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VPN: PROBLEM RELATES WITH SECURITY OF DATA IN TUNNELING PROCESS AND REQUIREMENTS

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ABSTRACT

VPN is a private network that provides inter-connectivity to exchange information among various entities that supports a forum of authorized users and allows them to access various network-related services. A Virtual Private Network (VPN) is the expansion of a private network that makes links for sharing or public networks like the Internet. A VPN enables a user to send data between two computers with in a network. This paper involves various issues of transferring data protocols on which a vpn depends and the infrastructure uses the tunneling process. Also underline the problems of data transferring through the tunneling process. this paper also proposed an encryption algorithm for the data security.

KEYWORDS: VPN, Tunneling, Protocols, DES, PAP, GRE

REFERENCES:

- **1.** R. Boutaba, W. Ng., A. Leon-Garcia, Web-based Customer Management of VPNs, Journal of Network and Systems Management.
- 2. Davey, B. et al. IETF RFC3246: An Expedited Forwarding PHB. March 2002
- 3. Heinanen, J. et al. IETF RFC2597: Assured Forwarding PHB Group. June 1999
- **4.** http://dmoz.org/Science/Math/Applications/Communication_Theory/Cryptography/Historica
- **5.** D. Harkins and D. Carrel. The Internet Key Exchange (IKE). RFC 2409 (Proposed Standard), Nov. 1998.
- **6.** S. Kent and R. Atkinson. IP authentication header. RFC 2402 (Proposed Standard), Nov. 1998.
- **7.** S. Kent and R. Atkinson. IP encapsulating security payload. RFC 2406 (Proposed Standard), Nov. 1998.
- **8.** S. Kent and R. Atkinson. Security architecture for the internet protocol. RFC 2401 (Proposed Standard), Nov. 1998.