

PREMIER MINISTRE

Secrétariat général de la défense et de la sécurité nationale Agence nationale de la sécurité des systèmes d'information

Certification Report ANSSI-CC-2013/56

Orange NFC V2 G1 release B platform, on ST33F1ME (S1105439 / Release B), MIFARE activated or deactivated configuration

Paris, 6th August 2013

Courtesy Translation



Warning

This report is designed to provide sponsors with a document enabling them to assess the security level of a product under the conditions of use and operation defined in this report for the evaluated version. It is also designed to provide the potential purchaser of the product with the conditions under which he may operate or use the product so as to meet the conditions of use for which the product has been evaluated and certified; that is why this certification report must be read alongside the evaluated user and administration guidance, as well as with the product security target, which presents threats, environmental assumptions and the supposed conditions of use so that the user can judge for himself whether the product meets his needs in terms of security objectives.

Certification does not, however, constitute a recommendation product from ANSSI (French Network and Information Security Agency), and does not guarantee that the certified product is totally free of all exploitable vulnerabilities.

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Certification report reference

ANSSI-CC-2013/56

Product name

Orange NFC V2 G1 release B card,
MIFARE activated or deactivated configuration,
on ST33F1ME (T1019210 release B)

Product reference

Orange NFC V2 G1 release B platform on ST33F1ME (S1105439 / Release B), MIFARE activated or deactivated configuration

Protection profile conformity

[PPUSIMB], version 2.0.2

(U)SIM Java Card Platform Protection Profile - Basic configuration

Evaluation criteria and version

Common Criteria version 3.1 revision 3

Evaluation level

EAL 4 augmented ALC_DVS.2, AVA_VAN.5

Developer(s)

Gemalto

STMicroelectronics

La Vigie, Av du Jujubier, ZI Athelia IV, 13705 190 avenue Celestin Coq, ZI de Rousset, B.P. 2, La Ciotat Cedex, France 13106 Rousset, France

Sponsor

Gemalto

La Vigie, Av du Jujubier, ZI Athelia IV, 13705 La Ciotat Cedex, France

Evaluation facility

THALES (TCS - CNES)

18 avenue Edouard Belin, BPI1414, 31401 Toulouse Cedex 9, France

Recognition arrangements

CCRA



SOG-IS



The product is recognised at EAL4 level.

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Introduction

The Certification

Security certification for information technology products and systems is governed by decree number 2002-535 dated April, 18th 2002, modified. This decree stipulates that:

- The French Network and Information Security Agency draws up **certification reports**. These reports indicate the features of the proposed security targets. They may include any warnings that the authors feel the need to mention for security reasons. They may or may not be transmitted to third parties or made public, as the sponsors desire (article 7).
- The **certificates** issued by the Prime Minister certify that the copies of the products or systems submitted for evaluation fulfil the specified security features. They also certify that the evaluations have been carried out in compliance with applicable rules and standards, with the required degrees of skill and impartiality (article 8).

The procedures are available on the Internet site www.ssi.gouv.fr.

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1. The product

1.1. Presentation of the product

The evaluated product is the "Orange NFC V2 G1 release B card, MIFARE activated or deactivated configuration, on ST33F1ME, version T1019210, Release B" developed by Gemalto and STMicroelectronics.

This target of evaluation is the (U)SIM¹ Java Card platform embedded in the open (U)SIM card intended to be plugged in a mobile phone or other mobile devices.

This product can host applications that can be loaded and instantiated onto the product either before card issuance (loading in pre-issuance²) or through the mobile network, in a connected environment and without physical manipulation of the product (loading in post-issuance³, via the communication network⁴).

1.2. Evaluated product description

1.2.1. Introduction

The security target [ST] defines the evaluated product, its evaluated security functionalities and its operational environment.

This security target claims conformance to [PPUSIMB] protection profile, this conformity is demonstrable.

1.2.2. Product identification

The configuration list [CONF] identifies the product's constituent elements.

The certified version of the product can be identified by the following elements:

- Response to the *GetData* command (0x00 0xCA 0x9F 0x7F) corresponds to the following CPLC⁵ values:

IC Fabricator	0x47 0x50 (ST)
IC Type	0x00 0x1A (ST33F1M)
Os Identifier	0x00 0x08 (STM008)
OS Release Date	x120 0x30 (YYDD)
OS Version	0x01 0x18

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¹ Universal Subscriber Identity Module

² Loading realised before the 7th phase of the smart card life cycle (pre-issuance)

³ Loading realised after the 7th phase of the smart card life cycle

⁴ Over the air (OTA)

⁵ Card manager Production Life Cycle

- Response to the *GlobalPlatform GetData* command (0x00 0xCA 0x00 0x66) of the card manager gives the *Card Recognition Data*:

	TOE: S1105439 (Product: T1019172, release B)
Complete label of the	1.47.1.2.1.25
product (including	
developer tools)	
Software label	1.47.1.2.1.24
(returned by smart	
card)	
Card Recognition	06 14 53 54 33 33 46 31 4D 20 01 2F 01 02 01 11 01 2F 01 02 01 18
Data	
	Software previous version label (see ANSSI-CC-2011/77):
	0x01, 0x2F, 0x01, 0x02, 0x01, 0x18
	Software version label:
	0x01, 0x2F, 0x01, 0x02, 0x01, 0x18

The main difference between the product and the platform (the TOE) corresponds to the preissuance applications loaded on this smartcard.

All the applications that were present on the configuration made available to the evaluator are detailed in [App_list]. This document lists the applications and packages included in the product configuration, with their associated names and AID¹.

The *GetStatus* command allows the user to check which installed applications and packages are on the product at his disposal.

To check that MIFARE application is activated on the product, the *GetStatus* command might return "A0000000184D6966617265410301".

1.2.3. Security services

The product provides the following evaluated security services:

- Confidentiality and integrity of cryptographic keys and application data during execution of cryptographic operations;
- Confidentiality and integrity of authentication data and application data during execution of authentication operations;
- Isolation of applications belonging to different contexts from each other and confidentiality and integrity of application data among applications;
- Integrity of the application code execution.

The product offers additional evaluated security services for applications management, relying on the Global Platform framework:

- Privileges delegation: the MNO² as Card issuer is initially the only entity authorized to manage applications (loading, instantiation, deletion) through a secure communication channel with the card during the 7th phase of the smartcard (usage phase, see chapter 1.2.4). However, the MNO can grant this privilege to an Application Provider (AP) through the delegated management functionality of Global Platform (GP).

² Mobile Network Operator

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¹ Application Identifier

- Application signature verification: all loaded applications are associated at load time to a Verification Authority (VA) signature (Mandated DAP) that is verified on card by the on-card representative of the VA prior to the completion of the application loading operation and prior to its instantiation.
- Activation of optional services: such activation by OTA is under the control of GemActivate Administrator and secure channel operation is under the control of MNO.
- Security Domain (SD) management: application providers have Security Domain keysets enabling them to be authenticated to the corresponding Security Domain and to establish a trusted channel between the TOE and an external trusted device. These Security Domains keysets are not known by the Card issuer.

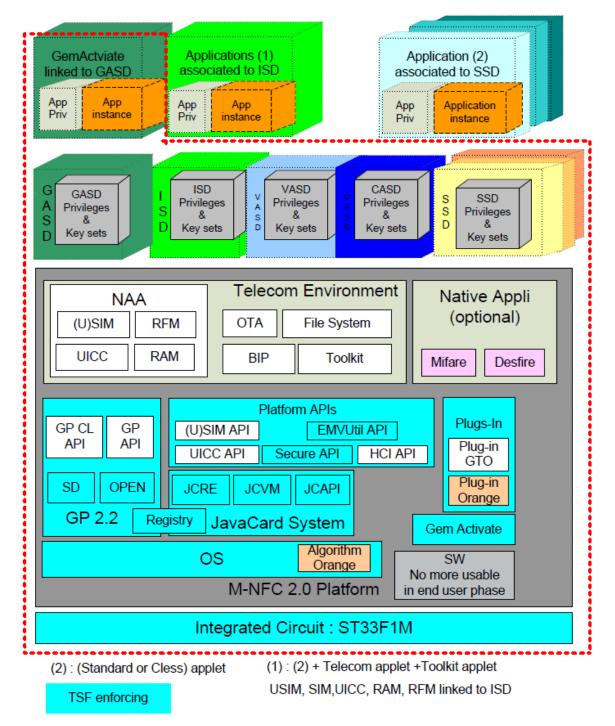
1.2.4. Architecture

The product is composed of the following components:

- The microcontroller ST33F1M revision E;
- A Java Card System which manages and executes applications. It also provides API to develop applications on top of it, in accordance with the Java Card specifications.
- *GlobalPlatform* (GP) packages, which provides an interface to communicate with the smart card and manages applications in a secure way;
- Platforms API, which provide ways to specifically interact with (U)SIM applications;
- Telecom environment including network authentication applications (not evaluated) and Telecom communication protocol;
- GemActivate application to activate services in Post-Issuance;
- Mifare Classic application.

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The following figure describes the major items included in the TOE:



Note: here, the ISD corresponds to the *Issuer Security Domain*, VASD to the *Verification Authority Security Domain*, CASD to the *Controlling Authority Security Domain* and SSD to *Supplementary Security Domain*.

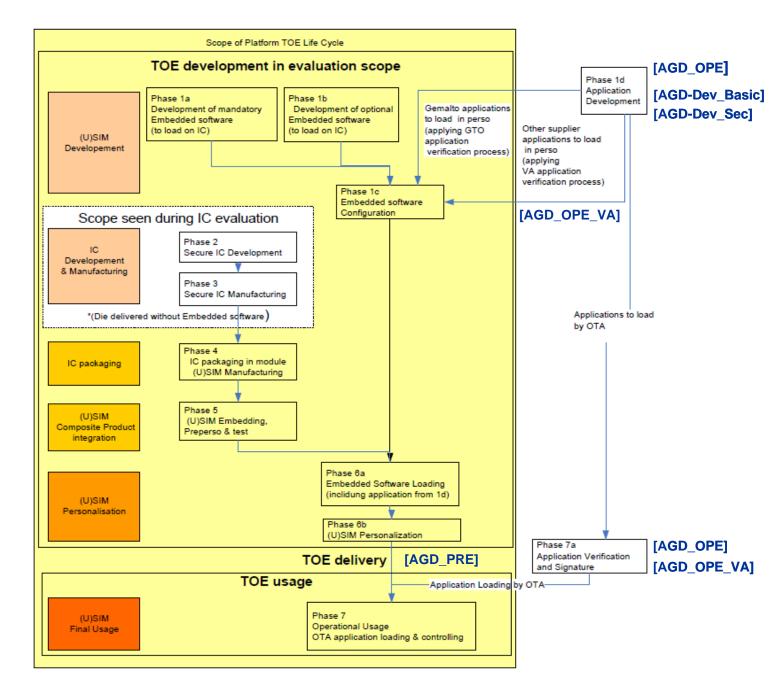
As identified in chapter 1.2.5 here after, the evaluated product has been personalized. Thus all the creation of *Security Domains* identified in the previous figure has been studied during the evaluation. The product at the disposal of the ITSEF actually contains those Security Domains.

Some applications were already loaded in the SSD, they are all identified in the [App_list] document.

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1.2.5. Life cycle

The product's life cycle is organised as follow:



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The product has been developed on the following Gemalto sites:

Embedded software development sites

La Vigie Avenue du Jujubier ZI Athelia IV 13705 La Ciotat Cedex France

8, rue de la Verrerie 92197 Meudon Cedex France

12 Ayar Rajah Crescent Singapour 139941 Singapour

Embedded software configuration site

525, Avenue du Pic de Bertagne 13420 Gemenos France 12 Ayar Rajah Crescent Singapour 139941

Singapour 139941
Singapour

Assembling site

Rue de Saint Ulfrant 27500 Pont-Audemer France

Packaging, pre-personnalization and personnalization sites

Rue de Saint Ulfrant 27500 Pont-Audemer France Ul. Skarszewska 2 33-110 Tczew Pologne

The microcontroller's development and manufacturing sites are identified in the certification report [ANSSI-CC-2011/07].

The development of pre-issuance applications identified in [App_list] has been performed in the La Ciotat development site. Their delivery and verification have also been performed on the La Ciotat site, but by different teams than those who have developed them. According to [NOTE.10], the related procedures have been analysed and audited during the evaluation process.

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1.2.6. Guidance

As the evaluated life cycle corresponds to phases 1 to 6, the preparative guidance of the personalized product [AGD-PRE] is mostly dedicated to recommendations related to the VASD, CASD, ISD and APSD Security Domain key management.

The operational guidance [AGD-OPE] provides recommendations for each of the following actors:

- The Mobile Network Operator as issuer of the (U)SIM Java Card platform;
- The Application Provider (AP), entity or institution responsible for the applications and their associated services;
- The Controlling Authority (CA), entity independent from the MNO represented on the (U)SIM card and responsible for securing the keys creation and personalization of the Application Provider Security Domain (APSD);
- The Verification Authority (VA), trusted third party, acting on behalf of the MNO and responsible for the verification of applications signatures during the loading process;
- The GemActivate Administrator, responsible for the optional platform services activation in post-issuance using OTA communication channel.

[AGD-OPE] also identifies delivery recommendations that should be enforced for the delivery of new applications to be loaded on this product.

Moreover the guidance [AGD-Dev_Basic] and [AGD-Dev_Sec] describes rules that have to be followed by applications on this product; the guidance [AGD-OPE_VA] describes verification rules that have to be followed by the Verification Authority

1.2.7. Evaluated configuration

The open configuration of the product has been evaluated according to [NOTE.10]: this product corresponds to an open and isolating platform. Thus, new applications that respect the constraints stated in chapter 3.2 and are loaded according to the audited process do not impact the current certification report.

All applications identified in [App_list] have been verified according to [AGD-OPE_VA].

Two platform configurations have been taken into account during this evaluation. Those configurations correspond to the two signature formats used for the Delegated Management, based on RSA or 3DES.

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2. The evaluation

2.1. Evaluation referential

The evaluation has been performed in compliance with **Common Criteria version 3.1 revision 3** [CC], with the Common Evaluation Methodology [CEM].

In order to meet the specificities of smart cards, the [CC IC] and [JWIG AP] guides have been applied. Thus the reached AVA_VAN level has been determined according to the rating table of the [JWIG AP] guides that is more demanding than the default one defined in [CC] used for other types of products (software products for example).

2.2. Evaluation work

The evaluation has been performed according to the composition scheme as defined in the guide [COMP] in order to assess that no weakness comes from the integration of the software in the microcontroller already certified.

Therefore, the results of the evaluation of the microcontroller "ST33F1ME" at EAL5 level augmented with ALC_DVS.2 and AVA_VAN.5, compliant with the [PP0035] protection profile, have been used. This microcontroller has been certified the 5th april 2011 under the reference ANSSI-CC-2011/07 [ANSSI-CC-2011/07].

The evaluation relies on the evaluation results of the "Orange NFC V2 G1 release B platform, on ST33F1ME (S11054389/Release B)" product certified the 30th july 2012 under the reference ANSSI-CC-2012/48 [ANSSI-CC-2012/48], and of the "UpTec NFC 2.0.4 FRA release A platform, on ST33F1ME (S1120746, release A)" product certified the 23th april 2013 under the reference ANSSI-CC-2013/18 [ANSSI-CC-2013/18] .

The evaluation technical report [ETR], delivered to ANSSI the 19th july 2013, provides details on the work performed by the evaluation facility and assesses that all evaluation tasks are "**pass**".

2.3. Cryptographic mechanisms robustness analysis

The robustness of cryptographic mechanisms according to [REF-CRY] hasn't been performed. Nevertheless the evaluation hasn't lead to the identification of design or construction vulnerabilities for the targeted AVA_VAN level.

2.4. Random number generator analysis

The platform performs a cryptographic post-processing of the outputs of the material random generator provided by the underlying microcontroller that have been studied during this evaluation.

The evaluation hasn't identified exploitable vulnerabilities for the targeted AVA_VAN level if the [AGD-Dev_Sec] guidance is correctly applied.

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The random number generator used by the final product has been evaluated during the evaluation of the microcontroller (see [ANSSI-CC-2011/07]).

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3. Certification

3.1. Conclusion

The evaluation was carried out according to the current rules and standards, with the required competency and impartiality of a licensed evaluation facility. All the work performed permits the release of a certificate in conformance with the decree 2002-535.

This certificate testifies that the product "Orange NFC V2 G1 card, release B, MIFARE activated or deactivated configuration, on ST33F1ME (T1019210, release B)" submitted for evaluation fulfils the security features specified in its security target [ST] for the evaluation level EAL 4 augmented with components ALC_DVS.2 et AVA_VAN.5.

3.2. Restrictions

This certificate only applies on the product specified in chapter 1.2 of this certification report.

The user of the certified product shall respect the security objectives for the operational environment, as specified in the security target [ST], and shall respect the recommendations in the guidance [GUIDES], in particular:

- Applications developers must follow the guidance for basic applications development [AGD-Dev_Basic] or the guidance for secure applications development [AGD-Dev_Sec] depending of the sensibility of the targeted application;
- The Verification Authority must follow the guidance for verification authority [AGD-OPE_VA].

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3.3. Recognition of the certificate

3.3.1. European recognition (SOG-IS)

This certificate is released in accordance with the provisions of the SOG-IS agreement [SOG-IS].

The European Recognition Agreement made by SOG-IS in 2010 allows recognition from Signatory States of the agreement¹, of ITSEC and Common Criteria certificates. The European recognition is applicable, for smart cards and similar devices, up to ITSEC E6 High and CC EAL7 levels. The certificates that are recognized in the agreement scope are released with the following marking:



3.3.2. International common criteria recognition (CCRA)

This certificate is released in accordance with the provisions of the CCRA [CC RA].

The Common Criteria Recognition Arrangement allows the recognition, by signatory countries², 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:



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¹ The signatory countries of the SOG-IS agreement are: Austria, Finland, France, Germany, Italy, The Netherlands, Norway, Spain, Sweden 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 Republic of Korea, Malaysia, Netherlands, New-Zealand, Norway, Pakistan, Singapore, Spain, Sweden, Turkey, the United Kingdom and the United States of America.



Annex 1. Evaluation level of the product

Class	Family	Components by assurance level						Assurance level of the product		
		EAL 1	EAL 2	EAL 3	EAL 4	EAL 5	EAL 6	EAL 7	EAL 4+	Name of the component
	ADV_ARC		1	1	1	1	1	1	1	Security architecture description
	ADV_FSP	1	2	3	4	5	5	6	4	Complete functional specification
ADV	ADV_IMP				1	1	2	2	1	Implementation representation of the TSF
Development	ADV_INT					2	3	3		
	ADV_SPM						1	1		
	ADV_TDS		1	2	3	4	5	6	3	Basic modular design
AGD	AGD_OPE	1	1	1	1	1	1	1	1	Operational user guidance
Guidance	AGD_PRE	1	1	1	1	1	1	1	1	Preparative procedures
	ALC_CMC	1	2	3	4	4	5	5	4	Production support, acceptance procedures and automation
	ALC_CMS	1	2	3	4	5	5	5	4	Problem tracking CM coverage
ALC	ALC_DEL		1	1	1	1	1	1	1	Delivery procedures
Life-cycle	ALC_DVS			1	1	1	2	2	2	Sufficiency of security measures
support	ALC_FLR									
	ALC_LCD			1	1	1	1	2	1	Developer defined life-cycle model
	ALC_TAT				1	2	3	3	1	Well-defined development tools
	ASE_CCL	1	1	1	1	1	1	1	1	Conformance claims
	ASE_ECD	1	1	1	1	1	1	1	1	Extended components definition
ASE	ASE_INT	1	1	1	1	1	1	1	1	ST introduction
Security Target	ASE_OBJ	1	2	2	2	2	2	2	2	Security objectives
Evaluation	ASE_REQ	1	2	2	2	2	2	2	2	Derived security requirements
	ASE_SPD		1	1	1	1	1	1	1	Security problem definition
	ASE_TSS	1	1	1	1	1	1	1	1	TOE summary specification
	ATE_COV		1	2	2	2	3	3	2	Analysis of coverage
ATE	ATE_DPT			1	1	3	3	4	1	Testing: basic design
Tests	ATE_FUN		1	1	1	1	2	2	1	Functional testing
	ATE_IND	1	2	2	2	2	2	3	2	Independent testing: sample
AVA Vulnerability assessment	AVA_VAN	1	2	2	3	4	5	5	5	Advanced methodical vulnerability analysis

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Annex 2. Evaluated product references

[ST]	Reference security target for the evaluation: - "Security Target : Orange NFC V2 G1 card", reference D1226479, release 1.6 For the needs of publication, the following security target has been provided and validated in the evaluation: - "Security Target - Orange NFC V2 G1 card", reference D1226479, release 1.6p			
[ETR]	Evaluation technical report : - "Evaluation technical report - Project: LIOUQUET_OR2_RE", reference OR2_RE, revision 3.0, 30 th july 2013.			
[CONF]	Software configuration list: - "TOE file configuration list OR", référence ListeFichiersPhenix_1_47_1_3_25 Documentation configuration list: - "MNFC20 Document Delivery Status 2013-07-01_V1", référence MNFC20 Document Delivery Status 2013-07-01_V1; Verified applications and packages list [App_list]: - in Delegated Management RSA configuration: "Evaluated Electrical Profil Identification description DM RSA", reference FTM_N5.CC_v4 – Identification Document v1.1b - in Delegated Management 3DES configuration: "Orange NFC v2.0 G1 Certified – DM", reference FTM_N5.CC_v4 – Identification Document v1.1b.			
[GUIDES]	Preparative guidance: - Acceptance and installation guidance [AGD-PRE]: "Orange NFC V2 G1 card - Preparation Guidance", reference D1226480, release 1.3 Operational guidance: - Administration guidance [AGD-OPE]: "Orange NFC V2 G1 card - Guidance for Administration", reference D1226483, release 1.6.1b - Guidance for application development - Guidance for basic application development [AGD-Dev_Basic]: "Rules for applications on Upteq mNFC certified product", reference D1186227, release A092 - Guidance for secure application development [AGD-Dev_Sec]: "Guidance for secure application development on Upteq mNFC platforms", reference D1188231, release A07 - Guidance for Verification Authority [AGD-OPE_VA]: "Guidance for Verification Authority of Orange NFC V2 G1 card", reference D1226483v, release 1.5			

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[PPUSIMB]	(U)SIM Java Card Platform Protection Profile Basic and SCWS Configurations (Basic configuration), version 2.0.2, 17 th June 2010. <i>Certified by ANSSI under the reference ANSSI-CC-PP-2010/04</i> .
[PP0035]	Security IC Platform Protection Profile, version 1.0, 15 th June 2007. Certified by BSI (Bundesamt für Sicherheit in der Informationstechnik) under the reference BSI_PP_0035.
[ANSSI-CC-2011/07]	Secured microcontrollers ST33F1ME, ST33F768E, SC33F768E, ST33F640E, SC33F640E, ST33F512E, SC33F512E and SC33F384E with the optional cryptographic library NesLib v3.0. <i>Certified by ANSSI under the reference ANSSI-CC- 2011/07.</i>
[ANSSI-CC- 2011/07- M02]	Assurance continuity report ANSSI-CC-2011/07-M02, issued on 16 th april 2013, related to ANSSI-CC-2011/07 certificate.
[ANSSI-CC- 2011/77]	Orange V2 G1 platform on ST33F1ME. Certified by ANSSI under the reference ANSSI-CC- 2011/77.
[ANSSI-CC- 2012/48]	Orange NFC V2 G1 platform, release B, on ST33F1ME Certified by ANSSI under the reference ANSSI-CC- 2012/48.
[ANSSI-CC-2013/18]	UpTec NFC 2.0.4 FRA platform, release A, on ST33F1ME (S1120746, release A) Certified by ANSSI under the reference ANSSI-CC- 2013/18.

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Annex 3. Certification references

Decree number 2002-535, 18th April 2002, modified related to the security evaluations and certifications for information technology products and systems.				
[CER/P/01]	Procedure CER/P/01 - Certification of the security provided by IT products and systems, DCSSI.			
[CC]	Common Criteria for Information Technology Security Evaluation: Part 1: Introduction and general model, July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-001; Part 2: Security functional components, July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-002; Part 3: Security assurance components, July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-003.			
[CEM]	Common Methodology for Information Technology Security Evaluation : Evaluation Methodology, July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-004.			
[CC IC]	Common Criteria Supporting Document - Mandatory Technical Document - The Application of CC to Integrated Circuits, reference CCDB-2009-03-002 version 3.0, revision 1, March 2009.			
[JWIG AP]	Joint Interpretation Library - Application of attack potential to smart-cards, version 2.9, January 2012.			
[COMP]	Joint Interpretation Library - Composite product evaluation for smart cards and similar devices, version 1.2, January 2012.			
[REF-CRY]	Mécanismes cryptographiques – Règles et recommandations concernant le choix et le dimensionnement des mécanismes cryptographiques, version 1.20, 26 Janvier 2010, Référentiel général de sécurité, voir www.ssi.gouv.fr.			
[NOTE.10]	« Note d'application - Certification d'applications sur "plateformes ouvertes cloisonnantes" », reference ANSSI-CC-NOTE/10.0, see www.ssi.gouv.fr.			
[CC RA]	Arrangement on the Recognition of Common criteria certificates in the field of information Technology Security, May 2000.			
[SOG-IS]	« Mutual Recognition Agreement of Information Technology Security Evaluation Certificates », version 3.0, 8 th January 2010, Management Committee.			

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