

DHCPv6 NTP Option

draft-gayraud-dhcpv6-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 !