Network Time Protocol BOF

November 11, 2004

Brian Haberman
brian@innovationslab.net

Karen O’Donoghue
karen.odonoghue@navy.mil

Agenda

1300	Intro/Agenda bashing	Chairs
1305	Goals/Purpose/Charter Intro	Chairs
1320	Status of stime WG	Pat Cain
1330	NTP Standardization Issues	Dave Plonka
1345	Evolution of NTP since RFC 1305	Dave Mills
1430	Working Group Charter Discussion	Chairs
1500	Adjourn	

References

- **RFC2030 Simple Network Time Protocol (SNTP) Version 4 for IPv4, IPv6 and OSI D. Mills October 1996 INFORMATIONAL**
- RFC1708 NTP PICS PROFORMA - For the Network Time Protocol Version 3 D. Gowin October 1994 INFORMATIONAL
- RFC1589 Kernel Model for Precision Timekeeping D. Mills March 1994 ASCII INFORMATIONAL
- **RFC1305 Network Time Protocol (Version 3) Specification, Implementation D. Mills March 1992 DRAFT STANDARD**
- www.ntp.org
- ntp.isc.org
- www.eecis.udel.edu/~mills/ntp.html

Motivation/Goals

- Separate protocol (and thus interoperability aspects) from architecture and algorithms (behavior and performance)
- Update status of NTP in the IETF standards process
- Documentation/Addition of the following functionality:
  - IPv6
  - Security considerations
  - Autoconfiguration
  - Algorithm improvements

Draft 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 was published in March 1992 and remains unchanged and at Draft Standard status. A good deal of work has been produced in the NTP community over the years, but this work has not been reflected back into the NTP specification. The goal of this working group is to update the NTP protocol specification and advance the standardization status of NTP based on the extensive work from the NTP community.

The work items identified for an update to NTP include: 1) support for IPv6; 2) security considerations; 3) automatic configuration; and 4) algorithm improvements. This working group will identify modifications and additions to the NTP protocol, document what is in the scope of this update, and produce a series of updated NTP specifications.

Draft Charter Tasks

The NTP working group will complete the following tasks:

- Produce a document to identify and scope the technical work items for an update to NTP
- Produce an NTP Protocol Specification
- Produce an NTP Architecture and Algorithms Specification
- Produce an NTP MIB

Draft Charter Milestones

- Nov 2004 NTP BOF at IETF 61
- Feb 2005 NTP WG Charter Approved
- Mar 2005 Initial Draft of Scope Document
- Mar 2005 Initial Draft of NTP Protocol Specification
- May 2005 Initial Draft of MIB Specification
- Jul 2005 Initial Draft of NTP Algorithms Specification
- Aug 2005 WG Last Call Scope Document
- Aug 2005 WG Last Call NTP Protocol Specification
- Oct 2005 WG Last Call NTP MIB Specification
- Dec 2005 WG Last Call NTP Algorithms Specification

Your questions and thoughts…