# Sharing /64 3GPP Mobile Interface Subnet to a LAN

draft-byrne-v6ops-64share-03
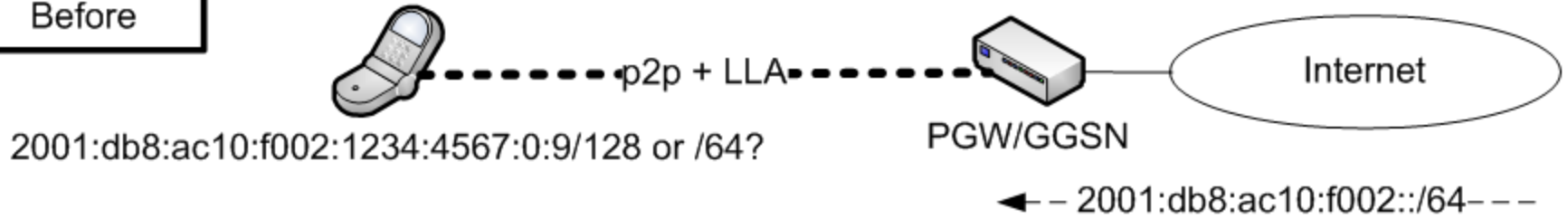
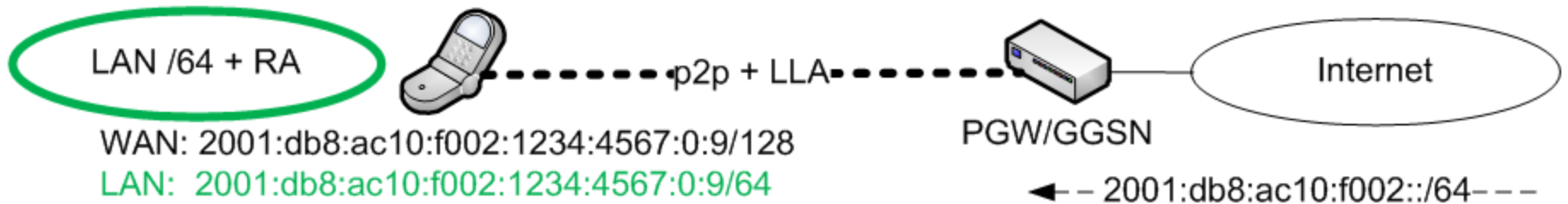Cameron.Byrne@t-mobile.com

# DHCP-PD not soon, /64 share today

- DHCP-PD is only available in Release 10 of 3GPP standards, optional function, no network kit support available today (AFAIK), or perhaps any time soon (AFAIK)
- DHCP-PD is the best, but an interim solution is needed for now and for networks not on the bleeding (this works with 2G too)
- /64 sharing is viable for nodes that have been available for 5+ years, LTE iPad on VZW already does something akin to this proposal
- Open-source Android code published
  - https://android-review.googlesource.com/#/c/38380/
- Nexus S builds
  - http://dan.drown.org/android/clat/

# Change at the UE, no change towards network

**Before**

2001:db8:ac10:f002:1234:4567:0:9/128 or /64?

p2p + LLA

PGW/GGSN

Internet

← − − 2001:db8:ac10:f002::/64 − − −

**After**

LAN /64 + RA

WAN: 2001:db8:ac10:f002:1234:4567:0:9/128
LAN:  2001:db8:ac10:f002:1234:4567:0:9/64

p2p + LLA

PGW/GGSN

Internet

← − − 2001:db8:ac10:f002::/64 − − −

# Next Steps

- Technical feedback?

- Working group document?