National Information Assurance Partnership Common Criteria Evaluation and Validation Scheme



Validation Report

Samsung Electronics Co., Ltd. Samsung Galaxy Devices on Android 11 – Fall

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1 Executive Summary

This report documents the assessment of the National Information Assurance Partnership (NIAP) validation team of the evaluation of Samsung Galaxy Devices on Android 11 solution provided by Samsung Electronics Co., Ltd. It presents the evaluation results, their justifications, and the conformance results. This Validation Report is not an endorsement of the Target of Evaluation by any agency of the U.S. government, and no warranty is either expressed or implied.

The evaluation was performed by the Gossamer Security Solutions (Gossamer) Common Criteria Testing Laboratory (CCTL) in Columbia, MD, United States of America, and was completed in September 2021. The information in this report is largely derived from the Evaluation Technical Report (ETR) and associated test reports, all written by Gossamer Security Solutions. The evaluation determined that the product is both Common Criteria Part 2 Extended and Part 3 Conformant, and meets the assurance requirements of the Protection Profile for Mobile Device Fundamentals, Version 3.1, 16 June 2017, General Purpose Operating Systems Protection Profile/Mobile Device Fundamentals Protection Profile Extended Package (EP) Wireless Local Area Network (WLAN) Clients, Version 1.0, 08 February 2016 and PP-Module for Virtual Private Network (VPN) Clients, version 2.2, January 5, 2021.

The Target of Evaluation (TOE) is the Samsung Galaxy Devices on Android 11 - Fall.

The TOE identified in this Validation Report has been evaluated at a NIAP approved Common Criteria Testing Laboratory using the Common Methodology for IT Security Evaluation (Version 3.1, Rev 5) for conformance to the Common Criteria for IT Security Evaluation (Version 3.1, Rev 5). This Validation Report applies only to the specific version of the TOE as evaluated. The evaluation has been conducted in accordance with the provisions of the NIAP Common Criteria Evaluation and Validation Scheme and the conclusions of the testing laboratory in the evaluation technical report are consistent with the evidence provided.

The validation team monitored the activities of the evaluation team, provided guidance on technical issues and evaluation processes, and reviewed the individual work units and successive versions of the ETR. The validation team found that the evaluation showed that the product satisfies all of the functional requirements and assurance requirements stated in the Security Target (ST). Therefore the validation team concludes that the testing laboratory's findings are accurate, the conclusions justified, and the conformance results are correct. The conclusions of the testing laboratory in the evaluation technical report are consistent with the evidence produced.

The technical information included in this report was obtained from the Samsung Electronics Co., Ltd. Samsung Galaxy Devices on Android 11 - Fall Security Target, version 0.1, July 7, 2021 and analysis performed by the Validation Team.

2 Identification

The CCEVS is a joint National Security Agency (NSA) and National Institute of Standards and Technology (NIST) effort to establish commercial facilities to perform trusted product

evaluations. Under this program, security evaluations are conducted by commercial testing laboratories called Common Criteria Testing Laboratories (CCTLs) using the Common Evaluation Methodology (CEM) in accordance with National Voluntary Laboratory Assessment Program (NVLAP) accreditation.

The NIAP Validation Body assigns Validators to monitor the CCTLs to ensure quality and consistency across evaluations. Developers of information technology products desiring a security evaluation contract with a CCTL and pay a fee for their product's evaluation. Upon successful completion of the evaluation, the product is added to NIAP's Validated Products List.

Table 1 provides information needed to completely identify the product, including:

- The Target of Evaluation (TOE): the fully qualified identifier of the product as evaluated.
- The Security Target (ST), describing the security features, claims, and assurances of the product.
- The conformance result of the evaluation.
- The Protection Profile to which the product is conformant.
- The organizations and individuals participating in the evaluation.

Table 1 - Evaluation Identifiers

Table 1 - Evaluation Identifiers					
Item	Identifier				
Evaluation Scheme	United States NIAP Common Criteria Evaluation and Validation Scheme				
TOE	Samsung Galaxy Devices on Android 11 – Fall				
	(Specific models identified in Section 8)				
Protection Profile	Protection Profile for Mobile Device Fundamentals, Version 3.1, 16 June 2017, General Purpose Operating Systems Protection Profile/Mobile Device Fundamentals Protection Profile Extended Package (EP) Wireless Local Area Network (WLAN) Clients, Version 1.0, 08 February 2016 and PP-Module for Virtual Private Network (VPN) Clients, version 2.2, January 5, 2021				
ST	Samsung Electronics Co., Ltd. Samsung Galaxy Devices on Android 11 - Fall Security Target, version 0.1, July 7, 2021				
Evaluation Technical Report	Evaluation Technical Report for Samsung Electronics Co., Ltd. Samsung Galaxy Devices on Android 11, version 02., August 26, 2021				
CC Version	Common Criteria for Information Technology Security Evaluation, Version 3.1, rev 5				
Conformance Result	CC Part 2 extended, CC Part 3 extended				
Sponsor	Samsung Electronics Co., Ltd.				
Developer	Samsung Electronics Co., Ltd.				
Common Criteria	Gossamer Security Solutions, Inc.				
Testing Lab (CCTL)	Columbia, MD				
CCEVS Validators	Patrick Mallett, Jerome Myers, DeRon Graves, Joyce Baidoo, Anne Gugel				

3 Architectural Information

Note: The following architectural description is based on the description presented in the Security Target.

The TOE evaluated configuration consists of the hardware and software described in this section when configured in accordance with the documentation specified in section 7.

The TOE is a mobile device based on Android 11 with a built-in IPsec VPN client and modifications made to increase the level of security provided to end users and enterprises. The TOE is intended for use as part of an enterprise mobility solution providing mobile staff with enterprise connectivity.

The TOE includes a Common Criteria mode (or "CC mode") that an administrator can invoke using an MDM. The TOE must meet the following prerequisites in order for an administrator to transition the TOE to and remain in the CC configuration.

- Require a boot and device lock password (swipe, PIN, pattern, accessibility (direction), screen locks are not allowed). Acceptable biometrics vary with the device for the device lock.
- The maximum password failure retry policy should be less than or equal to 30.
- A screen lock password required to decrypt data on boot.
- Revocation checking must be enabled.
- External storage must be encrypted.
- When CC mode has been enabled, the TOE behaves as follows:
 - o The TOE sets the system wide Android CC mode property to be enabled.
 - The TOE prevents loading of custom firmware/kernels and requires all updates occur through FOTA.
 - o The TOE utilizes ACVP/CAVP approved cryptographic ciphers for TLS.

The TOE includes the ability to create separate profiles part of the Knox Platform. A profile provides a way to segment applications and data into two separate areas on the device, such as a personal area and a work area, each with its own separate apps, data and security policies. For this effort, the TOE was evaluated both without and with profiles created. Thus, the evaluation includes several Knox-specific claims that apply when these profiles are created.

There are different models of the TOE, the Samsung Galaxy Devices on Android 11, and these models differ in their internal components (as described in the table below). All devices are A64 architecture.

3.1 TOE Evaluated Platforms

The model numbers of the mobile devices used during evaluation testing are as follows:

Device Name	Model Number	Chipset Vendor	SoC	Arch	Kernel	Build Number
Galaxy A52 5G	SM-A526B	Qualcomm	Snapdragon 750	ARMv8	4.19.152	RP1A.200720.012

Device Name	Model Number	Chipset Vendor	SoC	Arch	Kernel	Build Number
Galaxy A71 5G	SM-A716V	Qualcomm	Snapdragon 765	ARMv8	4.19.125	RP1A.200720.012
Galaxy Tab Active3	SM-T575	Samsung	Exynos 9810	ARMv8	4.9.191	RP1A.200720.012

Table 2 - Evaluated Devices

In addition to the evaluated devices, the devices in Table 3 - Equivalent Devices are claimed as equivalent with a note about the differences between the evaluated device (first column) and the equivalent models (noted in the third column with the differences in the fourth column). Equivalence in this table is determined by the use of identical processors, kernel and build number, and is not made across processor types.

The Differences column in the table denotes the differences between the evaluated device and those listed in the Equivalent column (which typically contains multiple different derivative devices), and are not meant to line up with the devices listed in the Equivalent column itself. Except in the case of a different Wi-Fi radios or biometric sensors (in which case the radio or biometric is tested on a different device and so always verified as part of the evaluation), any differences between the evaluated device and claimed equivalent devices are outside the requirements of the evaluation requirements, such as screen size/type/resolution, battery size, position of ports.

Evaluated Device	SoC Equivalent Devices		Differences	
Galaxy A52 5G	Snapdragon 750	Galaxy A42 5G	A52 5G > A42 5G screen resolution & RAM	
Galaxy A71 5G	Snapdragon 765	Galaxy A51 5G	A71 5G > A51 5G in terms of display size	
Colour Tab Active?	Fw.mac 0910	Calavy Tab Astivo2	T577 & T575 tablets have 5G	
Galaxy Tab Active3	Exynos 9810	Galaxy Tab Active3	T570 tablets only have Wi-Fi	

Table 3 - Equivalent Devices

In general, the devices include a final letter or number at the end of the name that denotes that the device is for a specific carrier or region (for example, U = US Carrier build and F = International, which were used during the evaluation).

For each device, there are specific models that are validated. This table lists the specific carrier models that have the validated configuration (covering both evaluated and equivalent devices).

Device Name	Chipset Vendor	Base Model Number	Carrier Models
Galaxy A52 5G	Qualcomm	SM-A526	B, N, U, U1, W, SC-53B
Calana A 42 5 C	Qualcomm	SM-A426	B, N, U, U1
Galaxy A42 5G	Qualcomm	SM-S426	DL
Galaxy A71 5G	Qualcomm	SM-A716	U, V
Galaxy A51 5G	Qualcomm	SM-A516	V, Q, SC-54A, SCG07
Galaxy Tab Active3	Samsung	SM-T577	U

Device Name	Device Name Chipset Vendor		Carrier Models
		SM-T575	N, None
		SM-T570	None

Table 4 - Carrier Models

3.2 TOE Architecture

The TOE combines with a Mobile Device Management solution (note that this evaluation does not include an MDM agent nor server) that enables the Enterprise to watch, control and administer all deployed mobile devices, across multiple mobile service providers as well as facilitate secure communications through a VPN. This partnership provides a secure mobile environment that can be managed and controlled by the environment and reduces the risks inherent in any mobile deployment.

Data on the TOE is protected through the implementation of Samsung File-Based Encryption (FBE) that utilizes ACVP/CAVP certified cryptographic algorithms to encrypt device storage. This functionality is combined with a number of on-device policies including local wipe, remote wipe, password complexity, automatic lock and privileged access to security configurations to prevent unauthorized access to the device and stored data.

The Knox Platform for Enterprise provides a set of flexible deployment options for work environments. With Knox Platform for Enterprise, it is possible to segment the device into two separate areas, by convention called the personal profile and the work profile. In creating a work profile, the Enterprise establishes a completely separate workspace, with its own authentication, applications and services, and ensure they are kept separate from anything the user may do in the personal profile. Another option for deployment is Knox Separated Apps, a folder where the Enterprise can isolate a group of applications from the rest of the device, restricting access to shared information, while maintaining seamless access to the isolated applications for the user.

The Samsung Knox Software Development Kit (SDK) builds on top of the existing Android security model by expanding the current set of security configuration options to more than 600 configurable policies and including additional security functionality such as application allow and block listing.

3.3 Physical Boundaries

The TOE is a multi-user capable mobile device based on Android 11 that incorporates the Samsung Knox SDK. The TOE does not include the user applications that run on top of the operating system, but does include controls that limit application behavior. The TOE includes an IPsec VPN client integrated into the firmware (as opposed to a downloadable application). Within an Enterprise environment, the Enterprise can manage the configuration of the mobile device, including the VPN client, through a compliant device management solution.

The TOE communicates and interacts with 802.11-2012 Access Points and mobile data networks to establish network connectivity, and the through that connectivity interacts with MDM servers that allow administrative control of the TOE.

4 Security Policy

This section summaries the security functionality of the TOE:

- 1. Security audit
- 2. Cryptographic support
- 3. User data protection
- 4. Identification and authentication
- 5. Security management
- 6. Protection of the TSF
- 7. TOE access
- 8. Trusted path/channels

4.1 Security audit

The TOE generates logs for a range of security relevant events. The TOE stores the logs locally so they can be accessed by an administrator or they can be exported to an MDM.

4.2 Cryptographic support

The TOE includes multiple cryptographic libraries with ACVP certified algorithms for a wide range of cryptographic functions including the following: asymmetric key generation and establishment, symmetric key generation, encryption/decryption, cryptographic hashing and keyed-hash message authentication. These functions are supported with suitable random bit generation, key derivation, salt generation, initialization vector generation, secure key storage, and key and protected data destruction. These primitive cryptographic functions are used to implement security protocols such as TLS, EAP-TLS, IPsec, and HTTPS and to encrypt the media (including the generation and protection of data and key encryption keys) used by the TOE. Many of these cryptographic functions are also accessible as services to applications running on the TOE.

4.3 User data protection

The TOE controls access to system services by hosted applications, including protection of the Trust Anchor Database. Additionally, the TOE protects user and other sensitive data using encryption so that even if a device is physically lost, the data remains protected. The functionality provided by work profiles and Knox Separated Apps enhance the security of user data by providing an additional layer of separation between different categories of apps and data while the device is in use. The TOE ensures that residual information is protected from potential reuse in accessible objects such as network packets.

4.4 Identification and authentication

The TOE supports a number of features related to identification and authentication. From a user perspective, except for making phone calls to an emergency number, a password or Biometric Authentication Factor (BAF) must be correctly entered to unlock the TOE. In addition, even when the TOE is unlocked the password must be re-entered to change the password or re-enroll the biometric template. Passwords are obscured when entered so they

cannot be read from the TOE's display, the frequency of entering passwords is limited and when a configured number of failures occurs, the TOE will be wiped to protect its contents. Passwords can be constructed using upper and lower case characters, numbers, and special characters and passwords between 4 and 16 characters are supported.

The TOE can also serve as an 802.1X supplicant and can use X.509v3 and validate certificates for EAP-TLS, TLS and IPsec exchanges. The TOE can also act as a client or server in an authenticated Bluetooth pairing. In addition to storing X.509 certificates used for IPsec connections, the TOE can also securely store pre-shared keys for VPN connections.

4.5 Security management

The TOE provides all the interfaces necessary to manage the security functions (including the VPN client) identified throughout this Security Target as well as other functions commonly found in mobile devices. Many of the available functions are available to users of the TOE while many are restricted to administrators operating through a Mobile Device Management solution once the TOE has been enrolled. Once the TOE has been enrolled and then un-enrolled, it removes all MDM policies and disables CC mode.

4.6 Protection of the TSF

The TOE implements a number of features to protect itself to ensure the reliability and integrity of its security features. It protects particularly sensitive data such as cryptographic keys so that they are not accessible or exportable. It also provides its own timing mechanism to ensure that reliable time information is available (e.g., for log accountability). It enforces read, write, and execute memory page protections, uses address space layout randomization, and stack-based buffer overflow protections to minimize the potential to exploit application flaws. It also protects itself from modification by applications as well as isolates the address spaces of applications from one another to protect those applications.

The TOE includes functions to perform self-tests and software/firmware integrity checking so that it might detect when it is failing or may be corrupt. If any self-tests fail, the TOE will not go into an operational mode. It also includes mechanisms (i.e., verification of the digital signature of each new image) so that the TOE itself can be updated while ensuring that the updates will not introduce malicious or other unexpected changes in the TOE. Digital signature checking also extends to verifying applications prior to their installation.

4.7 TOE access

The TOE can be locked, obscuring its display, by the user or after a configured interval of inactivity. The TOE also has the capability to display an advisory message (banner) when users unlock the TOE for use.

The TOE is also able to attempt to connect to wireless networks as configured.

4.8 Trusted path/channels

The TOE supports the use of 802.11-2012, 802.1X, EAP-TLS, TLS, HTTPS and IPsec to secure communications channels between itself and other trusted network devices.

5 Assumptions

The Security Problem Definition, including the assumptions, may be found in the following documents:

 Protection Profile for Mobile Device Fundamentals, Version 3.1, 16 June 2017, General Purpose Operating Systems Protection Profile/Mobile Device Fundamentals Protection Profile Extended Package (EP) Wireless Local Area Network (WLAN) Clients, Version 1.0, 08 February 2016 and PP-Module for Virtual Private Network (VPN) Clients, version 2.2, January 5, 2021

That information has not been reproduced here and the MDFPP31/WLANCEP10/VPNC22 should be consulted if there is interest in that material.

The scope of this evaluation was limited to the functionality and assurances covered in the MDFPP31/WLANCEP10/VPNC22 as described for this TOE in the Security Target. Other functionality included in the product was not assessed as part of this evaluation. All other functionality provided by the devices needs to be assessed separately, and no further conclusions can be drawn about their effectiveness.

6 Clarification of Scope

All evaluations (and all products) have limitations, as well as potential misconceptions that need clarification. This text covers some of the more important limitations and clarifications of this evaluation. Note that:

- As with any evaluation, this evaluation only shows that the evaluated configuration meets the security claims made with a certain level of assurance (the assurance activities specified in the Mobile Device Fundamentals Protection Profile and the General Purpose Operating Systems Protection Profile/Mobile Device Fundamentals Protection Profile Extended Package (EP) Wireless Local Area Network (WLAN) Clients and the Module for Virtual Private Network Clients and performed by the evaluation team).
- This evaluation covers only the specific device models and software as identified in this document, and not any earlier or later versions released or in process.
- Apart from the MDF Admin Guide, additional customer documentation for the specific mobile device models was not included in the scope of the evaluation and therefore should not to be relied upon when configuring or operating the device as evaluated.
- This evaluation did not specifically search for, nor attempt to exploit, vulnerabilities that were not "obvious" or vulnerabilities to objectives not claimed in the ST. The

CEM defines an "obvious" vulnerability as one that is easily exploited with a minimum of understanding of the TOE, technical sophistication and resources.

• The functionality evaluated is scoped exclusively to the security functional requirements specified in the MDFPP31/WLANCEP10/VPNC22 and applicable Technical Decisions. Any additional security related functional capabilities of the TOE were not covered by this evaluation.

7 **Documentation**

The following documents were available with the TOE for evaluation:

• Samsung Android 11 on Galaxy Devices Administrator Guide, Version 7.2, June 15, 2021

Any additional customer documentation provided with the product, or that is available online was not included in the scope of the evaluation and therefore should not to be relied upon when configuring or operating the device as evaluated.

To use the product in the evaluated configuration, the product must be configured as specified in the Guidance Documentation listed above. Consumers are encouraged to download the configuration guides from the NIAP website to ensure the device is configured as evaluated. Only the Administrator Guide listed above and the specific sections of the other documents referenced by that guide should be trusted for the installation, administration, and use of this product in its evaluated configuration."

8 IT Product Testing

This section describes the testing efforts of the developer and the Evaluation Team. It is derived from information contained in the proprietary Detailed Test Report for Samsung Galaxy Devices on Android 11 - Fall, Version 02., August 26, 2021 (DTR), as summarized in the evaluation Section 3.4 of the Assurance Activity Report.

8.1 Developer Testing

No evidence of developer testing is required in the assurance activities for this product.

8.2 Evaluation Team Independent Testing

The evaluation team verified the product according to a Common Criteria Certification document and ran the tests specified in the MDFPP31/WLANCEP10/VPNC22 including the tests associated with optional requirements. The AAR, in section 1.1, lists the tested devices, provides a list of test tools, and has diagrams of the test environment.

9 Evaluated Configuration

See Section 3.1.

10 Results of the Evaluation

The results of the assurance requirements are generally described in this section and are presented in detail in the proprietary ETR. The reader of this document can assume that all assurance activities and work units received a passing verdict.

A verdict for an assurance component is determined by the resulting verdicts assigned to the corresponding evaluator action elements. The evaluation was conducted based upon CC version 3.1 rev 5 and CEM version 3.1 rev 5. The evaluation determined the Samsung

Galaxy Devices on Android 11 TOE to be Part 2 extended, and to meet the SARs contained in the MDFPP31/WLANCEP10/VPNC22.

10.1 Evaluation of the Security Target (ASE)

The evaluation team applied each ASE CEM work unit. The ST evaluation ensured the ST contains a description of the environment in terms of policies and assumptions, a statement of security requirements claimed to be met by the Samsung Galaxy Devices on Android 11 products that are consistent with the Common Criteria, and product security function descriptions that support the requirements.

The validator reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

10.2 Evaluation of the Development (ADV)

The evaluation team applied each ADV CEM work unit. The evaluation team assessed the design documentation and found it adequate to aid in understanding how the TSF provides the security functions. The design documentation consists of a functional specification contained in the Security target and Guidance documents. Additionally the evaluator performed the assurance activities specified in the MDFPP31/WLANCEP10/VPNC22 related to the examination of the information contained in the TSS.

The validator reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

10.3 Evaluation of the Guidance Documents (AGD)

The evaluation team applied each AGD CEM work unit. The evaluation team ensured the adequacy of the user guidance in describing how to use the operational TOE. Additionally, the evaluation team ensured the adequacy of the administrator guidance in describing how to securely administer the TOE. All of the guides were assessed during the design and testing phases of the evaluation to ensure they were complete.

The validator reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

10.4 Evaluation of the Life Cycle Support Activities (ALC)

The evaluation team applied each ALC CEM work unit. The evaluation team found that the TOE was identified.

The validator reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

10.5 Evaluation of the Test Documentation and the Test Activity (ATE)

The evaluation team applied each ATE CEM work unit. The evaluation team ran the set of tests specified by the assurance activities in the MDFPP31/WLANCEP10/VPNC22 and recorded the results in a Test Report, summarized in the AAR.

The validator reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

10.6 Vulnerability Assessment Activity (VAN)

The evaluation team applied each AVA CEM work unit. The vulnerability analysis is in the Detailed Test Report (DTR) prepared by the evaluator. The vulnerability analysis includes a public search for vulnerabilities on 08/26/2021. The public search for vulnerabilities did not uncover any residual vulnerability.

The evaluator searched the National Vulnerability Database (https://web.nvd.nist.gov/view/vuln/search) and Vulnerability Notes Database (http://www.kb.cert.org/vuls/) with the following search terms: ""SM-T575", "SM-A526B", "SM-A716V", "Tab Active3", "Samsung A52", "Samsung A71", "Knox", "Android", "BoringSSL", "strongswan", and "charon".

The validator reviewed the work of the evaluation team, and found that sufficient evidence and justification was provided by the evaluation team to confirm that the evaluation was conducted in accordance with the requirements of the CEM, and that the conclusion reached by the evaluation team was justified.

10.7 Summary of Evaluation Results

The evaluation team's assessment of the evaluation evidence demonstrates that the claims in the ST are met. Additionally, the evaluation team's testing also demonstrated the accuracy of the claims in the ST.

The validation team's assessment of the evidence provided by the evaluation team is that it demonstrates that the evaluation team followed the procedures defined in the CEM, and correctly verified that the product meets the claims in the ST.

11 Validator Comments/Recommendations

The validation team notes that the evaluated configuration is dependent upon the TOE being configured per the evaluated configuration instructions in the Samsung Android 11 on Galaxy Devices Administrator Guide, Version 7.2, June 15, 2021. No versions of the

TOE and software, either earlier or later were evaluated. Please note that the functionality evaluated is scoped exclusively to the security functional requirements specified in the Security Target. Other functionality included in the product was not assessed as part of this evaluation. Other functionality provided by devices in the operational environment, such as the syslog server, need to be assessed separately and no further conclusions can be drawn about their effectiveness.

12 Annexes

Not applicable

13 Security Target

The Security Target is identified as: Samsung Electronics Co., Ltd. Samsung Galaxy Devices on Android 11 - Fall Security Target, Version 0.1, July 7, 2021.

14 Glossary

The following definitions are used throughout this document:

- Common Criteria Testing Laboratory (CCTL). An IT security evaluation facility accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and approved by the CCEVS Validation Body to conduct Common Criteria-based evaluations.
- **Conformance**. The ability to demonstrate in an unambiguous way that a given implementation is correct with respect to the formal model.
- Evaluation. The assessment of an IT product against the Common Criteria using the Common Criteria Evaluation Methodology to determine whether or not the claims made are justified; or the assessment of a protection profile against the Common Criteria using the Common Evaluation Methodology to determine if the Profile is complete, consistent, technically sound and hence suitable for use as a statement of requirements for one or more TOEs that may be evaluated.
- **Evaluation Evidence**. Any tangible resource (information) required from the sponsor or developer by the evaluator to perform one or more evaluation activities.
- **Feature.** Part of a product that is either included with the product or can be ordered separately.
- Target of Evaluation (TOE). A group of IT products configured as an IT system, or an IT product, and associated documentation that is the subject of a security evaluation under the CC.
- Validation. The process carried out by the CCEVS Validation Body leading to the issue of a Common Criteria certificate.

• Validation Body. A governmental organization responsible for carrying out validation and for overseeing the day-to-day operation of the NIAP Common Criteria Evaluation and Validation Scheme.

15 Bibliography

The Validation Team used the following documents to produce this Validation Report:

- [1] Common Criteria for Information Technology Security Evaluation: Part 1: Introduction and General Model, Version 3.1, Revision 5, September 2012.
- [2] Common Criteria for Information Technology Security Evaluation Part 2: Security functional components, Version 3.1, Revision 5, September 2012.
- [3] Common Criteria for Information Technology Security Evaluation Part 3: Security assurance components, Version 3.1 Revision 5, September 2102.
- [4] Protection Profile for Mobile Device Fundamentals, Version 3.1, 16 June 2017 and General Purpose Operating Systems Protection Profile/Mobile Device Fundamentals Protection Profile Extended Package (EP) Wireless Local Area Network (WLAN) Clients, Version 1.0, 08 February 2016 and PP-Module for Virtual Private Network (VPN) Clients, version 2.2, January 5, 2021.
- [5] Samsung Electronics Co., Ltd. Samsung Galaxy Devices on Android 11 Fall Security Target, Version 0.1, July 7, 2021 (ST).
- [6] Assurance Activity Report for Samsung Galaxy Devices on Android 11, Version 02., August 26, 2021 (AAR).
- [7] Detailed Test Report for Samsung Galaxy Devices on Android 11, Version 02., August 26, 2021 (DTR).
- [8] Evaluation Technical Report for Samsung Galaxy Devices on Android 11, Version 02., August 26, 2021 (ETR)