

AS5659_PP859P0 WDM LAM Specification (Outline)

Editor (John Mazurowski)

1. GENERAL (Dan Martinec / John Mazurowski)
 - 1.1 Purpose of Document
 - 1.2 Scope
 - 1.3 Document Organization
 - 1.4 Related Documents
 - 1.4.1 Relationship to ARINC Documents (how slash sheets are organized)
 - 1.4.2 Relationship to SAE Documents (and slash documents)
 - 1.4.3 RTCA and EUROCAE Documents
 - 1.4.4 TIA, etc.
 - 1.5 Regulatory Approval

- 2 OVERVIEW (Brian Uhlhorn)
 - 2.1 Backbone Network Description
 - 2.1.1 Topologies
 - 2.1.1.1 Physical Topologies
 - 2.1.1.2 Logical Topologies
 - 2.1.1.3 Signal Topologies
 - 2.1.2 Network Access
 - 2.1.3 Network Signal Aggregation

- 3 Safety (Mike Hackert / Dan Martinec)

- 4 “The Network”
 - 4.1 Optical Backbone Network (Sarry Habiby)
 - 4.1.1 Optical Network Element (outline similar to Jason’s figure - Mike)
 - 4.1.1.1 Optical Terminal Multiplexer
 - 4.1.1.2 Optical Add-Drop Multiplexer
 - 4.1.1.3 Optical Cross-Connects
 - 4.1.1.4 Optical Power Splitters
 - 4.1.1.5 Optical Line Amplifier
 - 4.1.2 Interface Definitions
 - 4.1.2.1 BNI
 - 4.1.2.2 NAI
 - 4.1.2.3 Interface Application codes
 - 4.1.2.3.1 Wavelength allocation plan

 - 4.2 WDM LAN Access and Aggregation (Jason Stark)
 - 4.2.1 WDM LAN versus Optical backbone
 - 4.2.2 Optical versus electrical aggregation
 - 4.2.3 ONE and CAE
 - 4.2.4 Layer description

- 4.2.4.1 Defined layers
- 4.2.5 Offered services (include Definition of a service / application / protocol)
- 4.2.6 Functional elements

4.3 Network Management and Control (David Drury?)

- 4.3.1 Planes
 - 4.3.1.1 Transport
 - 4.3.1.2 Management and Control conceptual definition
- 4.3.2 Management and Control levels
 - 4.3.2.1 Level 1
 - 4.3.2.2 Level 2
 - 4.3.2.3 Level 3
 - 4.3.2.4 Level 4
- 4.3.3 Network management
 - 4.3.3.1 Management of the optical backbone network
 - 4.3.3.2 Management of the WDM LAN
 - 4.3.3.2.1 Optical Supervisory Channel
- 4.3.4 Network control
- 4.3.5 Fault Management
 - 4.3.5.1 Partition between network and clients
 - 4.3.5.2 Built in test
- 4.3.6 Configuration Management
- 4.3.7 Performance Management
- 4.3.8 Network security

4.4 Physical Layer (Mike Morrissey? / Bill Hardin)

- 4.4.1 ONEs (outline similar to Jason's figure - Mike)
- 4.4.2 NAE
- 4.4.3 OLA
- 4.4.4 OFIs
- 4.4.5

5 Documentation (Mike)

6 Specification Information and Requirements (Mike)

Attachment 1 - Acronyms