Scalable, High Speed Time Synchronization (D012)

New ideas
- Dynamic peer discovery using engineered multicast schemes
- Automatic, authenticated peer selection for ubiquitous distributed protocols
- Multiple overlapping hierarchical subtree organization for redundancy and diversity
- Maximize service performance relative to crafted metric and constraints

Impact
- Minimize dependence on prior configuration data
- Avoid intricate case-by-case analysis of failure/fallback/recovery scenarios
- Provide automatic reconfiguration in case of network reconfiguration or failure

Schedule (third year)
- Test and refine NTP autokey authentication scheme
- Test and refine NTP autoconfigure scheme
- Complete NTPv4 beta test and deploy

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