Salira Optical Network Systems,Inc.

IEEE EFM Study Group
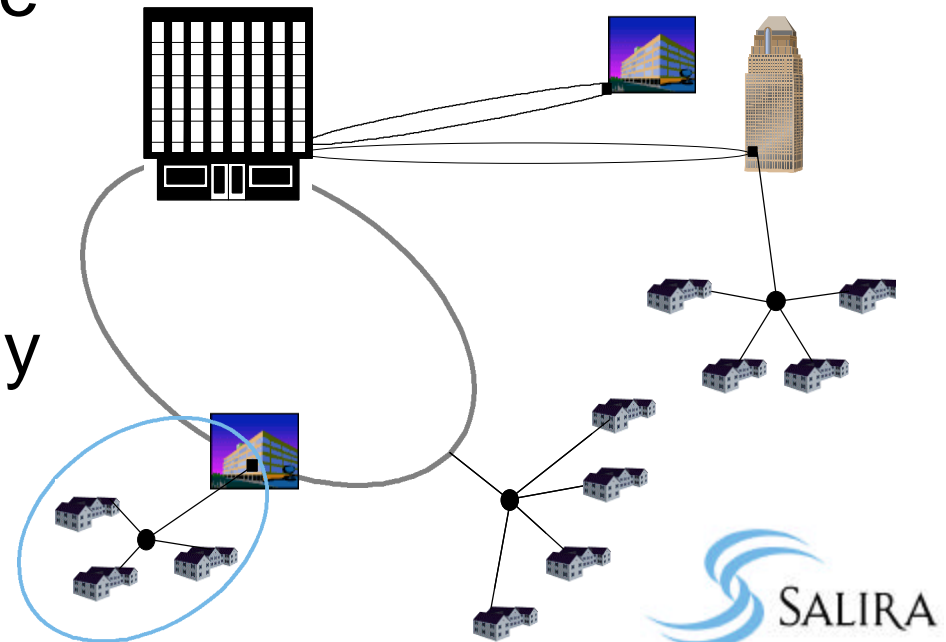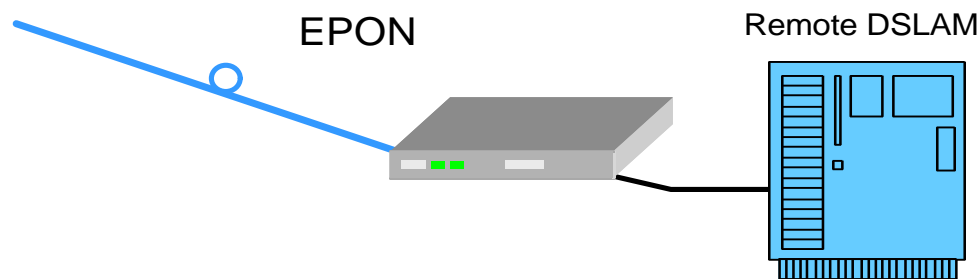
May 21-23, 2001
St Louis, MO

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Ethernet + PON

- PON offers the best price/performance ratio for optical access

- Ethernet is the most popular end user traffic type

- Managed IP services are built on Ethernet

- IP based voice, video, data are growing rapidly

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Ethernet + PON + DSL

- Extend range of broadband access technology while increasing capital utilization

- Use copper infrastructure as transition to fiber

- Improved data aggregation

- Extend managed IP services

EPON

Remote DSLAM

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Managed IP Services

A laundry list of services available

- IP/VPN
- MPLS/VPN
- Security Services, e.g., Firewalls, Encryption
- IP Video, VoIP, Data
- WEB Hosting
- Data Storage
- Email
- ASP
- Distance Learning
- Call Centers
- Virtual LAN

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TDM Transport

- A primary revenue generator for Carriers not to be forgotten

  - FT1

  - T1 for PSTN, FR, ATM

  - NxT1with Inverse Multiplexing

  - DS3

  - OC3

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QoS/SLA

- ## ATM type QoS Bandwidth Support
  - For example, CBR, rt-VBR, nrt-VBR, ABR

- ## Remote SLA provisioning

- ## Real time SLA monitoring and historical reports

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Management

We cannot forget our customer's management needs

- ## Element Management (OAM&P)
  - Customer configuration and service management
  - Remote/Self provisioning
  - Dynamic Bandwidth Allocation
  - Remote loop back test and diagnostics
  - Alarm report
  - Performance and billing statistics

- ## EMS/NMS (TMN FCAPS)
  - Fault, Configuration, Accounting, Performance, & Security)

- ## OSS Northbound I/F (e.g., CORBA, TL1)

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Charter Clarification

- Call for clarification on the charter of this study group

    - Management OAM&P/FCAPS Group
        - Extensive discussion was done in reflector of this study group

    - EPON as a focus as in the cosigned presentation

    - Broadband service extension with PON - BPON

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