

COMPLIANCE COMPONENT

DEFINITION						
Name	Virtual Private Network (VPN)					
Description	A Virtual Private Network (VPN) can be a software or hardware network technology that creates a secure encrypted network connection over a public network to an agency's network.					
Rationale	A Virtual Private Network (VPN) provides a low-cost means of establishing a secure private connection for remotely accessing an agency's private network.					
Benefits	 Provide opportunities for increased productivity of mobile employees, telecommuters, business partners and remote sites by allowing access to agency resources Provides for the confidentiality and integrity of the agency's data in transit across the public network More cost effective than alternatives such as dedicated private telecommunications lines between agencies or branch offices 					
Associated Architecture Levels						
Specify the Domain Na	ame Security					
Specify the Discipline	Name Technical Controls					
Specify the Technolog Name	Remote Access Controls					
Specify the Product Component Name						
COMPLIANCE COMPONENT TYPE						
Document the Complia Component Type	ance Standard					
Component Sub-type						
COMPLIANCE DETAIL						
State the Guideline, So or Legislation	 VPNs must meet the Cryptography for VPNs Compliance Component (CC) requirements VPNs must meet applicable requirements in the Securing Remote Computers and Connections CC An anomaly-identifying software or hardware (Intrusion Detection and Prevention System) should be in place inside the point in the agency network where VPN traffic is decrypted (see the Intrusion Prevention System IPS CC) Site-to-Site VPNs: A VPN uses dedicated equipment and strong encryption to secure point to point communications over a public network. 					

	 Must authenticate the tunnel with a: Pre-shared key or certificate 							
	 May utilize Access Control Lists (ACLs) on the VPN device to limit what resources can be accessed 							
	 Must not allow split-tunneling unless an agency-controlled firewall is properly positioned between the agency network and any non-agency or public network (see the Firewall Environments CC) 							
	NOTE: Split tunneling occurs when concurrent access is allowed to resources on the agency network and a non-agency or public network via the VPN							
	Remote Access VPNs:							
	 Remote Access VPN is a client-to-LAN connection by users who need to securely connect to the agency network from remote locations. This can be via wireless, Digital Subscriber Line (DSL), cable modem, etc. 							
	 Must authenticate the VPN tunnel with a: Two-Factor authentication (<u>NIST SP 800-63-1</u>) 							
	 Must not allow split tunneling (only one network connection is allowed) 							
	 Should utilize Access Control Lists (ACLs) to limit what resources can be accessed by a remete glight (see Access Control Lists CC) 							
Document Source Reference #	accessed by a remote client (see Access Control Lists CC) NIST Special Publication 800-46 v2, SP 800-114, SP 800-47, SP 800-77, SP 800- 113							
Compliance Sources								
Name	National Institute of Standards and Technology (NIST) Website http://csrc.nist.gov							
Contact Information	info@nist.gov							
Name	Website							
Contact Information								
Keywords								
List Keywords	Broadband, Cable, DSL, Wireless, Satellite, Modem, Internet, Dial-Up, telecommute, mobile, remote, IPSec, tunnel, site-to-site							
COMPONENT CLASSIFICATION								
Provide the Classification	Emerging Current Twilight Sunset							
Sunset Date								
COMPONENT SUB-CLASSIFICATION								
Sub-Classification D	ate 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 🛛 🖂 A	pproved	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							