NTPv5 Requirements

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NTPv5 Requirements

Lets keep NTP packet very simple as NTPv3 and move rest to a new packet type which can be robust, reliable and scalable ☺

– NTP header + MAC fields will be same as NTPv3, backward compatibility can be provided(UDP)

– Extensions, NTP OAM, Security Control data exchange can be a separate packet with pure TLV format and with on demand TCP connection)

NTPv5 Requirements

NTP can be transport layer independent
- NTP could be run on UDP,TCP & RawIP etc…

NTP must be scalable in case of access/Aggregation network & must be reliable in core network

Inter Domain NTP server issues must be addressed
- Reliability
- Scalability
- Availability
- Reach ability

NTPv5 Requirements

Similar to Inter domain routes and Intra domain routes can NTP servers and its credentials can be advertized in OSPF and BGP ? As of now we have broadcast/Multicast & Many cast.

Need very strong OAM for NTP

Any Network accident due to NTP has consumed lot of time due to lack of In built OAM support by NTP.

Conclusion

Lets collect our feature and changes as a desire list for NTP and lets see what's feasible and how to achieve it in NTPv5 ☺

Thanks