

COMMITTEE T1 – TELECOMMUNICATIONS

T1X1.5

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CONTRIBUTION TO T1 STANDARDS PROJECT

TITLE Slide Presentation for T1X1.5/2001-099
SOURCE Sudheer Dharanikota, Raj Jain, Nayna Networks Inc.
Krishna Ramadas, Jay Shah
Yong Xue, Curtis Brownmiller WorldCom
2400 N. Glenville Dr.
Richardson, TX. 75082
CONTACT Raj Jain
Nayna Networks Inc.
157 Topaz Street
Milpitas, CA 93505
(408)-956-8000 x 309
PROJECT Optical Hierarchical Interfaces

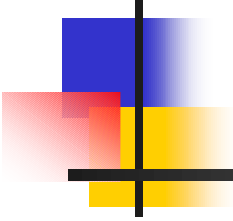
ABSTRACT

This document contains the slide presentation for T1X1.5/2001-099.

Notice

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Detecting and Correlating
External Path-Related Faults By
Cohesive OXC and DWDM
Protocols
(ANSI T1X1.5/2001-099)



Sudheer Dharanikota, Raj Jain, Jay Shah
Nayna Networks Inc.

Curtis Brownmiller, Yong Xue
WorldCom



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Outline

- Why do we need OXC-DWDM Protocol (XDP)?
- Requirements
- Conclusions

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Requirements

- Control channel management
 - Negotiate: Configuration, monitoring, support features
- Monitoring requirements
 - Types: Event-driven, polled
 - Per λ monitoring, per group monitoring (λ , DWDM)
 - How about generalizing OSC and terminating on OXC?
- Fault analysis
 - Group error/ degradation correlation and reporting
 - Individual error reporting

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Conclusions

- OXC- DWDM protocol is important
 - For fault analysis
 - Faster error recovery times
- Should negotiate
 - Configuration correlation
 - Monitoring support – such as Fiber, DWDM, Bundles Others
 - Feature support - such as LOL, LOF behavior
- Monitoring should be
 - Event-driven
 - Polled
 - Periodic report