



## **Network Time Foundation 2016 Accomplishments**

### **Technical Milestones**

- 5 stable releases of NTP
  - January 7: ntp-4.2.8p5 was released with 2 low & medium security fixes, and minor bug fixes and improvements.
  - January 19: ntp-4.2.8p6 was released with 9 low & medium security fixes and 2 security mitigations.
  - April 16: ntp-4.2.8p7 was released with 11 low & medium security fixes, and minor bug fixes and improvements.
  - June 2: ntp-4.2.8-p8 was released with 1 high & 4 low security fixes, and minor bug fixes and improvements.
  - November 21: ntp-4.2.8-p9 was released with 1 high, 4 medium & med/low, and 5 low security fixes, and minor bug fixes and improvements.
- NTS (Network Time Security; the replacement for Autokey) began Phase 2 development in January and was completed in June. Phase 3 development is due to be completed in February 2017.
- PTPd version 2.3.2 was released with new features in February.
- Linux PTP v1.7 was released in July, and v1.8 was released with new features in November.
- Harlan, Danny and Sue attended all three IETF NTPWG (NTP Working Group) meetings. Additionally, NTF attended monthly NTS Design Team meetings.
- In October, Harlan attended an NTS Design Team meeting and IETF NTP WG in Boston.

## **Company**

- Our second annual financial audit was completed in September with Richard Brewster, CPA.
- Revised formal Project Plans for:
  - NTP
  - Ntimed
  - NTS
  - Privilege Separation
  - Ntp.conf
  - General Timestamp API
  - PTPd, Linux PTP
  - Certification & Compliance
  - Stratum 0
- In June, our ISC-based computer images were brought online at Markley Cloud Services. In September, we completed our ISC data center move with hardware, going from
- from ISC to ServerCentral in Chicago. The hardware and services at ServerCentral, Chicago are online with a few projects still to be completed. Thanks to Joe Greco for all of his help.
- Additional contractors: Aly Towry (Controller), Steve Sullivan (Development).
- Several new volunteers were signed up to assist in various aspects of the organization.

## **Revenues**

- Corporate donations and grants were received from Google, Qihoo/360 and NetBSD. Markley Group provided cloud services and ServerCentral provided Hosting.
- Several renewed and new individual members, as well as many new individual donors.
- New institutional members: Spectracom, Blue Coat Systems and Resilient Navigation and Timing Foundation - all at the Associate Level.
- We were accepted into the Combined Federal Campaign in May and participated in several charity fair kickoffs in Northern California.
- Our 2016 revenues increased by 10% over 2015, putting them at almost \$212,000.

## In the News

- *What is Internet Time?* was presented at the Computer Science Hall at Southern Oregon University in January.
- Harlan presented NTF's General Timestamp API Project at the [Science of Time Symposium](#) in Cambridge, Massachusetts 5-9 June.
- *InfoWeek* published the following articles in March, both by Charles Babcock:
  - March 28th - [Harlan Stenn Tackles NTP Security Issues as Big Move Looms](#).
  - March 29th - [How Network Time Foundation Uses Its Funding](#).
- Harlan presented NTP and General Timestamp API at The National Space-Based Positioning, Navigation and Timing (PNT) [Advisory Board meeting](#) on December 7th in Redondo Beach.

## Other Press

- April 28: *Linux.com* article about NTF's NTP Project and our on-going goals and challenges.
  - [Network Time Keeps on Ticking with Long Running NTP Project](#)
- November 8: Article about CFC charity fair at Beale AFB. NTF is pictured.
  - [Beale Makes Giving a Priority](#)
- November 11: *Ford Foundation* [Report on our Digital Infrastructure](#), mentioning NTF..
  - Titled: Roads and Bridges the Unseen Labor Behind our Digital Infrastructure.
- November 28: *InfoWorld* article by Fahmida Y Rashid on NTF's financial weakness and possible impact on the Internet.
  - Titled: [Time is Running out for NTP](#)