PREMIER MINISTRE

Secrétariat général de la défense nationale

Direction centrale de la sécurité des systèmes d'information

Maintenance Report M-2007/12

ST19WL34C secure microcontroller

Reference Certificate : 2005/40

Courtesy Translation

Paris, 15 juin 2007

*Le Directeur central de la sécurité des
systèmes d'information*

Patrick Pailloux

References

a) Assurance continuity procedure MAI/P/01.
b) ST19WL34 Security Target, reference: SMD_ST19WL34_ST_05_001_V01.02, STMicroelectronics,
c) Certification report 2005/40 - ST19WL34A microcontroller, 18th November 2005, SGDN/DCSSI,
d) Impact Analysis Report - ST19WL34C, reference: CIT_WL34C_SIA_07_001 V01.00, STMicroelectronics.

Identification of the maintained product

The maintained product is the ST19WL34 revision C microcontroller (dedicated software ZJA, maskset K7C0CCA) developed by STMicroelectronics. This product includes a software test ("Autotest") and a software library (system management, crypto library), stored in ROM memory.

Description of changes

Regarding the previous version, the following changes have been performed:
− The AIS31 functionalities of the random number generator were already physically present in the certified version of the product, but non-active. They have been activated, following their validation through the evaluation of a similar product.
− The EEPROM consumption yield was improved.

Impacted deliverables

The deliverables impacted are:
− The security target: incorporation of the AIS31 functionality,
− The configuration list,
− The ADV documentation, with the activation of the AIS31 functionality,
− Guidance documentation, in order to introduce the AIS31 functionality.

[CONF]	The configuration list was updated within an annex of the impact analysis report: Impact Analysis Report - ST19WL34C, reference: CIT_WL34C_SIA_07_001 V01.00, STMicroelectronics.
[GUIDES]	− AIS31 Compliant Random Numbers on ST19N Products - User Manual, reference: UM_19N_AIS31_CRN/0702 V1, STMicroelectronics − ST19WL34 - Data Sheet, reference: DS_19WL34/0706V2, STMicroelectronics
[ST]	ST19WL34 Security Target, référence : SMD_ST19WL34_ST_05_001_V01.03, STMicroelectronics

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 agreement[1], 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 [CC RA].

The Common Criteria Recognition Arrangement allows the recognition, by signatory countries[2], 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 ».

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