

YANG Data Model for DHCPv6 Configuration

draft-ietf-dhc-dhcpv6-yang-00

IETF94 Yokohama

Major Changes since IETF93

- Omitted the 'feature' structure
 - 'feature' may confuse people
- Resolved the DUID issue (no more than 128 bytes)
 - An union type: **uint16 + ([[0-9a-fA-F]{2}]{2,128})**
- Added 'new-or-standard(-cli)-option' container
 - New options: defined for **extensibility**
 - Standard options: **generic form** to configure
- Added 'interfaces-config' in server
 - Which interface/unicast address to listen on
- Fixed YANG code grammar errors
 - <http://www.claise.be/IETFYANGPageCompilation.html>

Comparison of -00 Model to Implementations

- Comments from Huawei:
 - Relay server group: important in carrier network
 - Suggested IP Pool as a separated module
 - Generic form to configure options – See next slide
- Differences to ISC Kea server configuration:
 - Data nodes: global or local
 - Rapid commit, renew time, rebind time and etc.
 - Custom options configuration is missing
 - Generic form to configure options – See next slide

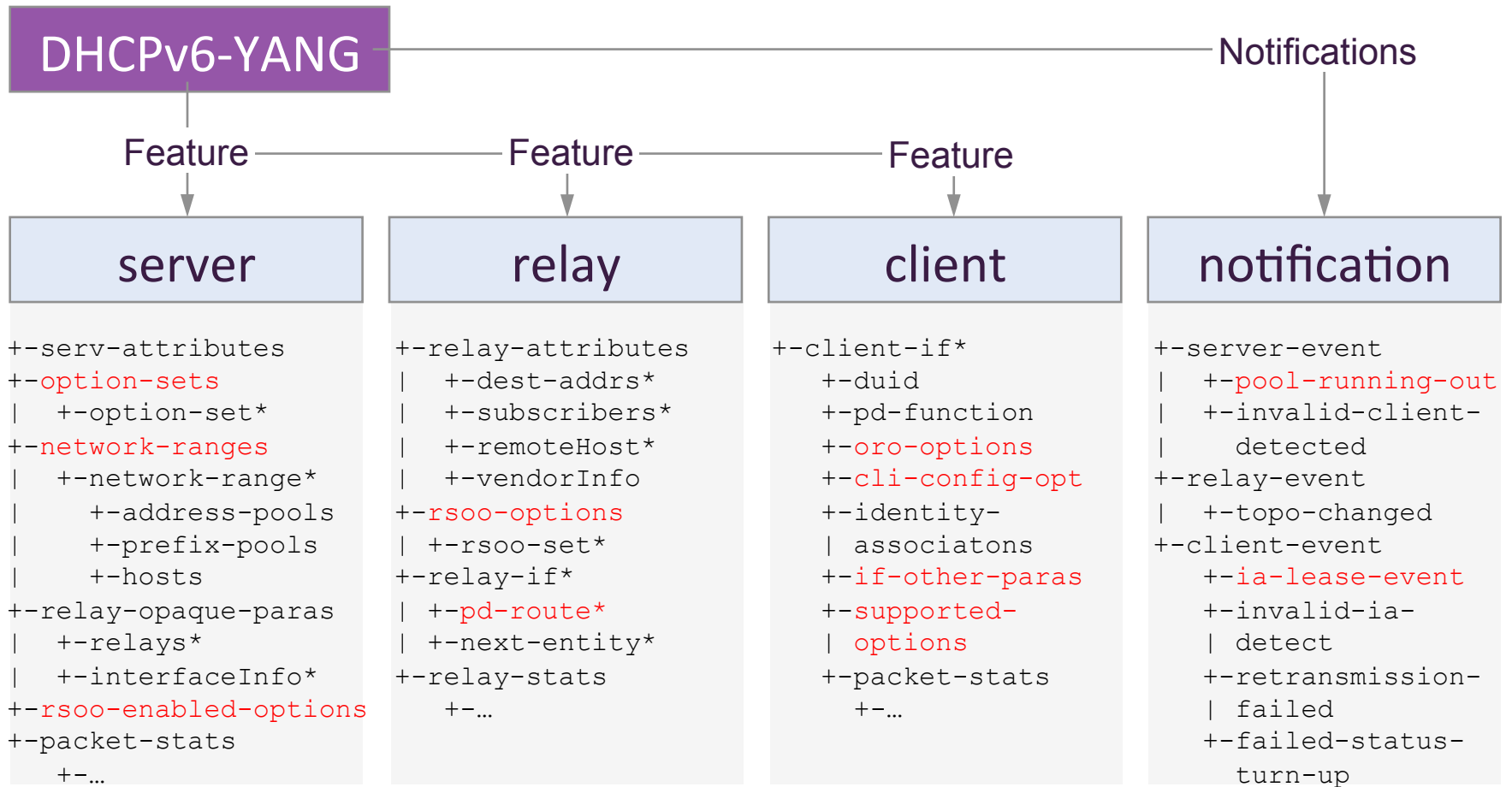
Definition of new, or vendor-specified options

- Propose that the model is extended to include the generic option formats described in RFC7227
 - 5.1. Option with IPv6 Addresses
 - 5.2. Option with Single Flag (Boolean)
 - 5.3. Option with IPv6 Prefix
 - 5.4. Option with 32-bit Integer Value
 - 5.5. Option with 16-bit Integer Value
 - 5.6. Option with 8-bit Integer Value
 - 5.7. Option with URI
 - 5.8. Option with Text String
 - 5.9. Option with Variable-Length
 - 5.10. Option with DNS Wire Format Domain Name List

Next Steps

- Continue look at other implementations
 - Any other volunteer/implementations?
- Any other comments?

(bk)Model Structure



(bk)Abstract Server Model Structure

