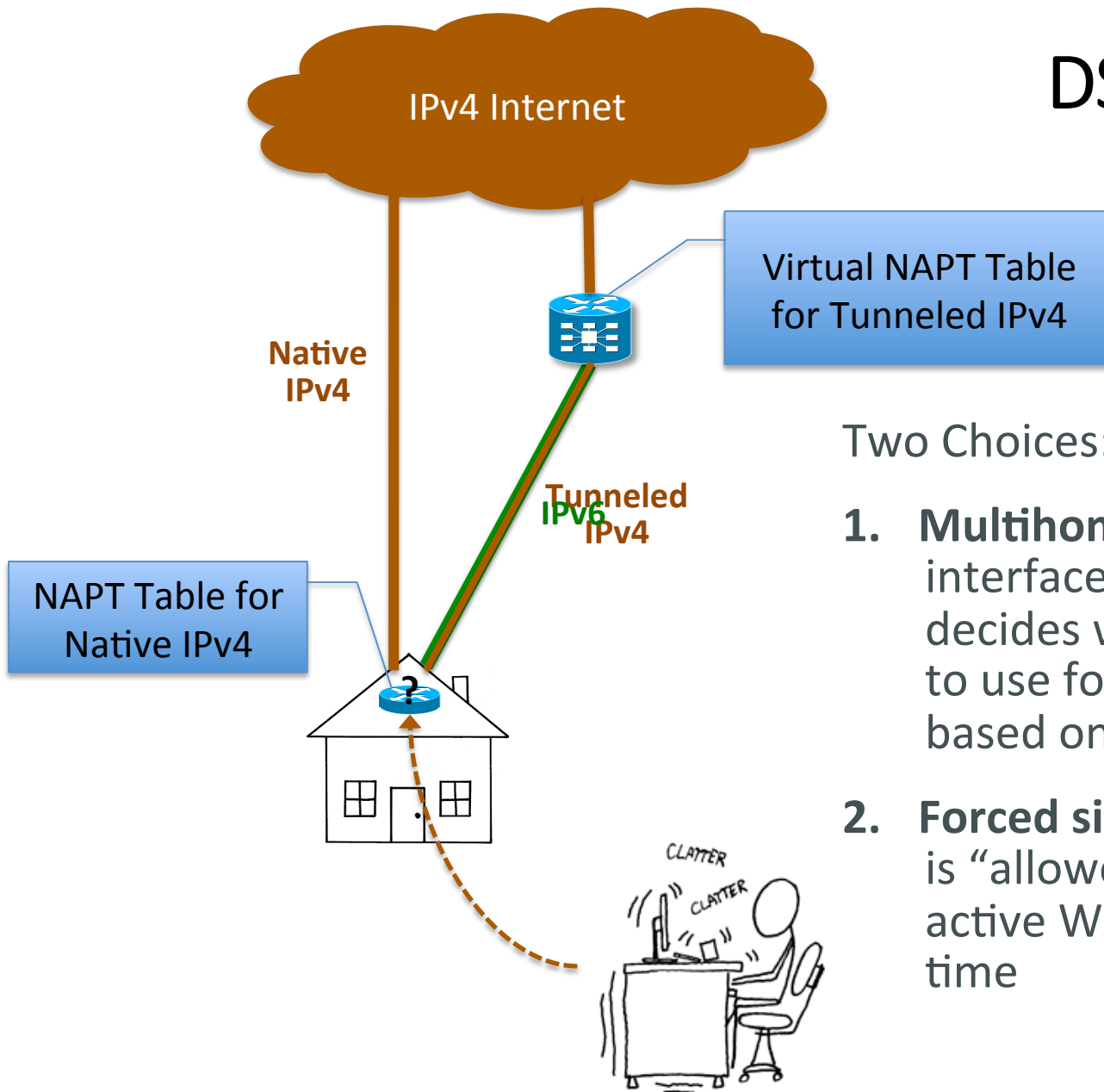




IP Transitioning in CE Routers

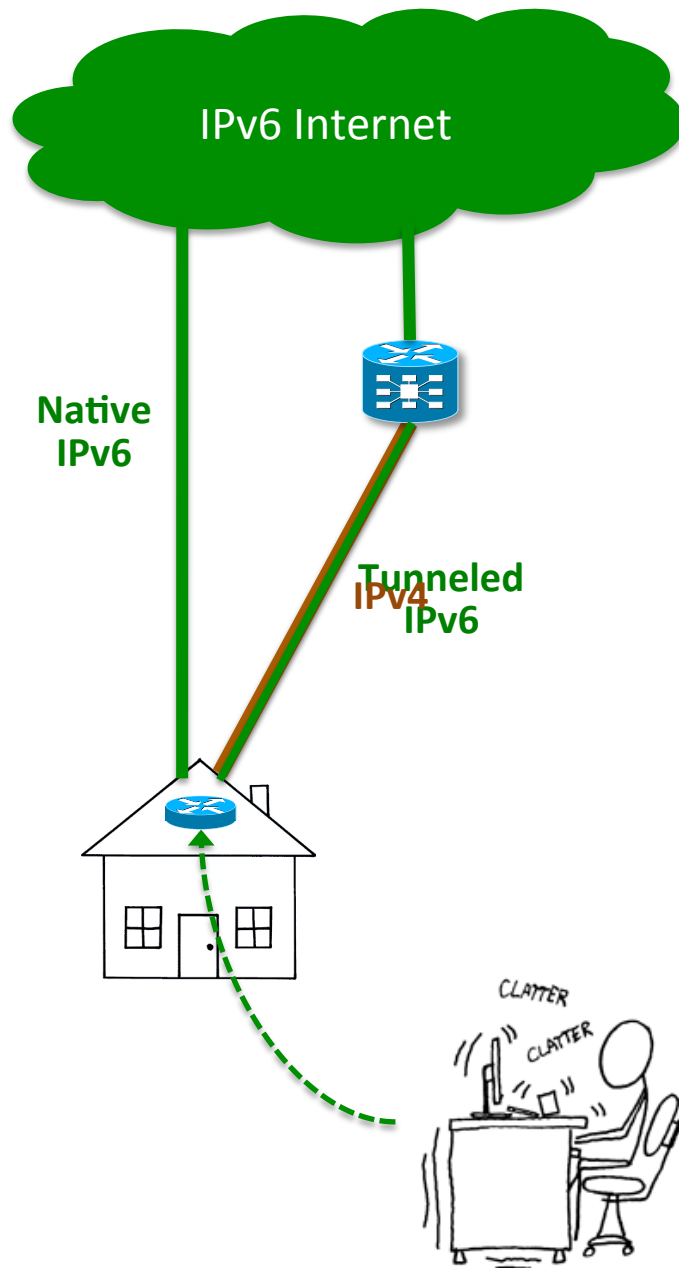
Mark Townsley, Ole Troan

DS-Lite



Two Choices:

1. **Multihoming:** Multiple active interfaces are allowed, router decides which WAN interface to use for upstream traffic based on IP forwarding metrics
2. **Forced single-homing:** Router is “allowed” one and only one active WAN interface at any time

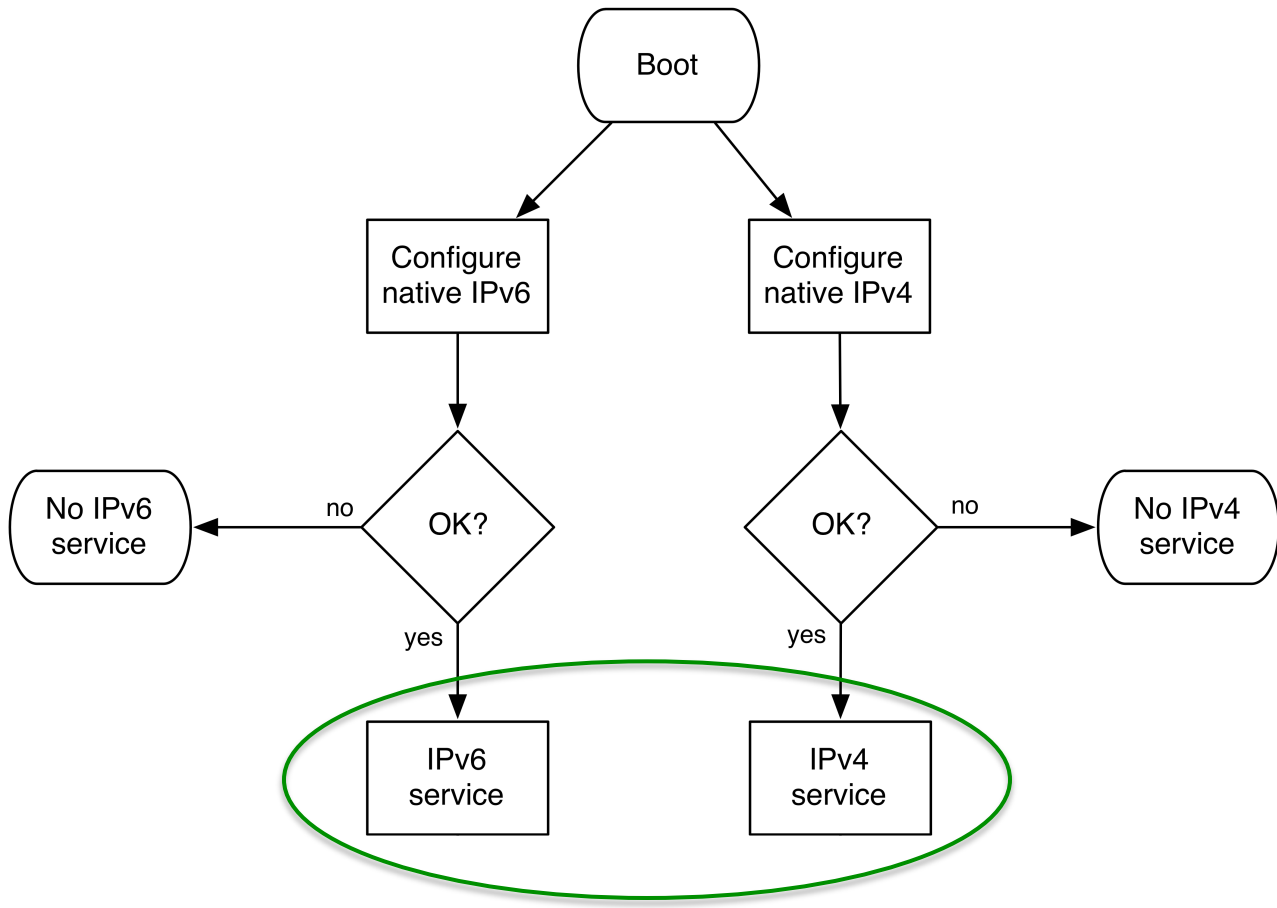


6rd

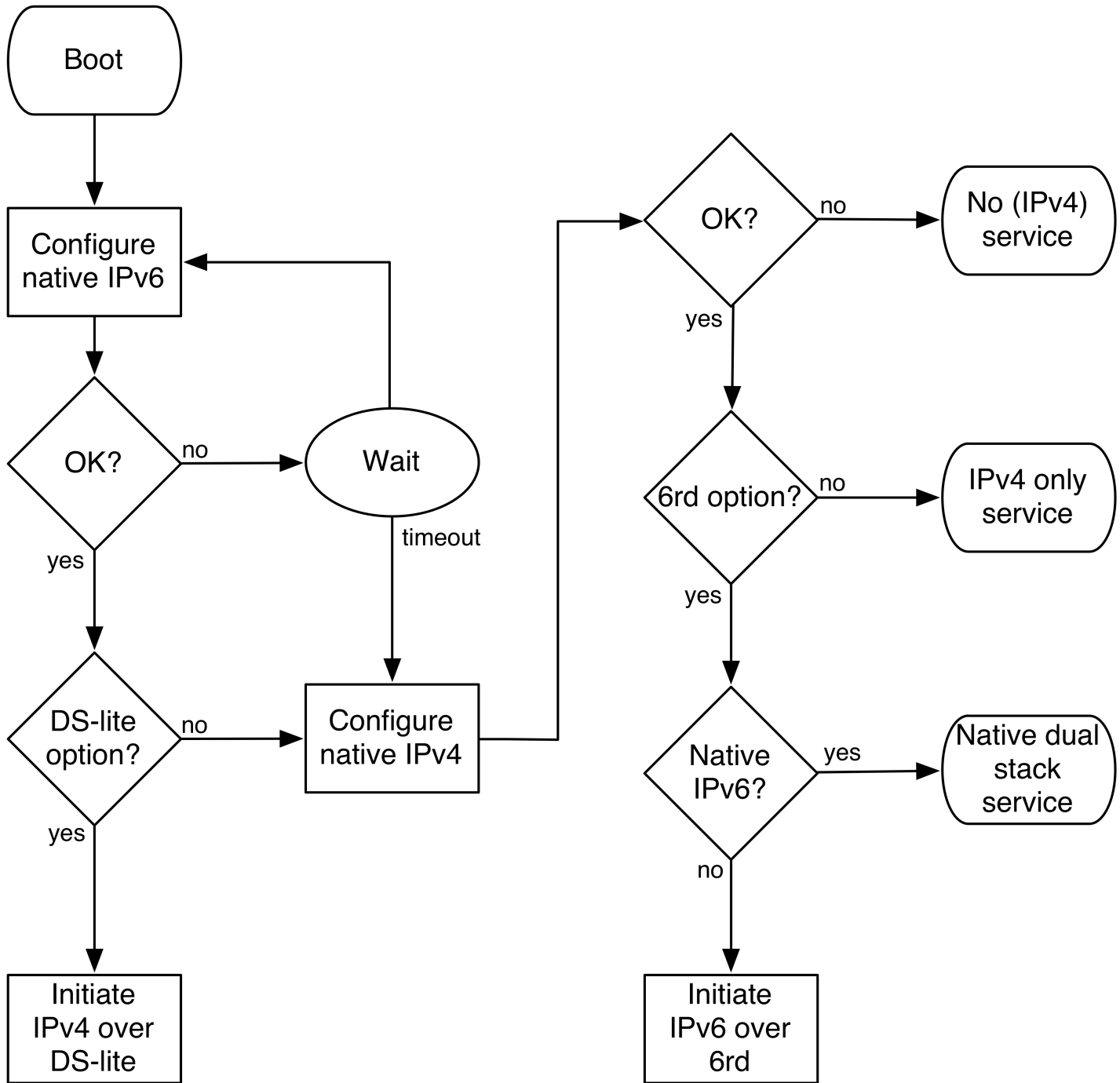
Same Two Choices:

1. **Multihoming**
2. **Forced single-homing**

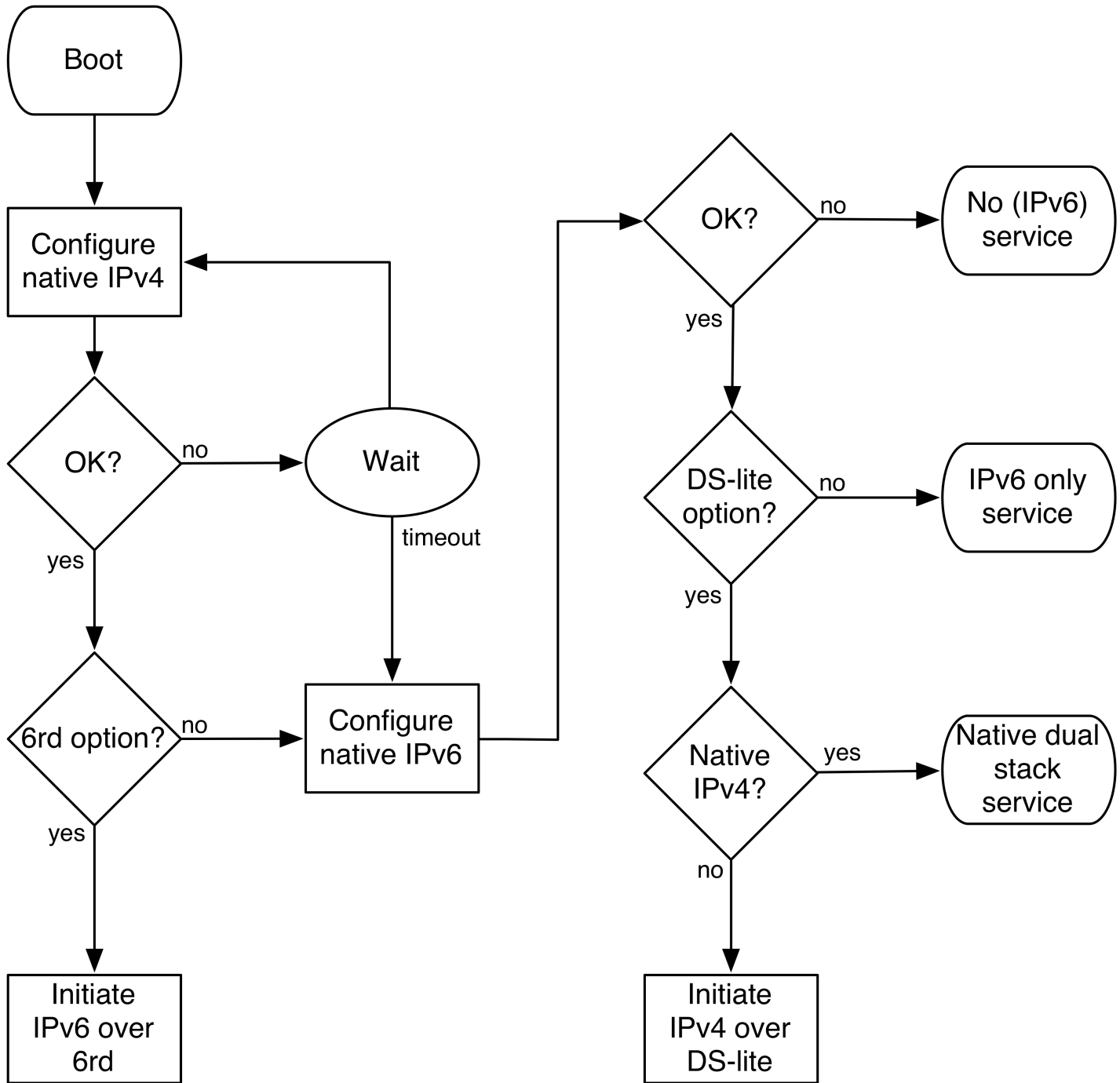
IP WAN Interface Config w/ Multihoming



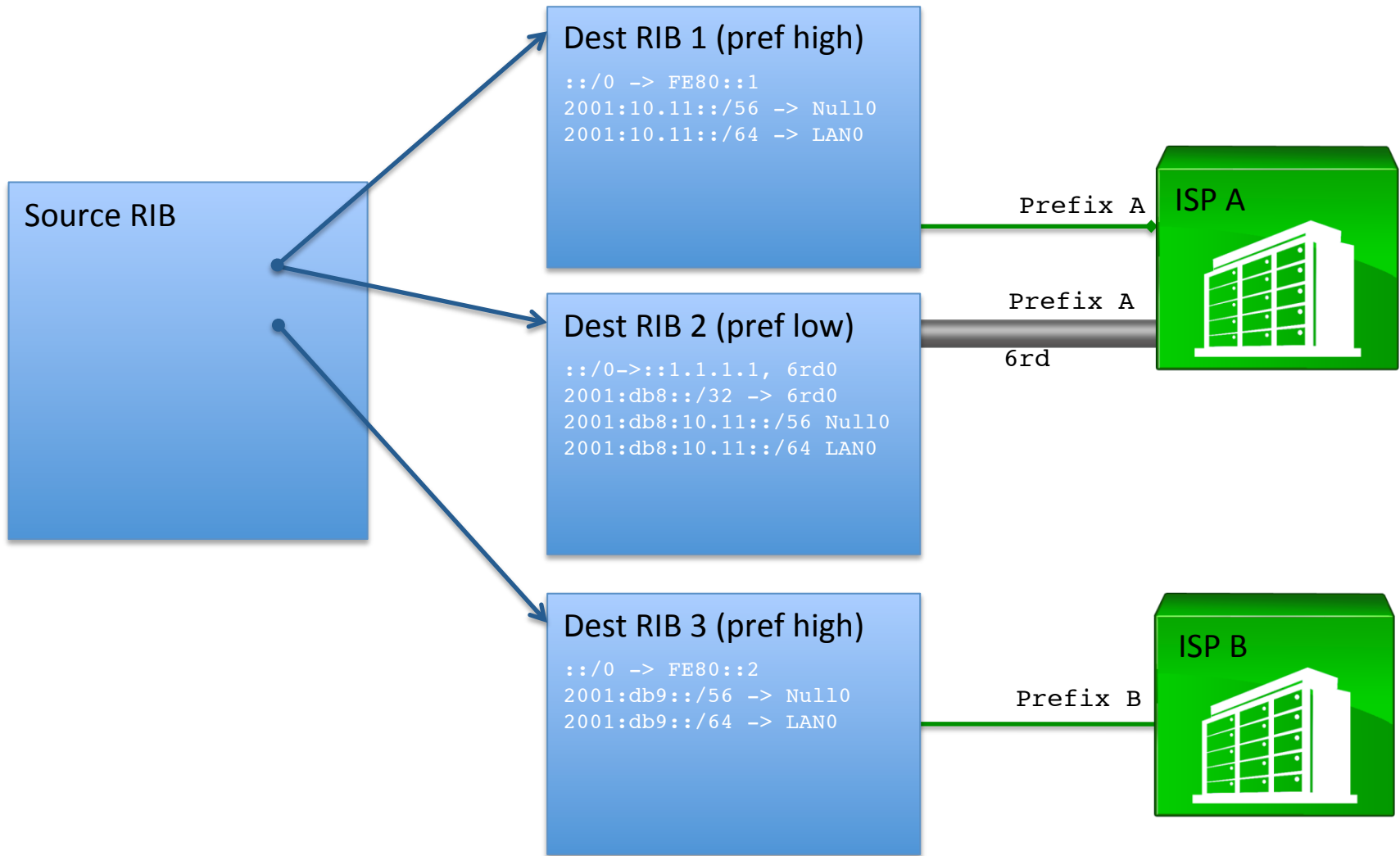
w/Forced Singlehoming (1)



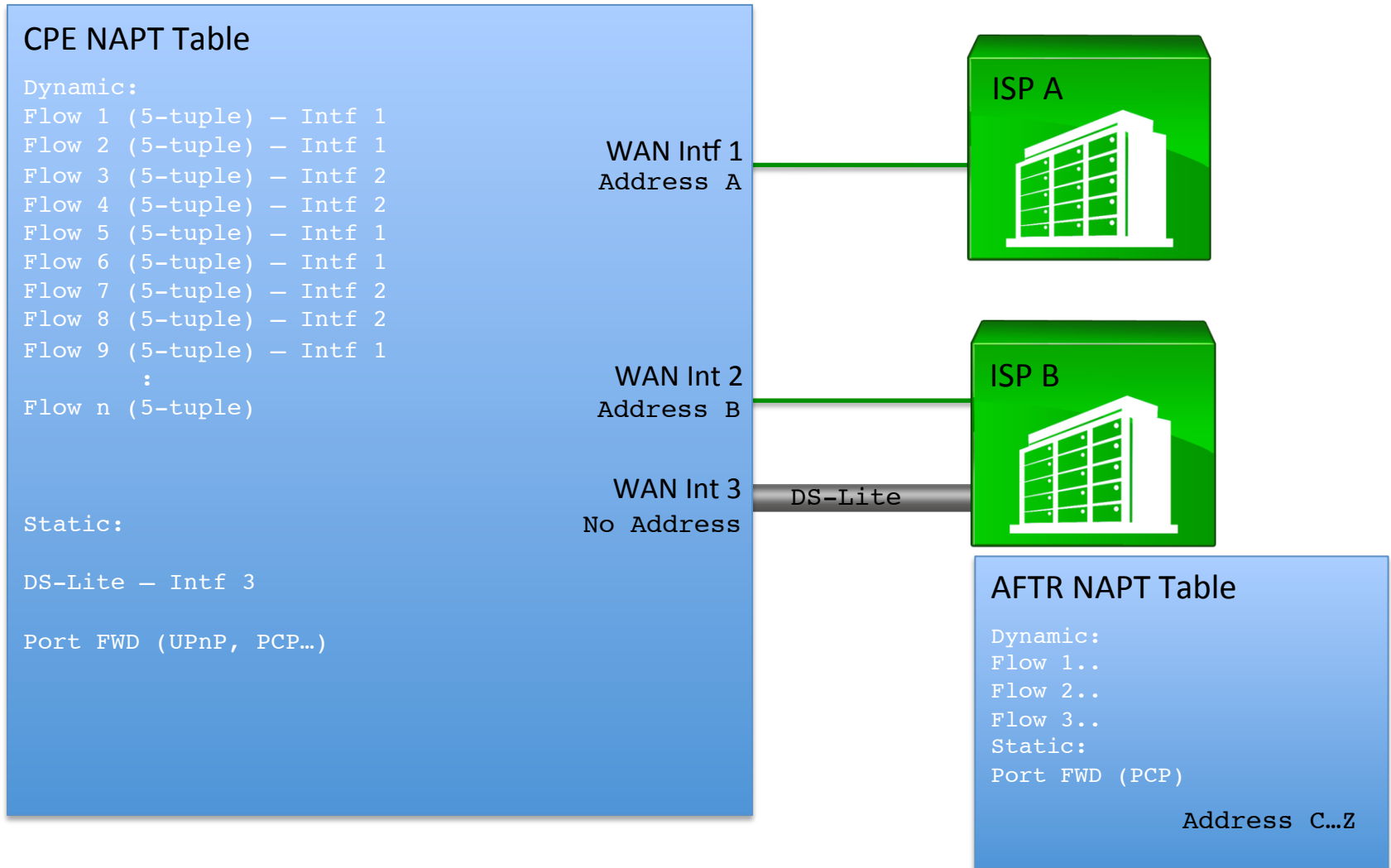
w/Forced Singlehoming (2)



IPv6 Forwarding w/Multiple Exits (Multihoming)



IPv4 Forwarding w/Multiple Exits (one example)



Load Balance Broadband Router TL-R470T+

Google product search



TP-Link TL-R470T+ Dual Wan Load Balance Broadband Router

\$43 online

 +1 Recommend this on Google

TL-R470T+ by TP-LINK (Factory New) The TL-R470T+ Load Balance Broadband Router possesses stronger data transmission capacity and stability, cost-efficient for networks in places such as Internet cafes and small oces. It brings you high return on investment with low overhead. Management: QoS, Web-based Management, Remote Web Management, DHCP.



What for 6204-bis?

- Current text states CE Routers SHOULD implement DS-Lite and 6rd, but avoids how they interact with one another as well as with Native IPv4 and Native IPv6.
- Specify in the “Transition” section that IP interface configuration remain independent (as with Native Dual-Stack), ruling out “forced singlehoming”
- In order to support Multihoming:
 - **For 6rd:** draft-townsley-troan-ce-transitioning specifies 3 Multihoming requirements, and 3 “6rd sunsetting” requirements. Adopt these in some form.
 - **For DS-Lite:** Require that IPv4 “dual-wan” functionality be employed and identify that operational issues surrounding “disabling IPv4” are out of scope but could be of concern (MAX_SOL_RT for IPv4 as well?).
- Or, move the “Transitioning” solution space to a new document.