



ASSURANCE CONTINUITY MAINTENANCE REPORT FOR SAMSUNG GALAXY DEVICES ON ANDROID 10 - SPRING

Maintenance Update of Samsung Galaxy Devices on Android 10 - Spring

Maintenance Report Number: CCEVS-VR-VID11042-2020-2

Date of Activity: 12 October 2020

References: Common Criteria Evaluation and Validation Scheme Publication #6, Assurance Continuity: Guidance for Maintenance and Re-evaluation, version 3.0, 12 September 2016;

Impact Analysis Report for Samsung Electronics Co., Ltd. Samsung Galaxy S20 FE (PP_MD_V3.1/PP_WLAN_CLI_EP_V1.0), September 18, 2020.

Documentation Updated: The original documentation has been updated to the following

Security Target: Samsung Electronics Co., Ltd. Samsung Galaxy Devices on Android 10 – Spring Security Target, Version 1.2, August 17, 2020. Changes in the Security Target are:

- Updated to reflect added equivalent devices to the list of evaluated devices.
- Updates were made to the version numbers and dates in the document.

Guidance Documentation: Changes were made to the guidance documentation, including:

- Administration guide updated from version 6.1 to version 6.2 (Samsung Android 10 on Galaxy Devices Administrator Guide).
- The updated administration guide reflects the updated devices
- A new Application List document was created to reflect the updated devices.

Assurance Continuity Maintenance Report:

Gossamer Laboratories submitted an Impact Analysis Report (IAR) and Assurance Continuity Maintenance package on behalf of Samsung to the CCEVS for approval in September 2020. The IAR is intended to satisfy the requirements outlined in Common Criteria Evaluation and Validation Scheme Publication #6, Assurance Continuity: Guidance for Maintenance and Re-evaluation, version 3.0. In accordance with those requirements, the IAR describes the changes made to the certified TOE, the evidence updated because of the changes, and the security impact of the changes.

Changes to TOE:

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Samsung added several device models to the evaluated TOE. The following table summarizes the devices that were originally evaluated:

Table 1 Samsung Galaxy devices originally evaluated

Device Name	Model Number	Chipset Vendor	CPU	Kernel Version	Build Number
Galaxy S20+ 5G	SM-G986B	Samsung	Exynos 990	4.19.87	QP1A.190711.020
Galaxy S20+ 5G	SM-G986U	Qualcomm	SM8250	4.19.81	QP1A.190711.020
Galaxy XCover Pro	SM-G715F	Samsung	Exynos 9611	4.14.113	QP1A.190711.020
Galaxy Note10	SM-N976B	Samsung	Exynos 9825	4.14.113	QP1A.190711.020
Galaxy S10e	SM-G970F	Samsung	Exynos 9820	4.14.113	QP1A.190711.020
Galaxy S10+	SM-G975U	Qualcomm	SM8150	4.14.117	QP1A.190711.020
Galaxy Note9	SM-N960F	Samsung	Exynos 9810	4.9.118	QP1A.190711.020
Galaxy Note9	SM-N960U	Qualcomm	SDM845	4.9.186	QP1A.190711.020

In addition, a prior assurance maintenance action added the following device models to the list of already-approved devices above: Galaxy Note20 Ultra 5G (SM-N986), Galaxy Note20 Ultra (SM-N985), Galaxy Note20 5G (SM-N981), Galaxy Note20 (SM-N980), the Galaxy Tab S7+ (SM-T97x), Galaxy Tab S7 (SM-T87x), Galaxy Z Fold2 (SM-F916) and Galaxy Z Flip 5G (SM-F707).

This assurance maintenance action adds the following device models: Galaxy S20 FE (Fan Edition) with Qualcomm and Samsung processors (models SM-G781 and SM-G780, respectively). The following table shows the complete list of products, including the prior evaluated products and the newly added products.

Table 2 Complete list of devices covered by assurance maintenance

Device Name	Chipset Vendor	Base Model Number	Carrier Models
Galaxy S20 FE	Qualcomm	SM-G781	B, N, U, V, W
Galaxy S20 FE	Samsung	SM-G780	F
Galaxy Fold2	Qualcomm	SM-F916	B, U, W
Galaxy Note20+ 5G	Samsung	SM-N986	B
Galaxy Note20+ 5G	Qualcomm	SM-N986	C, N, U, W, SC010*
Galaxy Note20+ LTE	Samsung	SM-N985	F

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Galaxy Note20 5G	Samsung	SM-N981	B
Galaxy Note20 5G	Qualcomm	SM-N981	N, U, W
Galaxy Note20 LTE	Samsung	SM-N980	F
Galaxy Tab S7+	Qualcomm	SM-T978	U
		SM-T976	B, N
		SM-T975	N, None
		SM-T970	None
Galaxy Tab S7	Qualcomm	SM-T878	U
		SM-T875	N, None
		SM-T870	None
Galaxy Z Flip 5G	Qualcomm	SM-F707	B, N, U
Galaxy S20 Ultra 5G	Samsung	SM-G988	B
Galaxy S20 Ultra 5G	Qualcomm	SM-G988	N, U, W
Galaxy S20+ 5G	Samsung	SM-G986	B
Galaxy S20+ 5G	Qualcomm	SM-G986	N, U, W, SC52A*, SCG02*
Galaxy S20+ LTE	Samsung	SM-G985	F
Galaxy S20 5G	Samsung	SM-G981	B
Galaxy S20 5G	Qualcomm	SM-G981	N, U, V, W, SC51A*, SCG01*
Galaxy S20 TE	Qualcomm	SM-G981	U
Galaxy S20 LTE	Samsung	SM-G980	F
Galaxy XCover Pro	Samsung	SM-G715	F, U, W
Galaxy A51	Samsung	SM-A515	F, U, W
		SM-S515	DL
Galaxy Note10+ 5G	Samsung	SM-N976	B, N
Galaxy Note10+ 5G	Qualcomm	SM-N976	U, V
Galaxy Note10+	Samsung	SM-N975	F

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Galaxy Note10+	Qualcomm	SM-N975	C, U, SC-01M*, SCV45*
Galaxy Note10 5G	Samsung	SM-N971	N
Galaxy Note10	Samsung	SM-N970	F
Galaxy Note10	Qualcomm	SM-N970	U
Galaxy Tab S6 5G	Qualcomm	SM-T866	N
Galaxy Tab S6	Qualcomm	SM-T867	R4, U, V
		SM-T865	N, None
		SM-T860	None
Galaxy S10 5G	Samsung	SM-G977	B, N
Galaxy S10 5G	Qualcomm	SM-G977	P, T, U
Galaxy S10+	Samsung	SM-G975	F, N
Galaxy S10+	Qualcomm	SM-G975	U, SC-04L*, SC-05L*, SCV42*
Galaxy S10	Samsung	SM-G973	F, N
Galaxy S10	Qualcomm	SM-G973	U, SC-03L*, SCV41*
Galaxy S10e	Samsung	SM-G970	F, N
Galaxy S10e	Qualcomm	SM-G970	U
Galaxy Fold 5G	Qualcomm	SM-F907	B, N
Galaxy Fold	Qualcomm	SM-F900	F, U, SC-06L*, SCV44*
Galaxy Z Flip	Qualcomm	SM-F700	F, N, U, W, SCV47*
Galaxy Note9	Samsung	SM-N960	F, N
Galaxy Note9	Qualcomm	SM-N960	U, SC-01L*, SCV40*
Galaxy XCover FieldPro	Samsung	SM-G889	A
Galaxy S9+	Samsung	SM-G965	F, N
Galaxy S9+	Qualcomm	SM-G965	U, SC-03K*, SCV39*
Galaxy S9	Samsung	SM-G960	F, N
Galaxy S9	Qualcomm	SM-G960	U, SC-02K*, SCV38*

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The differences between the devices that were originally evaluated and those that were added as part of this maintenance action are primarily hardware related. These include differences in form factor (screen size and battery size), input capabilities (Samsung S-Pen), and wireless radios (cellular and Wi-Fi). The Z Fold2 and the Z Flip 5G are foldable devices with multiple displays. The S20 FE device models added as part of this maintenance action differ from the earlier S20 series devices in screen size and screen resolution.

Some of the devices have also been updated to support different fingerprint biometric authentication subsystems to accommodate the various form factors and screen sizes of the various device models (as summarized in the following table). The biometric hardware and software components remain unchanged from the ones that were part of the original evaluation.

Table 3 Biometrics capabilities on claimed devices

Device	Sensors
All S20x/All Note10x/S10 5G/S10+/S10	Fingerprint-U
Tab S7x/S20 FE/Tab S6/A51	Fingerprint-ID
Tab S7/S10e/All Foldx/All Z Flipx/Z Fold2/XCover Pro/XCover FieldPro	Fingerprint-I
Note9/All S9x	Fingerprint-I, Iris

Equivalency Discussion:

The major change undertaken with this maintenance action is to add a set of devices to the already-evaluated products, with hardware changes that do not affect the evaluated security functional requirements. As described earlier, these hardware changes relate to form factor and screen resolution.

The firmware and system software on the devices have been periodically updated as part of Samsung's normal update process, which covers both planned and emergency updates that address both security and functionality aspects of the devices. These changes do not affect the SFRs and are not covered by this assurance maintenance action. There were no other relevant changes to the devices because all other changes to application software are out of scope of the evaluation and do not affect the originally evaluated security functional requirements. Samsung has performed extensive regression testing on the updated firmware and system software as part of their quality assurance process. This includes consulting a variety of sources of vulnerability data, such as CVE and National Vulnerability Database (NVD) current as of September 18, 2020, and performing vulnerability testing of the updated software, with coverage of the relevant SFRs. Vulnerability searches were done using the same search terms used in the Assurance Activity Report of the original evaluation, updated to reflect the version numbers and product models cited in this ACMR.

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Conclusion:

CCEVS reviewed the description of the changes and the analysis of the impact upon security, and found the changes to be minor. Therefore, CCEVS agrees that the original assurance is maintained for the above-cited version of the product.