

**draft-byrne-v6ops-clatip-00**

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# Problem Statement

- On a 464XLAT (RFC6877) CLAT, such as a mobile phone, an IPv4 address must be presented to host networking stack so that IPv4 sockets can be formed
- That IPv4 address should be unique and dedicated so that it does not collide with other devices (meaning, no RFC1918)

# Possible Solution Set

1. Generalize the DS-lite (RFC6333) dedicated range (192.0.0.0/29) to be for transition infrastructure – a more general definition
  - a) Opportunity to generalize a solution rather than enumerate new solutions
  - b) .1 and .2 are reserved for well-known Ds-lite functions, make .4 SHOULD be used for CLAT
2. New IANA reservation for IPv4 /32

# Will this break things?

- No, neither DS-lite nor 464XLAT emit these packets on the wire
- Both systems are IPv6 end-to-end, so there is no scenario where they could collide

# Is this deployed already? Yes

These images found on the internet -- random Note3 users



# Next Step

- WG document to solve problem statement?
- Generalize by using 192.0.0.0/29 or new unique IANA reservation?