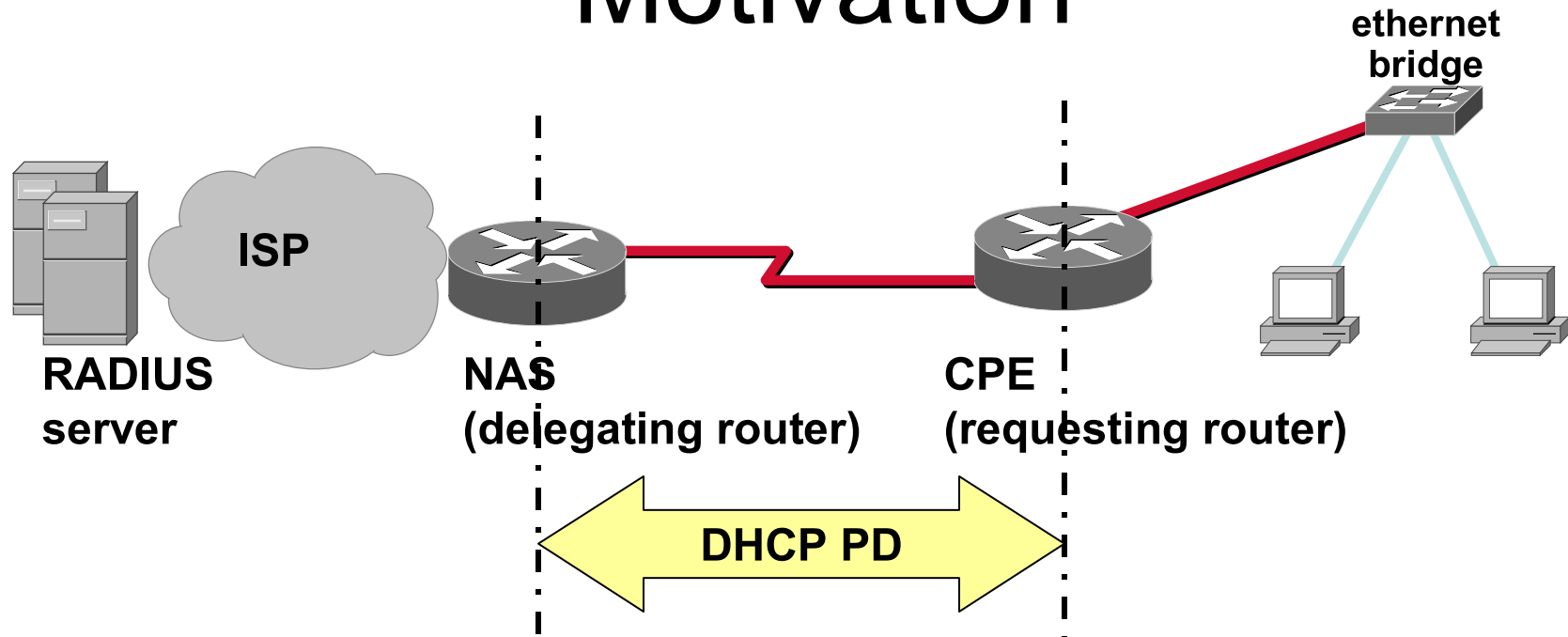


# RADIUS Delegated-IPv6- Prefix Attribute

draft-salowey-radext-delegated-prefix-01.txt

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# Motivation



**DHCP prefix delegation (PD) assigns a prefix across the administrative boundary between the service provider and the user.**

**Delegated prefix (typically /48) is assigned to requesting router; /64s from the delegated prefix are assigned to the LAN links in the customer premises.**

**Requesting router receives 2001:DB8:3::/48 through prefix delegation; assigns 2001:DB8:3:1::/64 to customer ethernet link.**

# Selecting prefix to delegate

- Assignment of prefix to customer is left to implementation
- One solution is to associate prefix with user in RADIUS
- RFC 3633 suggests use of Framed-IPv6-Prefix attribute (RFC 3162) to transmit prefix from RADIUS server to NAS/requesting router
  - But, Framed-IPv6-Prefix is intended for assignment to link between NAS and CPE
  - Conflict if admin wants to assign prefix to NAS-CPE link and use PD

# Delegated-IPv6-Prefix

- New attribute, related to Framed-IPv6-Prefix, for explicit use in PD
- Format:

