

VPN FAQ

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CWR-854(F) VPN

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1- What is VPN?

VPN stands for Virtual Private Network and it is the technology to create a secure private network between two hosts using a public network like Internet.

2- What are the features and benefits of using VPN?

COST-VPN replaces expensive leased connections with dial-up or DSL/cable connections.

SECURITY - Through authentication and encryption, VPN provides remote secure links for users to access the company or any private network.

3- What are the protocols used by VPN?

The three protocols used by VPN are PPTP (point to point tunneling protocol), L2TP (layer 2 tunneling protocol) and IPSec (Internet protocol security).

4- What is a Tunnel?

VPN Tunnel is a virtual private passage through an insecure medium like Internet.

5- What are the components for setting up a VPN?

VPN client, this could be a computer (any operating system) or a router depending on the needs.

VPN server, this is a connection point for VPN clients.

6- What VPN protocol is supported by CNet wireless routers?

CWR-854(F) supports PPTP, IPSec VPN

CWR-901 supports PPTP, L2TP and IPSec

7- What is IPSec?

IPSec is the most common technology in use for creating and operating VPNs. In IPSec tunneling all packets are completely and securely encapsulated and each packet receives a new header with all address and connection information hidden from public view.

8- What is PPTP?

PPTP stands for point-to-point tunneling protocol and allows PPP packets to be encapsulated within IP Packets and over any IP network.

9- What is L2TP?

Layer 2 Tunneling protocol is an extension of PPTP used by ISPs to enable the operation of a private virtual networks over the Internet.

10- How does VPN work?

Basically VPN is created by the client system's VPN software establishing a connection through a secure tunnel with a VPN server. The tunnel can be built using PPTP, L2TP or IPSec protocols.

11- What is NAT Traversal?

NAT-T is the feature that makes NAT devices IPSec aware or compliant, thereby allowing remote access users to build IPSec tunnels through home gateways. 10- What is an RSA Key?

12- What is an RSA key?

RSA stands for Rivest, Shamir, Adelman and is an encryption algorithm using asymmetric keys. DES, AES and the two authentication algorithms, MD5 and SHA-1 use symmetric shared secret keys.

13- What is PSK?

PSK is short for Pre-Shared-Key. This is the key that identifies (authenticates) a communicating party during a Phase 1 Internet Key Exchange negotiation. It is shared because both parties know the key.

14- What is IKE?

Internet Key Exchange negotiates the IPSec security associations (SAs). This process requires the two IPSec systems to first authenticate themselves in phase 1 and in phase 2, negotiate the IPSec security associations and generate the required key material for IPSec.

CWR-854(F) VPN

1- What is the VPN protocol supported by CWR-854?

PPTP and IPSec

2- How many VPN tunnels are supported on CWR-854?

10 VPN Tunnels

3- What are the IPSec security parameters needed for VPN?

First choose IPSec security protocol. CWR-854 supports ESP.

Then choose encryption algorithm.

Then choose authentication method.

Last choose DH algorithm group.

4- What type of encryption is supported on CWR-854?

3DES (Data Encryption Standard), AES128 (Advanced Encryption Standard-128bit)

5- What are the Authentication methods used by CWR-854?

MD5 (message digest 5) and SHA1 (secure hash algorithm 1)

6- What are DH1, 2, and 5 key groups?

Diffie-Hellman (DH) is a public-key cryptography protocol that allows two parties to establish a Shared secret key used by encryption and hash algorithms.

7- How to configure VPN on CWR-854?

Connect to the router's web configuration and then go to VPN settings page. Enable VPN and click on Edit to configure the tunnel 1 settings.

