

# IETF-104 (Prague)

## DHC WG Next steps

Wednesday, 27 March 2018  
27 March 2019, 0900-1100 (GMT+1)  
Karlin

# DHC WG Charter

The DHC WG is responsible for defining DHCP protocol extensions. Definitions of new DHCP options that are delivered using standard mechanisms with documented semantics are not considered a protocol extension and thus are generally outside of scope for the DHC WG. Such options should be defined within their respective WGs or sponsored by an appropriate AD and reviewed by DHCP experts in the Internet Area Directorate. However, if such options require protocol extensions or new semantics, the protocol extension work must be done in the DHC WG.

The DHC WG has the following main objectives:

1. Work on **informational documents providing operational or implementation advice about DHCPv6**, as well as documents specifying standard mechanisms for operating, administering and managing DHCPv6 servers, clients, and relay agents.

YANG models  
LL assignment

2. **Assist other WGs** and independent submissions in defining options (that follow RFC 7227 guidelines) and to assure DHCP operational considerations are properly documented.

inactive

3. **Issue an updated version of the DHCPv6 base spec**, and after an appropriate interval following publication, advance to Internet standard.

in progress

# Promoting RFC8415 to Internet Standard

RFC6410, Section 2.2:

- (1) There are at least two independent interoperating implementations with widespread deployment and successful operational experience.
- (2) There are no errata against the specification that would cause a new implementation to fail to interoperate with deployed ones.
- (3) There are no unused features in the specification that greatly increase implementation complexity.
- (4) If the technology required to implement the specification requires patented or otherwise controlled technology, then the set of implementations must demonstrate at least two independent, separate and successful uses of the licensing process.

# Intermediate steps (action plan for 2019)

- Publish YANG model for DHCPv6 (v4 as well if there's interest)
- Possibly address currently ongoing work:
  - Any interest in YANG model for DHCPv4?
  - LL assignment over DHCPv6?
  - MRE problem?
- Provide at least 2 full implementations of the RFC8415 spec
- Trigger the full Internet Std promotion procedure

# DHC WG goals and history

- Created 13th of April 1989 (30 years in 3 weeks!)
- We're the oldest WG still running (OSPF concluded)
- 17844 mails on record (posts before 2001 lost in the mist of time)
- Published 100 RFCs

RFC2418, Section 2:

Working groups are typically created to address a specific problem or to produce one or more specific deliverables (a guideline, standards specification, etc.). Working groups are generally **expected to be short-lived** in nature. Upon completion of its goals and achievement of its objectives, the working group is terminated.

RFC2418, Section 4:

**Working groups are typically chartered to accomplish a specific task or tasks.** After the tasks are complete, the group will be disbanded. However, if a WG produces a Proposed or Draft Standard, the WG will frequently become dormant rather than disband (i.e., the WG will no longer conduct formal activities, but the mailing list will remain available to review the work as it moves to Draft Standard and Standard status.)

# What's next after 8415 becomes STD?

## Recharter

- What's the goal would be?
- dhcop (dnsop-alike, focus on operational guidance)
  - is there enough work?
  - Does it belong in IETF (and not RIPE, NANOG etc)?

## Dormant

- Keep the mailing list going
- Don't meet anymore
- People may get confused with this

## Shutdown

- Keep the mailing list going
- Don't meet anymore

Example:

<https://datatracker.ietf.org/wg/behave/>