

DHCPv6 NTP Option

draft-gayraud-dhcpv6-ntp-opt-00.txt

Richard Gayraud, Benoit Lourdelet
dhc WG group
ntp WG group
IETF 70, 2007/12/4

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

DHCP Requirement

Options Syntax

- List of structs (records) are not usual in DHCP
 - Use of multiple instances
 - Sub-options ? Order of options ?

How to move forward

- A second iteration of the draft to address comments
- Rework parameters
- Rework options syntax

Thank You !