X.msr-rpr in TD 2132 Rev.2 Presentation to Q.7/17 Meeting

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Market Summary

Long Haul: Over at this moment

Access: Ethernet

Metro: New opportunity and Open!

- Data, Voice and Video converge
- Way of Multi-Service
- Standard Required

Requirements (1)

- (1)Circuit emulation, connected to T1/E1 of PBX and Node B, FR,ISDN
- (2)Tributary based protection with 1+1, 1:1, 1:N mode within 50ms
- (3) Automatic Topology Discovery
- (4)Combination of data, voice and video
- (5)Topology: two-fiber ring, Link with ADM, single-fiber ring, coupled to other ring

Requirements (2)

(6)BW limitation of Tributary based
(7)Tributary merging
(8)Line-speed filtering of Tributary based
(9)Duplicate of Tributary
(10)Multi-point and multi-location accessing, centralized accounting





The Scope of X.msr-rpr based on RPR as RPR MAC Client

X.msr-rpr highlights (1)

- (1) Way of Pre-plan and Provisioning
- (2) Fairness A0 provisioned traffic (and subsequently no fairness)
- (3) Tributary (Service) based 1+1, 1:1 and 1:N protection within 50 ms
- (4) Tributary (Service) based BW management with symmetry and asymmetry
- (5) Tributary based multicast
- (6) Line-speed filtering based on tributary

X.msr-rpr highlights (2)

- (7) Tx and Rx of Data done by RPR, Topology Discovery done by RPR
- (8) Local Node address
- (9) FSN for Performance Monitoring
- (10) Tributary Type and Tributary Number
- (11) Interface to RPR MAC, Interface to Client of X.msrrpr protocol by reference points
- (12) Single-ring, Link and Broadcast Topology







Interface to RPR MAC, Interface to Client of X.msr-rpr protocol by reference points



Frame Format