

Update from IEEE 1588 Study Group

Doug Arnold

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Status and Face to face Meeting

- Status
 - PAR submitted to IEEE SA
 - Could be approved mid-June
 - Next voice conference: June 5
- Face to face meeting
 - NIST, Gaithersburg Maryland
 - April 2-3
 - 54 Participants
 - Largest constituent groups
 - Academia/Government Labs 14
 - Telecom/Networking 14
 - General Silicon 7



Quotes from the PAR

“The protocol enhances support for synchronization to better than 1 nanosecond. “

“... and provides for the management of protocol artifacts in devices including an SNMP-compliant MIB”

“Optional specifications are provided for protocol security.
“

“This standard documents conditions under which this standard is backward compatible with IEEE 1588-2008.”

Quotes from the PAR

“This standard will correct known technical and editorial errors in IEEE 1588-2008, including message path and timestamp point issues and layer violation. “

“It will clarify the layering, interfaces and protocol of the IEEE 1588-2008 standard, including the behavior of systems that deploy different protocol options. “

“It will improve the protocol’s security and management capabilities, accuracy, robustness, and flexibility.”

Proposals Reviewed

- 72 Proposals
 - Most are maintenance items: “fix known errors”, clarifications, ...
- Some Highlights amongst Recommended Proposals
 - + Faster BMCA for networks with a many master capable devices
 - + 802.11 mapping using 802.11v measurement mechanism
 - + Multilane Ethernet
 - + Multi masters
 - + Multiple paths
- Proposals Not Recommended
 - Modify Announce semantics
 - Allow for use of other multicast addresses
 - TC internal timestamp transfer standard

Next Steps

- Phone/webex conference
 - Wednesday June 5
 - 11 am EDT
 - I need a webex meeting co-host
- PAR approval mid June
 - If all goes well
- Working Group formed in July
- Next Face to face meeting
 - Sept
 - After ISPCS
 - Lemgo, Germany
 - We would like to test 802.1AS at the Plugfest

