COMPLIANCE COMPONENT

DEFINITION	
Name	Cryptography for VPN
Description	Cryptography for Virtual Private Network (VPN) uses Internet Protocol Security (IPSec) as a method of securing public network traffic to provide data confidentiality and integrity for remote and mobile users.
Rationale	A public network such as the Internet accessed by cable or DSL, is inherently not secure. A VPN enables two or more parties to communicate securely across a public network by creating an encrypted private connection, or "tunnel," between them.
Benefits	• IPSec provides confidentiality and integrity over public network • IPSec minimizes network threats such as replay, interception, packet sniffing, wiretapping, or eavesdropping

ASSOCIATED ARCHITECTURE LEVELS	
Specify the Domain Name	Security
Specify the Discipline Name	Technology Controls
Specify the Technology Area Name	Cryptography
Specify the Product Component Name	

COMPLIANCE COMPONENT TYPE	
Document the Compliance Component Type	Guideline
Component Sub-type	

COMPLIANCE DETAIL	
State the Guideline, Standard or Legislation	• The approved protocol for VPN is the IPSec standard. • The encryption used should be Transport Layer Security (TLS) or Advanced Encryption Standard (AES). • IPSec must be combined with two-factor authentication.
Document Source Reference #	NIST 800-53 Revision 4

Compliance Sources			
Name	NIST SP 800-30 Rev. 1; NIST SP 800-77	*Website*	csrc.nist.gov/publications
Contact Information	inquiries@nist.gov		
Name		*Website*	
Contact Information			

KEYWORDS	
List Keywords	IPSec, encryption, tunnel, mobile, TLS, remote, AES, VPN

COMPONENT CLASSIFICATION				
Provide the Classification	☐ *Emerging*	☒ *Current*	☐ *Twilight*	☐ *Sunset*
Sunset Date				

COMPONENT SUB-CLASSIFICATION		
Sub-Classification	Date	Additional Sub-Classification Information
☐ *Technology Watch*		
☐ *Variance*		
☐ *Conditional Use*		

Rationale for Component Classification	
Document the Rationale for Component Classification	

Migration Strategy	
Document the Migration Strategy	

Impact Position Statement	
Document the Position Statement on Impact	

CURRENT STATUS				
Provide the Current Status	☐ *In Development*	☐ *Under Review*	☒ *Approved*	☐ *Rejected*

AUDIT TRAIL			
Creation Date	10/04/2016	*Date Approved / Rejected*	10/04/2016
Reason for Rejection			
Last Date Reviewed		*Last Date Updated*	10/04/2016
Reason for Update	Vitality		