

Advancing DHCPv6 to Internet Standard

IETF-117 (San Francisco), DHC WG
Monday July 24, 2023

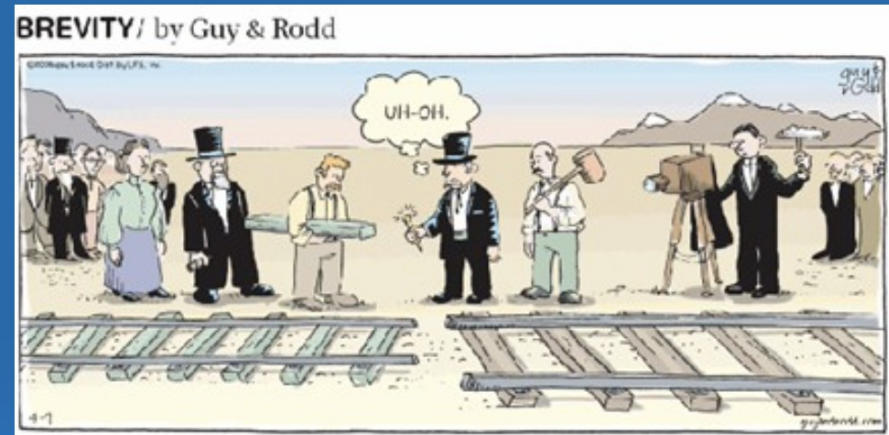
Last Edit: 2023-07-21 09:00 (TW)

Motivation for Advancing DHCPv6 to Internet Standard (from Proposed)

- DHC Charter
 - The third item main objective in the DHC charter states:

Issue an updated version of the DHCPv6 base specification, and after an appropriate interval following publication, advance to Internet Standard.

Standards? Who needs standards?



Pay now or pay later...

Published -01/02

- Obsoleted UseMulticast status code (-01)
- Added Implementation status Section 22
 - Will be removed before publication, it is intended for IESG evaluation
 - Referenced 7942 “Improving Awareness of Running Code: The Implementation Status Section”
 - Comments and corrections are welcome for this section!

What's left?

- RFC8415 does not address or describe linked DHC state machines such as might occur in a home router that is both a DHCPv6-PD client (to the ISP), and also a DHCPv6-PD server (to the WAN).
- RFC8415 does suggest that it is inappropriate to issue a DHCP Release for downstream assignments that still have valid lifetimes. At that time of writing that was imagined to constrain RAs and DHCPv6-IA_NA allocations, but it applies equally well to DHCPv6-PD. Informative references to newer documents are desired, but it is unclear if we can do this without creating a downref.
- Informative References
 - Do we want to add some informal references to newer RFCs to refer readers?

Next Steps

- Once we finalize informal references, publishing 03
 - Planning to do so before IETF 118.
- Send to the IESG
 - Planning to do so before IETF 119.