# framework fig 3.2

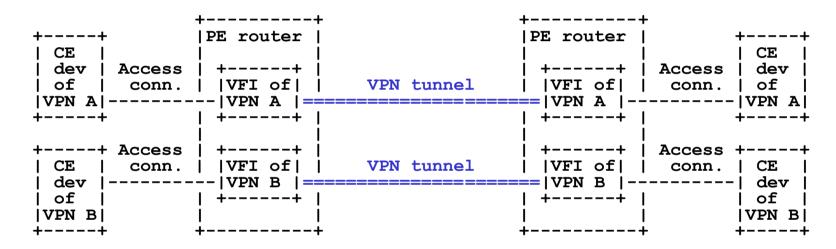


Figure 3.2: Relationship between entities in reference model (1).

# fig 3.3

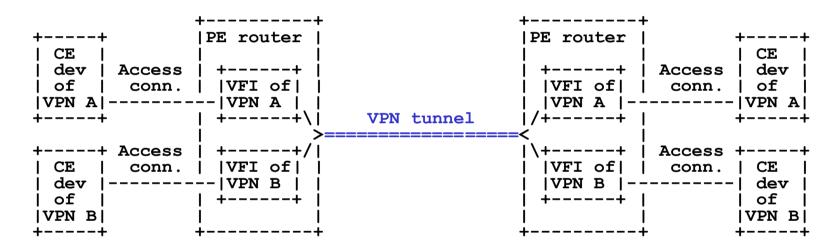


Figure 3.3: Relationship between entities in reference model (2).

this vpn tunnel is a different thing

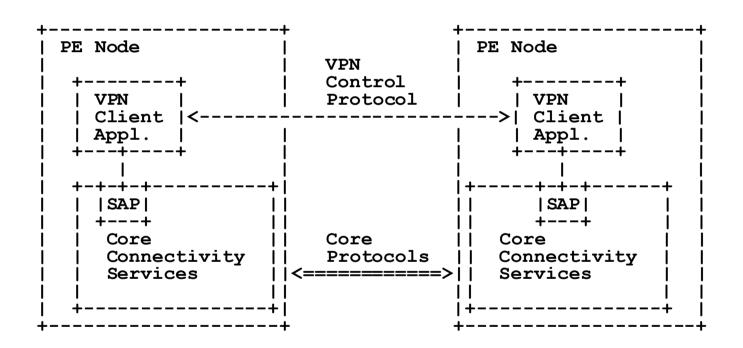
## vpn tunnels defined

they keep packets destined to different **vfi**s separate

the vpn tunnel header gets a packet to:

- vfi on the remote pe
- perhaps also next hop

# proposed layering



# for example

+	<b></b>	<b></b>	
'     CPT   	Private User Payload	VPN     Tunnel     Header	Core   Protocol   Headers
CPT	Examples of Private User Payload Protocols	of VPN	Examples of Core Protocols
-AAL5   Trlr	-Priv. addr. IPv4 -Pub. addr. IPv6 -IPSec -IPX -NetBEUI -Appletalk	-MPLS     LSP     -?   	-MPLS LSE(s) -1483 -IPv4 -GRE -IPSec -L2TP

### benefit

#### ppvpn solutions must support

- without layering
  - n-by-m matrix of protocol interactions
- with the proposed layering
  - encapsulation into the vpn tunnel and of the vpn tunnel

control protocols only refer to vpn tunnels vpn app. uses core connectivity

## ascii art rules!

