A Generic IPv6 Address Registration Solution Using DHCPv6

draft-ietf-dhc-addr-registration

IETF 86 DHC WG
March 14, 2013

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What has changed?

- This draft has been largely rewritten based on the dhc and v6ops discussions in Atlanta and subsequently on the mailing lists
  - Special thanks Ted Lemon, Bernie Volz, Sten Carlsen, Erik Kline, Lorenzo Colitti, Joel Jaeggli, Sten Carlsen, Mark Smith and other members of dhc and v6ops working groups who provided valuable comments

- The main premise of the change is to de-emphasize the host initiated registrations and focus on edge-router initiated registrations

![Diagram of address registration procedure]

Figure 1: Address Registration Procedure
Change details

• Replace the unicast DHCPv6 communication by the standard DHCPv6 client/server communication - send packets to ff02::1:2, the All_DHCP_Relay_Agents_and_Servers multicast address
  – No longer need the address/FQDN in solicitation option
• The solicitation option is only used for informational purposes
  – Used to notify clients that the server can accept registration requests
• Define a new "Addr-registration-request message" message type, that only contains IA_NA option(s) and client-identifier without server-identifier option
• The acknowledgement has been changed to optional
• Define two new DHCPv6 Status codes, the RegistrationNotSupported and RegistrationDenied, to indicate errors
Next steps

• Please send us any comments that you have on the new revision
  – As always, your comments are greatly appreciated

• The authors believe that the document is ready for WGLC