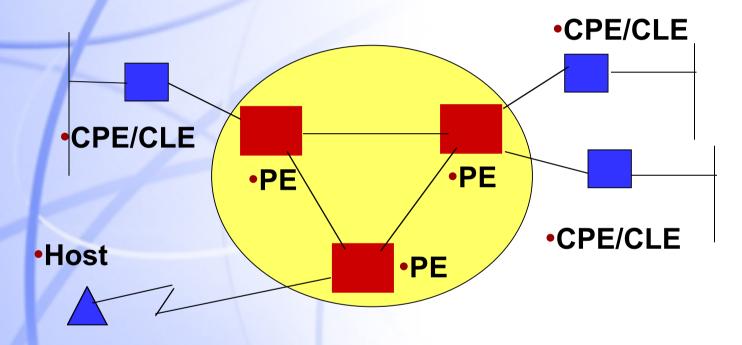


IPSEC VPN overview

Basic VPN Architecture



•IPSEC can be used for :

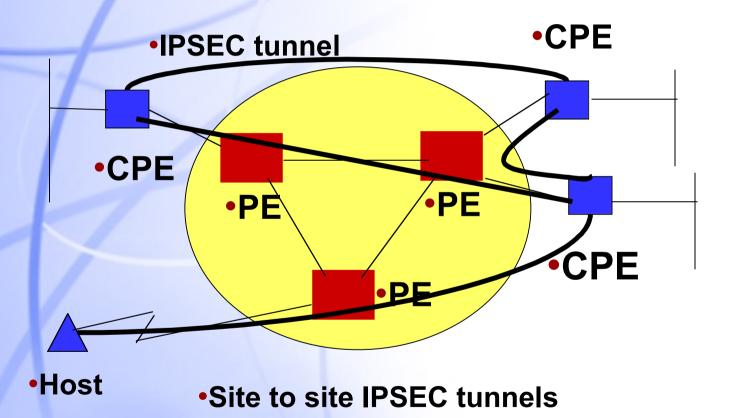
•CPE to CPE

•PE to PE

•PE to CPE



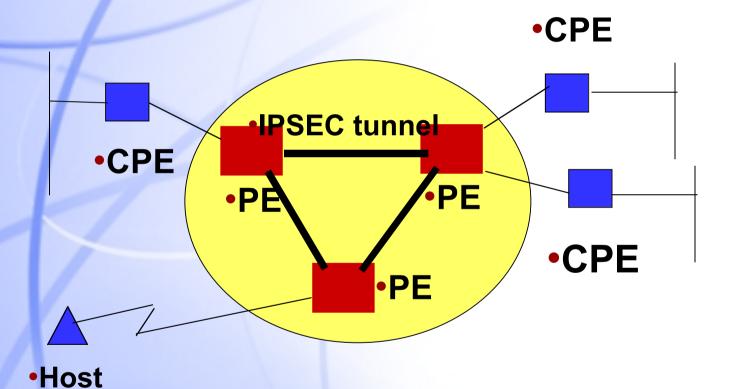
CPE to CPE IPSEC tunnels



Voluntary IPSEC tunneling



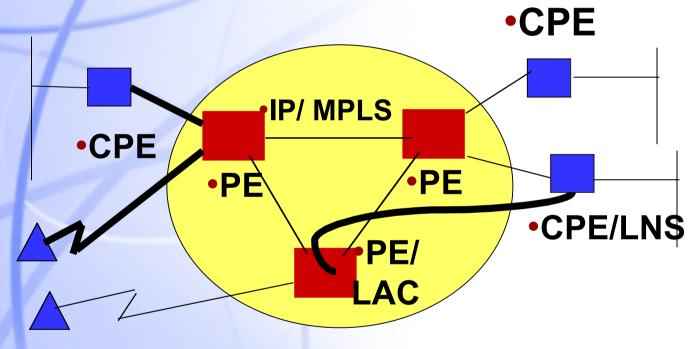
PE to PE IPSEC tunnels



Can be used for both Layer 3 + Layer 2 VPNs



CPE to PE IPSEC tunnels



Host

- Secure remote access to NB-VPN
- Compulsory L2TP/IPSEC tunneling



Current IPSEC WGs

- IPSEC
- IPSEC Policy (IPSP) allows configuration of IPSEC policy for hosts + security gateways, security gateway discovery for hosts etc
- IPSEC Remote Access (IPSRA) extend IPSEC to allow for remote client user authentication and configuration



Requirements Solicited - some possibilities are:

- Ability to associate an IPSEC tunnel with a VPN (e.g. add VPN-ID to IKE phase 2 negotiation)
- Ability to run routing protocols over an IPSEC tunnel (possible issue with wildcard QM client IDs)
- Allow null encryption / null authentication option
- More flexible diffserv marking rules



Thank You! NETWORKS