

Summary of Presentation into Objectives

	Fujitsu	Cisco	DYNARC	LANtern	Nortel Network	Luminous Net	Corrigent	Native Network	Lara Network David James, PhD	Cyras	Cypress	Auroranetics
	Bob Sulton	Steven Wood	Fredric Thepot	Nader Vijeh	Harry Peng	Raj Shama	David Zelig	Offer Pazy		Jingsong Fu	Pankaj Jha	Necdet Uzun
PHY, Speed, Channelization												
Ring of same PHY	Yes	yes	yes		yes			yes			no	
Ring at same Speed	Yes	yes	yes		Yes, sub-OC48 rate ok.			lower speed (OC3 ~OC48)		yes	no	
PHY Preference	SONET	no						SONET/SDH		SONET		
L1 Format Preference	GFP, may be w/ modifications				GFP (T1X1.5)			GFP		SDL(GFP)		
L2 or MPLS										MPLS, ATM, pkts		
Channelization	virtual concat. STS-n	no			Logical PHYs (v. concat).		no	virtual concat. STS-n			virtual concat. STS-n	
Mesh Topologies								no			Yes	
Protection, Exceptions, etc												
Protection: Wrap/Steer	Steer but <50mS	Wrap then allow for Steer	Steering w/ predetermined backup path (Wrap as an option)		Steer	Steer (w/ Wrap option included. Jason Fan)		Wrap 1st then Steer 2nd		steering	Wrap 1st then Steer.	Wrap 1st then Steer.
Frame Handling on Ring												
Cut-through / Fat Transit Buffer	Cut-through	Transit Buffer 512K @OC12	Cut Through	Cut Through	Cut Through (1 MTU buffer + Ctrl Frame)			Store and Forward w/ Minimal Add/Transit Buffers			Cut Through for 1 ~2 MTU	
Multicast Method/Optimization		Yes	yes		Yes	Yes		yes				
Jumbo Frame (>1500, ~9K)		Option to include							Yes (w/ EF Preemption)			
No Frame Loss on the Ring												
FCS and Error Frame Strip	No	Yes			No	Yes					Yes	
QoS, SLA Support, Scheduler												
Ring Stream preemption	No	No			No			No	Stream Preemption Support for TDM			
QoS/ Queues/ Delay / Jitter		2 on Ring Transit, 2 on Ring Ingress, 1 on Ring egress	Token Bucket Credit		BW, Local Fairness w/ delay sensitive "SONET"-like	TDM Emulation, BW Assurance, Min 3 CoS (EF, AF, BE)	Min 3 CoS (Sub-Set of DiffServ/ 802.1)	3 CoS Queues		DiffServ/ 802.1P	3 CoS Queue	
TDM Support					Yes							
Shared Media Collision in MAC					Yes							
Bandwidth Mgmt					Masterless B/W negotiation			no		LSR type steer, and L2 based.		
Fairness		SRP-fa (Donghui Xie) Ring H, Node H, Ring L, Node L (buf overrun prevented and allowed-BW parameter used)		Distributed Control Frame to support appl layer distributed virtual WFQ algorithm				no	Preemption for EF, Token based BE transmit (ringlet circ time)			
OAM&P		IP/DCC Channel					Carrier Class Performance Monitoring				Carrier Class Performance Monitoring	
802.1D Translation/Encapsulation	Encapsulation	Encapsulation			out of scope of RPR			Encapsulation		yes	Encapsulation	