

# **DHCPv4 over IPv6 Server option**

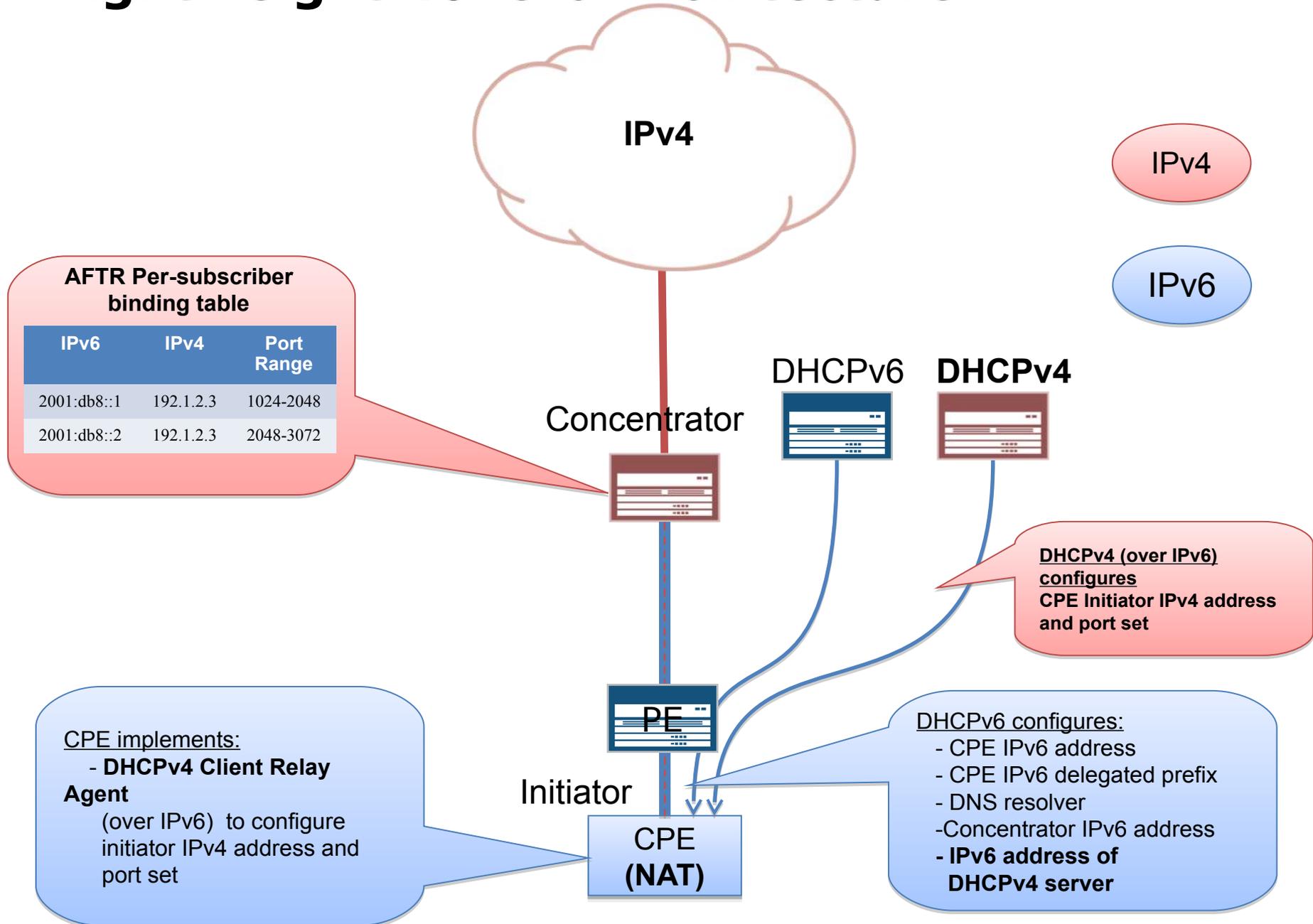
## **IETF84**

**draft-mrugalski-softwire-dhcpv4-over-v6-option-00**

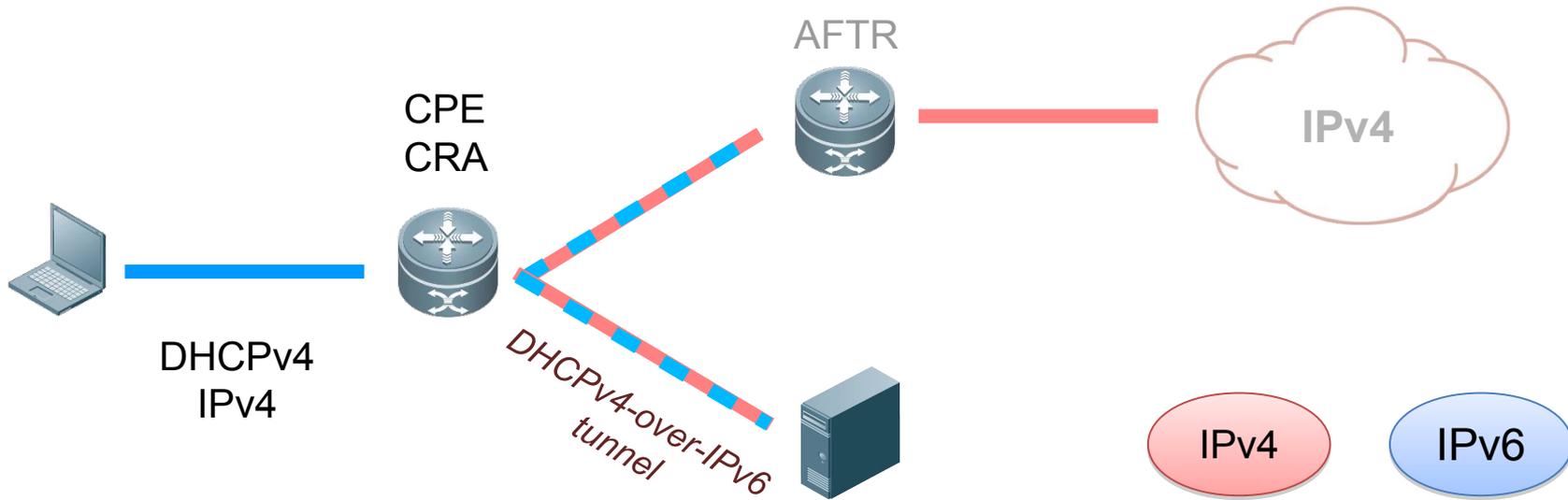
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# Lightweight 4over6 Architecture



# DHCPv4-over-IPv6



- DHCPv4-over-IPv6 defined in draft-ietf-dhc-dhcpv4-over-ipv6-03
- CRA (Client Relay Agent) needs to discover tunnel end-point
- A simple DHCPv6 option to convey tunnel end-point is needed

# Two possible approaches

- FQDN
  - Pro: Similarity to DS-Lite option
  - Con: More complicated (DNS interaction)
  - Con: More failure modes
    - Need DNS
    - What if there is no AAAA?
    - What if there are multiple AAAAs?
    - Malformed FQDN
  - Con: Slower (DNS RRT)
- A single IPv6 address
  - Pro: Simpler
  - Pro: Faster
  - Pro: No external dependency on DNS

## **Next steps**

- Change FQDN->IPv6 address (?)
- Would it be suitable for adoption in DHC?
- Call for adoption (DHC? Softwires?)

**Thank you**