DHCPv6 NTP Option
draft-gayraud-dhcppv6-ntp-opt-00.txt

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Problem Statement

- Network operators like to centrally configure IP services through DHCP

- DHCPv6 options are added to offer NTPv4 client configuration
Requirements

• Advertise NTP servers location

• Address both Public Internet and Private networks (Enterprise/Campus/ISP) requirements

• Configure NTP parameters to fine tune NTP traffic vs. Clock accuracy
Design alternatives (1)

NTP Servers location

- IPv6 address, FQDN, both

- We must avoid the risk of amplified NTP catastrophic event
Design alternatives (2)

NTP parameters

• None

• Enough to fine tune the NTP clients

• Suggestions for more parameters are welcome
Design alternatives (3)

Options Syntax

• List of structs (records) are not usual in DHCP

• Hence the use of multiple instances

• Sub-options would be nice and easier to extend
How to move forward

- Adopt as a WG item?
- Rework parameters
- Rework options syntax
- Include Autokey (Is Key-ID sufficient)
Thank You!