

Ans. Key management is an important aspect of IPsec or any encrypted communication that uses keys to provide information confidentiality and integrity. Key management and the protocols utilized are implemented to set up, maintain and control secure relationships, and ultimately the VPN between systems.

Simple Network management Protocol v.3 (SNMPv3) is an interoperable, standards-based protocol that is defined in RFCs 3413 to 3415. SNMPv3 has a better security system than older versions.

X.509 Authentication is most common use of X.509 certificate authentication is in verifying the identity of a server when using SSL, most commonly when using HTTPS from a browser. The browser will automatically check that the certificates presented by a server has been issued (i.e. digitally signed) by one of a list of trusted certificate authorities which it maintains.