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SAMSUNG ANDROID OS 15 WITH KNOX 3.X STIG CONFIGURATION TABLES

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Developed by Samsung and DISA for the DOD

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Unified Endpoint Management (UEM) empowers enterprise IT administrators with powerful tools to centrally set up, deploy, secure, control, and maintain desktops, laptops, smartphones, tablets, wearables, and Internet of Things (IoT) devices. Samsung has collaborated with the leading UEM providers to ease the management of Samsung devices, which feature the Knox Platform for Enterprise (KPE). To set up Samsung devices using popular UEM platforms, go to: <https://docs.samsungknox.com/admin/uem/index.htm>.

All policies listed in the document are implemented using Android Enterprise (AE) APIs. If the management tool does not implement the AE policy, a KPE API may be available to use as a substitute either directly by the management tool or via Knox Service Plugin (KSP). In this situation, look for an “*” next to the AE API in the comment of the associated policy row, which indicates a KPE substitute is available. To keep these tables as simple as possible, substitute KPE APIs will not be listed in the tables here. Refer to [Table 3](#) in this document for the full list of available substitutions.

In some cases, a KPE API could be used to allow additional features while remaining STIG compliant. Details of this are provided in the comment of the associated policy row.

Table 1: Configuration Policy Rules for COBO

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
Device Enrollment Configuration	Default device enrollment	Fully managed, Work Profile for company-owned devices, Work Profile for personally owned devices	Fully managed	KNOX-15-008700	Enroll device as an Android Enterprise device.
Device User Agreement	User agreement		Include DOD-mandated warning banner text in User Agreement	KNOX-15-006700	Include the warning banner text in the User Agreement. Alternatively, but not preferred, include on the lock screen information: API: setDeviceOwnerLockScreenInfo
Device Password Policies	Minimum password quality	Unspecified, Something, Numeric,	Numeric(Complex)	KNOX-15-005000	This allows for PIN code. API: setPasswordQuality *

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
		Numeric(Complex), Alphabetic, Alphanumeric, Complex			Or setRequiredPasswordComplexity If the management tool does not support Numeric(Complex) but does support Numeric , KPE can be used to achieve STIG compliance. In this case, configure this policy with value Numeric and use an additional KPE policy, (innately by management tool or via KSP) Maximum Numeric Sequence Length with value 4.
Device Password Policies	Minimum password length	0+ characters	Six characters	KNOX-15-004900	API: setPasswordMinimumLength *
Device Password Policies	Max password failures for local wipe	0+ attempts	10 attempts	KNOX-15-005300	API: setMaximumFailedPasswordsForWipe *
Device Password Policies	Max time to screen lock	0+ minutes	15 minutes	KNOX-15-005100	API: setMaximumTimeToLock *
Device Restrictions	Face recognition	Enable/Disable	Disable	KNOX-15-006100	API: setKeyguardDisabledFeatures, KEYGUARD_DISABLE_FACE
Device Restrictions	Trust agents	Enable/Disable	Disable	KNOX-15-005200	API: setKeyguardDisabledFeatures, KEYGUARD_DISABLE_TRUST_AGENTS Or

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
					setTrustAgentConfiguration
Device Restrictions	Backup service	Enable/Disable	Disable	KNOX-15-007500	API: setBackupServiceEnabled *
Device Restrictions	Debugging features	Allow/Disallow	Disallow	KNOX-15-006400	API: addUserRestriction, DISALLOW_DEBUGGING_FEATURES *
Device Restrictions	Bluetooth	Allow/Disallow	AO decision	KNOX-15-008300	Guidance is provided for authorizing official (AO) to approve Bluetooth. API: addUserRestriction, DISALLOW_BLUETOOTH *
Device Restrictions	Wi-Fi Direct	Allow/Disallow	Disallow	KNOX-15-008400	API: addUserRestriction, DISALLOW_WIFI_DIRECT
Device Restrictions	Mount physical media	Allow/Disallow	Disallow	KNOX-15-006000	Not applicable for devices that do not support removable storage media. Disables use of all removable storage, e.g., SD cards, USB thumb drives. API: addUserRestriction, DISALLOW_MOUNT_PHYSICAL_MEDIA * If deployment requires the use of SD cards, KPE can be used to allow its usage in a STIG-approved configuration. In this case, do not configure this policy and instead replace with KPE policy (innately by management tool or via KSP) Enforce external storage encryption with value enable .

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
Device Restrictions	USB file transfer	Allow/Disallow	Disallow	KNOX-15-007200, KNOX-15-007300	DeX drag and drop file transfer capabilities will be prohibited, but all other DeX capabilities remain usable. API: addUserRestriction, DISALLOW_USB_FILE_TRANSFER *
Device Restrictions	Configure tethering	Allow/Disallow	Disallow	KNOX-15-007700	API: addUserRestriction, DISALLOW_CONFIG_TETHERING * If deployment requires the use of Mobile Hotspot & Tethering, KPE can be used to allow its usage in a STIG-approved configuration. In this case, do not configure this policy and instead replace with KPE policy (innately by management tool or via KSP) Allow open Wi-Fi connection with value disable and add Training Topic Don't use Wi-Fi Sharing . (Refer to Supplemental document for additional information.)
Device Restrictions	Configure date/time	Allow/Disallow	Disallow	KNOX-15-008900	API: addUserRestriction, DISALLOW_CONFIG_DATE_TIME *
Device Policy Management	Certificate revocation checks	Enable/Disable	Enable	KNOX-15-009600	* KPE provides an API to check for Certificate revocation.

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
Device Policy Management	Certificates		Include DOD certificates in Work Profile	KNOX-15-009000	API: installCaCert *
Device Policy Restrictions	Galaxy AI	Enable/Disable Cloud Processing	Disable	KNOX-15-005700	API: allowIntelligenceOnlineProcessing
Device Restrictions	List of approved apps listed in managed Google Play	List of apps	List only approved work apps	KNOX-15-005500, KNOX-15-005600	*
Device Restrictions	Hide Certain Preinstalled Apps	App package name	Only allowed work apps	KNOX-15-009800	API: setApplicationHidden
Device Restrictions	Input Methods	List of packages	List only approved Input Method Editor apps	KNOX-15-010200	API: setPermittedInputMethods
Device Restrictions	USB Data Signaling	Enable/Disable	Disable	KNOX-15-010300	API: setUsbDataSignalingEnabled
Device Restrictions	Nearby Notification Streaming	Policy Option	NEARBY_STREAMING_DISABLED	KNOX-15-010400	API: setNearbyNotificationStreamingPolicy
Device Restrictions	Nearby App Streaming	Policy Option	NEARBY_STREAMING_DISABLED	KNOX-15-010400	API: setNearbyAppStreamingPolicy
Device Restrictions	Unredacted notifications	Allow/Disallow	Disallow	KNOX-15-005800	API: setKeyguardDisabledFeatures, KEYGUARD_DISABLE_UNREDACTED_NOTIFICATIONS
Device Restrictions	Security logging	Enable/Disable	Enable	KNOX-15-009100	Management tool must provide means to read the log in the console.

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
					API: setSecurityLoggingEnabled *
Device Restrictions	Modify accounts	Allow/Disallow	Disallow	KNOX-15-009200, KNOX-15-007400	API: addUserRestriction, DISALLOW_MODIFY_ACCOUNTS *
Device Restrictions	Configure credentials	Allow/Disallow	Disallow	KNOX-15-008600	API: addUserRestriction, DISALLOW_CONFIG_CREDENTIALS *
Device Restrictions	Install from unknown sources globally	Allow/Disallow	Disallow	KNOX-15-005400	API: addUserRestriction, DISALLOW_INSTALL_UNKNOWN_SOURCES_GLOBALLY *
Device Restrictions	Common Criteria mode	Enable/Disable	Enable	KNOX-15-009300, KNOX-15-000700	API: setCommonCriteriaModeEnabled *
Device Restrictions	Wi-Fi Sharing	Enable/Disable	Disable	KNOX-15-009700	API: DISALLOW_SHARING_ADMIN_CONFIGURED_WIFI

Table 2: Configuration Policy Rules for COPE

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
Device Enrollment Configuration	Default device enrollment	Fully managed, Work Profile for company-owned devices, Work Profile for personally owned devices	Work Profile for company-owned devices	KNOX-15-008800, KNOX-15-009900	Enroll device as an Android Enterprise device.
Device User Agreement	User agreement		Include DOD-mandated warning banner text in User Agreement	KNOX-15-006700	<p>Include the warning banner text in the User Agreement.</p> <p>Alternatively, but not preferred, include on the Lock screen information:</p> <p>API: <code>setDeviceOwnerLockScreenInfo</code></p>
Device Password Policies	Minimum password quality	Unspecified, Something, Numeric, Numeric(Complex), Alphabetic, Alphanumeric, Complex	Numeric(Complex)	KNOX-15-005000	<p>This allows for PIN code.</p> <p>API: <code>setPasswordQuality</code></p> <p>Or</p> <p><code>setRequiredPasswordComplexity</code></p> <p>If the management tool does not support Numeric(Complex) but does support Numeric, KPE can be used to achieve STIG compliance. In this case, configure this policy with value Numeric and use an additional KPE policy (natively by management tool or via KSP)</p>

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
					Maximum Numeric Sequence Length with value 4.
Device Password Policies	Minimum password length	0+ characters	Six characters	KNOX-15-004900	API: setPasswordMinimumLength
Device Password Policies	Max password failures for local wipe	0+	10 attempts	KNOX-15-005300	API: setMaximumFailedPasswordsForWipe
Device Password Policies	Max time to screen lock	0+ minutes	15 minutes	KNOX-15-005100	API: setMaximumTimeToLock
Device Restrictions	Face recognition	Enable/Disable	Disable	KNOX-15-006100	API: setKeyguardDisabledFeatures, KEYGUARD_DISABLE_FACE
Device Restrictions	Trust agents	Enable/Disable	Disable	KNOX-15-005200	API: setKeyguardDisabledFeatures, KEYGUARD_DISABLE_TRUST_AGENTS Or setTrustAgentConfiguration
Device Restrictions	Debugging features	Allow/Disallow	Disallow	KNOX-15-006400	API: addUserRestriction, DISALLOW_DEBUGGING_FEATURES *
Device Restrictions	Bluetooth	Allow/Disallow	AO decision	KNOX-15-008300	Guidance is provided for AO to approve Bluetooth. API: addUserRestriction, DISALLOW_BLUETOOTH *
Device Restrictions	Wi-Fi Direct	Allow/Disallow	Disallow	KNOX-15-008400	API: addUserRestriction, DISALLOW_WIFI_DIRECT

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
Device Restrictions	Mount physical media	Allow/Disallow	Disallow	KNOX-15-006000	<p>Not applicable for devices that do not support removable storage media.</p> <p>Disables use of all removable storage, e.g., SD cards and USB thumb drives.</p> <p>API: addUserRestriction, DISALLOW_MOUNT_PHYSICAL_MEDIA *</p> <p>If deployment requires the use of SD cards, KPE policy can be used to allow its usage in a STIG-approved configuration. In this case, do not configure this policy and instead replace with KPE policy (innately by management tool or via KSP) Enforce external storage encryption with value enable.</p>
Device Restrictions	USB file transfer	Allow/Disallow	Disallow	KNOX-15-007200, KNOX-15-007300	<p>DeX drag-and-drop file transfer capabilities will be prohibited, but all other DeX capabilities remain usable.</p> <p>API: addUserRestriction, DISALLOW_USB_FILE_TRANSFER *</p>
Device Restrictions	Configure tethering	Allow/Disallow	Disallow	KNOX-15-007700	<p>API: addUserRestriction, DISALLOW_CONFIG_TETHERING *</p> <p>If deployment requires the use of Mobile Hotspot & Tethering, KPE policy can be</p>

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
					used to allow its usage in a STIG-approved configuration. In this case, do not configure this policy, and instead replace with KPE policy (innately by management tool or via KSP) Allow open Wi-Fi connection with value disable and add Training Topic Don't use Wi-Fi Sharing (see Supplemental document for additional information)
Device Restrictions	Configure date/time	Allow/Disallow	Disallow	KNOX-15-008900	API: addUserRestriction, DISALLOW_CONFIG_DATE_TIME *
Work Profile Policy Management	Certificates		Include DOD certificates in work profile	KNOX-15-009000	API: installCaCert *
Work Profile Policy Manager	Galaxy AI	Enable/Disable Cloud Processing	Disable	KNOX-15-005700	API: allowIntelligenceOnlineProcessing
Work Profile Policy Management	Certificate revocation checks	Enable/Disable	Enable	KNOX-15-009600	* KPE provides an API to check for Certificate revocation.
Work Profile Restrictions	List of approved apps listed in managed Google Play	List of apps	List only approved work apps	KNOX-15-005500, KNOX-15-005600	*
Work Profile Restrictions	Hide Certain Preinstalled Apps	App package name	Only allowed work apps	KNOX-15-009800	API: setApplicationHidden

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
Work Profile Restrictions	Configure Chrome Autofill	ON/OFF	"PasswordManager Enabled"="OFF" "AutofillAddressEnabled"="OFF" "AutofillCreditCard Enabled"="OFF"	KNOX-15-010000	API: setApplicationRestrictions
Work Profile Restrictions	Configure Autofill	Allow/Disallow	Disallow	KNOX-15-010100	API: addUserRestriction, DISALLOW_AUTOFILL
Work Profile Restrictions	Input Methods	List of packages	List only approved Input Method Editor apps	KNOX-15-010200	API: setPermittedInputMethods
Work Profile Restrictions	USB Data Signaling	Enable/Disable	Disable	KNOX-15-010300	API: setUsbDataSignalingEnabled
Work Profile Restrictions	Nearby Notification Streaming	Policy Option	NEARBY_STREAMING_DISABLED	KNOX-15-010400	API: setNearbyNotificationStreamingPolicy
Work Profile Restrictions	Nearby App Streaming	Policy Option	NEARBY_STREAMING_DISABLED	KNOX-15-010400	API: setNearbyAppStreamingPolicy
Work Profile Restrictions	Unredacted notifications	Allow/Disallow	Disallow	KNOX-15-005800	API: setKeyguardDisabledFeatures, KEYGUARD_DISABLE_UNREDACTED_NOTIFICATIONS
Work Profile Restrictions	Security logging	Enable/Disable	Enable	KNOX-15-009100	Management tool must provide means to read the Log in the console. API: setSecurityLoggingEnabled *
Work Profile Restrictions	Modify accounts	Allow/Disallow	Disallow	KNOX-15-009200, KNOX-15-007400	API: addUserRestriction, DISALLOW_MODIFY_ACCOUNTS *

Policy Group	Policy Rule	Options	Settings	Related Requirement	Comment
Work Profile Restrictions	Cross profile copy/paste	Allow/Disallow	Disallow	KNOX-15-007900	API: addUserRestriction, DISALLOW_CROSS_PROFILE_COPY_PASTE
Work Profile Restrictions	Configure credentials	Allow/Disallow	Disallow	KNOX-15-008600	API: addUserRestriction, DISALLOW_CONFIG_CREDENTIALS *
Work Profile Restrictions	Install from unknown sources globally	Allow/Disallow	Disallow	KNOX-15-005400	API: addUserRestriction, DISALLOW_INSTALL_UNKNOWN_SOURCES_GLOBALLY *
Work Profile Restrictions	Common Criteria mode	Enable/Disable	Enable	KNOX-15-009300, KNOX-15-000700	API: setCommonCriteriaModeEnabled *
Device Restrictions	Wi-Fi Sharing	Enable/Disable	Disable	KNOX-15-009700	API: DISALLOW_SHARING_ADMIN_CONFIGURED_WIFI

Table 3: KPE Equivalent APIs

STIG LISTED AE API	Values	Available KPE Substitute API Available in Case of Management Tool Not Supporting AE API
addUserRestriction	DISALLOW_BLUETOOTH	RestrictionPolicy allowBluetooth
	DISALLOW_CONFIG_CREDENTIALS	CertificatePolicy allowUserRemoveCertificates
	DISALLOW_CONFIG_DATE_TIME	DateTimePolicy setDateTimeChangeEnabled
	DISALLOW_CONFIG_TETHERING	RestrictionPolicy setTethering Alternatively: WiFiPolicy allowOpenWifiAp
	DISALLOW_DEBUGGING_FEATURES	RestrictionPolicy allowDeveloperMode
	DISALLOW_INSTALL_UNKNOWN_SOURCES_GLOBALLY	RestrictionPolicy setAllowNonMarketApps
	DISALLOW_MODIFY_ACCOUNTS	DeviceAccountPolicy addAccountsToAdditionalBlackList
	DISALLOW_MOUNT_PHYSICAL_MEDIA	RestrictionPolicy setSdCardState Alternatively: DeviceSecurityPolicy setExternalStorageEncryption
	DISALLOW_USB_FILE_TRANSFER	RestrictionPolicy setUsbMediaPlayerAvailability
N/A	N/A	CertificatePolicy enableRevocationCheck
N/A	N/A	AdvancedRestrictionPolicy allowIntelligenceOnlineProcessing
installCaCert	DOD Root and Intermediate Certs	CertificateProvisioning installCertificateToKeystore
managed Google Play	List only approved work apps	ApplicationPolicy addAppPackageNameToWhiteList, ApplicationPolicy

STIG LISTED AE API	Values	Available KPE Substitute API Available in Case of Management Tool Not Supporting AE API
		addAppPackageNameToBlackList, ApplicationPolicy addAppSignatureToWhiteList, ApplicationPolicy addAppSignatureToBlackList
setBackupServiceEnabled	FALSE	RestrictionPolicy setBackup
setCommonCriteriaModeEnabled	TRUE	AdvancedRestrictionPolicy setCCMode
setMaximumFailedPasswordsForWipe	10	BasePasswordPolicy setMaximumFailedPasswordsForWipe
setMaximumTimeToLock	900	BasePasswordPolicy setMaximumTimeToLock
setPasswordMinimumLength	6	BasePasswordPolicy setPasswordMinimumLength
setPasswordQuality	Numeric(Complex)	BasePasswordPolicy setPasswordQuality Alternatively: PasswordPolicy setMaximumNumericSequenceLength(2) with password quality of Numeric.
setSecurityLoggingEnabled	TRUE	AuditLog enableAuditLog

To implement the Knox app separation feature, the policies listed in Table 1: Configuration Policy Rules for COBO must be used in conjunction with the policies listed in the following table:

Table 4: KSP App Separation

Policy Group	Policy Rule	KSP Policy Mapping
App Separation	Location	<ol style="list-style-type: none">1. App Sep Policies.2. Enable App Sep Policies [enable].3. Allow Listing Policies.4. Set Location [inside or outside].
App Separation	App List	<ol style="list-style-type: none">1. App Sep Policies.2. Enable App Sep Policies [enable].3. Allow Listing Policies.4. Configure Apps List [list of packages].