Update from IEEE 1588 Study Group

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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
“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.”
“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 know 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