

CENIC's One Gigabit or Bust Initiative
Broadband Technologies Task Force Meeting Minutes
November 15, 2004

1st Speaker: Mark Premo, World Wide Packets

Topic: "An IP/Ethernet Approach to Converged Services Delivery"

Highlights:

- LightningEdge Product Line, Layer 2 Access Networks for IP Service Delivery.
- Customers: Municipalities and Utilities, Carriers and MSOs.
- Example: Provo, Utah has implemented a fiber network, called iProvo.
 - Serves 30,000 homes and businesses, approx. cost = \$1800-\$2000/home, incl. equipment.
 - City is wholesaler, sells bandwidth to service providers.
 - Uses a Layer 2 VLAN approach to service delivery.
 - Provides scalable multicast through advanced IGMP implementation.
 - Uses RSTP (Rapid Spanning Tree Protocol) in backbone, < 50 msec. recovery time.

2nd Speaker: James Jones, Photisis Consulting

Topic: "Ubiquitous Optical Broadband and Wireless Rollout in India"

Highlights:

- Facts: India is 1/3 the size of US, 2nd largest population in the world, median age is 24.
- Reliance – India's largest business, \$22B in revenues, \$1.4B net profit.
- Launched Reliance Infocomm in 1999, promoting "A New Way of Life"
 - Phase 1: Mobile phone deployment using CDMA technology, 144kbps to the phone.
 - Phase 2: Enterprise Netway Revolution
 - Delivering 100Mbps Ethernet to 500,000 buildings in 30 cities, planning service in 200 cities by end of 2005.
 - Have installed 60,000Km of fiber cable.
 - Bought Flag Telecom in January, 2004 (Fibre Link Across the Globe).
 - Phase 3 (Future): Consumer Convergence Revolution, Ethernet service to 80 million homes.

III. Additional Discussion: "Recent Regulatory Changes in FTTH and BPL Networks"

Discussed recent announcements from FCC:

1. "Order Released on FCC Removing More Roadblocks to Broadband Deployment in Residential Neighborhoods"
2. "FCC Releases Order Adopting Rules for Broadband Over Power Lines to Increase Competition and Promote Broadband Service to All Americans"
3. Remarks by Michael Powell at WISPCON
 - "WISPs: Bringing the Benefits of Broadband to Rural America"
4. Remarks by Michael Powell at CTIA Wireless I.T. & Entertainment Convention
 - "The Wireless Broadband Express"