Network Time Protocol WG

March 9, 2004

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Agenda

1300	Intro/Agenda bashing	Chairs
1310	NTP WG Status and Charter	Chairs
1330	NTP Work Plan	Chairs
1340	NTPv4 Scope and Requirements	D. Plonka
1400	NTPv4 Protocol Specification	Chairs
1430	Discussion and Wrapup	Chairs

NTP WG Status

- We are an official working group. (IESG notice sent 2/25/05)…
- We are already a bit behind schedule…
- We have editor(s) defined for all documents, and they are eagerly awaiting your contributions…
- Need to make minor corrections to POC information in published charter… (mailing list, Karen's email addr)

NTP WG Charter

The Network Time Protocol (NTP) is widely deployed and used in the Internet. However, the standardization status of this protocol has lagged in the IETF. RFC 1305 (NTP version 3) was published in March 1992 and remains unchanged and at Draft Standard status. RFC 1305 represents the majority of full NTP Implementations deployed today. RFC 2030 (SNTP version 4) was published as an Informational RFC in October 1996 as a lightweight version of NTP for deployments not requiring the full functionality of NTP. SNTP now represents the majority of both NTP traffic and NTP implementation issues on the Internet. A good deal of work has been produced in the NTP community updating both NTPv3 and SNTPv4. This work is ongoing and available through the collaborative development effort in the NTP community, but it has not been reflected back into the NTP specifications.

NTP WG Charter (cont)

The goal of this working group is to document NTPv4 based on the extensive work of the NTP community and to advance the standardization status of NTP. It is an explicit goal of this effort to have NTPv4 interoperate with the deployed base avoiding any backwards-incompatible changes.

A number of topics have been raised as potential work items for an update to NTP including support for IPv6, security considerations including authentication, automatic configuration including possible requirements for DHCP, and algorithm improvements. This working group will focus first on delivering NTPv4 and will defer additional development efforts until after the delivery of NTPv4. Support for IPv6 and defining mechanisms for securing NTP transactions is considered part of the core NTPv4 functionality. Potential further modifications and additions to the NTP protocol will be documented for possible further work beyond the initial NTPv4 effort.

Charter - Deliverables

1. NTPv4 Scope and Requirements Document (documenting the scope of the NTPv4 update and identifying issues deferred for future work).

2. NTPv4 Protocol Specification (documenting the protocol on the wire)

3. NTPv4 Architecture and Algorithms Specification (documenting the architecture, mathematical algorithms, and behavior of NTP servers and clients)

4. NTPv4 MIB (provision for management and monitoring of NTP via SNMP)

(NTP DHCP Option – not identified as an explicit deliverable in the charter, but considered an essential work item)

Charter - Goals and Milestones

Nov 04	NTP BOF at IETF 61 (completed)
Feb 05	NTP WG Charter Approved (completed)
Mar 05	Draft of Scope and Requirements Document
Mar 05	Draft of NTP Protocol Specification
May 05	Draft of MIB Specification
Jul 05	Draft of NTP Algorithms Specification
Sep 05	WG Last Call Scope and Requirements Document
Nov 05	WG Last Call NTP Protocol Specification
Mar 06	WG Last Call NTP MIB Specification
May 06	WG Last Call NTP Algorithms Specification

NTP WG Work Plan

Document	Editor(s)
NTPv4 Scope and Requirements	Dave Plonka
NTPv4 Protocol Specification	Jim Martin, Jack Burbank
NTPv4 Architecture and Algorithms Specification	Harlan Stenn, Bill Kasch
NTPv4 MIB	Tim Plunkett
NTPv4 DHCP Option	Rob Nagy

NTPv4 Protocol Specification

- Status of SNTP update
  - draft-mills-sntp-v4 has been approved as an Informational RFC.
  - The RFC Editor is working with Dave Mills to get it published.
  - There were issues with this draft identified by the IESG.
  - It is expected that the standards track version of NTPv4 will address these issues.
- Starting point for NTPv4 Protocol Specification
  - Updated SNTP RFC (to be published soon)
  - RFC 1305
  - Unpublished draft from stime wg
  - November presentation from Dave Mills

Wrap-up

Any final comments/discussion/questions???

NTP WG Mailing list: ntpwg@lists.ntp.isc.org
(https://lists.ntp.isc.org/mailman/listinfo/ntpwg)

NTP WG Web Site: https://ntp.isc.org/bin/view/IETF/WebHome

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