

Agence nationale de la sécurité des systèmes d'information

Certification report ANSSI-CC-2024/42

Strong Customer Authentication for Apple Pay on Mac mini with M2 Pro and Magic keyboard with Touch ID running macOS Sonoma 14.4 (macOS Sonoma 14.4 (build 23E214))

Paris, the



WARNING

This report is intended to provide people who request evaluations with a document allowing them to confirm the level of security offered by the product under the usage or operating conditions defined in this report for the evaluated version. It is also intended to provide a potential acquirer of the product with the circumstances under which they may operate or use the product in accordance with the operating conditions for which the product has been evaluated and certified; this is why the certification report must be read in conjunction with the evaluated usage and administration guides and with the product's security target, which describes the pre-supposed threats, environmental assumptions and presumed usage conditions so that the user can judge whether the product is suitable for their needs in terms of security objectives.

The certification does not in itself constitute a product recommendation by the Agence nationale de la sécurité des systèmes d'information (ANSSI) and does not guarantee that the certified product is completely free of vulnerabilities that can be exploited.

All correspondence relative to this report should be sent to:

Secrétariat général de la défense et de la sécurité nationale Agence nationale de la sécurité des systèmes d'information Centre de certification 51, boulevard de la Tour Maubourg 75700 Paris cedex 07 SP

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Certification report reference			
ANSSI-CC-2024/42			
Product name			
Strong Customer Authentication for Apple Pay on Mac mini with M2			
Pro and Magic keyboard with Touch ID running macOS Sonoma 14.4			
Product reference/version			
macOS Sonoma 14.4 (build 23E214)			
Compliance with a protection profile			
N/A			
Evaluation criterion and version			
Common Criteria version CC:2022, revision 1			
Evaluation level			
EAL2 augmented			
O			
ADV_FSP.3, ALC_FLR.3			
Developer			
APPLE INC.			
7 place d'Iéna			
75016 Paris, France			
Sponsor			
APPLE INC.			
7 place d'Iéna			
75016 Paris, France			
Evaluation facility			
THALES/CNES			
290 allée du Lac			
31670 Labège, France			
Applicable recognition agreements			
CCRA SOG-IS			
A CONTROL OF THE OWNER			
This certificate is recognized at level EAL2			
increased by ALC_FLR.3.			

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FOREWORD

The certification of security offered by information technology products and systems is governed by amended Decree 2002-535 dated April 18, 2002. This decree states that:

- the Agence nationale de la sécurité des systèmes d'information drafts certification reports. These reports specify the characteristics of the proposed security objectives. They may contain any warnings that their authors consider are worth mentioning for reasons of security. The people who order the reports may choose whether or not to communicate them to third parties or make them public (Art. 7);
- the certificates awarded by the Director General of the Agence nationale de la sécurité des systèmes d'information certify that the individual product or system submitted for evaluation meets the specified security characteristics. They also certify that the evaluations were carried out according to the current rules and standards, with the required level of competence and impartiality (Art. 8).

The certification procedures are available on the website <u>www.cyber.gouv.fr</u>.



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1 <u>Product</u>

1.1 <u>Product Presentation</u>

The evaluated product is "Strong Customer Authentication for Apple Pay on Mac mini with M2 Pro and Magic keyboard with Touch ID running macOS Sonoma 14.4, macOS Sonoma 14.4 (build 23E214)" developed by APPLE INC.

Apple Pay is a mobile payment solution developed by the company APPLE INC. After users register a bank card in their Apple device, they can use it to make payments. For the payment to be successful, users must authenticate themselves on the device using a passcode, a fingerprint or facial recognition.

1.2 <u>Product Description</u>

1.2.1 Introduction

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

1.2.2 <u>Security Services</u>

The main security services provided by the product are described in the security target [ST] in section 2.3.2 "TOE usage and major security features".

1.2.3 <u>Architecture</u>

The product architecture is described in the security target [ST] part 2.4.1. "TOE Architecture ".

1.2.4 <u>Product Identification</u>

The component elements of the product are identified in the configuration list [CONF].

The certified version of the product can be identified by the elements detailed in the security target [ST] in section 2.2 "Target of Evaluation Reference".

1.2.5 Life Cycle

The product lifecycle is described in chapter 2.4.3 "TOE Lifecycle" of the security target [ST].

For the evaluation, the evaluator considered the end user to be the sole user of the product.

1.2.6 <u>Evaluated Configuration</u>

The certificate covers the configurations detailed in the security target [ST] in chapter 2.2 "Target of Evaluation Reference".



2 Evaluation

2.1 Evaluation Standard

The evaluation was carried out in accordance with the Common Criteria [CC] and the evaluation methodology defined in the manual [CEM].

2.2 Evaluation Work

The evaluation technical report [ETR], which was delivered to the ANSSI on the day of its finalization by ITSEF (see date in bibliography), details the work performed by the evaluation facility and certifies that all evaluation tasks are "**successful**".

2.3 <u>Rating of Cryptographic Mechanisms According to ANSSI Technical Benchmarks</u>

The encryption mechanisms implemented by the product's security functions (see [ST]) were analyzed in accordance with procedure [CRY-P-01], and the results were recorded in the [ETR] evaluation report.

This analysis did not identify any non-compliances with respect to benchmark [ANSSI Crypto]. The independent vulnerability analysis carried out by the evaluator did not show any exploitable vulnerabilities for the targeted attack potential.

2.4 <u>Random Number Generator</u>

The product includes a random number generator that was analyzed in accordance with procedure [CRY-P-01].

This analysis did not identify any non-compliances with respect to benchmark [ANSSI Crypto].

The independent vulnerability analysis carried out by the evaluator did not show any exploitable vulnerabilities for the targeted attack potential.



3 Certification

3.1 <u>Conclusion</u>

The evaluation was carried out in accordance with the rules and standards in force, with the requisite expertise and impartiality for an accredited evaluation facility. The overall evaluation work performed allows the issuance of a certificate in accordance with Decree 2002-535.

This certificate certifies that the evaluated product satisfies the security characteristics set out in its security target [ST] for the specified evaluation level.

3.2 Usage Restrictions

This certificate covers the product specified in chapter 1.2 of this certification report.

Users of the product must ensure the compliance with the security objectives regarding the operating environment, as specified in the security target [ST], and to follow the recommendations found in the provided guides [GUIDES].

3.3 <u>Recognition of the Certificate</u>

3.3.1 European Recognition (SOG-IS)

This certificate is issued under the terms of the SOG-IS agreement [SOG-IS].

The 2010 SOG-IS European Recognition Agreement allows the recognition, by the signatory countries of the agreement¹, of ITSEC and Common Criteria certificates. European recognition applies up to level ITSEC E3 Basic and CC EAL4 when CC dependencies are satisfied. Certificates recognized under this agreement are issued with the following mark:



3.3.2 Common Criteria Recognition Arrangement (CCRA)

This certificate is issued under the terms of the CCRA agreement [CCRA].

The Common Criteria Recognition Arrangement agreement allows the recognition of Common Criteria certificates by the signatory countries².



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¹ The list of signatory countries of the SOG-IS agreement is available at the agreement's website: www.sogis.eu.

² The list of signatory countries of the CCRA is available at the agreement's website: <u>www.commoncriteriaportal.org</u>.

The recognition applies up to the CC EAL2 level assurance as well as to the ALC_FLR family. Certificates recognized under this agreement are issued with the following mark:





ANNEXE A. Documentary References for the Evaluated Product

[ST]	 Reference security target for the evaluation: Strong Customer Authentication for Apple Pay on Mac mini with M2 Pro and Magic keyboard with Touch ID, running macOS Sonoma 14.4 - Security Target, version 4.0, October 1, 2024.
[ETR]	Evaluation technical report: - Evaluation Technical Report PSD2 OS 2023 - DOVE3, reference DOVE3_ETR_1.1, version 1.1, October 17, 2024.
[CONF]	Product configuration list: - Strong Customer Authentication for Apple Pay on Mac mini with M2 Pro and Magic keyboard with Touch ID running macOS Sonoma 14.4 - Configuration Item List, version 6.0, October 1, 2024.
[GUIDES]	 Product user guide: Strong Customer Authentication for Apple Pay on Mac mini with M2 Pro and Magic keyboard with Touch ID, running macOS Sonoma 14.4 - Guidance, version 4.0, October 1, 2024.



ANNEXE B. <u>Reference related to the certification</u>

Decree 2002-535 dated April 18, 2002 as modified relative to the evaluation and certification of the security offered by information technology products and systems.				
[CER-P-01]	Certification critères communs de la sécurité offerte par les produits, les systèmes des technologies de l'information, les sites ou les profils de protection, référence ANSSI-CC-CER-P-01, version 5.0.			
[CRY-P-01]	Modalités pour la réalisation des analyses cryptographiques et des évaluations des générateurs de nombres aléatoires, référence ANSSI-CC-CRY-P01, version 4.1.			
[CC]	 Common Criteria for Information Technology Security Evaluation: Part 1: Introduction and general model, November 2022, version CC:2022, revision 1, reference CCMB-2022-11-001; Part 2: Security functional components, November 2022, version CC:2022, revision 1, reference CCMB-2022-11-002; Part 3: Security assurance components, November 2022, version CC:2022, revision 1, reference CCMB-2022-11-003; Part 4: Framework for the specification of evaluation methods and Activities, November 2022, version CC:2022, revision 1, reference CCMB-2022, version 1, reference CCMB-2022, version 2, revision 1, reference 2, version 2, version 1, reference 2, version 2, version 2, version 2, version 1, reference 2, version 1, reference 2, version 1, reference 2, version 2, version 2, version 1, reference 2, version 2, version 2, version 2, version 1, reference 2, version 2, version 2, version 2, version 1, reference 2, version 2, version 2, version 2, version 1, reference 2, version 2, version			
[CEM]	Common Methodology for Information Technology Security Evaluation: Evaluation Methodology, November 2022, version CC:2022, revision 1, reference CCMB-2022-11-006.			
[CCRA]	Arrangement on the Recognition of Common Criteria Certificates in the field of Information Technology Security, July 2, 2014.			
[SOG-IS]	Mutual Recognition Agreement of Information Technology Security Evaluation Certificates, version 3.0, January 8, 2010, Management Committee.			
[ANSSI Crypto]	Guide des mécanismes cryptographiques: Règles et recommandations concernant le choix et le dimensionnement des mécanismes cryptographiques, ANSSI-PG-083, version 2.04, January 2020.			

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