Mapping Between Protection Profile for Mobile Device Management, Version 4.0, 25-April-2019 and

NIST SP 800-53 Revision 5

Important Caveats

- Product vs. System. The Common Criteria is designed for the evaluation of products; the Risk Management Framework (NIST SP 800-37 Revision 2, DOD 8510.01) and associated control/control interpretations (NIST SP 800-53 Revision 5, CNSSI № 1253) are used for the assessment and authorization of mission systems. Products cannot satisfy controls outside of the system context. Products may support a system satisfying particular controls, but typically satisfaction also requires the implementation of operational procedures; further, given that systems are typically the product of integration of multiple products configured to meet mission requirements, an overall system assessment is required to determine if the control is satisfied in the overall system context.
- **SA**-4(7). Perhaps it is needless to say, but satisfaction of any NIAP PP supports system satisfaction of SA-4(7), which is the implementation of CNSSP № 11.
- System context of supported controls. For a conformant TOE to support these controls in the
 context of an information system, the selections and assignments completed in the TOE's
 Security Target must be congruent with those made for the supported controls. For example,
 the TOE's ability to generate audit records only supports AU-2 to the extent that the TOE's audit
 records are included in the set of "organization-defined auditable events" assigned by that
 control. The security control assessor must compare the TOE's functional claims to the behavior
 required for the system to determine the extent to which the applicable controls are supported.
- **TOE vs OE implementation.** Many SFRs in this PP describe functionality that may be implemented either by the TOE itself or through TSF implication of a similarly-validated component in its operational environment (i.e., a general-purpose operating system). Those SFRs that may be implemented in this manner are denoted with an asterisk (*).

Common Criter	ia Version 3.x SFR		800-53 Revision 5	Comments and Observations
TOP 6	15	Con	trol Supports	Observations
TOE Security Function	al Requirements			
FAU_ALT_EXT.1	Server Alerts	SI-4 (5)	System Monitoring: System-Generated Alerts	A conformant TOE will automatically generate alerts when certain behaviors occur as a method of detecting suspicious activity.
FAU_GEN.1(1)*	Audit Data Generation	AU-2	Event Logging	A conformant TOE has the ability to generate (or invoke its operational environment to generate) audit records for various events. The TOE supports the enforcement of the control if its auditable events are consistent with the assignments chosen for the control and if the TOE's audit log is part of the overall system's auditing.
		AU-3	Content of Audit Records	A conformant TOE has the ability to generate (or invoke its operational environment to generate) audit records that give details about the type of audit event that took place.
		AU-3(1)	Content of Audit Records: Additional Audit Information	A conformant TOE has the ability to capture additional details about the event depending on the contents of the audit record.
		AU-12	Audit Record Generation	A conformant TOE has the ability to generate (or invoke its operational environment to generate) audit logs. The TOE supports the enforcement of the control if its auditable events are consistent with the assignments chosen for the control and if the TOE's audit log is part of the overall system's auditing.
FAU_NET_EXT.1	Network Reachability Review	N/A	N/A	This SFR does not map to any controls. The requirement provides network monitoring which

				does not independently
				address any controls.
FAU_STG_EXT.1*	External Trail Storage	AU-9	Protection of	A conformant TOE has the
			Audit Information	ability to write audit data to
				a trusted location.
		AU-9(2)	Protection of	A conformant TOE must be
			Audit Information:	able to transmit audit data
			Store on Separate	to a logically remote
			Physical Systems	location. It can be used to
			or Components	support the enforcement of
				this control if the recipient
				of the audit data is
				physically remote from the
				TOE.
FCS_CKM.1*	Cryptographic Key	SC-12	Cryptographic Key	The ability of the TOE to
	<u>Generation</u>		Establishment and	generate (or invoke its
			Management	operational environment to
				generate) asymmetric keys
				satisfies the key generation
				portion of this control.
		SC-12(3)	Cryptographic Key	A conformant TOE ensures
			Establishment and	that generated asymmetric
			Management:	keys provide an appropriate
			Asymmetric Keys	level of security.
FCS_CKM.2*	Cryptographic Key	SC-12	Cryptographic Key	A conformant TOE supports
	<u>Establishment</u>		Establishment and	this control either by
			Management	providing its own key
				establishment function or
				invoking an environmental
		SC-12(3)	Cryptographic Key	one. A conformant TOE supports
		30-12(3)	Establishment and	the production of
			Management:	asymmetric keys either by
			Asymmetric Keys	providing its own key
			Asymmetric Reys	establishment function or
				invoking an environmental
				one.
FCS_CKM_EXT.4*	Cryptographic Key	SC-12	Cryptographic Key	A conformant TOE has the
	Destruction		Establishment and	ability to securely destroy
			Management	cryptographic keys through
				either its own mechanisms
				or environmental ones.
FCS_COP.1(1)*	Cryptographic	SC-13	Cryptographic	A conformant TOE has the
	<u>Operation</u>		Protection	ability to perform (or invoke
	(Confidentiality			environmental methods to
	Algorithms)			perform) symmetric
				encryption using NSA-
				approved and FIPS-
				validated algorithms.
FCS_COP.1(2)*	Cryptographic	SC-13	Cryptographic	A conformant TOE has the
	Operation (Hashing		Protection	ability to perform (or invoke
	Algorithms)			environmental methods to

FCS_COP.1(3)* FCS_COP.1(4)*	Cryptographic Operation (Signature Algorithms) Cryptographic Operation (Keyed- Hash Message Authentication)	SC-13	Cryptographic Protection Cryptographic Protection	perform) cryptographic hashing using NSA-approved and FIPS-validated algorithms. A conformant TOE has the ability to perform (or invoke environmental methods to perform) cryptographic signature operations using NSA-approved and FIPS-validated algorithms. A conformant TOE has the ability to perform (or invoke environmental methods to perform) keyed-hash message authentication using NSA-approved and
FCS_RBG_EXT.1*	Extended: Random Bit Generation	SC-12	Cryptographic Key Establishment and Management	FIPS-validated algorithms. A conformant TOE has the ability to generate (or invoke environmental methods to generate) random bits for use in cryptographic services using FIPS- and NSA-approved standards.
FCS_STG_EXT.1*	Cryptographic Key Storage	IA-5	Authenticator Management	A conformant TOE or its environment protects private key data used as authenticators from unauthorized disclosure, either through its own mechanisms or through environmental ones, in support of part g) of this control.
		SC-12	Cryptographic Key Establishment and Management	A conformant TOE or its environment supports the enforcement of this control by protecting stored cryptographic data, either through its own mechanisms or through invocation of environmental ones.
FIA_ENR_EXT.1	Enrollment of Mobile Device into Management	AC-3	Access Enforcement	A conformant TOE has the ability to limit the devices that users can enroll based on certain device characteristics.
		IA-2	Identification and Authentication	A conformant TOE has the ability to authenticate the

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			(Organizational	user during enrollment of
			Users)	the device. This control
				addresses FIA_ENR_EXT.1.1
				of this SFR, which deals
				with user authentication.
		IA-3	Device	A conformant TOE will have
			Identification and	the ability to record the
			Authentication	reference identifier of its
				enrolled MDM server as a
				part of the authentication
				process. This control
				specifically addresses
				FIA_ENR_EXT.1.2, which
				deals with enrollment of
				the device, not the user.
FIA_UAU.1*	Timing of	AC-14	Permitted Actions	A conformant TOE or its
	Authentication		without	environment has the ability
			Identification or	to identify the actions
			Authentication	allowed prior to
				authentication. This
				requires all users to be
				successfully identified and
				authenticated prior to
				performing any
				management activities.
		IA-2	Identification and	A conformant TOE or its
			Authentication	environment has the ability
			(Organizational	to authenticate users prior
			Users)	to TSF functionality access.
FIA_X509_EXT.1(1)*	X.509 Certificate	IA-5(2)	Authenticator	A conformant TOE or its
	<u>Validation</u>		Management:	environment has the ability
			Public Key-Based	to validate certificate path
			Authentication	and status, or invoke an
				environmental service to do
				this.
		CC 22	Caralian	Daniel din a an the TOTA
		SC-23	Session	Depending on the TOE's
		SC-23	Authenticity	use of trusted
		SC-23	00001011	
		SC-23	00001011	use of trusted
		SC-23	00001011	use of trusted communications channels,
		SC-23	00001011	use of trusted communications channels, it may use X.509 certificate
		SC-23(5)	00001011	use of trusted communications channels, it may use X.509 certificate validation in support of
			Authenticity	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication.
			Authenticity Session	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509
			Authenticity Session Authenticity:	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509 certificates as part of
			Authenticity Session Authenticity: Allowed Certificate	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509 certificates as part of session authentication, it
			Authenticity Session Authenticity: Allowed Certificate	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509 certificates as part of session authentication, it will include the
			Authenticity Session Authenticity: Allowed Certificate	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509 certificates as part of session authentication, it will include the functionality needed (or
			Authenticity Session Authenticity: Allowed Certificate	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509 certificates as part of session authentication, it will include the functionality needed (or invoke the functionality
			Authenticity Session Authenticity: Allowed Certificate	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509 certificates as part of session authentication, it will include the functionality needed (or invoke the functionality from its environment) to
FIA_X509_EXT.2*	X.509 Certificate		Authenticity Session Authenticity: Allowed Certificate	use of trusted communications channels, it may use X.509 certificate validation in support of session authentication. If the TOE uses X.509 certificates as part of session authentication, it will include the functionality needed (or invoke the functionality from its environment) to validate certificate

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			Public Key-Based	to authenticate trusted
			Authentication	channel communications
				using X.509 certificates.
				Other controls apply If the
				TOE also uses code signing
				certificates for software
				updates (CM-14, SI-7(15)),
				policies (SI-7, SI-7(1), SI-
				7(6)), integrity verification
				(SI-7, SI-7(1), SI-7(6)). IA-
				3(1) also applies if the
				TOE's use of an X.509
				authentication mechanism
				is to support the case
				where the TOE is a server
				that validates the X.509
			_	certificate of a client.
FIA_X509_EXT.5*	X.509 Unique	IA-3	Device	A conformant TOE or its
	<u>Certificate</u>		Identification and	environment enforces each
			Authentication	enrolled device being
				uniquely identified through
				a unique certificate.
		IA-4	Identifier	A conformant TOE or its
		10.4	Management	environment requires a
			ivialiagement	- I
				unique certificate for each
				client device, satisfying part
				(b) of this control
				(b) of this control.
FMT_MOF.1(1)	Management of	AC-3	Access	A conformant TOE
FMT_MOF.1(1)	Management of Functions Behavior	AC-3	Access Enforcement	, ,
FMT_MOF.1(1)	_	AC-3		A conformant TOE
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by providing access control restrictions to various
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by providing access control restrictions to various functions. Note that the
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access
FMT_MOF.1(1)	_	AC-3		A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by
FMT_MOF.1(1)	_			A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1.
FMT_MOF.1(1)	_	AC-3 AC-3(7)		A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by
FMT_MOF.1(1)	_		Enforcement	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1.
FMT_MOF.1(1)	_		Enforcement	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by
FMT_MOF.1(1)	_		Access Enforcement:	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE
FMT_MOF.1(1)	_		Access Enforcement: Role-Based Access	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different role-based levels of
FMT_MOF.1(1)	_		Access Enforcement: Role-Based Access	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality
FMT_MOF.1(1)	_		Access Enforcement: Role-Based Access	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators,
FMT_MOF.1(1)	_	AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators, and the MDM.
FMT_MOF.1(1)	_		Access Enforcement: Role-Based Access	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators, and the MDM. A conformant TOE
FMT_MOF.1(1)	_	AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators, and the MDM. A conformant TOE supports the concept of
FMT_MOF.1(1)	_	AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators, and the MDM. A conformant TOE supports the concept of least privilege by limiting
FMT_MOF.1(1)	_	AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators, and the MDM. A conformant TOE supports the concept of
FMT_MOF.1(1)	_	AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators, and the MDM. A conformant TOE supports the concept of least privilege by limiting
FMT_MOF.1(1)	_	AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different role-based levels of management functionality to users, administrators, and the MDM. A conformant TOE supports the concept of least privilege by limiting device management functions to only the roles
FMT_MOF.1(1)	_	AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing access control restrictions to various functions. Note that the extent of support depends on the extent to which this behavior is captured in the organizational access control policies defined by AC-1. A conformant TOE supports this control by providing different rolebased levels of management functionality to users, administrators, and the MDM. A conformant TOE supports the concept of least privilege by limiting device management

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		AC-6(1)	Least Privilege:	A conformant TOE defines
			Authorize Access	its management
			to Security	authorizations so that
			Functions	explicit authorization is
				required to perform a
				management function.
		AC-6(10)	Least Privilege:	A conformant TOE
			Prohibit Non-	supports this control by
			Privileged Users	defining some
			from Executing	management functionality
			Privileged	as privileged, so ordinary
			Functions	users cannot perform
				these functions.
FMT_MOF.1(2)	Management of	AC-3	Access	A conformant TOE has the
	Functions Behavior		Enforcement	ability to restrict access to
	(Enrollment)			functions during
	_			enrollment.
		AC-3(7)	Access	A conformant TOE has the
		, ,	Enforcement:	ability to provide access
			Role-Based Access	control by assigning
			Control	privileges to roles.
FMT_POL_EXT.1	Trusted Policy Update	AC-19	Access Control for	A conformant TOE will
			Mobile Devices	provide a mechanism to
				update the security
				configuration of the
				underlying mobile device.
		CM-6	Configuration	The TOE supports part (b)
			Settings	of this control by providing
			0 -	a mechanism to define and
				enforce configuration
				settings for enrolled mobile
				devices.
		SI-7	Software,	A conformant TOE supports
		<i>.</i> .	Firmware, and	this control by ensuring the
			Information	integrity of policy data it
			Integrity	transmits to remote MDM
				agents.
		SI-7(6)	Software,	A conformant TOE enforces
		3. 7(0)	Firmware, and	the integrity of policy data
			Information	using digital signatures.
			Integrity:	asg algital signatures.
			Cryptographic	
			Protection	
FMT_SMF.1(1)	Specification of	N/A	N/A	There are no controls that
· · · · · · · · · · · · · · · · · · ·	Management	17/5	'''	map to this SFR because no
	Functions (Server			controls address the issuing
	Configuration of			of commands. However, it
	Agent)			is possible the commands
	<u>rigerity</u>			listed in this SFR directly
				relate to a control.
FMT_SMF.1(2)	Specification of	N/A	N/A	There are no controls that
FIVIT_SIVIF.1(2)		IN/A	IV/A	
	<u>Management</u>			map to this SFR because

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	Functions (Server Configuration of			there are no controls that address performing these
	<u>Server)</u>			management functions
				during server configuration. However, it is possible the
				functions listed in this SFR
				directly relate to a control.
FMT_SMR.1(1)	Security Management	AC-2(7)	Account	A conformant TOE defines a
	Roles		Management:	role-based access model
			Privileged User	that allows individual users
			Accounts	to be assigned to different administrative roles.
		AC-3(7)	Access	A conformant TOE has the
		7.00(//	Enforcement:	ability to enforce differing
			Role-Based Access	levels of access control to
			Control	individual management
EDT. ADJ. EVT. 1		CA 45/5\		roles.
FPT_API_EXT.1	Use of Supported Services and APIs	SA-15(5)	Development Process,	The developer of a conformant TOE identifies
	Services and Aris		Standards, and	the application
			Tools: Attack	programming interfaces to
			Surface Reduction	reduce the attack surface.
FPT_LIB_EXT.1	Use of Third Party	SA-15(5)	Development	A conformant TOE supports
	<u>Libraries</u>		Process,	the enforcement of this
			Standards, and Tools: Attack	control because enumerating the third party
			Surface Reduction	libraries used by the TOE
			Surface Reduction	reduces the attack surface
				of the TSF to known
				components.
FPT_TST_EXT.1*	TSF Functionality	SI-6	Security and	A conformant TOE will run
	Testing		Privacy Function Verification	automatic tests to ensure correct operation of its own
			verincation	functionality.
		SI-7	Software,	A conformant TOE supports
			Firmware, and	the enforcement of this
			Information	control by providing a
			Integrity	means (either through itself
				or its environment) to
		SI-7(1)	Software,	verify its own integrity. The TOE ensures that its
		31-7(±)	Firmware, and	integrity is checked at
			Information	startup.
			Integrity: Integrity	·
		SI 7/6\	Checks	The TOE uses a
		SI-7(6)	Software, Firmware, and	cryptographic mechanism
			Information	(either internal to the TSF
			Integrity:	or in its environment) to
			Cryptographic	validate its own integrity.
			Protection	

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		SI-7(12)	Software,	A conformant TOE supports
			Firmware, and	the enforcement of this
			Information	control by ensuring its
			Integrity: Integrity	integrity is verified when it
			Verification	is executed.
FPT_TUD_EXT.1*	Trusted Update	CM-14	Signed	A conformant TOE has the
			Components	ability to require a signed
				update.
		SI-7(1)	Software,	The TOE has the ability to
			Firmware, and	verify the integrity of
			Information	updates to itself or to
			Integrity: Integrity	invoke an environmental
			Checks	function to do this.
FTP_ITC_EXT.1	Trusted Channel	IA-3(1)	Device	A conformant TOE may
			Identification and	support the enforcement of
			Authentication:	this control if the protocols
			Cryptographic	used to establish trusted
			Bidirectional	communications use
			Authentication	mutual authentication.
		SC-8	Transmission	A conformant TOE has the
			Confidentiality	ability to ensure the
			and Integrity	confidentiality and integrity
				of information transmitted
				between the TOE and
				another trusted IT product.
		SC-8(1)	Transmission	The TOE supports a
			Confidentiality	cryptographic method of
			and Integrity:	protecting data in transit.
			Cryptographic	
FTD 1TO 4/4)*		14.0(4)	Protection	
FTP_ITC.1(1)*	Inter-TSF Trusted	IA-3(1)	Device	A conformant TOE may
	Channel (Authorized		Identification and	support the enforcement of
	Entities)		Authentication:	this control if the protocols
			Cryptographic	used to establish trusted
			Bidirectional	communications use mutual
		66.0	Authentication	authentication.
		SC-8	Transmission	A conformant TOE has the
			Confidentiality	ability to ensure the
			and Integrity	confidentiality and integrity
				of information transmitted
				between the TOE and
		56.0(4)	-	another trusted IT product.
		SC-8(1)	Transmission	The TOE supports a
			Confidentiality	cryptographic method of
			and Integrity:	protecting data in transit.
			Cryptographic	
FTD TDC 4/4*	Tourse d D vi /r	56.0(4)	Protection	A
FTP_TRP.1(1)*	Trusted Path (for	SC-8(1)	Transmission	A conformant TOE will have
	Remote		Confidentiality	the ability to prevent
	Administration)		and Integrity:	unauthorized disclosure of
			Cryptographic	information and detect
			Protection	

				modification to that
		56.11	Tourse of Books	information.
		SC-11	Trusted Path	The TOE establishes a
				trusted communication
				path between remote users and itself.
FTP_TRP.1(2)*	Trusted Paths (for	SC-8(1)	Transmission	A conformant TOE will have
	Enrollment)		Confidentiality	the ability to prevent
			and Integrity:	unauthorized disclosure of
			Cryptographic	information and detect
			Protection	modification to that
				information.
		SC-11	Trusted Path	The TOE establishes a
				trusted communication
				path between remote users
				and itself upon enrollment.
Optional Requireme	ents			
FAU_SAR.1	Audit Review	AU-6(7)	Audit Record	A conformant TOE will
_			Review, Analysis,	allow designation of
			and Reporting:	permitted actions to the
			Permitted Actions	respective roles.
		AU-7	Audit Record	A conformant TOE provides
			Reduction and	audit review mechanisms
			Report Generation	to administrators.
FAU_SEL.1	Security Audit Event	AU-12	Audit Record	A conformant TOE has the
	<u>Selection</u>		Generation	ability to support part (b) of
				this control by providing a
				mechanism to determine
				the set of auditable events
				that result in the
				generation of audit records.
FTA_TAB.1	Default TOE Access	AC-8	System Use	The TOE displays an
	<u>Banners</u>		Notification	advisory warning to the
				user prior to
				authentication.
Selection-Based Req	uirements			
FAU_GEN.1(2)*	Audit Generation	AU-2	Event Logging	A conformant TOE has the
	(MAS Server)			ability to generate audit
				records for various events
				or invoke platform
				functionality that does this.
				The TOE supports the
				enforcement of the control if its auditable events are
				consistent with the
				assignments chosen for the control and if the TOE's
				audit log is part of the
		_[overall system's auditing.

	T	T	Т	
		AU-3	Content of Audit	A conformant TOE will
			Records	ensure that audit records,
				either generated by it or by
				its environment, include
				date, type, outcome, and
				subject identity data. The
				TOE supports the
				enforcement of the control
				if its auditable events are
				consistent with the
				assignments chosen for the
				control and if the TOE's
				audit log is part of the
		ALL 2/1\	Content of Audit	overall system's auditing. A conformant TOE will
		AU-3(1)	Records:	
			Additional Audit	generate audit information for some auditable events
			Information	beyond what is mandated
				in AU-3. This may or may
				not be sufficient to satisfy
				this control based on the
				additional audit
				information required by the
				organization. The TOE
				supports the enforcement
				of the control if its
				auditable events are
				consistent with the
				assignments chosen for the
				control and if the TOE's
				audit log is part of the
				overall system's auditing.
		AU-12	Audit Record	A conformant TOE has the
			Generation	ability to generate audit
				logs or to invoke platform
				functionality that does this.
				The TOE supports the
				enforcement of the control
				if its auditable events are consistent with the
				assignments chosen for the
				control and if the TOE's
				audit log is part of the
				overall system's auditing.
FAU_STG_EXT.2*	Audit Event Storage	AU-9	Protection of	A conformant TOE has the
			Audit Information	ability to prevent
				unauthorized modification
				and deletion of audit
				records, or to store this
				data in its environment
				where it is subject to the
				same protections.

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FCS_HTTPS_EXT.1	HTTPS Protocol	SC-8	Transmission	A conformant TOE has the
			Confidentiality	ability to ensure the
			and Integrity	confidentiality and integrity
				of information transmitted
				between the TOE and
				another trusted IT product.
		SC-8(1)	Transmission	The ability of a conformant
			Confidentiality	TOE to implement HTTPS
			and Integrity:	using TLS 1.2 ensures the
			Cryptographic	confidentiality and integrity
			Protection	of data in transit.
		SC-13	Cryptographic	The TOE provides
			Protection	cryptographic methods to
				secure data in transit,
				which may satisfy
				organization-defined uses if
				the functionality claimed by
				the TSF is consistent with
				organizational
				requirements.
FCS_IV_EXT.1*	Initialization Vector	SC-12	Cryptographic Key	A conformant TOE or its
	Generation		Establishment and	environment has the ability
			Management	to generate initialization
				vectors that ensure the
				secure operation of
				cruptographic functions
I				cryptographic functions.
FCS_STG_EXT.2*	Cryptographic Key	IA-5(6)	Authenticator	A conformant TOE has the
FCS_STG_EXT.2*	Cryptographic Key Storage	IA-5(6)	Authenticator Management:	
FCS_STG_EXT.2*		IA-5(6)		A conformant TOE has the
FCS_STG_EXT.2*		IA-5(6)	Management:	A conformant TOE has the ability to prevent
FCS_STG_EXT.2*		IA-5(6)	Management: Protection of	A conformant TOE has the ability to prevent unauthorized access to
FCS_STG_EXT.2*			Management: Protection of Authenticators	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures
FCS_STG_EXT.2*			Management: Protection of Authenticators Transmission Confidentiality	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and
FCS_STG_EXT.2*			Management: Protection of Authenticators Transmission	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures
FCS_STG_EXT.2*			Management: Protection of Authenticators Transmission Confidentiality	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information
FCS_STG_EXT.2*			Management: Protection of Authenticators Transmission Confidentiality	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT
FCS_STG_EXT.2*		SC-8	Management: Protection of Authenticators Transmission Confidentiality	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product.
FCS_STG_EXT.2*			Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols
FCS_STG_EXT.2*		SC-8	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures
FCS_STG_EXT.2*		SC-8	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity:	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and
FCS_STG_EXT.2*		SC-8	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures
FCS_STG_EXT.2*		SC-8	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information
FCS_STG_EXT.2*		SC-8	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT
FCS_STG_EXT.2*		SC-8 SC-8(1)	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic Protection	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product.
FCS_STG_EXT.2*		SC-8	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. A conformant TOE will use a
FCS_STG_EXT.2*		SC-8 SC-8(1)	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic Protection Cryptographic Key Establishment and	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. A conformant TOE will use a key hierarchy to ensure the
FCS_STG_EXT.2*		SC-8 SC-8(1)	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic Protection Cryptographic Key	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. A conformant TOE will use a key hierarchy to ensure the secure storage of
	Storage	SC-8(1)	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic Protection Cryptographic Key Establishment and Management	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. A conformant TOE will use a key hierarchy to ensure the secure storage of cryptographic keys.
FCS_STG_EXT.2* FIA_X509_EXT.1(2)*	X.509 Certificate	SC-8 SC-8(1)	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic Protection Cryptographic Key Establishment and Management Authenticator	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. A conformant TOE will use a key hierarchy to ensure the secure storage of cryptographic keys. A conformant TOE has the
	Storage	SC-8(1)	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic Protection Cryptographic Key Establishment and Management Authenticator Management:	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. A conformant TOE will use a key hierarchy to ensure the secure storage of cryptographic keys. A conformant TOE has the ability to validate the
	X.509 Certificate	SC-8(1)	Management: Protection of Authenticators Transmission Confidentiality and Integrity Transmission Confidentiality and Integrity: Cryptographic Protection Cryptographic Key Establishment and Management Authenticator	A conformant TOE has the ability to prevent unauthorized access to authenticators. A conformant TOE ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. The use of the protocols specified in the SFR ensures the confidentiality and integrity of information transmitted between the TOE and another trusted IT product. A conformant TOE will use a key hierarchy to ensure the secure storage of cryptographic keys. A conformant TOE has the

				service to do this, which satisfies this control.
		SC-23	Session Authenticity	Depending on the TOE's u of trusted communication channels, it may use X.509 certificate validation in support of session authentication.
		SC-23(5)	Session Authenticity: Allowed Certificate Authorities	If the TOE uses X.509 certificates as part of session authentication, it will include the functionality needed to validate certificate authorities, or invoke this functionality in its operational environment.
FMT_MOF.1(3)	Management of Functions in (MAS Server Downloads)	AC-3	Access Enforcement	A conformant TOE supporthis control by providing access control restrictions to various functions. Note that the extent of support depends on the extent the this behavior is captured the organizational access control policies defined by AC-1.
		AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE support this control by providing different role-based level of management functionality from users tadministrators.
FMT_SMF.1(3)	Specification of Functions (MAS Server)	N/A	N/A	There are no controls that map to this SFR because there are no controls that address performing these management functions during server configuration. However, it is possible the functions listed in this SFF directly relate to a control.
FMT_SMR.1(2)	Security Management Roles (MAS Server)	AC-2(7)	Account Management: Privileged User Accounts	A conformant TOE has the ability to associate users with roles such that only members of an authorized role can administer the MAS Server.
FPT_ITT.1(1)*	Internal TOE TSF Data Transfer	SC-8	Transmission Confidentiality and Integrity	A conformant TOE will support this control by providing a protected communication channel

				between mobile
				applications and remote
				trusted IT products or by
				using an environmental
				channel for the same
				purpose.
		SC-8(1)	Transmission	The protected
			Confidentiality	communications
			and Integrity	implemented or invoked by
			Cryptographic	the TOE use cryptographic
			Protection	methods to secure data in
5DT 17T 4 (0) *		14.0(4)		transit.
FPT_ITT.1(2)*	Internal TOE TSF Data	IA-3(1)	Device	A conformant TOE may
	Transfer (MDM		Identification and	support the enforcement of
	Agent)		Authentication:	this control if the protocols
			Cryptographic	it uses or invokes from its
			Bidirectional	environment to establish
			Authentication	trusted communications
				use mutual authentication.
		SC-8	Transmission	A conformant TOE will
			Confidentiality	support this control by
			and Integrity	providing a protected
				communication channel
				between mobile
				applications and remote
				trusted IT products or by
				using an environmental
				channel for the same
		66.0(1)		purpose.
		SC-8(1)	Transmission	The protected
			Confidentiality	communications
			and Integrity	implemented or invoked by
			Cryptographic	the TOE use cryptographic
			Protection	methods to secure data in
ETD_ITC 1/2*	Inter TCE Toursted	IA 2/1\	Dovice	transit.
FTP_ITC.1(2)*	Inter-TSF Trusted Channel (MDM	IA-3(1)	Device Identification and	A conformant TOE may support the enforcement of
	Agent)		Authentication:	this control if the protocols
	Agent)		Cryptographic	it uses or invokes to
			Bidirectional	establish trusted
			Authentication	communications use
			, latile intention	mutual authentication.
		SC-8	Transmission	A conformant TOE will
			Confidentiality	support this control by
			and Integrity	providing or invoking a
]	protected communication
				channel between mobile
				applications and remote
				trusted IT products.
				tracted in productor
		SC-8(1)	Transmission	The protected
		SC-8(1)	Transmission Confidentiality	

Objective Personant	-		Cryptographic Protection	its environment use cryptographic methods to secure data in transit.
Objective Requiremen FAU_CRP_EXT.1	Support for Compliance Reporting of Mobile Device Configuration	CM-6(1)	Configuration Settings: Automated Management, Application, and Verification	A conformant TOE supports the enforcement of this control by allowing other components of the information system to obtain configuration data about organizational assets from the TOE.
		IA-3(4)	Device Identification and Authentication: Device Attestation	A conformant TOE supports the enforcement of this control by collecting data about enrolled devices that can be used for attestation purposes.
		SC-8	Transmission Confidentiality and Integrity	A conformant TOE has the ability to securely transmit configuration data.
		SC-8(1)	Transmission Confidentiality and Integrity Cryptographic Protection	The protected communications implemented by the TOE or its environment use cryptographic methods to secure data in transit.
FCO_CPC_EXT.1*	Component Registration Channel Definition	AC-4	Information Flow Enforcement	A conformant TOE supports the enforcement of this control by providing a registration mechanism that is used as a condition for distributed TOE components to establish information flow between them, or by invoking an environmental facility that performs the same function.
FIA_UAU_EXT.4(1)	User Authentication (Re-Use Prevention)	IA-2(8)	Identification and Authentication (Organizational Users: Access to Accounts – Replay Resistant	A conformant TOE supports enforcement of this control by preventing re-use of user credentials that were already used for enrollment of a mobile device.
FIA_UAU_EXT.4(2)	User Authentication (Re-Use Prevention for Device Enrollment)	IA-3	Device Identification and Authentication	A conformant TOE supports the enforcement of this control by ensuring that the uniqueness of device identifiers is enforced.

FIA_X509_EXT.3* FIA_X509_EXT.4	X.509 Enrollment Alternate X.509	SC-17	Public Key Infrastructure Certificates Public Key	This function, whether implemented by the TSF or by its environment, supports behavior related to certificate issuance. This function, whether
	<u>Enrollment</u>		Infrastructure Certificates	implemented by the TSF or by its environment, supports behavior related to certificate issuance.
FMT_SAE_EXT.1	Security Attribute Expiration	AC-3(8)	Access Enforcement: Revocation of Access Authorizations	A conformant TOE has the ability to support revocation of access authorizations by specifying a maximum time limit for the validity of credentials used to gain access to protected resources.
FTP_TRP.1(3)*	Trusted Path (for Joining)	SC-8(1)	Transmission Confidentiality and Integrity: Cryptographic Protection	A conformant TOE has the ability to protect communications between a joining component and the TOE using either its own functionality or by invocation of an environmental function. Note that while integrity protection is assured by this SFR, confidentiality is supported but not required.
		SC-11(1)	Trusted Path: Irrefutable Communications Path	A conformant TOE that claims this SFR ensures that the registration channel is logically isolated from other communications.