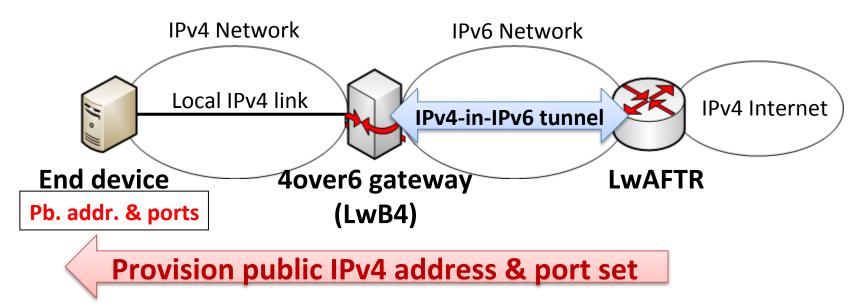
Gateway-Initiated 4over6 Deployment

draft-chen-softwire-gw-init-4over6

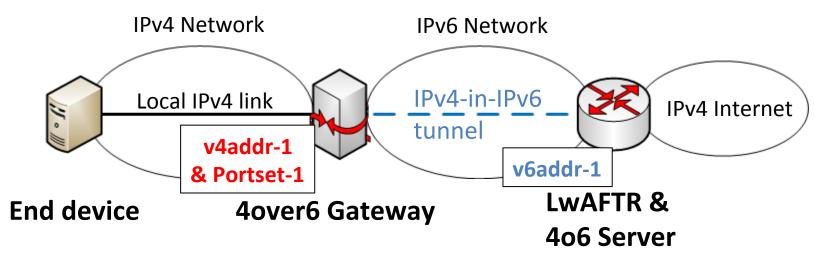
Yuchi Chen (Presenter)
IETF 87 in Berlin, Jul. 2013

GI-4over6 Scenario

- Typical Lw4over6 Scenario
 - IPv4 address and port set is provisioned to the lwB4
- GI-4over6 Scenario
 - IPv4 address and port set is provisioned to the device behind the 4over6 gateway (lwB4)

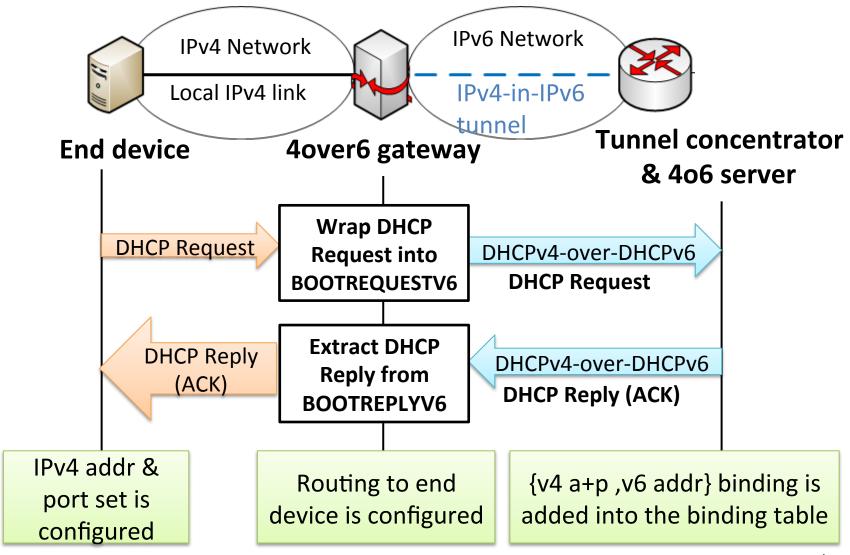


Necessary Assumption



- Configuration on 4over6 Gateway in advance
 - Provisioned with tunnel endpoint addr v6addr-1 (DHCPv6)
 - Provisioned with an public IPv4 addr & port set v4addr-1 & Portset-1 (DHCPv4-over-DHCPv6)
- 4o6 Server is implemented on LwAFTR
- Multiple end devices behind the same 4over6 GW will not be provisoned with the same shared IPv4 address

Control Plane Behavior



Data Plane Behavior

- End device
 - Sends v4 packets using the v4addr & port set that it has been assigned
- 4over6 Gateway
 - Encapsulates outbound v4 packets & decapsulates inbound v4-in-v6 packets
 - Uses a routing table indexed by v4addr & port set to deliver inbound v4 packets
 - Performs no NAPT44 function
- LwAFTR
 - No difference with the behavior of LwAFTR in original lw4over6

Next Step

- Any interest to continue this work?
- Comments?