

Objectives 11/7/2004

- Auto-configuration of MAC/PHY e.g., auto-negotiation, Auto MDI
- A mechanism to request/grant/assign resources and the default rule(s) for managing the resources (e.g., 802.3ah MPCP)
- Support both isochronous and best-effort traffic simultaneously, with some bandwidth reserved for best-effort traffic.
- Isochronous traffic only supported over 100Mb or greater full-duplex
- Isochronous traffic is not disrupted when any station/session is added or removed from the network
- Bounded maximum delay isochronous traffic (2ms end-to-end through network; 250us maximum through 1 hop; values to be validated in TF)
- Low jitter and approaching zero wander
- Network provides “house” clock for application synchronization within 5us.
- Based on existing 802.3 PHY(s)
- Supports IEEE 802.3 Power Over Ethernet

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Adopted by RESG straw poll November 17, 2004 (4:27pm)

Y: 25 N: 0 A: 4

NOTE: Following items are deemed desirable, but are out of scope for 802.3.

- Isochronous bridging to 802.11
- Isochronous bridging to 802.15.3
- Isochronous bridging to IEEE1394
- Compatible with 802.1q
- No isochronous frames dropped, bandwidth is reserved
- The default policy is first-come, first-served by request
- Network will automatically reclaim allocated but unused resources
- Support arbitrary topologies within reasonable limits (802.1D)