YANG Data Model for DHCPv6 Configuration

draft-ietf-dhc-dhcpv6-yang-08

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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  • Most of the authors listed on the draft have now moved on and are no longer active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 in 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?