

Homenet Naming DHCP Options

draft-mglt-homenet-naming-architecture-dhc-options-02
draft-mglt-homenet-front-end-naming-delegation-04

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Scope of the Document

End users outsource their Home Network Authoritative Naming Service

- [draft-mglt-homenet-front-end-naming-delegation](#)

The configuration **MUST** be automatic

This document defines DHCP Options to automatically outsource the Home Network Authoritative Naming Service

Scope of the Document

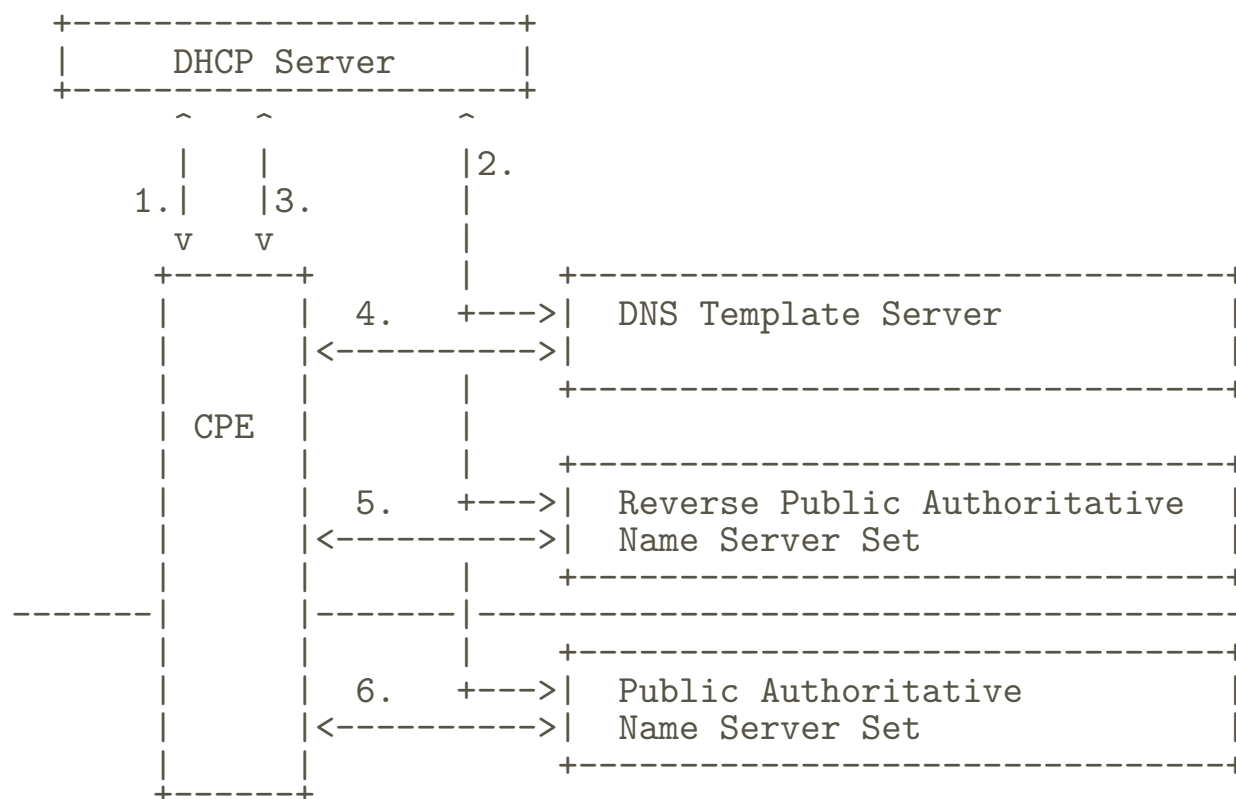
DHCP Options are:

- Not restricted to [[draft-mgmt-homenet-front-end-naming-delegation](#)]
- Future update mechanisms can be added in the future
- Designed for any DHCP client (CPE or any other node)

Motivations for these DHCP Options are:

- ISP have to provide such mechanisms (at least for the reverse zone)
- Avoid installation of program by end users on homenet boxes
- Avoid configuration issue by the end user on homenet boxes (Hot Line)
- Enable "non opened" CPE to easily outsource to any third party

Architecture Overview



Next

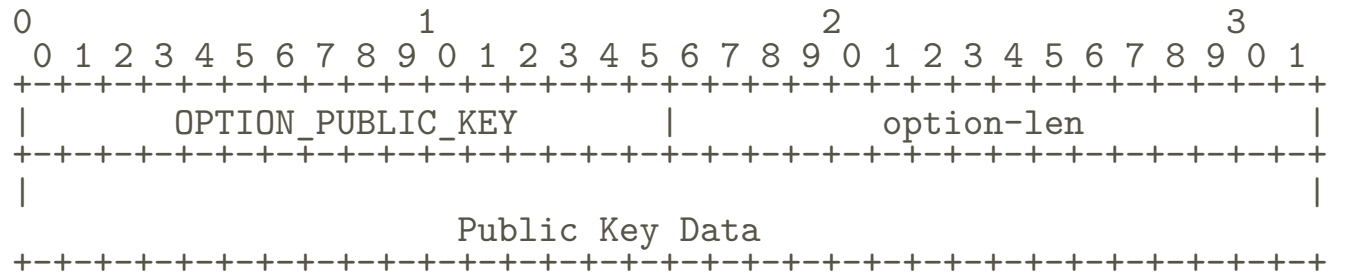
Current version:

- Takes in account all received comments
- DHCP Options have been designed with the DHC WG
- Achieve Zero / Once-for-all configuration goal
- Document how registrars benefit from these options

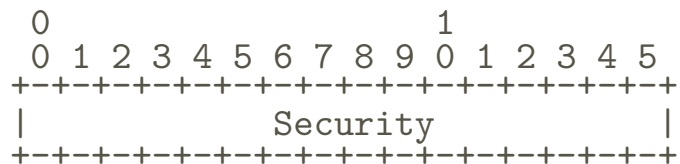
Question:

- A single key to authenticate the transaction with the various servers.
 - ▶ Means a single device proceeds to all transactions to Public Authoritative Name Server Set, Reverse Public Authoritative Name Server Set and DNS Template Server
- Should we have different key for each transaction?

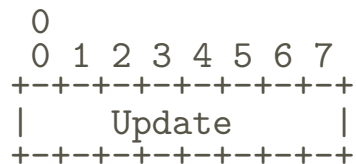
OPTION_PUBLIC_KEY



Security / Update Field

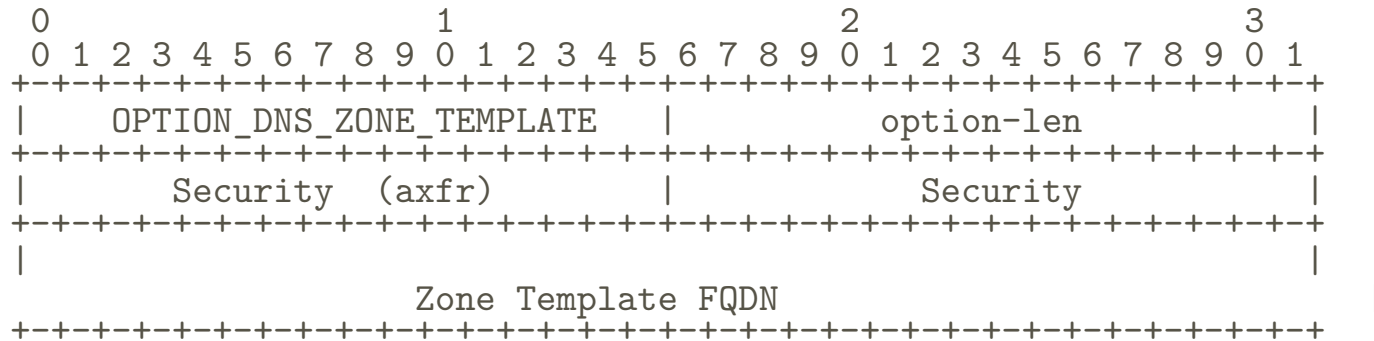


- DNS (Bit 0)
- DNSSEC (Bit 1)
- SIG(0) (Bit 2)
- TSIG (Bit 3)

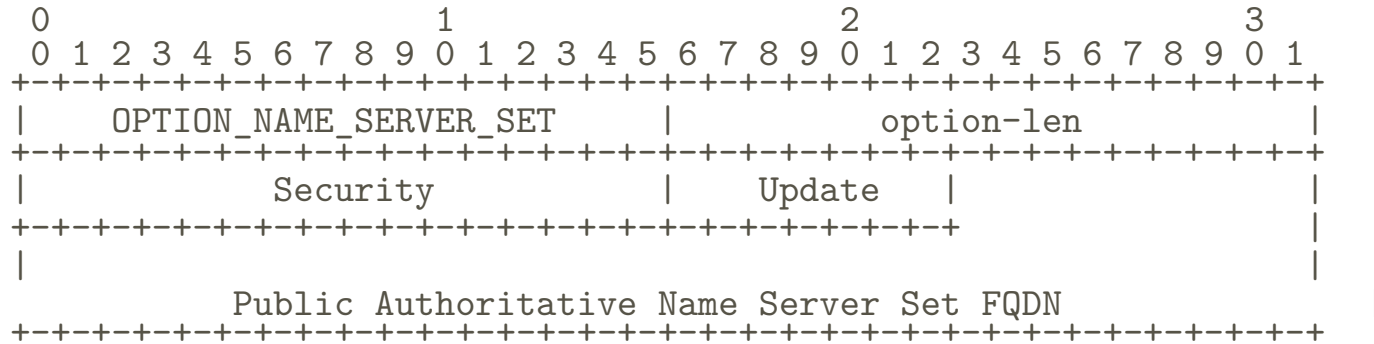


- Master / Slave (Bit 0)
- DNS Update (Bit 1)

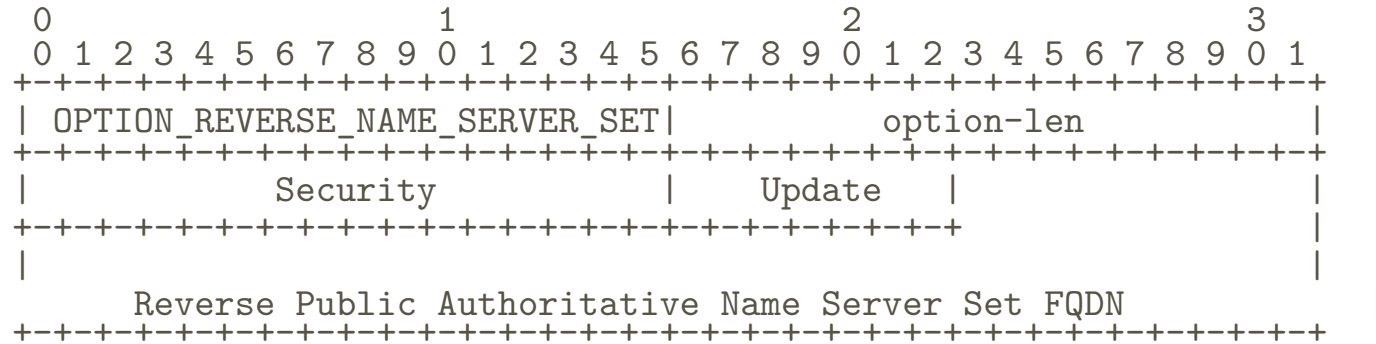
OPTION_DNS_ZONE_TEMPLATE



OPTION_NAME_SERVER_SET



OPTION_REVERSE_NAME_SERVER_SET



Thank you for your attention