NTP Requirements

Network Time Protocol Working Group
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NTP Requirements

- Requirements Gathering
  - Scope
  - Players
- Applications
- Algorithm Requirements
  - Accuracy, drift, skew, etc.
- Protocol Requirements
  - Configuration
  - System Performance
  - etc.

NTP Requirements

- Requirements Gathering: Scope
  - Is WG scope limited to exising (non-IETF) NTPv4-satisfied requirements?
    - Are we standardizing existing practice?
    - What to do with "requirements" that are not satisfied by current implementation

NTP Requirements

- Requirements Gathering: Who are the players?
  - Algorithm
    - NTP Community
    - NTP-funding Organizations?
  - Protocol
    - NTP Community
    - STIME folks?
    - Internet Service Providers
    - NTP-funding Organizations

NTP Requirements

- Applications

  - What key applications **require** time synchronization?

  - Commodity operating systems and other SNTP Clients

NTP Requirements

- Configuration
  - Manual
    - Service Advertisement
  - Automatic
    - Discovery
  - Vendor Pre-configuration
  - Administrative Domains
    - Public and private deployments
  - Key Distribution

NTP Requirements

- System Performance
  - Scalability
  - Client Requirements
  - Server Requirements

NTP Requirements

- Security
- IPv6
- Robustness
  - client/peer rejection
- Longevity / Persistence
  - Reconfiguration

NTP Requirements

- Other authors for requirements draft?
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