# PPVPN Interworking

<draft-kurakami-ppvpn-interworking-00.txt>

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Kurakami Hiroshi Junichi Sumimoto, Muneyoshi Suzuki NTT

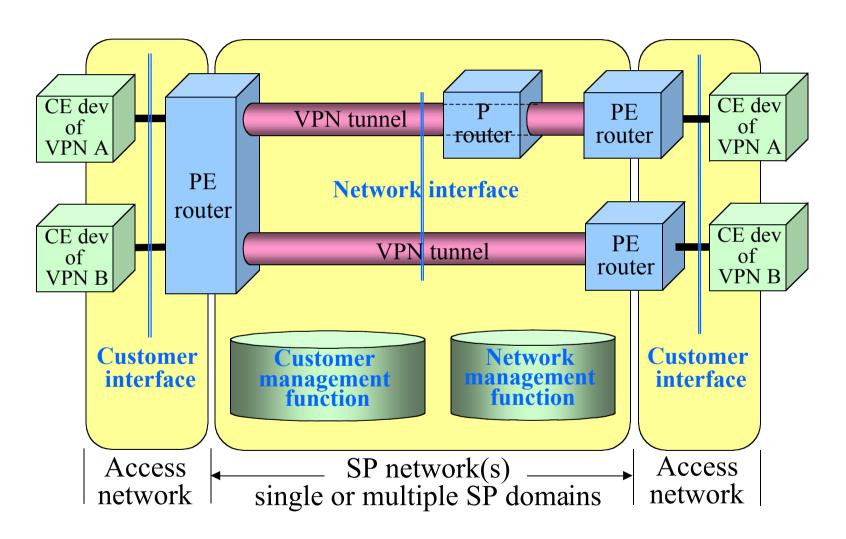
## Why PPVPN Interworking?

- Various technical approaches are already on the market. Defining and specifying a limited number of approaches (BGP-VPN, VR, IPsec VPN, L2-VPN) as well as achieving interoperability within each approach are included in the working items of the ppvpn WG.
- Inter-AS VPN interconnections are explicitly stated to be considered in ppvpn WG.



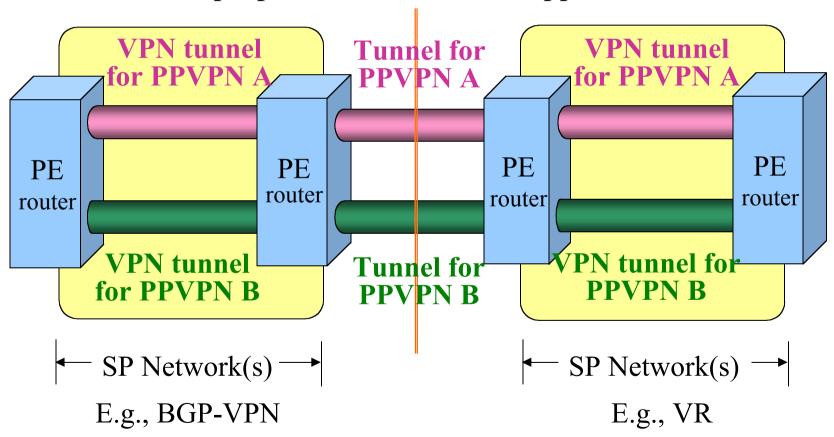
• From the SPs' point of view, multi-vendor PPVPN interworking among different approaches must be supported since it significantly increases flexibility in deploying PPVPN.

### Reference Model for Layer 3 NBVPN



### Interworking Interface

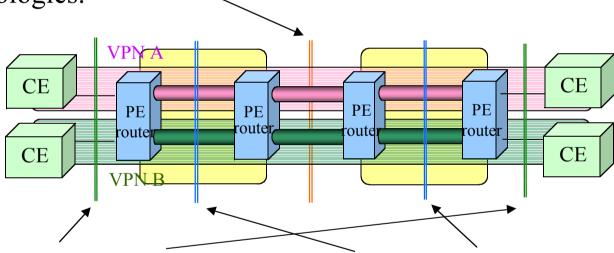
Interworking interface to which the proposed method is to be applied



## Difference among three types of interfaces

#### Interworking interface:

Supported by a kind of tunnels, which are located on interconnections among SP networks based on different technologies.



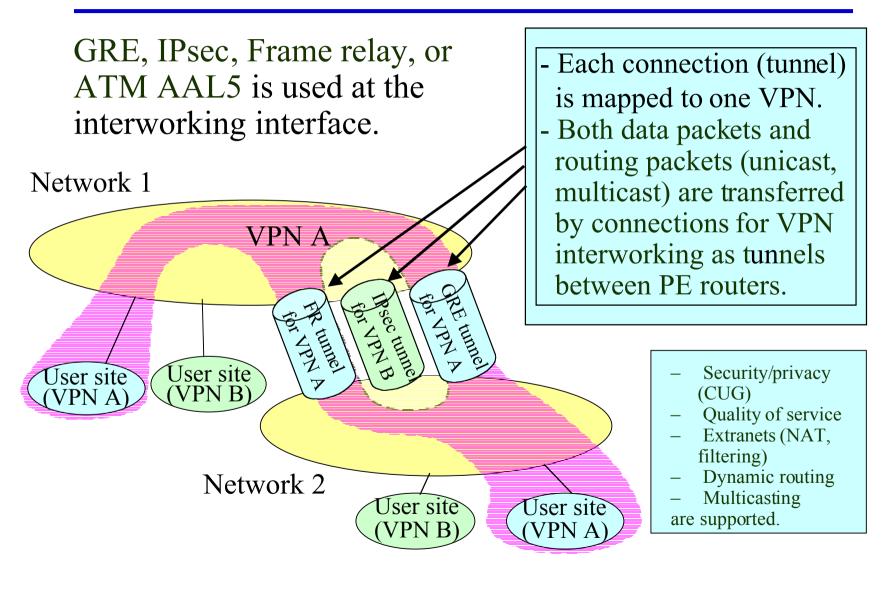
#### Customer interface:

Supported by access links, each of which does not necessarily have an identifier of VPN.

#### Network interface:

Supported by VPN tunnels, which are not located in interconnections among SP networks based on different technologies.

# Overview of Proposed Method



## Summary and Follow-up

- From the SPs' point of view, PPVPN interworking among different approaches is strongly demanded.
- The interworking interface, that is different from the customer/network interface, should be considered.
- Proposed simple method using GRE, IPsec, Frame relay, or ATM AAL5 for interworking connections which satisfies the typical VPN service requirements.

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• We hope that PPVPN interworking will become a working item of ppvpn WG.