

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 | | | | | | | |