802 Technical Plenary summary

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Goals for 802 architecture discussion

• Highlight the revision project
• Level-set on the goals of IEEE Std 802 Overview and Architecture
• Level-set on the architectures of the 802 family of standards
• Input to EC workshop on “802 Architecture and Technical Coherence”
Agenda

• **P802-REVc process plan** - Paul Congdon
• **Goal of 802 architecture discussion** - Glenn Parsons
• **802.1 architecture** - Mick Seaman
• **802.3 architecture** - George Zimmerman
• **802.11 architecture** - Dorothy Stanley
• **802.15 architecture** - Clint Powell
  • Subsequent joint 802.1/802.15 discussion actioned creation of summary per 802.15 MAC/PHY – starting with TG4 and TG6
Observations

• WG architecture is
  • In Std 802 – and RM is mapped to clauses
  • In WG Std – and is mapped to Std 802 and 802.1Q, 802.1AC, 802.1X, ...
  • In 802.1 Stds – 802.1AC, 802.1Q, 802.1AX, 802.X, 802.1AE, 802.1AS, 802.1CB with MAC address in Std 802

• Perhaps the architecture is per the CSD Compatibility criteria
  • “...conformance with IEEE Std 802, IEEE 802.1AC, and IEEE 802.1Q.”
  • That is, 802.1 support is “assumed”

• Do we need one common language (aka terminology set)? Or is multiple languages with a mapping workable?

• Networking convergence can on the MAC layer or the IP layer

• P802-REVc should focus on just being a maintenance rollup
IEEE Std 802 – abridged table of contents

• Family of IEEE 802 standards
• Reference models
• General requirements for an IEEE 802 network
• IEEE 802 network management
• MAC addresses
• Protocol identifiers
• Allocation of OID values
• Allocation of URN values
What is the 802 family?

• A history
  • Since 1980

• A grouping
  • That shares common addressing, management, ...

• A hierarchy
  • Dot groups, task groups, study groups, ...

• A brand
  • IEEE 802™

• A market segment
  • ...