



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-2012/48**

### **Orange NFC V2 G1 release B platform on ST33F1ME**

*Paris, 30<sup>th</sup> July 2012*

**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-2012/48**

Product name (reference / version)

**Orange NFC V2 G1 release B Card on ST33F1ME  
(T1019210 / Release B)**

TOE name (reference / version)

**Orange NFC V2 G1 release B platform on ST33F1ME  
(S1105439 / Release B)**

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**

Developers

**Gemalto**

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

**STMicroelectronics**

190 avenue Celestin Coq, ZI de Rousset,  
B.P. 2, 13106 Rousset, France

Sponsor

**Gemalto**

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

Evaluation facility

**THALES - CEACI (T3S – CNES)**

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

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Recognition arrangements



**SOG-IS**



**The product is recognised at EAL4 level.**

## 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](http://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 on ST33F1ME, reference T1019210 » developed by Gemalto and STMicroelectronics.

This target of evaluation is the (U)SIM 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 or in post-issuance through the mobile network, over-the-air (OTA) and in a connected environment and without physical manipulation of the TOE. Other administrative operations can also be done using OTA.

## 1.2. Evaluated product description

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

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

### 1.2.1. Product identification

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

The certified version of the TOE can be identified by several means identified in the delivery sheet [DS].

- Response to the GetData command (0x00 0xCA 0x9F 0x7F) corresponds to the following CPLC<sup>1</sup> information:

|                 |                     |
|-----------------|---------------------|
| IC Fabricator   | 0x47 0x50 (ST)      |
| IC Type         | 0x00 0x1A (ST33F1M) |
| Os Identifier   | 0x00 0x08 (STM008)  |
| OS Release Date | 0x20 0x30 (YYDD)    |
| OS Version      | 0x01 0x18           |

---

<sup>1</sup> Card manager Production Life Cycle



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

|   |  |
|---|--|
|   | <b>TOE: <u>S1105273 (Product : T1019172)</u></b>   |
| Complete label of the product (including developer tools) | 1.47.1.2.1.25  |
| Software label  | 1.47.1.2.1.24  |
| Card Recognition Data                                     | 06 14 53 54 33 33 46 31 4D 20 <b>01 2F 01 02 01 11 <u>01 2F 01 02 01 18</u></b><br><br>Software label of previous version (see [ANSSI-CC-2011/77]: 0x01, 0x2F, 0x01, 0x02, 0x01, 0x11<br>Software label of current version: 0x01, 0x2F, 0x01, 0x02, 0x01, 0x18 |

Main difference between the product and the platform (the TOE) rely on the pre-issuance<sup>1</sup> 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 there associated names and AIDs<sup>2</sup>.

The GetStatus command permits the user to check what the installed applications and packages are on the product at his disposal.

### 1.2.2. 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 GlobalPlatform framework:

- Privileges delegation: The MNO<sup>3</sup> 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 these privileges to an Application Provider (AP) through the delegated management functionality of Global Platform (GP).
- Application signature verification: All loaded applications are associated at load time to a Verification Authority (VA) signature (Mandated DAP) that is verified on

<sup>1</sup> loading realised before the 7th phase of the smart card life cycle

<sup>2</sup> Application Identifier

<sup>3</sup> Mobile Network Operator

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 control of GemActivate Administrator and secure channel operation is under control of MNO
- Security Domain 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.

### ***1.2.3. Architecture***

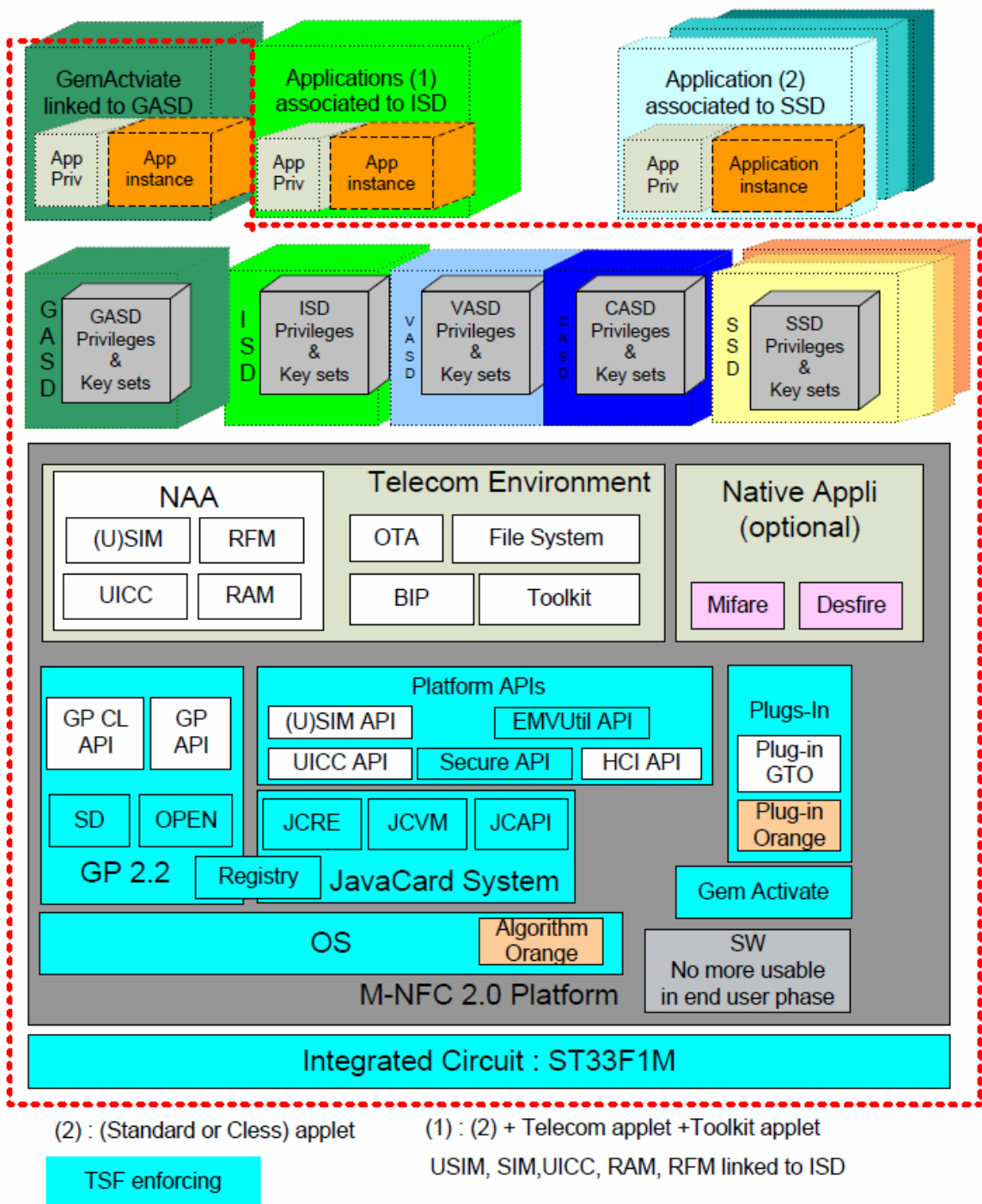
The product is composed of the following components:

- The microcontroller ST33F1M revision E,
- A Java Card System which manages and executes applications. It also provides APIs 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 manage applications in a secure way.
- Platform APIs, which provides 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.





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



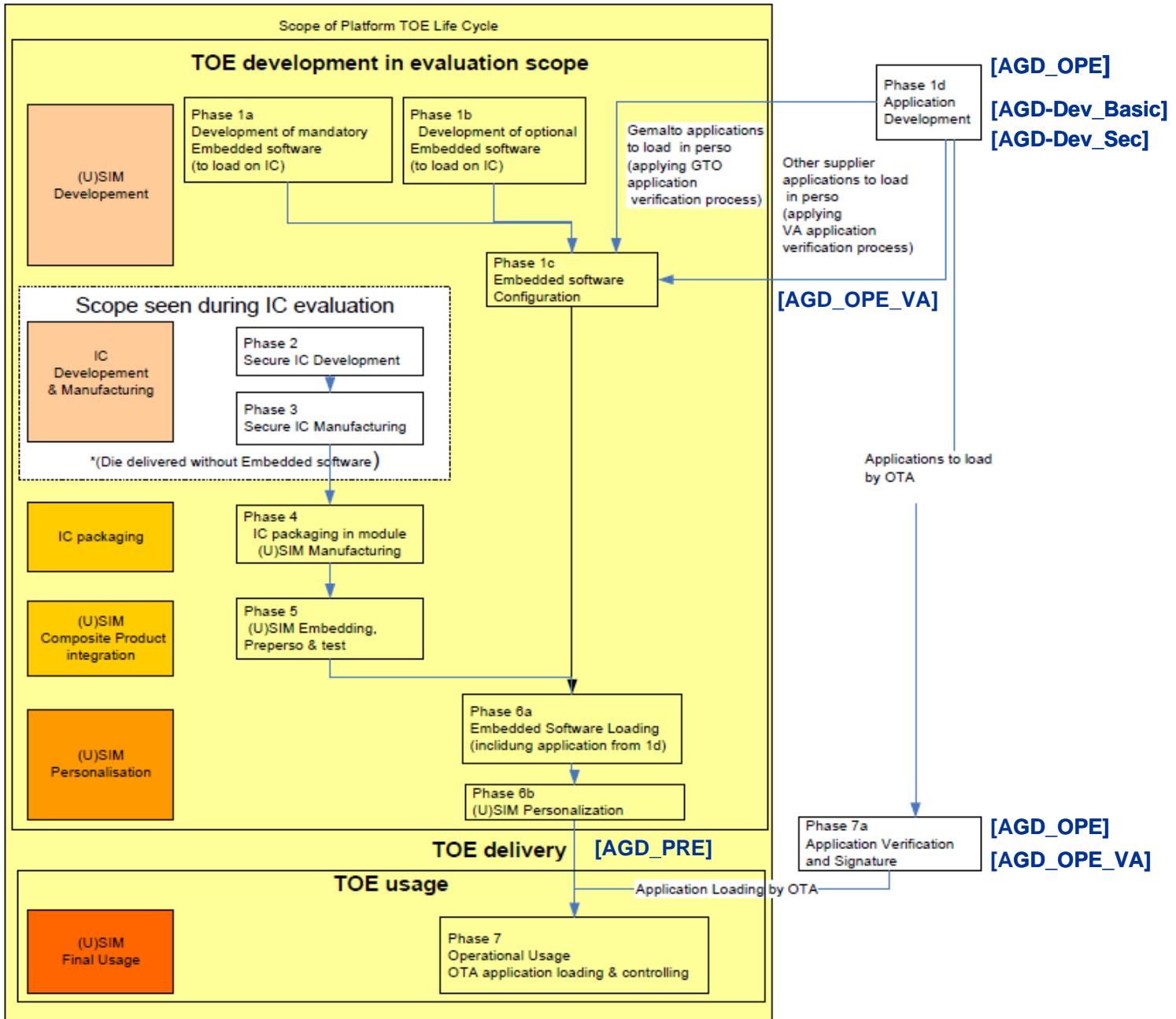
As identified in chapter 1.2.4 here after, the evaluated product has been personalized. Thus all the creation of Security Domains identified in the previous figure has been studied during the evaluation. The product at the disposal of the ITSEF actually contains those Security Domains.

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.

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

### 1.2.4. Life cycle

The product's life cycle is organised as follow:





The product has been developed on the following 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 Bretagne  
13420 Gemenos  
France

12 Ayar Rajah Crescent  
Singapour 139941  
Singapour

**Packaging, pre-personalization and personalization site**

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].

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.

### **1.2.5. 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 represented on the (U)SIM card, acting on behalf of the MNO and responsible for the verification of applications signatures (mandated DAP) during the loading process.
- The GemActivate Administrator, responsible for the optional platform service 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 load in this product.

Moreover the guidance [AGD-Dev\_Basic] and [AGD-Dev\_Sec] describe development rules that have to be followed by applications on this product; and the guidance [AGD-OPE\_VA] describe verification rules that have to be followed by the Verification Authority.

### **1.2.6. 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 loading 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.



## 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 [JIL AP] guides have been applied. Thus the reached VAN level have been determined according to the rating table of [CC AP] that is more demanding than the default one defined in [CC] used for other types of products (software product 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 5 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” product certified the 23<sup>h</sup> December 2011 under the reference ANSSI-CC-2011/77 [ANSSI-CC-2011/77].

The evaluation technical report [ETR], delivered to ANSSI the 4th June 2012 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.

## 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 release B platform on ST33F1ME, reference T1019210, release B” submitted for evaluation fulfils the security features specified in its security target [ST] for the evaluation level EAL 4 augmented.

### 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].

### 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 agreement<sup>1</sup>, 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 countries<sup>2</sup>, 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 Development                | 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_IMP |                               |       |       | 1     | 1     | 2     | 2     | 1                              | Implementation representation of the TSF                 |
|                                | ADV_INT |                               |       |       |       | 2     | 3     | 3     |                                |  |
|                                | ADV_SPM |                               |       |       |       |       | 1     | 1     |                                |  |
|                                | ADV_TDS |                               | 1     | 2     | 3     | 4     | 5     | 6     | 3                              | Basic modular design                                     |
| AGD Guidance                   | AGD_OPE | 1                             | 1     | 1     | 1     | 1     | 1     | 1     | 1                              | Operational user guidance                                |
|                                | AGD_PRE | 1                             | 1     | 1     | 1     | 1     | 1     | 1     | 1                              | Preparative procedures                                   |
| ALC Life-cycle support         | 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_DEL |                               | 1     | 1     | 1     | 1     | 1     | 1     | 1                              | Delivery procedures                                      |
|                                | ALC_DVS |                               |       | 1     | 1     | 1     | 2     | 2     | 2                              | Sufficiency of security measures                         |
|                                | 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 Security Target Evaluation | 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_INT | 1                             | 1     | 1     | 1     | 1     | 1     | 1     | 1                              | ST introduction  |
|                                | ASE_OBJ | 1                             | 2     | 2     | 2     | 2     | 2     | 2     | 2                              | Security objectives                                      |
|                                | 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 Tests                      | ATE_COV |                               | 1     | 2     | 2     | 2     | 3     | 3     | 2                              | Analysis of coverage                                     |
|                                | ATE_DPT |                               |       | 1     | 1     | 3     | 3     | 4     | 1                              | Testing: basic design                                    |
|                                | 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               |





## Annex 2. Evaluated product references

|          |   |
|----------|---|
| [ST]     | <p>Reference security target for the evaluation:</p> <ul style="list-style-type: none"> <li>- « Security Target - Orange NFC V2 G1 card », référence D1226479, release 1.4.</li> </ul> <p>For the needs of publication, the following security target has been provided and validated in the evaluation:</p> <ul style="list-style-type: none"> <li>- « Security Target - Orange NFC V2 G1 card », référence D1226479, release 1.4p.</li> </ul>   |
| [ETR]    | <p>Evaluation technical report :</p> <ul style="list-style-type: none"> <li>- « Evaluation technical report - Project: LIOUQUET OR2 », référence LIOOR2_ETR, révision 3.0.</li> </ul>   |
| [CONF]   | <p>Software configuration list :</p> <ul style="list-style-type: none"> <li>- « TOE file configuration list », référence ListeFichiersPhenix_1_47_1_3_25 ;</li> </ul> <p>Documentation configuration list: :</p> <ul style="list-style-type: none"> <li>- « MNFC20 Document Delivery Status 2012-06-01_V1 », référence MNFC20 Document Delivery Status 2012-06-01_V1 ;</li> </ul> <p>Verified applications and packages list [App_list] :</p> <ul style="list-style-type: none"> <li>- for the RSA Delegated Management configuration: « Evaluated Electrical Profile Identification description DM RSA2 », référence FTM_N5.CC_v8 - Identification Document v1.1 ;</li> <li>- for the 3DES Delegated Management configuration: « Orange NFC v2.0 G1 Certified - DM DES », référence FTM_N5.CC_v7 - Identification Document v1.1.</li> </ul>  |
| [GUIDES] | <p>Preparative guidance :</p> <ul style="list-style-type: none"> <li>- Acceptance and installation guidance [AGD-PRE]: « Orange NFC V2 G1 card - Preparation Guidance », référence D1226480, release 1.2 ;</li> </ul> <p>Operational guidance:</p> <ul style="list-style-type: none"> <li>- Administration guidance [AGD-OPE] : « Orange NFC V2 G1 card - Guidance for Administration », référence D1226483, release 1.5</li> <li>- Guidance for application development <ul style="list-style-type: none"> <li>• Guidance for basic application development [AGD-Dev_Basic]: « Rules for applications on Upteq mNFC certified product », référence D1186227, release A092;</li> <li>• Guidance for secure application development [AGD-Dev_Sec]: « Guidance for secure application development on Upteq mNFC platforms », référence D1188231, release A07 ;</li> </ul> </li> <li>- Guidance for Verification Authority [AGD-OPE_VA]: « Guidance for Verification Authority of Orange NFC V2 G1 card », référence D1226483v, release 1.5</li> </ul> |

|                    |  |
|--------------------|--|
| [PPUSIMB]          | (U)SIM Java Card Platform Protection Profile Basic and SCWS Configurations (Basic configuration), version 2.0.2, 17 <sup>th</sup> June 2010.<br><i>Certified by ANSSI under the reference ANSSI-CC-PP-2010/04.</i>                         |
| [PP0035]           | Security IC Platform Protection Profile, version 1.0, 15 June 2007.<br><i>Certified by BSI (Bundesamt für Sicherheit in der Informationstechnik) under the reference BSI_PP_0035.</i>  |
| [ANSSI-CC-2011/07] | Secured microcontrollers ST33F1ME, ST33F768E, SC33F768E, ST33F640E, SC33F640E, ST33F512E, SC33F512E and SC33F384E with the optional cryptographic library NesLib v3.0.<br><i>Certified by ANSSI under the reference ANSSI-CC- 2011/07.</i> |
| [ANSSI-CC-2011/77] | Orange NFC V2 G1 platform on ST33F1ME<br><i>Certified by ANSSI under reference ANSSI-CC-2011/77</i>  |



## 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 :<br>Part 1: Introduction and general model,<br>July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-001;<br>Part 2: Security functional components,<br>July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-002;<br>Part 3: Security assurance components,<br>July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-003. |
| [CEM]   | Common Methodology for Information Technology Security Evaluation :<br>Evaluation Methodology,<br>July 2009, version 3.1, revision 3 Final, ref CCMB-2009-07-004.   |
| [CC IC]   | Common Criteria Supporting Document - Mandatory Technical Document<br>- The Application of CC to Integrated Circuits, reference CCDB-2009-03-002 version 3.0, revision 1, March 2009.   |
| [JII AP]  | Joint Interpretation Library - Application of attack potential to smart-cards,<br>version 2.8, janvier 2012.  |
| [COMP]  | Joint Interpretation Library - Composite product evaluation for smart cards<br>and similar devices, version 1.2, janvier 2012.  |
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