DHCPv6/SLAAC Interaction Operational Guidance (draft-liu-v6ops-dhcpv6-slaac-guidance-03)

Bing Liu

Ronald Bonica

Tianle Yang

IETF 91@Honolulu, Nov 2014

Reminder

- Discussed in IETF89&90
  - Supportive comments were received in mailing list and at the mikes
  - People in overall thought this document was useful
  - Main concern in last meeting was the readability
- The new 03 version
  - re-organize the content for better readability
  - deleted some redundant content (mostly the Problem Statement iteration)
  - not a few re-wording

Guidance Content

- **Always Turn RAs On**
  - RAs are required even in DHCPv6-only scenarios for off-link default routing configuration
- **Guidance for Address Provisioning Scenarios**
  - DHCPv6-only
  - SLAAC-only
  - DHCPv6/SLAAC Co-existence
- **Guidance for renumbering operations**
  - Adding a new address from DHCPv6 (SLAAC) for a SLAAC (DHCPv6) configured host
  - Switching DHCPv6 (SLAAC) provision to SLAAC (DHCPv6) provision

Guidance Update

- Renumbering Guidance
  - If administrators need DHCPv6/SLAAC co-existence
    - make sure that SLAAC and DHCPv6 available simultaneously at the initial stage
    - since SLAAC-only to SLAAC/DHCPv6 co-existence renumbering operation might be inapplicable for some hosts
  - If administrators need to switch DHCPv6 off
    - don't directly turn the M flag off in RAs, since some operating systems will release DHCPv6 addresses immediately, which mean a flash renumbering happens
    - just stop the DHCPv6 server and let the configured DHCPv6 addresses expired themselves

Next Steps

Adopted as a WG item?

DHCPv6/SLAAC PS WGLC Summary

- There were some concerns on the Problem Statement aspect that they thought the problems were minor

- There were some supportive suggestions:
  - to focus on the testing which was considered should be the actual content of the draft
  - to include more testing content (RDNSS Option VS DHCPv6 interaction)

Next Step

- Choice 1: to accept the suggestions, and try another WGLC after revising the draft
- Choice 2: to move forward the draft as it is now

Which one do you prefer?

Thank you!

IETF91@Honolulu