YANG Data Model for DHCPv6 Configuration

draft-ietf-dhc-dhcpv6-yang-08

Y. Cui, L. Sun, **I. Farrer,** S. Zechlin, Z. He

IETF104 Prague

What's Happened since v06 (presented at IETF101)?

- -07 and -08 updates posted
- Github project set up for the draft at:

  https://github.com/dhcwg/yang

- Extensive reviews of the model by Francis Dupont, Tomek and Bernie (thanks!). Issues raised in the Github issue tracker
- 23 issues closed, 15 open

New since -v06

- Added new DHCPv6 server lease database container
  - Config for: memfile, Postgres, MySQL, Cassandra
- Other items:
  - Small cleanups in model node naming and references
  - Further resolution of issues raised in Github

Where are we now?

- Not much activity on the draft in the last few months
  - Most of the authors listed on the draft have now moved on and are no longer active
- Some of the open issues have been updated, but are awaiting review
- There has been an implementation of YANG model based configuration for ISC Kea. This is mostly implemented by representing the Kea specific representation of configuration commands and objects n YANG, rather than an implementation of the server model in this draft
  - However, this implementation has provided useful feedback for the draft and issues raised are being incorporated

The Problem

- The draft has been in progress for quite a few years now

- Listed on the DHCWG milestones for WGLC in Aug 2018

- Not enough active authors for the amount of remaining work defined in the document scope

Approach 1 – New Authors

- Find new authors and try again with the existing document scope

- Obviously, depends on people willing to work on the draft

- Suggestions for this:
  - Would the reviews/contributors to the Github like to join the authors?
  - Could the models developed in the Kea implementation be incorporated here?

- Anyone in the WG wish to get involved?

Approach 2 – Reduce Scope

- Reduce the scope
  - As a refresher, the initial scope was to try and create a single model for the DHCPv6 protocol as defined in standards track RFCs to date
  - The scope/model gap keeps on growing!
- New scope would need to be discussed, but would aim to provide a basic, functional DHCPv6 client/server/relay model
- This could include:
  - RFC8415 in full
  - Server configuration necessary to make it useful
  - Other DHCPv6 RFCs that are already modelled in full (e.g. RFC7227)
- Remove (define as out of scope) DHCPv6 RFCs which are not currently completely modelled
- Produce new text (appendix?) providing guidelines for future authors of DHCPv6 YANG modules describing how to incorporate them in the base model
- Extra authors would also help here as well

So, how do we proceed?