## **Mapping Between**

# Extended Package for VPN Gateway, Version 2.1, 08-March-2017

#### and

### NIST SP 800-53 Revision 4

#### **Important Caveats**

- **Product vs. System.** The Common Criteria is designed for the evaluation of products; the Risk Management Framework (NIST SP 800-37 Revision 1, DOD 8510.01) and associated control/control interpretations (NIST SP 800-53 Revision 4, 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 handle administrator authentication failures only supports AC-7 to the extent that the TSF behavior in response to excessive failures as defined by FIA\_AFL.1.2 is consistent with the organization-defined behavior specified in AC-7 point b. 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 Criteria Version 3.x SFR		NIST SP 800-53 Revision 4 Control Supports		Comments and Observations
FCS_CKM.1/IKE	Cryptographic Key Generation: For IKE Peer Authentication	AC-17(2)	Remote Access: Protection of Confidentiality / Integrity Using Encryption	A conformant TOE will generate keys that are used for encryption of remote access communications.
		SC-12	Cryptographic Key Establishment and Management	A conformant TOE provides a key generation function.
		SC-12(3)	Cryptographic Key Establishment	The specific key generation function

FIA_AFL.1	Authentication	AC-7	and Management: Asymmetric Keys Unsuccessful	provided by the TOE uses asymmetric keys.  The TOE has the ability
	Failure Handling		Logon Attempts	to detect when a defined number of unsuccessful authentication attempts occur and take some corrective action.
FIA_X509_EXT.4	X.509 Certificate Identity	IA-5(2)	Authenticator Management: PKI-Based Authentication	A conformant TOE has the ability to reject the establishment of an SA if the DN information is invalid, which supports part (c) of this control.
FPF_RUL_EXT.1	Rules for Packet Filtering	AC-4	Information Flow Enforcement  Boundary Protection	A conformant TOE enforces access control rules that allow or deny information flows based on characteristics of the network traffic, which may support organization-defined information flow control policies related to remote access. A conformant TOE supports the enforcement of boundary protection by providing a mechanism to only authorize network traffic that meets certain characteristics.
		SC-7(5)	Boundary Protection: Deny by Default / Allow by Exception	A conformant TOE will drop all received traffic over the boundary-facing network interface unless a rule explicitly authorizes the traffic.
		SI-4	Information System Monitoring	A conformant TOE will support section a.2 of this control by providing the ability to monitor potentially

		1		unauthorized network
				connections.
FPT_FLS.1/SelfTest	Fail Secure: Self-	SI-6	<b>Security Function</b>	A conformant TOE will
	Test Failures		Verification Verification	have the ability to shut
				itself down in response
				to a self-test failure.
				Note, however, that the
				SFR does not require
				the TOE to issue a
				notification in the event
				of a self-test failure and
				so the entirety of this
				control is not
				necessarily supported.
FPT_TST_EXT.2	TSF Testing	SI-7(1)	Software,	A conformant TOE will
			Firmware, and Information	do an integrity test
				upon start-up.
			Integrity: Integrity Checks	
		SI-7(6)	Software,	A conformant TOE will
		51-7(0)	Firmware, and	use cryptographic
			Information	methods to verify the
			Integrity:	integrity of its own
			Cryptographic	stored executable code.
			Protection	
Optional Requireme	nts			
FTA_SSL.3/VPN	TSF-Initiated	AC-2(5)	Account	A conformant TOE will
	<b>Termination</b>		Management:	have the ability to log
			Inactivity Logout	out after a period of
				inactivity that can be
DEA TOP 1	TOTAL :	A G 2(11)		configured.
FTA_TSE.1	TOE Session	AC-2(11)	Account	A conformant TOE will
	<b>Establishment</b>		Management:	have the ability to deny remote VPN client
			Usage Conditions	session based on
				location, time, day, or
				other attributes
				configured by an
				administrator.
FTA_VCM_EXT.1	VPN Client	N/A	N/A	There are no security
	Management			controls that apply to
				the ability of the TOE
				to assign a private IP
				address to connected
				clients.
Selection-based Requirements				
FIA_PSK_EXT.1	Pre-Shared Key	IA-5	Authenticator	A conformant TOE
	Composition		Management	uses pre-shared keys as
				0 trm0 of
				a type of authenticator and will ensure their

				strength and confidentiality, which supports parts c and h
				of the control.
Objective Ro	equirements			
N/A	N/A	N/A	N/A	N/A