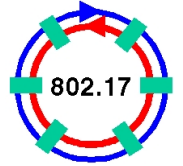


Recommended Revisions to 802.17 Draft Outline

Tom Alexander

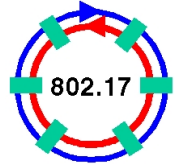


Current Outline State

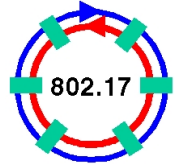
- Outline created by RPR Outline Ad-hoc group
 - Presented by John Lemon at November Plenary
- Created as a superset of the Alladin, Gandalf and DVJ drafts
- Darwin draft presently follows the “official” outline
- 17 Clauses, 11 Annexes



Some Thoughts on the Outline

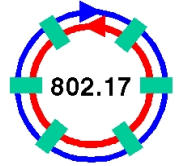


- An excellent starting point
 - All relevant sections are present
- However, some Clauses seem to be redundant or overlapping
 - Information they represent could be logically presented in other Clauses
 - Darwin draft, for instance, leave these Clauses blank
 - This is probably a result of taking the superset
- Suggest collapsing some of the Clauses and Annexes
 - Some simple suggestions follow



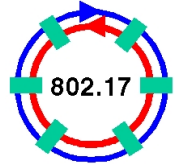
PHY Clauses

- Combine PHY RS (Clause 9) with MAC Physical Interface (Clause 8)
 - RPR will reference existing PHY standards
 - Hence the PHY RS is the bulk of the MAC Physical Interface
- Combine Annexes J (Stratum clock) and J (SONET/SDH PHY)
 - Only the SONET/SDH PHY needs to bother about stratum clocking; 10GE is not concerned



MAC Service Interface

- Combine Clause 7, MAC Client Interface, with Clause 5, MAC Reference and Service Model
 - MAC client interface is nothing more than the MAC Service Interface
- Eliminate Clause 15, Ringlet Selection
 - Ringlet selection by the MAC is part of the Protection Clause, while Ringlet selection by the MAC Client should be handled as part of MAC Service Interface and Service Model
- Eliminate Annex E, Physical MAC Client Interface
 - Information here seems redundant with Clauses 5 and 7
 - If SPI4.2 or other framer interface is to be referenced, specify it as being the optional physical compatibility interface for the MAC Service Interface in Clause 5

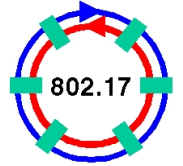


MAC Datapaths

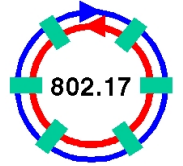
- Delete Clause 11, Media Access Control
 - Clause 6, MAC Data Paths, already contains everything that Clause 11 would normally contain
- Rename Clause 6 to Media Access Control
 - MAC Data Paths sounds far too implementation-specific; Media Access Control is much more function-oriented



New Proposed P802.17 Outline

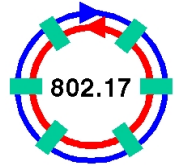


- Clause 1: Overview
- Clause 2: Normative References
- Clause 3: Terms and Definitions
- Clause 4: Abbreviations and Acronyms
- Clause 5: MAC Reference Model and Service Interface
- Clause 6: Media Access Control
- Clause 7: MAC Physical Interface
- Clause 8: Frame Formats
- Clause 9: MAC Fairness
- Clause 10: Topology Discovery
- Clause 11: Protection
- Clause 12: Operations, Administration, Maintenance and Provisioning (OAMP)
- Clause 13: Layer Management



Proposed Outline - Annexes

- Annex A: Bibliography
- Annex B: Transmit Clock Synchronization
- Annex C: RS and PHY Interface For 10G Ethernet
- Annex D: RS and PHY Interface for SONET/SDH
- Annex E: MIB
- Annex F: Bridging Conformance
- Annex G: CRC Calculation
- Annex H: Code Examples
- Annex I: Implementation Guidelines



Results

- 13 Clauses, 9 Annexes
 - Down from 17 Clauses and 11 Annexes
 - Slightly more manageable (a Clause has some constant editorial overhead in addition to the content)
- Information is less spread out
- Based on Darwin draft, final P802.17 standard estimated at ~300 pages
 - We'll be busy ...