Prefix Assignment in DHCPv6

draft-ietf-dhc-host-gen-id

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This document introduces a new DHCPv6 procedure to configure hosts' IPv6 addresses. In this new procedure, the prefix is assigned from a DHCPv6 server through DHCPv6 protocol while the interface identifiers are independently generated by the hosts.

- New Identity Association for Prefix Assignment Option (IA_PA). The format has been deliberately designed to be the same with IA_PD option [RFC3633]
- The IA_PD Prefix and IA Address sub-options from IA_PD option are also reused. However, the two options are different on the semantics and usage models.
Update since WGLC

- WGLC from Aug. 13 to Aug. 27 on draft-ietf-dhc-host-gen-id-02
  - 5 supports for advancing our document, technical comments from Bing Liu, Gaurav Halwasia, Andre Kostur, and objection from Bernie Volz
- **03 version is submitted Aug. 21, major different:**
  - Refine the description of motivation
  - The client needs to include an IA_PA with IAID specified. There is no prefix announcement/advertise model
  - Add procedures after prefix-associated times expire
  - Clarify the return status code when no proper prefix - NoPrefixAvail
Update since WGLC (2)

- **04 version is submitted Aug. 30, major different:**
  - Move Applicability section earlier in the draft to help clear the motivation & scenarios
  - Remove announce/advertise model
  - Host request include an IA_PA with IAID (ORO is not enough)
  - Add consideration for the scenario that an IA_PA capable client connects to a non IA_PA capable DHCPv6 server
  - Add description why L flag and A flag, comparing to RA, is not needed
  - Add a note for PD_EXCLUDE option
- **Authors believe that all received comments have been properly addressed**
- Questions, clarifications?
- Next step?