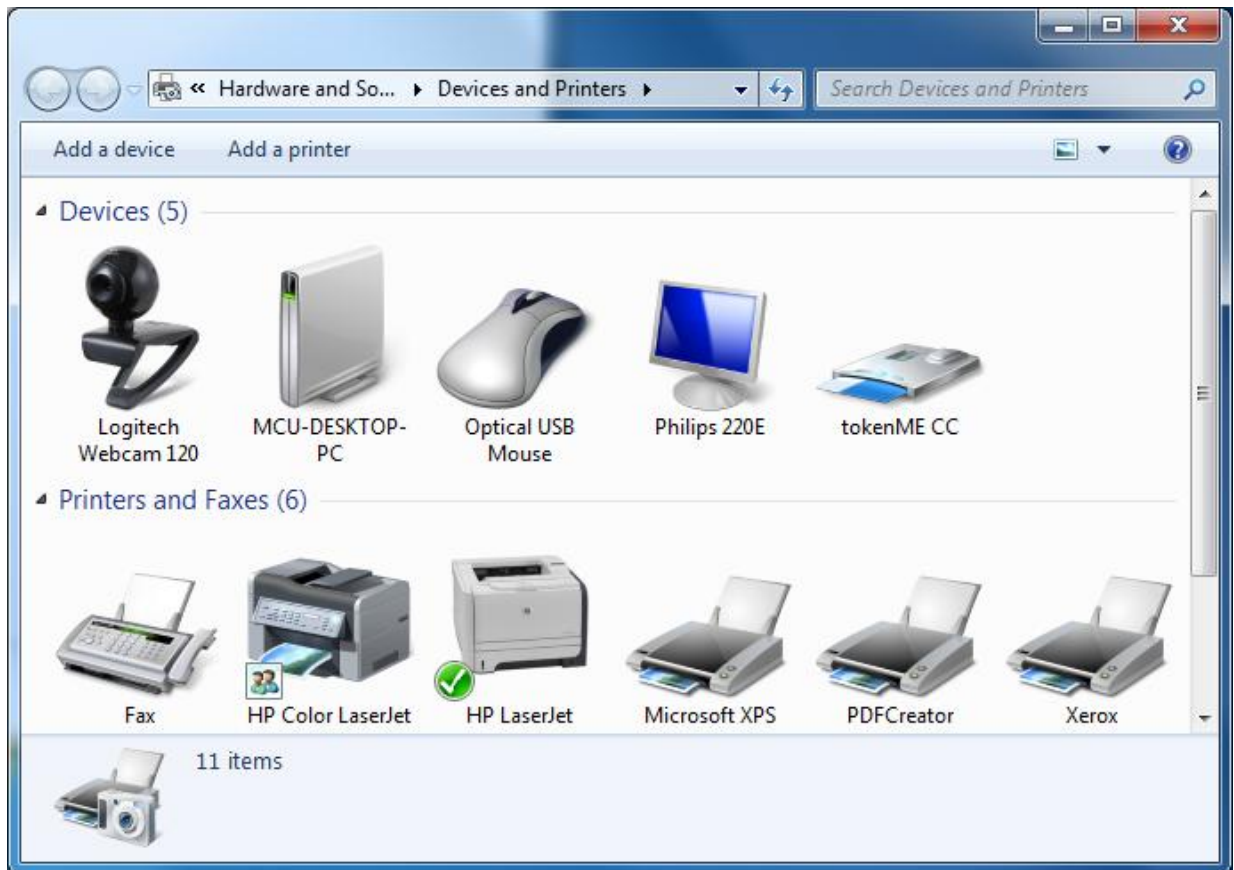


Figure 2

Once the OS has recognised the tokenME it is possible to run the “configurator” software.

3. Device Specification

Cryptographic Services

- Public Key Pair Generation
- Digital Signature
- Encryption / Decryption
- True Random Number Generation

Cryptographic Algorithms

- RSA up to 2048 bits
- Communication
- USB 2.0 Full Speed
- USB CCID compliant
- HID/driverless working mode (*)

Certifications and standards:

- FIPS 140-2 Security Level 3 (tokenME FIPS)
- Common Criteria EAL4+, SSCD Type 3 protection profile (tokenME CC)
- EN 60950/IEC 60950, EMV 2000 Level 1, PC/SC, CCID, CE, FCC, VCCI, RoHS Compliant, USB Full Speed

(*) optional on tokenME CC

4. Installing tokenME

tokenME is a USB 2.0 dongle implementing standard CCID specification. It appears to the operating system as a Smart Card Reader.

To use it you should use the PCSC/PCSC Lite resource manager and a CCID driver.

On Microsoft Windows, starting from Windows Vista, the Microsoft CCID driver is integrated in the Operating System. On Microsoft Windows XP and Windows Server 2003, the Microsoft CCID driver can be downloaded automatically from Windows Update or, for your convenience it's located in the directory "utilitiesccidxp"

Note: PLEASE DO NOT install the XP CCID driver on Vista, Windows 7 or later versions.

On OSX versions up to 10.9 you need to install a specific driver in order to add tokenME to the PCSC Lite resource manager. The OSX driver is located in the directory "utilities/ccid/osx".

Starting from OSX 10.9.2 tokenME is supported out of the box by Apple's CCID driver.

On Linux you may need to install, on certain distributions, the psc-lite and the libccid driver packages. Please refer to your distribution documentation to install such a packages.

Note: on Linux make sure the libccid driver version is 1.4.7 or later.

5. Using tokenME

To use tokenME you need to use one of the Interface libraries: PKCS#11 on all supported platforms, CSP/Crypto API on Microsoft Windows, TokenD and Apple's CDSA.

That libraries are able to access transparently both version of tokenME (CC and FIPS).

Please refer to CSP, PKCS#11 and TokenD documentation included in this SDK for more information.

Note: starting from OSX 10.7 the CDSA (and therefore TokenD) has been deprecated by Apple. Support it's still included in recent OSX distributions, but Apple discourage to develop new applications using CDSA.

6. FCC Statement

This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency

energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice per 47CFR15.21 Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

7. Disposal Information

The device should not be disposed with other household/commercial wastes disposal, separate it from other types of waste and recycle them to promote the reuse of material/resources. Please follow the indication provided by local authorities for electronic equipment disposal.