Advancing DHCPv6 to Internet Standard

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