



PREMIER MINISTRE

Secrétariat général de la défense nationale

Direction centrale de la sécurité des systèmes d'information

Maintenance Report DCSSI-2007/22-M01

Card ASEPcos-CNS/CIE: AT90SC144144CT microcontroller embedding the software ASEPcos-CNS/CIE with Digital Signature Application

Reference Certificate: DCSSI-2007/22

Courtesy Translation

Paris, 15th of July 2008



References

- a) Assurance continuity procedure MAI/P/01.
- b) ASEPcos-CNS/CIE Security Target, Version 2.4, 11 Oct. 07, Athena Smartcard Solution,
- c) ASEPcos-CNS/CIE Public Security Target, Version 1.0, 17 Oct. 07, Athena Smartcard Solutions,
- d) Certification Report DCSSI-2007/22 - Card ASEPcos-CNS/CIE: AT90SC144144CT microcontroller embedding the software ASEPcos-CNS/CIE with Digital Signature Application, 8th of November 2007, SGDN/DCSSI
- e) Impact Analysis Report - Athena ASEPcos-CNS/CIE with Digital Signature Application on Atmel AT90SC144144CT, Version 0.7, 18 June 08, Athena Smartcard Solution.

Identification of the maintained product

The maintained product is the smart card ASEPcos-CNS/CIE, consisting of the AT90SC144144CT rev. G microcontroller with its software library Toolbox version: 00.03.01.04, developed by ATMEL Secure Products Division, and embedding the software “ASEPcos” with Digital Signature Application “CNS/CIE”, developed by Athena Smartcard Solutions. The reference of the software embedded in flash memory is “ASEPcos-CNS/CIE version 1.61 Build 003”.

Description of changes

The product, initially certified in SSCD configuration is built with an operating system designed for generic purposes. Particularly, the card can be personalized in SSCD configuration or in CIE configuration. Only the SSCD configuration was certified as stated in reference d.

For interoperability reasons, the CIE configuration requires some adaptations of the platform functionalities, which were realized by modifications in the source code of the product. However, these modifications have no impact on the code execution in SSCD configuration. In addition to the impact analysis report (reference e), Athena Smartcard Solutions delivered the modified source code and samples of the product to the evaluation center in charge of the initial evaluation. The evaluation center checked through source code analysis, completed by functional testing that the execution of the product in SSCD configuration wasn't actually changed.

Impacted deliverables

The modified deliverables are the following:

- Configuration lists;
- Scripts for functional testing;
- Administrator guidance;
- Source code of the embedded software.

[CONF]	- Source Configuration List, Version 1.4, 24 Jun 08, Athena Smartcard Solutions,
--------	--

	<ul style="list-style-type: none"> - Scripts Configuration List, Version 1.4, 24 Jun 08, Athena Smartcard Solutions, - Document Configuration List, Version 1.5, 25 Jun 08, Athena Smartcard Solutions, - Binary Configuration List, Version 1.4, 24 Jun 08, Athena Smartcard Solutions.
[GUIDES]	ASEPcos-CNS/CIE Administrator Guidance, Version 1.7, 25 Jun 08, Athena Smartcard Solutions

Conclusions

The above listed changes are considered as having a **minor** impact.

The assurance level of this new product revision is thus identical to the certified revision.

Warning

The resistance level of a certified product is declining as time goes by. The vulnerability analysis of this product revision versus the new attacks that would have appeared since the certificate release has not been conducted in the frame of this current maintenance. Only a re-evaluation or a “surveillance” of the new product revision would allow maintaining the assurance level in a timely and efficient manner.

Recognition of the certificate

European recognition (SOG-IS)

The reference certificate was issued in accordance with the provisions of the SOG-IS agreement [SOG-IS].

The European Recognition Agreement made by SOG-IS in 1999 allows recognition from Signatory States of the agreement¹, of ITSEC and Common Criteria certificates. The European recognition is applicable up to ITSEC E6 and CC EAL7 levels. The certificates that are recognized in the agreement scope are released with the following marking:



International common criteria recognition (CCRA)

The reference certificate was released in accordance with the provisions of the CCRA [CCRA].

¹ The signatory countries of the SOG-IS agreement are: Finland, France, Germany, Greece, Italy, The Netherlands, Norway, Spain, Sweden and United Kingdom.

The Common Criteria Recognition Arrangement allows the recognition, by signatory countries¹, of the Common Criteria certificates. The mutual recognition is applicable up to the assurance components of CC EAL4 level and also to ALC_FLR family. The certificates that are recognized in the agreement scope are released with the following marking:



This maintenance report is released in accordance with the document: « Assurance Continuity: CCRA Requirements, ref. CCIMB-2004-02-009, version 1.0, February 2004 ».

¹ The signatory countries of the CCRA arrangement are: Australia, Austria, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, India, Israel, Italy, Japan, the Republic of Korea, Malaysia, Netherlands, New-Zealand, Norway, Singapore, Spain, Sweden, Turkey, the United Kingdom and the United States of America.