

Client FQDN Options

IETF 60 (San Diego)

Bernie Volz

Cisco Systems



draft-volz-dhc-dhcpv6-fqdn-00

Based on DHCPv4 draft

Option format:

```
OPTION FODN
                                option-len
   flags
+-+-+-+-+-+-+-+
                    domain-name
    (per section 8 of RFC 3315 w/non-terminal partial names)
flags:
                     S=Server requested to do updates
                     O=Server overrides client
                     N=No server updates requested
```

DHCPv6 - Typical Operation

- Client sends SOLICIT & REQUEST with Client FQDN option in IA_NA
 - Domain name contains desired host name
 - Flags S-bit set
- Server sends ADVERTISE & REPLY with a unique Client FQDN option for every assigned address in IAADDR options
 - Domain name is FQDN for address
 - Flags S- and O-bits set



DHCPv6 - Typical Operation

- For RENEW and REBIND, client includes Client FQDN in IA_NA (for new addresses) and IAADDR options (for existing FQDNs)
- IA_TA can also include Client FQDN options (like IA_NA) based on RFC 3041
- No optimization each IAADDR with DNS name must have Client FQDN option in messages



DHCPv6 Option - Next Steps

- Feedback and comments on draft desired
- Need to update conflict resolution draft to include DHCPv6 update rules
 - More complex because of multiple addresses per client possible
- Take on as Working Group item?



draft-ietf-dhc-fqdn-option-07

- Reworked abstract & introduction based on comments from Ralph Droms while writing the DHCPv6 Client FQDN draft
- Removed text that referenced the DDNS conflict resolution draft
- Added a new section (7) to provide an informational reference to the DDNS conflict resolution draft
- Other minor edits and updates (boilerplate, etc.)
- Next Step Ready for IESG?

draft-ietf-dhc-ddns-resolution-07

- Reworked section 6.3 to clarify A RR update procedure and fix incomplete reference
- Other minor edits and updates
- Next step Needs AAAA update procedures



draft-ietf-dnsext-dhcid-rr-08

- Reworked table in section 3.3, type codes
- Added RFC 3315 and 3315ID Draft for DUID references
- Other very minor edits (boilerplate, etc.)
- Next Step Ready for IESG (DNSEXT WG issue)?

