DNS_PUBLIC_AUTH_SERVER

draft-mglt-dhc-public-authoritative-server-option-00.txt

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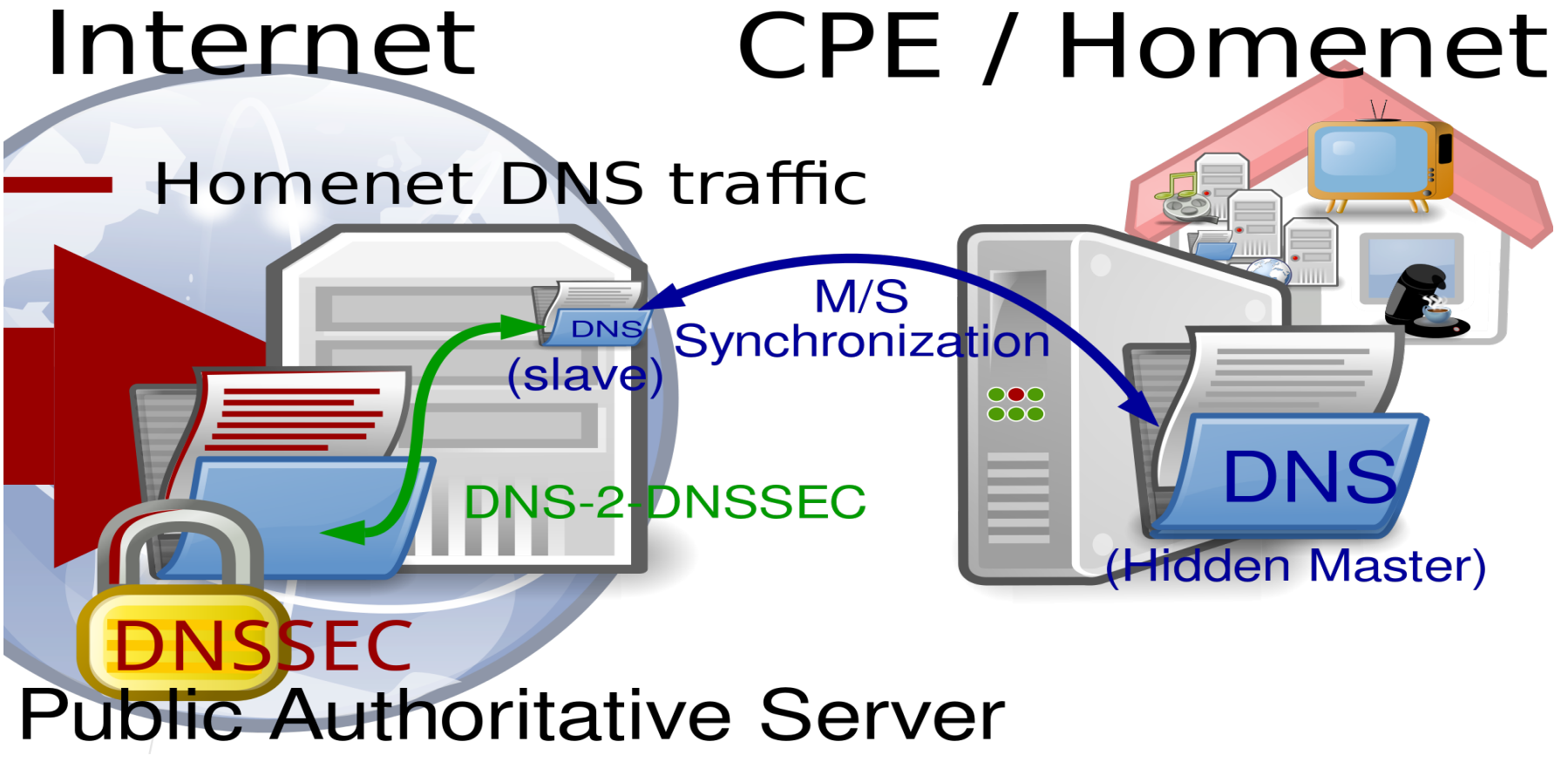
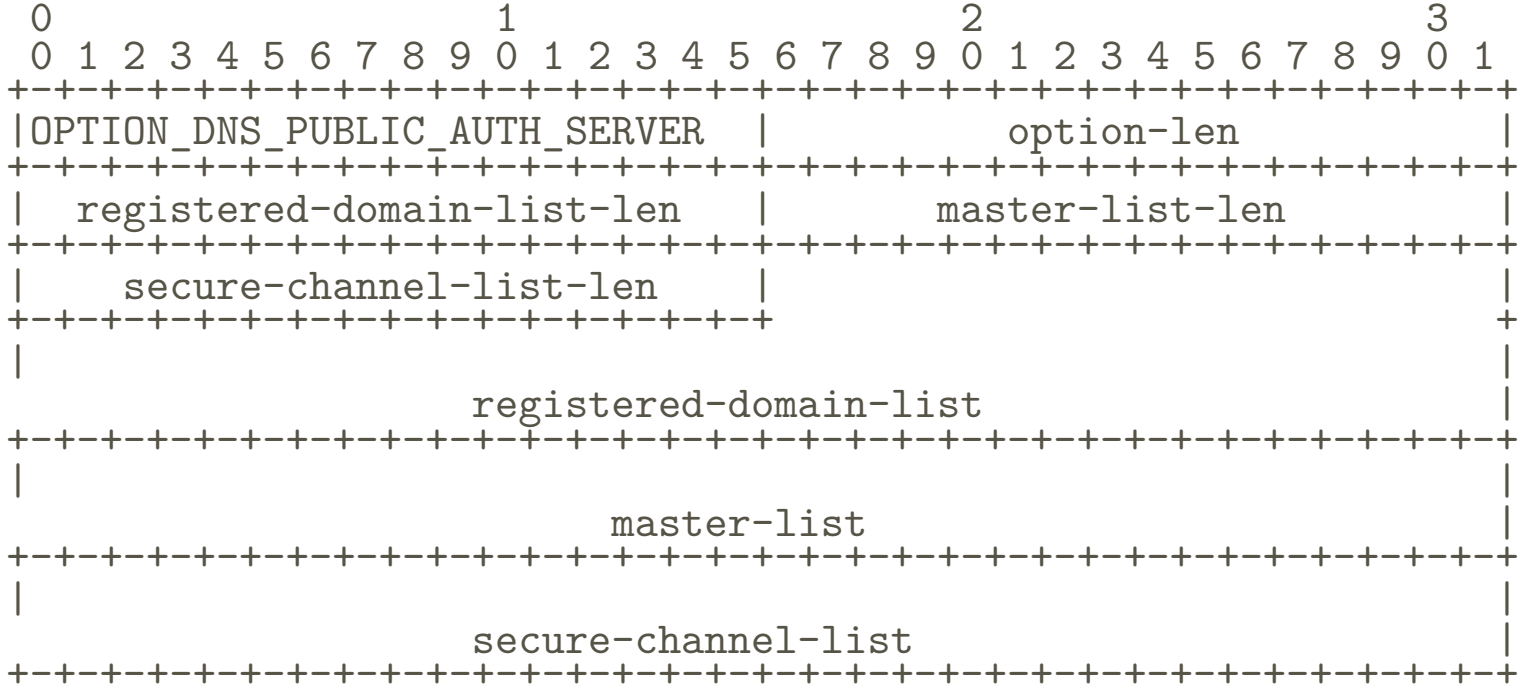
Architecture Description

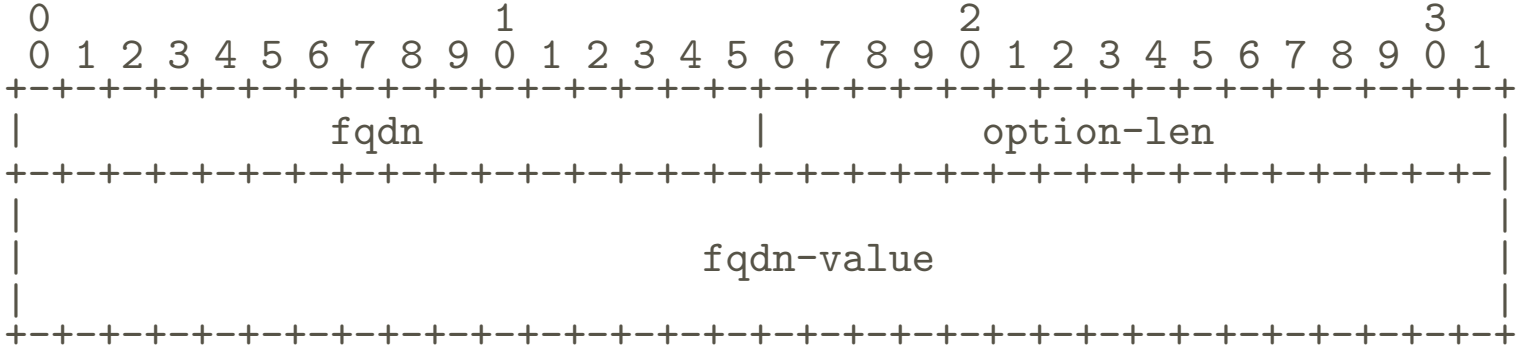


OPTION_DNS_PUBLIC_AUTH_SERVER

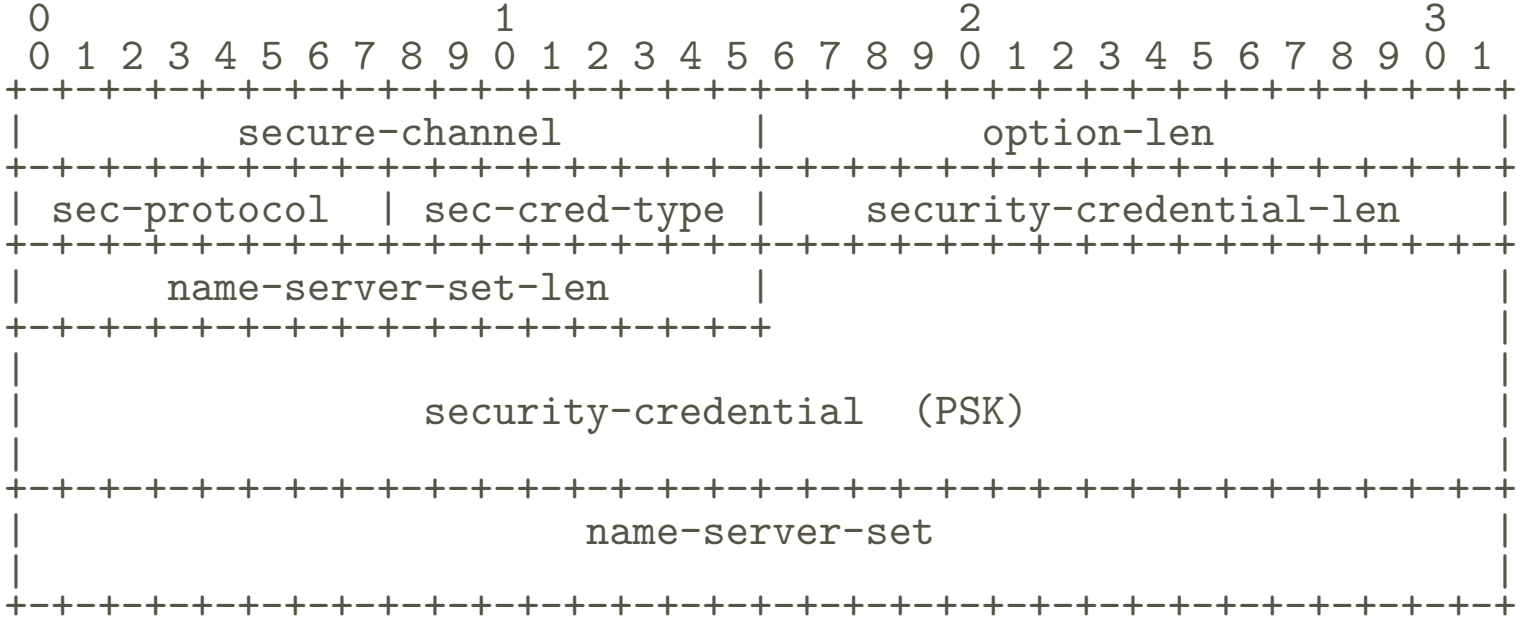
One or multiple OPTION_DNS_PUBLIC_AUTH_SERVER can be provided



registered-domain-list / master-list



secure-channel-list payload



Reformating the Option

Our understanding for 01 (Guidelines for Creating New DHCPv6 Options)

- registered-domain-list
  - Option with DNS Wire Format Domain Name List
- master-list: (FQDN and IP addresses)
  - Currently we use only FQDNs
  - "Choosing between FQDN and address" advises to add IP addresses
  - Can we define:
    - Master FQDN Option: Option with DNS Wire Format Domain Name List (single element)
    - Master IP addresses Option: Option with IPv6 addresses
    - Master Option: encapsulation of Master FQDN Option and Master IP addresses Option
    - Master List Option: Encapsulation of Master Option

Reformating the Option

- secure-channel-list
  - Currently a very specific option
  - Is there any place for a protocol class options?
  - Can we define:
    - Security Protocol Option: Option with 8-bit integer value
    - PSK Option: Option with variable length data
    - name-server-set: cf master
    - Secure-Channel Option is an encapsulation of the Security Protocol Option, the PSK Option and the name-server-set Option.

Next

The following phases are:

- Edit the DHCPv6 Client Behavior Text and DHCPv6 Server Behavior Text
- Get the option accepted in the Homenet WG
- Submit the draft for review to the DHCP Directorate

Thank you for your attention