## Mapping Between

# Protection Profile for Hardcopy Devices, Version 1.0, 10-September-2015 and Protection Profile for Hardcopy Devices – v1.0, Errata #1, June 2017

#### 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.

Common Criter	ia Version 3.x SFR	NIST SP 800-53 Revision 5 Control Supports		Comments and Observations
Mandatory Requireme	ents			
FAU_GEN.1	Audit Data Generation	AU-2	Event Logging	A conformant TOE has the ability 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

Common Criteria Version 3.x SFR		800-53 Revision 5	Comments and Observations
	Col	iti oi suppoi ts	audit log is part of the
			overall system's auditing.
	AU-3	Content of Audit	A conformant TOE will
	AU-3	Records	ensure that audit records
		Records	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
			overall system's auditing.
	AU-3(1)	Content of Audit	A conformant TOE will
		Records:	ensure that audit records
		Additional Audit	include date, type,
		Information	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
			overall system's auditing.
	AU-12	Audit Record	A conformant TOE has the
		Generation	ability to generate audit
			logs. The TOE supports the
			enforcement of parts (a)
			and (c) 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.
			Part (b) is not satisfied by a
			conformant TOE because
			the PP does not define
			functionality to
			suppress/enable the
			generation of specific audit
			records (which would
			typically be expressed in CC
			as FAU_SEL.1).
FAU_GEN.2 <u>User Identity</u>	AU-3	Content of Audit	A conformant TOE will
<u>Association</u>		Records	ensure that audit records

Common Criteri	a Version 3.x SFR		300-53 Revision 5 rol Supports	Comments and Observations
		Cont		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 overall system's auditing.
FAU_STG_EXT.1	External Audit Trail Storage	AU-4(1)	Audit Log Storage Capacity: Transfer to Alternate Storage  Protection of Audit Information: Store on Separate Physical Systems	A conformant TOE has the ability to logically transmit audit data to a location in its Operational Environment. While this SFR requires the TSF to store generated audit data on the TOE, a minimum storage size or retention period is not specified. Therefore, a TOE may support the enforcement of this control if the local storage of audit data is limited or transitory.  A conformant TOE must be able to transmit audit data to a logically remote 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(b)	Cryptographic Key Generation (Symmetric Keys)	SC-12	Cryptographic Key Establishment and Management	The ability of the TOE to generate asymmetric keys satisfies the key generation portion of this control.
		SC-12(2)	Cryptographic Key Establishment and Management: Symmetric Keys	A conformant TOE ensures that generated symmetric keys provide an appropriate level of security.
FCS_CKM_EXT.4	Cryptographic Key Material Destruction	SC-12	Cryptographic Key Establishment and Management	A conformant TOE has the ability to securely destroy cryptographic keys through either its own mechanisms or environmental ones.

Common Criteri	a Version 3.x SFR		00-53 Revision 5	Comments and Observations
FCS_CKM.4	Cryptographic Key Destruction	SC-12	Cryptographic Key Establishment and Management	A conformant TOE has the ability to securely destroy cryptographic keys through either its own mechanisms or environmental ones.
FCS_COP.1(a)	Cryptographic Operation (Symmetric Encryption/Decryptio n)	SC-13	Cryptographic Protection	A conformant TOE has the ability to perform (or invoke environmental methods to perform) symmetric encryption using NSA-approved and FIPS-validated algorithms.
FCS_COP.1(b)	Cryptographic Operation (for Signature Generation/Verificati on)	SC-13	Cryptographic Protection	A conformant TOE has the ability to perform (or invoke environmental methods to perform) cryptographic signature operations using NSA-approved and FIPS-validated algorithms.
FCS_RBG_EXT.1	Cryptographic Operation (Random Bit Generation)	SC-12	Cryptographic Key Establishment and Management	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.
FDP_ACC.1	Subset Access Control	AC-3	Access Enforcement	A conformant TOE defines an access control policy that is used to enforce access restrictions on user data under the control of the TSF.
FDP_ACF.1	Security Attribute Based Access Control	AC-3	Access Enforcement	A conformant TOE implements an access control policy that is used to enforce access restrictions on user data under the control of the TSF.
FIA_AFL.1	Authentication Failure Handling	AC-7	Unsuccessful Logon Attempts	The TOE has the ability to detect when a defined number of unsuccessful authentication attempts occurs and take some corrective action.
FIA_ATD.1	User Attribute Definition	AC-2	Account Management	A conformant TOE supports the enforcement of this control by maintaining user

Common Criter	ia Version 3.x SFR		300-53 Revision 5	Comments and
		Con	trol Supports	Observations
				attributes that may be
				configured in accordance
				with organizational policy.
		IA-2	Identification and	A conformant TOE supports
			Authentication	the enforcement of this
			(Organizational	control by defining user
			Users)	attributes that are used in
				support of identification
				and authentication to the
FIA DAG EVT 4		10.5(4)	A .1	TOE.
FIA_PMG_EXT.1	<u>Password</u>	IA-5(1)	Authenticator	A conformant TOE will have
	<u>Management</u>		Management:	the ability to enforce some
			Password-Based	minimum password
514 114114			Authentication	complexity requirements.
FIA_UAU.1	Timing of	AC-14	Permitted Actions	A conformant TOE will
	<u>Authentication</u>		Without	define a list of actions that
			Identification or	are permitted prior to
			Authentication	authentication.
		IA-2	Identification and	A conformant TOE has the
			Authentication	ability to require that
		- or -	(Organizational	certain functions require
			Users)	successful authentication to
		IA-8		access. Whether IA-2, IA-8,
			- or -	or both controls apply is
				dependent on whether the
			Identification and	TOE supports external
			Authentication	authentication of
			(Non-	organizational users (e.g.
			Organizational	LDAP, Kerberos, Active
			Users)	Directory), implements its
				own local authentication
				for non-organizational
514 11411 7				users, or both.
FIA_UAU.7	<u>Protected</u>	IA-6	Authentication	The TOE is required to
	<u>Authentication</u>		Feedback	provide obscured feedback
	<u>Feedback</u>			to the user while
				authentication is in
FIA LUE 4	Timber 6	16.11	Damester Least	progress.
FIA_UID.1	Timing of	AC-14	Permitted Actions	A conformant TOE will
	<u>Identification</u>		Without	define a list of actions that
			Identification or	are permitted prior to
		14.2	Authentication	identification.
		IA-2	Identification and	A conformant TOE has the
			Authentication	ability to require that
			(Organizational	certain functions require
			Users)	successful identification to
FIA LICE 1	Hoon Cubicat Division	AC 16(3)	Consultational	A conformant TOE cumparts
FIA_USB.1	User-Subject Binding	AC-16(3)	Security and	A conformant TOE supports
			Privacy Attributes:	the enforcement of this
			Maintenance of	control by associating users

Common Criteri	a Version 3.x SFR		300-53 Revision 5	Comments and
		Cont	Attribute Associations by System	Observations with subject data such that the TSF is able to enforce appropriate access control
FMT_MOF.1	Management of	AC-3	Access	policies based on the authenticated user.  A conformant TOE supports
	Security Functions Behavior		Enforcement	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.
		AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports this control by providing role-based level of management functionality to administrators.
		AC-6	Least Privilege	A conformant TOE supports the concept of least privilege by limiting device management functions to only the roles that are needed to perform them.
		AC-6(1)	Least Privilege: Authorize Access to Security Functions	A conformant TOE will enforce access restrictions such that users are not granted excessive administrative privileges to manage the TSF.
		AC-6(10)	Least Privilege: Prohibit Non- Privileged Users from Executing Privileged Functions	A conformant TOE supports this control by defining some management functionality as privileged such that ordinary users cannot perform these functions.
FMT_MSA.1	Management of Security Attributes	AC-2	Account Management	A conformant TOE assigns group and role memberships for access authorizations.
		AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE supports the enforcement of this control by authorizing the management of user security attributes on a perrole basis.

Common Criteri	a Version 3.x SFR		300-53 Revision 5	Comments and
	T		rol Supports	Observations
		AC-16(2)	Security and Privacy Attributes: Attribute Value Changes by Authorized Individuals	A conformant TOE supports the enforcement of this control by enforcing access restrictions on the subjects that are authorized to modify attribute data.
FMT_MSA.3	Static Attribute Initialization	AC-16(2)	Security and Privacy Attributes: Attribute Configuration by Authorized Individuals	A conformant TOE supports the enforcement of this control by enforcing restrictions on the subjects that are authorized to change the default values of attribute data.
FMT_MTD.1	Management of TSF Data	AC-3	Access Enforcement	A conformant TOE will not permit manipulation of its stored TSF and configuration data unless proper authorization is provided.
		AC-3(7)	Access Enforcement: Role-Based Access Control	A conformant TOE will restrict access to management functionality to members of a certain role.
		AC-6	Least Privilege	A conformant TOE enforces least privilege by restricting the users that are able to manage TSF data.
FMT_SMF.1	Specification of Management Functions	CM-6	Configuration Settings	In general, a conformant TOE will satisfy this control to the extent that the TOE provides a method to configure its behavior in accordance with organizational requirements. However, this depends on the extent to which organizational requirements align with the claimed management functions. Specific additional controls may be supported depending on the functionality claimed by the TOE.
FMT_SMR.1	Security Roles	AC-2(7)	Account Management: Privileged User Accounts	A conformant TOE defines a role-based access model that allows individual users to be assigned to different administrative roles.

Common Criteri	a Version 3.x SFR	NIST SP 800-53 Revision 5		Comments and
		AC-3(7)	rol Supports Access	Observations A conformant TOE has the
			Enforcement:	ability to enforce differing
			Role-Based Access	levels of access control to
			Control	individual management
				roles.
FPT_SKP_EXT.1	Protection of TSF	SC-12	Cryptographic Key	A conformant TOE supports
	<u>Data</u>		Establishment and	the enforcement of this
			Management	control by protecting stored
				pre-shared keys, symmetric keys, and private keys.
FPT_STM.1	Reliable Time Stamps	AU-8	Time Stamps	A conformant TOE can
11 1_31IVI.1	Kenable Time Stamps	70-0	Time Stamps	generate or use time
				stamps to address the
				actions defined in this
				control.
		SC-45(1)	System Time	A conformant TOE may
			Synchronization:	have the ability to
			Synchronization	synchronize with an
			with Authoritative	NTP server in its
			Time Source	operational environment,
		S1 C		satisfying this control.
FPT_TST_EXT.1	TSF Testing	SI-6	Security and	A conformant TOE will run
			Privacy Function Verification	automatic tests to ensure
			verincation	correct operation of its own functionality.
		SI-7	Software,	One of the self-tests the
		31 7	Firmware, and	TOE may perform is an
			Information	integrity test of its own
			Integrity	software or firmware.
		SI-7(1)	Software,	One of the self-tests the
			Firmware, and	TOE may perform is an
			Information	integrity test of its own
			Integrity: Integrity	software or firmware.
		014 11	Checks	
FPT_TUD_EXT.1	Trusted Update	CM-14	Signed	A conformant TOE requires
			Components	that TOE updates include
				integrity measures using a digital signature and
				optional published hash.
		SI-7(1)	Software,	A conformant TOE has the
		J. , (±)	Firmware and	ability to verify the integrity
			Information	of updates to it.
			Integrity: Integrity	
			Checks	
FTA_SSL.3	TSF-Initiated	AC-2(5)	Account	A conformant TOE will have
	<u>Termination</u>		Management:	the ability to log out after a
			Inactivity Logout	period of inactivity.
		AC-12	Session	A conformant TOE will have
			Termination	the ability to terminate an

Common Criteri	a Version 3.x SFR		300-53 Revision 5 rol Supports	Comments and Observations
		Com	тог заррог сз	idle remote interactive
				session.
FTP_ITC.1	Inter-TSF Trusted Channel	IA-3(1)	Device Identification and Authentication: Cryptographic Bidirectional Authentication	A conformant TOE may support the enforcement of this control if the protocol(s) used to establish trusted communications uses mutual authentication.
		SC-8	Transmission Confidentiality and Integrity	A conformant TOE has the ability to ensure the confidentiality and integrity of information transmitted between the TOE and another trusted IT product.
		SC-8(1)	Transmission Confidentiality and Integrity: Cryptographic Protection	The TOE supports a cryptographic method of protecting data in transit.
FTP_TRP.1(a)	Trusted Path (for Administrators)	IA-3(1)	Device Identification and Authentication: Cryptographic Bidirectional Authentication	A conformant TOE may support the enforcement of this control if the protocol(s) used to establish trusted communications uses mutual authentication.
		SC-8(1)	Transmission Confidentiality and Integrity: Cryptographic Protection	A conformant TOE will have the ability to prevent unauthorized disclosure of information and detect modification to that information.
		SC-11	Trusted Path	The TOE establishes a trusted communication path between remote administrators and itself.
FTP_TRP.1(b)	Trusted Path (for Non-Administrators)	IA-3(1)	Device Identification and Authentication: Cryptographic Bidirectional Authentication	A conformant TOE may support the enforcement of this control if the protocol(s) used to establish trusted communications uses mutual authentication.
		SC-8(1)	Transmission Confidentiality and Integrity: Cryptographic Protection	A conformant TOE will have the ability to prevent unauthorized disclosure of information and detect modification to that information.

Common Criteri	a Version 3.x SFR		00-53 Revision 5	Comments and
			rol Supports	Observations
		SC-11	Trusted Path	The TOE establishes a trusted communication path between remote users and itself.
Conditionally Mandato	ry Requirements			
FPT_KYP_EXT.1	Protection of Key and Key Material	AC-20(2)	Use of External Systems: Portable Storage Devices – Restricted Use	A conformant TOE supports the enforcement of this control by enforcing usage limitations on removable storage devices.
		SC-12	Cryptographic Key Establishment and Management	A conformant TOE will ensure that secret key and keying material data are not stored in plaintext except in specific cases where appropriate.
		SC-28(3)	Protection of Information at Rest: Cryptographic Keys	A conformant TOE will ensure that its cryptographic keys are protected at rest using an appropriate method.
FCS_KYC_EXT.1	Key Chaining	SC-12	Cryptographic Key Establishment and Management	The ability of a conformant TOE to maintain a key chain satisfies the key access portion of this control.
		SC-28(3)	Protection of Information at Rest: Cryptographic Keys	A conformant TOE will ensure that its cryptographic keys are protected at rest using an appropriate method.
FDP_DSK_EXT.1	Protection of Data on Disk	SC-28	Protection of Information at Rest	The primary purpose of the TOE is to ensure that data at rest is protected against unauthorized access.
		SC-28(1)	Protection of Information at Rest: Cryptographic Protection	A conformant TOE will encrypt data at rest using AES.
FDP_FXS_EXT.1	Fax Separation	AC-3	Access Enforcement	A conformant TOE enforces this control on the TOE's fax interface by defining authorized usage for this interface and ensuring that it can only be used for an authorized function.

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		SC-3(2)	Fol Supports  Security Function Isolation: Access and Flow Control Functions	Observations  A conformant TOE supports enforcement of this control by logically separating the fax interface from non-fax uses.
Optional Requirement	s			
FAU_SAR.1	Audit Review	AU-7	Audit Record Reduction and Report Generation	A conformant TOE provides audit review mechanisms to administrators.
FAU_SAR.2	Restricted Audit Review	AU-9(6)	Protection of Audit Information: Read-Only Access	A conformant TOE supports the enforcement of this control by enforcing readonly access to IPS records to authorized subjects.
FAU_STG.1	Protected Audit Trail Storage	AU-9	Protection of Audit Information	A conformant TOE has the ability to prevent unauthorized modification and deletion of audit records.
		AU-9(6)	Protection of Audit Information: Read-Only Access	A conformant TOE has the ability to prevent unauthorized modification and deletion of audit records. If the TOE prevents this by preventing all modification and deletion of audit records (i.e., there is no 'authorized' ability to do this), it can be used to support the enforcement of this control.
FAU_STG.4	Prevention of Audit  Data Loss	AU-5	Response to Audit Logging Process Failures	A conformant TOE has the ability to react in a specific manner when the allocated audit storage space is full. This SFR does not require the TOE to generate an alert when this occurs so only part (b) of the control is satisfied.
FCS_CKM.1(a)	Cryptographic Key Generation (for asymmetric keys)	SC-12 SC-12(3)	Cryptographic Key Establishment and Management Cryptographic Key	The ability of the TOE to generate asymmetric keys satisfies the key generation portion of this control.  A conformant TOE ensures
			Establishment and	that generated asymmetric

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			Management:	keys provide an appropriate
			Asymmetric Keys	level of security.
FDP_RIP.1(a)	Subset Residual	SC-4	Information in	A conformant TOE supports
	<u>Information</u>		Shared Resources	this control by ensuring
	<u>Protection</u>			that any previous
				information content of a
				resource is made
				unavailable by overwriting data upon the deallocation
				of the resource.
FDP_RIP.1(b)	Subset Residual	SC-4	Information in	A conformant TOE supports
DF_MF.1(b)	Information	30-4	Shared Resources	this control by ensuring
	Protection		Sharea Resources	that any previous
	<u> </u>			information content of a
				resource is made
				unavailable by overwriting
				data upon the request of
				an administrator.
Selection-Based Requir	rements			
FCS_COP.1(c)	Cryptographic	SC-13	Cryptographic	A conformant TOE has the
	operation (Hash		Protection	ability to perform hashing
	Algorithm)			using NSA-approved and
				FIPS-validated algorithms.
FCS_COP.1(d)	Cryptographic	SC-13	Cryptographic	A conformant TOE has the
	Operation (AES Data		Protection	ability to perform AES
	Encryption/Decryptio			encryption and decryption
	<u>n)</u>			using NSA-approved and
500 COD 4/ )	0 1 1:	66.42		FIPS-validated algorithms.
FCS_COP.1(e)	Cryptographic	SC-13	Cryptographic Protection	A conformant TOE has the ability to perform key
	Operation (Key Wrapping)		Protection	wrapping using NSA-
	wrapping)			approved and FIPS-
				validated algorithms.
FCS_COP.1(f)	Cryptographic	SC-13	Cryptographic	A conformant TOE has the
	Operation (Key	3	Protection	ability to perform key
	Encryption)			encryption-using NSA-
	_ <del></del>			approved and FIPS-
				validated algorithms.
FCS_COP.1(g)	Cryptographic	SC-13	Cryptographic	A conformant TOE has the
	Operation (for Keyed-		Protection	ability to perform keyed-
	Hash Message			hash message
	Authentication)			authentication using NSA-
				approved and FIPS-
				validated algorithms.

FCS_COP.1(h)   Cryptographic Operation (for Keyed-Hash Message Authentication)   SC-13   Cryptographic Protection   A conformant TOE ability to perform knash message authentication using approved and FIPS validated algorithm transport using NS approved and FIPS validated algor	Common Criteria Version 3.x SFF	NIST SP 800-53 Revision 5 Comments and Control Supports Observations	t
FCS_HTTPS_EXT.1  HTTPS-Selected  IA-5(2)  Authenticator Management: Public Key-Based Authentication Dased authentication based authentication pro Confidentiality and Integrity  SC-8  Transmission Confidentiality and of information tran between the TOE a another trusted IT  SC-8 (1)  Transmission Confidentiality and Integrity: Cryptographic Protection  SC-13  Cryptographic Protection  SC-13  Cryptographic Protection  The TOE provides cryptographic entry secure data in tran which may satisfy organization-define the functionality of the TSF is consister organizational requirements.	Operation (for Hash Message Authentication  Cryptographic Operation (Key	SC-13  Cryptographic A conformant TOE had ability to perform key hash message authentication using approved and FIPS-validated algorithms.  SC-13  Cryptographic A conformant TOE had ability to perform key transport using NSA-	yed- NSA- as the
Confidentiality ability to ensure the confidentiality and of information transbetween the TOE at another trusted IT  SC-8 (1)  Transmission Confidentiality and Integrity: Cryptographic Protection  SC-13  Cryptographic Protection  The TOE supports a cryptographic methor protecting data in the protection  The TOE supports and cryptographic method protection  The TOE provides cryptographic method secure data in transpection which may satisfy organization-defined the functionality clithe TSF is consister organizational requirements.	CS_HTTPS_EXT.1 HTTPS-Selected	Validated algorithms.  IA-5(2)  Authenticator Management: Public Key-Based Authentication Validating peer certification proce	ay (I- ) by icates ss.
SC-13  Cryptographic Protection  The TOE provides cryptographic method secure data in transwhich may satisfy organization-defined the functionality classes the TSF is consister organizational requirements.		Confidentiality and Integrity and Integrity:  SC-8 (1) Transmission Confidentiality and Integrity: Cryptographic ability to ensure the confidentiality and integrity and Integrity: Cryptographic	tegrity mitted d oduct.
FCS_IPSEC_EXT.1		SC-13  Cryptographic Protection  The TOE provides cryptographic metho secure data in transit which may satisfy organization-defined the functionality clair the TSF is consistent organizational	uses if
SC-7(5)  Authentication  SC-7(5)  Boundary  Protection: Deny implementation incomplete in the conformation	CS_IPSEC_EXT.1 IPsec Selected	Management: Public Key-Based Authentication  SC-7(5) Boundary Protection: Deny  implements peer authentication for IPs authentication for IPs authentication for IPs implements peer authentication for IPs authentication for IPs authentication for IPs implements peer authentication for IPs authe	Psec ides a

Common Criteri	a Version 3.x SFR		300-53 Revision 5	Comments and Observations
		SC-8	rol Supports Transmission Confidentiality and Integrity	A conformant TOE implements IPsec as a method of ensuring confidentiality and integrity
		SC-8(1)	Transmission Confidentiality and Integrity: Cryptographic Protection	of data in transit.  The TOE's use of IPsec provides a cryptographic means to protect data in transit.
		SC-13	Cryptographic Protection	The TOE provides 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_KDF_EXT.1	Cryptographic Key Derivation	SC-12	Cryptographic Key Establishment and Management	A conformant TOE has the ability to derive keys in support of the key lifecycle process.
FCS_PCC_EXT.1	Cryptographic Password Construct and Conditioning	IA-5(1)	Authenticator Management: Password-Based Authentication	A compliant TOE has the ability to condition stored passwords, which satisfies part (c) of this control.
		SC-13	Cryptographic Protection	A conformant TOE has the ability to perform password-based key derivation based on FIPS-and NSA-approved standards.
FCS_SMC_EXT.1	Submask Combining	SC-12	Cryptographic Key Establishment and Management	A conformant TOE has the ability to perform submask combining in support of key generation functions.
FCS_SNI_EXT.1	Cryptographic Operation (Salt, Nonce, and Initialization Vector Generation)	SC-12	Cryptographic Key Establishment and Management	A conformant TOE's use of salts, nonces, and/or IVs as needed ensures that cryptographic keys are generated appropriately.
FCS_SSH_EXT.1	SSH-Selected	AC-17(2)	Remote Access: Protection of Confidentiality and	The SSH client protocol implemented by the TOE provides confidentiality and integrity for remote access.

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		IA-2	Integrity Using Encryption Identification and	A conformant TOE may use
			Authentication (Organizational Users)	SSH functionality to interact with a remote system on behalf of an organizational user.
		IA-3	Device Identification and Authentication	A conformant TOE may use SSH functionality to establish a static or asneeded connection to a specific remote device that is authenticated using a public key or X.509 certificate (instead of an administrator-supplied credential), which supports this control.
		SC-8	Transmission Confidentiality and Integrity	A conformant TOE has the ability to ensure the confidentiality and integrity of information transmitted between the TOE and another trusted IT product.
		SC-8(1)	Transmission Confidentiality and Integrity: Cryptographic Protection	The TOE's use of SSH supports a cryptographic method of protecting data in transit.
		SC-13	Cryptographic Protection	The TOE provides 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_TLS_EXT.1	TLS Selected	SC-8	Transmission Confidentiality and Integrity	A conformant TOE has the ability to ensure the confidentiality and integrity of information transmitted between the TOE and another trusted IT product.

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		SC-8(1)	Transmission Confidentiality and Integrity: Cryptographic Protection	The TOE supports a cryptographic method of protecting data in transit.
		SC-13	Cryptographic Protection	The TOE provides 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.
FIA_PSK_EXT.1	Pre-Shared Key Composition	IA-5	Authenticator Management	A conformant TOE uses pre- shared keys as a type of authenticator and will ensure their strength and confidentiality, which supports parts (c) and (g) of the control.
Objective Requirements				
This PP has no objective	e requirements.			