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SAMSUNG ANDROID OS 17 WITH KNOX 3.X SECURITY TECHNICAL IMPLEMENTATION GUIDE (STIG) OVERVIEW

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Developed by Samsung and DISA for the DoW

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1. INTRODUCTION

1.1 Executive Summary

The Samsung Android OS 17 with Knox 3.x Security Technical Implementation Guide (STIG) provides the technical security policies, requirements, and implementation details for applying security concepts to Samsung Android 17 with Knox devices.

This STIG supports only the Android Enterprise (AE) deployment and not the previous Legacy deployment that used Device Admin (DA). AE security policies are sufficient to cover the baseline STIG requirements. Knox policies can augment the deployment to provide additional features and, in some cases, may even replace AE policies where they cannot be used due to management tool limitations.

The scope of this STIG covers only the Corporate Owned Personally Enabled (COPE) and Corporate Owned Business Only (COBO)¹ use cases. Bring Your Own Device (BYOD) and Choose Your Own Device (CYOD)² use cases are not included.

The configuration requirements and controls implemented by this STIG allow unrestricted user activity in downloading and installing personal apps and data (music, photos, etc.) with authorizing official (AO) approval and within any restrictions imposed by the AO for the COPE use case. Refer to the STIG Supplemental document (Section 5.3.1, Configuration of the Personal Profile), for more information. This STIG assumes that if a DoW Wi-Fi network allows a Samsung mobile device to connect to the network, the Wi-Fi network complies with the Network Infrastructure STIG; for example, wireless access points and bridges must not be connected directly to the enclave network.

With AO approval, this STIG allows fingerprint biometric authentication for device unlock and work profile/workspace unlock. The fingerprint biometric method has successfully passed a Common Criteria evaluation using the Protection Profile for Mobile Device Fundamentals (MDF) v3.3 for the previous version of the Samsung platform (Android 16) and will be reviewed again during the Samsung Android 17 Common Criteria evaluation, using v4.0 of the Protection Profile for Mobile Device Fundamentals (MDF). Other Samsung-supported biometric methods are not approved, including facial recognition and trust agents.

Knox Mobile Enrollment (KME) enables large-scale Samsung Android device deployments so organizations can mobilize their employees with ease. KME allows DoW mobile service providers to deploy corporate-owned devices in bulk without having to set up each device manually. It is recommended that DoW mobile service providers consider deploying all Samsung devices via KME to improve enterprise management, control, and enrollment of DoW-owned Samsung devices. Refer to the STIG Supplemental document (Section 4.8, Knox Mobile Enrollment) for more information. Samsung Android devices are also compatible with the AE zero-touch service, which offers similar functionality to Samsung's KME.

¹ Work data/apps only; no personal data/apps.

² Similar to BYOD; only a select number of personal devices are allowed.

1.2 Authority

Department of Defense Instruction (DODI) 8500.01 requires that “all IT [information technology] that receives, processes, stores, displays, or transmits DOD information will be [...] configured [...] consistent with applicable DOD cybersecurity policies, standards, and architectures.” The instruction tasks that DISA “develops and maintains control correlation identifiers (CCIs), security requirements guides (SRGs), security technical implementation guides (STIGs), and mobile code risk categories and usage guides that implement and are consistent with DOD cybersecurity policies, standards, architectures, security controls, and validation procedures, with the support of the NSA/CSS [National Security Agency/Central Security Service], using input from stakeholders, and using automation whenever possible.” This document is provided under the authority of DODI 8500.01.

Although the use of the principles and guidelines in these SRGs/STIGs provides an environment that contributes to the security requirements of DoW systems, applicable NIST SP 800-53 cybersecurity controls must be applied to all systems and architectures based on the Committee on National Security Systems (CNSS) Instruction (CNSSI) 1253.

1.3 Vulnerability Severity Category Code Definitions

Severity Category Codes (referred to as CAT) are a measure of vulnerabilities used to assess a facility or system security posture. Each security policy specified in this document is assigned a Severity Category Code of CAT I, II, or III.

Table 0-1: Vulnerability Severity Category Code Definitions

Category	DISA Category Code Guidelines
CAT I	Any vulnerability, the exploitation of which will directly and immediately result in loss of Confidentiality, Availability, or Integrity.
CAT II	Any vulnerability, the exploitation of which has a potential to result in loss of Confidentiality, Availability, or Integrity.
CAT III	Any vulnerability, the existence of which degrades measures to protect against loss of Confidentiality, Availability, or Integrity.

1.4 STIG Distribution

Parties within the DoW and federal government’s computing environments can obtain the applicable STIG from the DoW Cyber Exchange website at <https://cyber.mil/>. This site contains the latest copies of STIGs, SRGs, and other related security information. Those without a common access card (CAC) that has DoW Certificates can obtain the STIG from <https://public.cyber.mil/>.

1.5 MDFPP Compliance Reporting

All Mobile Device Fundamentals Protection Profile (MDFPP) and DoW Annex security functional requirements (SFRs) were considered while developing this STIG. In DoW environments, devices must implement SFRs as specified in the DoW Annex to the MDFPP.

Requirements that are applicable and configurable are included in this STIG.

1.6 Document Revisions

Comments or proposed revisions to this document should be sent via email to the following address: disa.stig_spt@mail.mil. DISA will coordinate all change requests with the relevant DoW organizations before inclusion in this document. Approved changes will be made in accordance with the DISA maintenance release schedule.

1.7 Other Considerations

DISA accepts no liability for the consequences of applying specific configuration settings made on the basis of the SRGs/STIGs. It must be noted that the configuration settings specified should be evaluated in a local, representative test environment before implementation in a production environment, especially within large user populations. The extensive variety of environments makes it impossible to test these configuration settings for all potential software configurations.

For some production environments, failure to test before implementation may lead to a loss of required functionality. Evaluating the risks and benefits to a system's particular circumstances and requirements is the system owner's responsibility. The evaluated risks resulting from not applying specified configuration settings must be approved by the responsible AO. Furthermore, DISA implies no warranty that the application of all specified configurations will make a system 100 percent secure.

Security guidance is provided for the DoW. While other agencies and organizations are free to use it, care must be given to ensure that all applicable security guidance is applied at both the device hardening level and the architectural level due to the fact that some settings may not be configurable in environments outside the DoW architecture.

1.8 Product Approval Disclaimer

STIGs provide configurable operational security guidance for products being used by the DoW. STIGs, along with vendor confidential documentation, also provide a basis for assessing compliance with cybersecurity controls/control enhancements, which supports system assessment and authorization (A&A) under the DoW Risk Management Framework (RMF). DoW AOs may request available vendor confidential documentation for a product that has a STIG for product evaluation and RMF purposes from disa.stig_spt@mail.mil. This documentation is not published for general access to protect the vendor's proprietary information.

AOs have the purview to determine product use/approval in accordance with (IAW) DoW policy and through RMF risk acceptance. Inputs into acquisition or preacquisition product selection include such processes as:

- National Information Assurance Partnership (NIAP) evaluation for National Security Systems (NSS) (<https://www.niap-ccevs.org/>) IAW CNSSP #11.

- National Institute of Standards and Technology (NIST) Cryptographic Module Validation Program (CMVP) (<https://csrc.nist.gov/groups/STM/cmvp/>) IAW federal/DoW mandated standards.