Building CLEC Networks with Multiservice Access Platforms

Agenda

- CLEC Issues/Challenges
- Understanding Multiservice Access Platforms
- Cisco 6700 MSAP Overview & Deployment
- Q & A
Voice CLEC Product Decision

Issues

• Product feature set availability and migration
• Interoperability with incumbent network elements
• Operational Aspects
• Cost of per line of service
• Competitive service portfolio
• Rapid revenue generation

Service Provider Challenges

• Gain immediate market share and grow service revenue
• Minimize investment in legacy infrastructure
• Migrate to New World services with an existing TDM infrastructure
• Improve operational efficiency
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Key Attributes of Multiservice Access Platform

• Ability to deliver bundled services of voice, data
• Performs key functionality of multiple network elements (DLC, DSLAM, DCS, IAP)
• Inter-operate with existing networks elements and infrastructures
• Carrier Class Reliability and Commitment to Standards
• Managed Access Solution
How Does an MSAP Help the Service Provider Today?

- Provide revenue opportunity with legacy service support - TODAY
- Position network for future growth and infrastructure shift
- Deliver multiple voice and data services over single access network
- Address the needs of multiple target markets
- Migration to ATM/IP services with same platform

Key Benefits of Multiservice Access Platforms

- Integration of Voice and Data
- Interoperability with Legacy Networks
- Simplified OAM
- Reduced Network Node Count

Lower TCO while providing more services
Typical Voice-centric CLEC Architecture

- CLEC Regional Switch Site/POP
- SONET ADM
- Data Switch
- CLEC Co-Location

- SONET ADM
- DACS
- T1s Over Unbundled Loops
- IAD
- V.35
- FXS/FXO
- T1

- M-IAD
- T1s Over Unbundled Loops

Typical Voice-centric CLEC Architecture w/MSAP Family

- CLEC Regional Switch Site/POP
- SONET ADM
- Data Switch
- CLEC Co-Location

- SONET ADM
- MSAP
- Leased T1’s
- Unbundled Loops

- M-IAD
- V.35
- FXS/FXO
- T1

- M-IAD
- T1s Over Unbundled Loops
Applications Supported w/ MSAP

- Integrated Access (Voice & Data CPE)
- GR-303 Gateway
- Voice enabled DSLAM
- Derived VoDSL, VoIP
- Broadband DLC (POTS + DSL)
- 3/1/0 Cross Connect

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Cisco 6700 Family Overview

- Large Scale MSAP
- POTS to OC3 Support
- Carrier Class Platform

- High Capacity IAD
- POTS to OC3 Support

- “Pizza Box” IAD
- Ethernet T1, V.35, 24 FXS

Unified Management
Shared Line Interface Modules

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Cisco 6732 in Central Office

- GR-303 TDM Gateway, High-Density Voice Aggregator
- High Density Narrowband Voice Delivery Platform
- 3/1/0 Cross Connect
Integrated Access Application

**Major Benefits**
- Integrated Voice & Data
- Unified Management
- 2 or 4 wire transport
- ISDN BRI Service Support

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Access Aggregation Application

**Major Benefits**
- Efficient Switch Port Utilization using GR-303
- Multi-vendor Compatibility
- Data Grooming to Packet Network
MTU Server

- High Density T1 Services - Up to 248
- Support both 2W DSL and 4W T1 Service
- 3/1/0 DACS for Grooming Fractional T1s
- ISDN
- High Density POTS / FXS
- IAD Aggregator
- Optical transport support

ADSL Baseband Voice Support over ATM network

- Internet or ISPs
- SS7, T1, PRI
- PSTN
- SVX 4310 Cisco - EO Switch
Cisco 6700 Series
Value-Add

- Flexible Network Deployment
- Investment Protection
- Managed Access Solutions (CO/RDT/CPE)
- Natural migration to New World networks and service deployment
- Carrier Class Redundancy

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Cisco’s CLEC Networkers Power Session

Session 3301

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