Registering Self-generated IPv6 Addresses using DHCPv6

draft-wkumari-dhc-addr-notification-06

W. Kumari, S. Krishnan, R. Asati, L. Colitti, J. Linkova
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Changes since IETF 115: Message Renamed

Change the message name:

- From “ADDR-REG-NOTIFICATION” to “ADDR-REG-INFORM”
- Better term as it’s an INFORMational message from the client
Changes since IETF 115: Server Acknowledgement

Adding an optional “Reply”:

“The server MAY choose to acknowledge receipt of an ADDR-REG-INFORM message by sending a REPLY message back. The REPLY message only indicates that the ADDR-REG-INFORM message has been received. It MUST NOT be considered as any indication of the address validity.”

“If the acknowledgement is received, the client MUST stop retransmission”
Changes since IETF 115: Retransmit logic

Aligned retransmit logic with standard RFC8415 behaviour

To reduce the effects of packet loss on registration, the client SHOULD retransmit the registration message. Retransmissions SHOULD follow the standard retransmission logic specified by section 15 of [RFC8415] with the following default parameters:

- IRT 1 sec
- MRC 3

The client SHOULD allow these parameters to be configured by the administrator.
Changes since IETF 115: “release” functionality

“Release” functionality:

- Sending a new ADDR-REG-INFORM message with preferred and valid lifetime set to zero.
What we didn’t do (comments not addressed):

Switches/router sending ADDR-REG-INFORM on client’s behalf

- Seems overly complicated
  - The message should be sent from the new IP address
    - Would require routers/switches to spoof the address…

DHCP over TCP

- Also seems too complicated
Next Steps

Adoption call