



AT THE



WORLDWIDE INTEROPERABILITY DEMONSTRATION  
**SUPERCOMM 2005**



# *Mahi Networks*

**Mahi Networks is a supplier of market-leading optical transport, switching and aggregation solutions to network operators worldwide. Our pioneering optical solutions power the transport of new VoIP, Video and business class Ethernet services from the Metro Core to the Edge. Mahi Networks – *Powering the IP Services Network*<sup>™</sup>.**

**Headquarters:** Piscataway, NJ – Founded 1999

**Platform In Demo:** Mi7 Multi-Service Core Aggregation System

Efficiency Gains Via Transport, Switching,  
and Control Plane Convergence

Live Production Networks Deployments  
Since August, 2003

**mahinetworks.com**

**Booth # 82051**

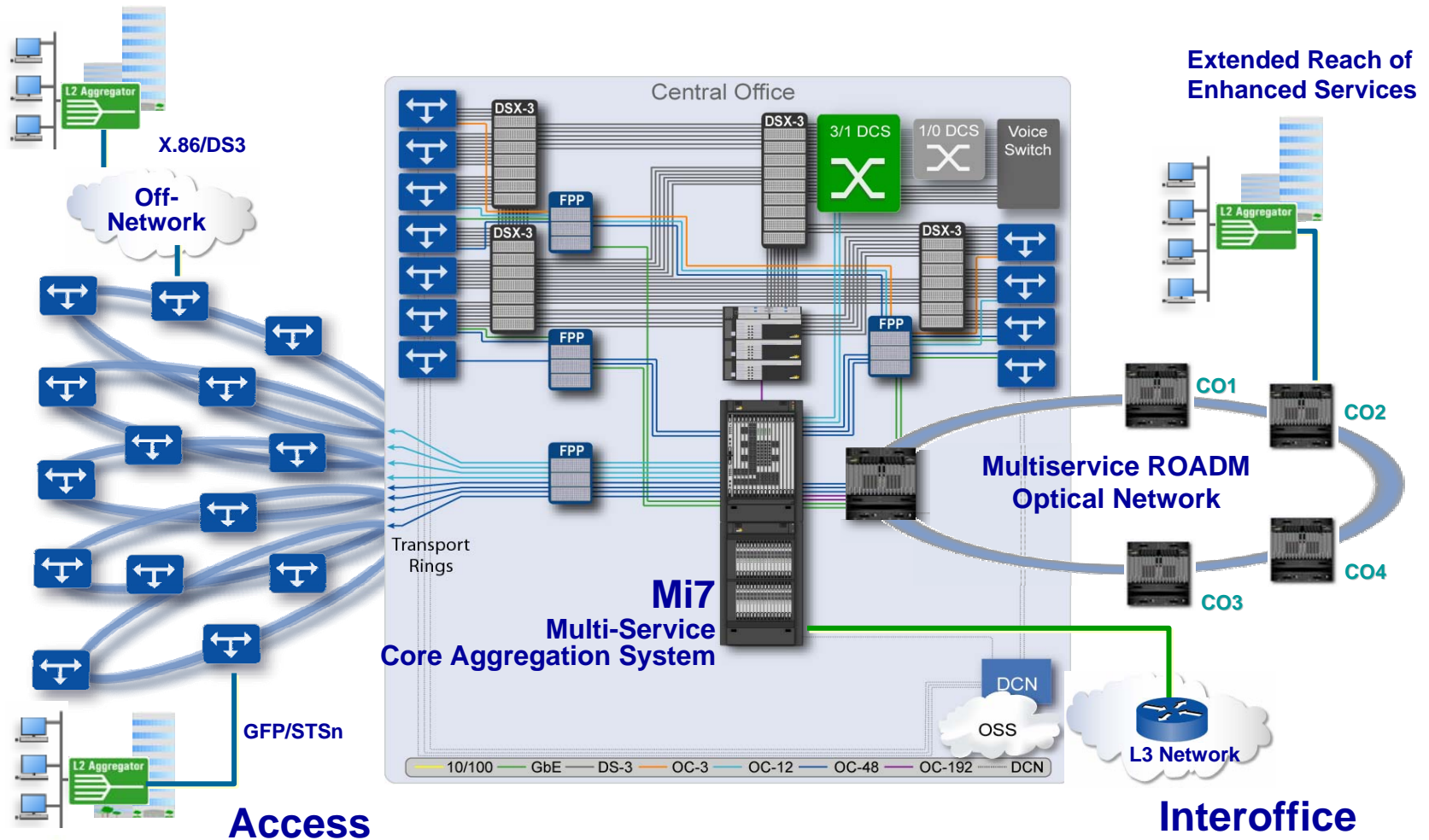


# *OIF Forum & Optical Network Interoperability*

- ◆ Provide the industry with true 'Plug and Play' service deployments enabled by transport and control plane interoperability
- ◆ Enabler for Multi-Domain, Multi-Vendor Service Interoperability
  - Control plane is the key feature bringing multiple technologies (ROADM, OXC, MSPP, WXC) from multiple vendors to form one intelligent network
- ◆ Address All Deployment Aspects
  - Operations, Administration, and Maintenance
  - Service Level Requirements
  - Security
- ◆ Engage Providers and Vendors Together
  - Enable Global Solutions That Meet Business Goals

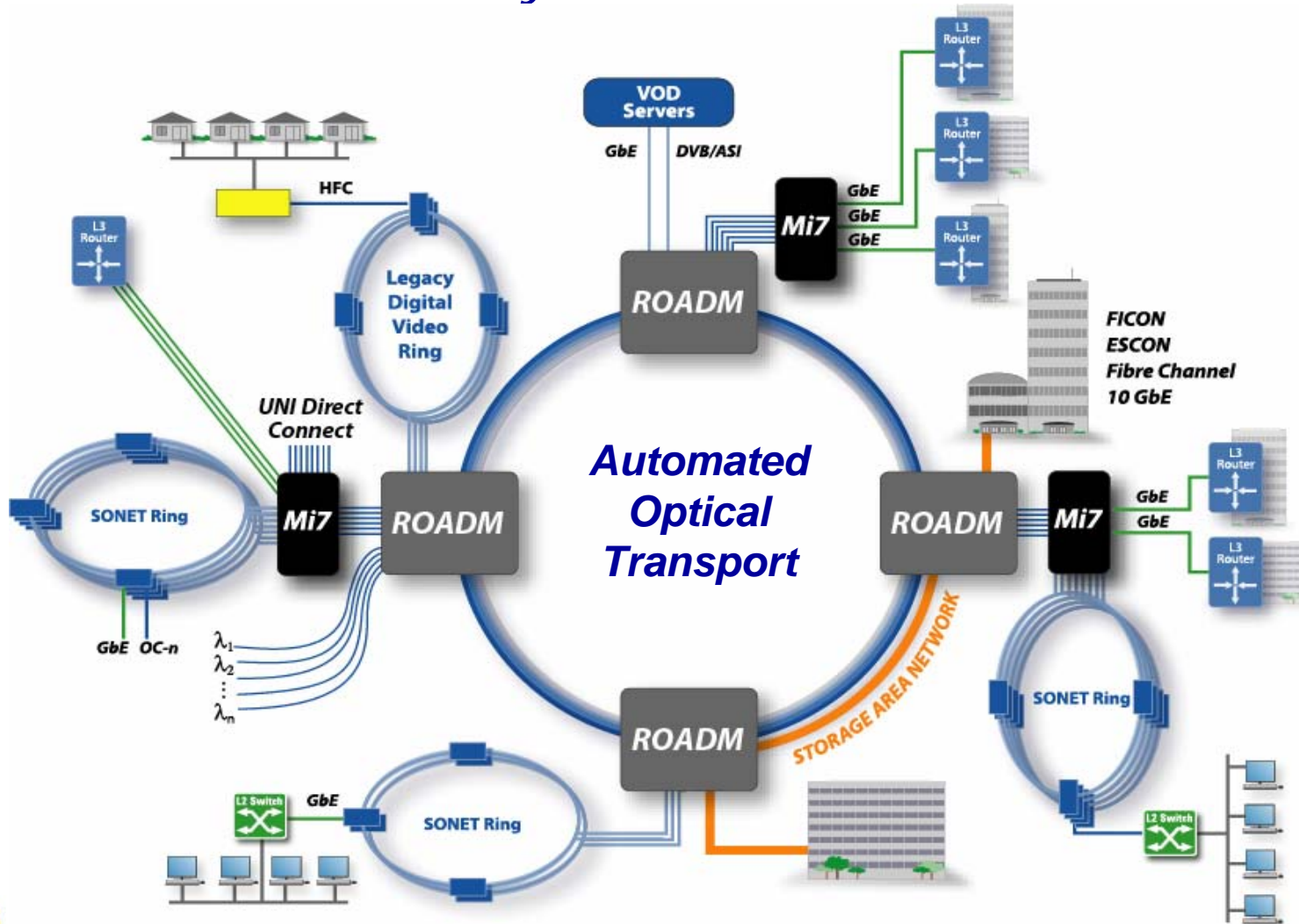
# Optimized Optical GMPLS Topology

## Streamlining the Central Office with Direct Connect Technologies



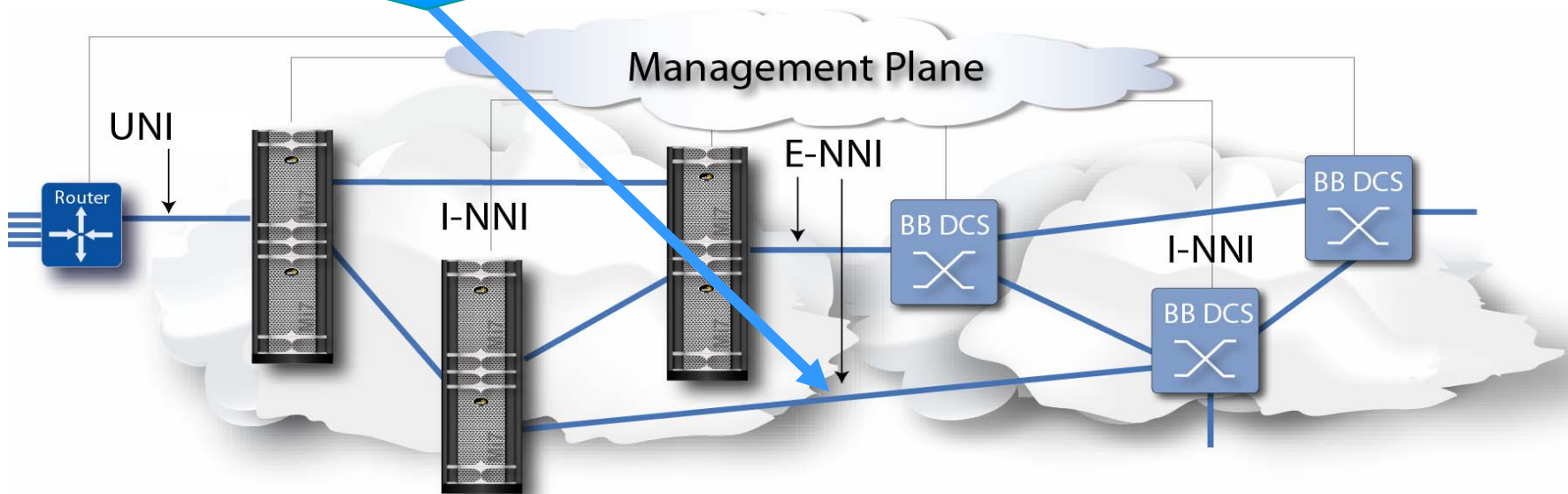
# Optimized Optical GMPLS Topology

## Dynamic Service Creation Network Wide



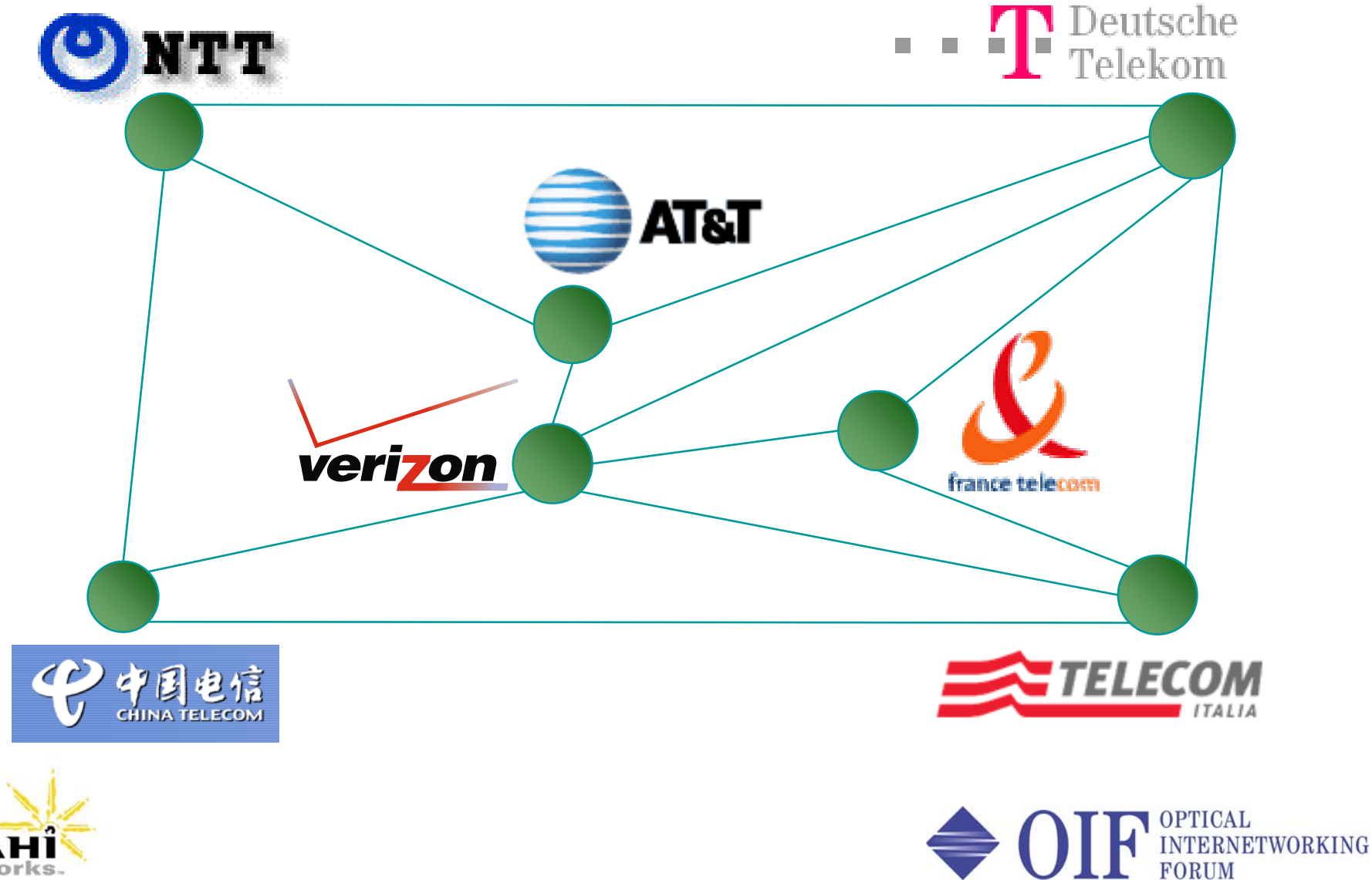
# Interface Interoperability

OIF World Demonstration 2004  
UNI / NNI / E-NNI  
Global Multi-Vendor Service Creation  
Next Generation SONET Services

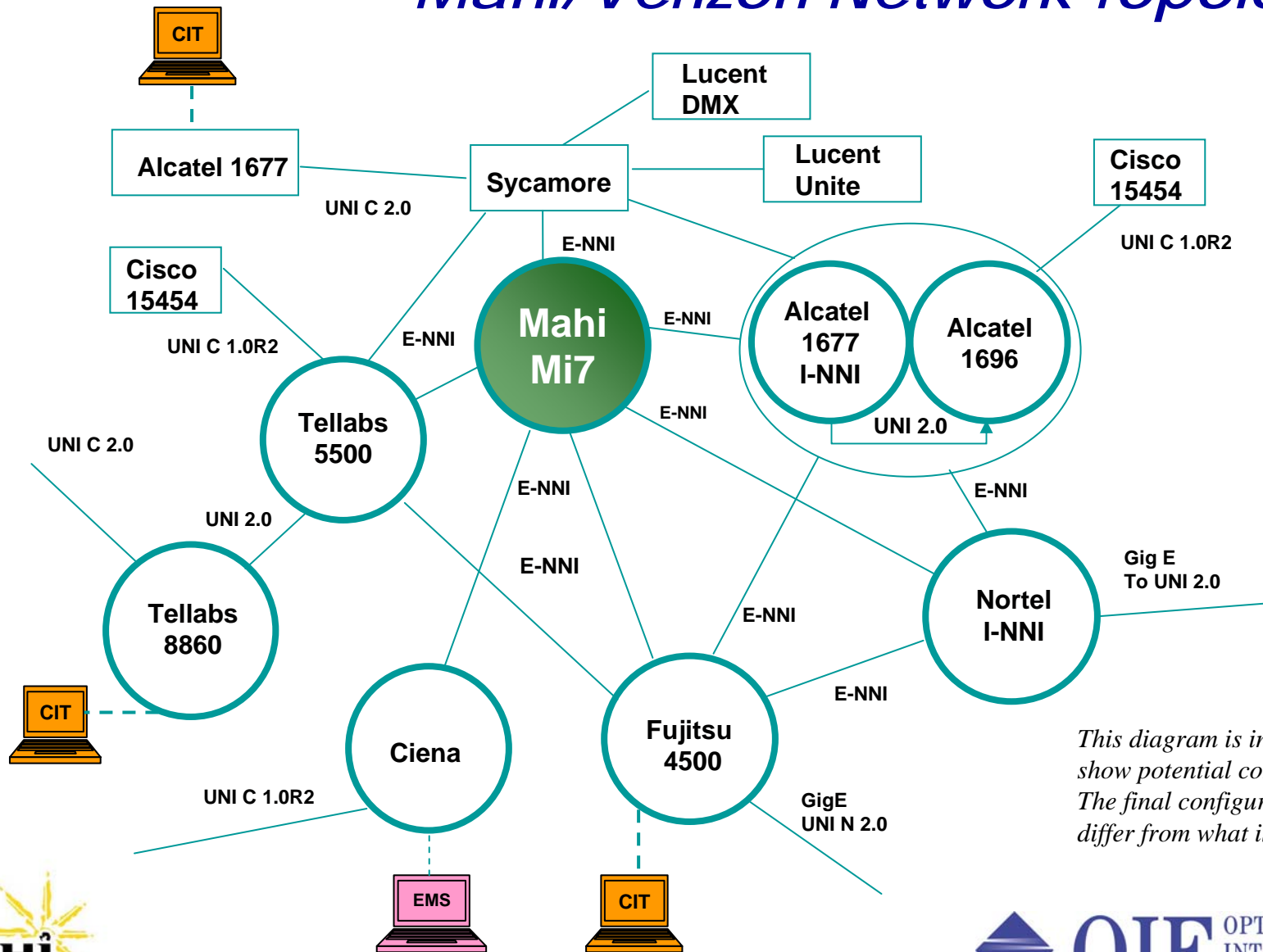


- Enable Mesh Control between IOF Offices (I-NNI)
- E-NNI Standards Enables Global Interoperability
- A-Z Next Generation Service Creation
- Evolve GMPLS for Management Control Plane Interactions (OSS)

# Global Network Topology



# Mahi/Verizon Network Topology



*This diagram is intended to show potential configurations. The final configuration may differ from what is shown here.*

# *Business Benefits of Deployment*

- ◆ **New Service Types (Revenue) Possible**
  - **Bandwidth on Demand**
  - **Lambda Services / Optical VPNs**
  - **Next Generation SONET (GFP-F/GFP-T)**
  - **Metro Ethernet Transport**
  - **Storage Services (SAN)**
  - **Data and Video Distribution**
- ◆ **Reduce Capex Costs by >50%**
  - **Collapse Network Elements in Tier1/2 Offices**
- ◆ **Reduced NOC Steps to Activate Services**
  - **Reduce Truck Rolls for Service Activation**
  - **Activate Services in Minutes**
- ◆ **Simplify Deployments – Open Standards**
  - **Global Service Deployment**

## *Bottom Line*

- ◆ Global Service Deployment and Management are now a Business Reality
- ◆ OIF Worldwide Demonstration Validates Service Provider and Vendor Vision
- ◆ *Top Line Revenue Growth with Enhanced Data & Optical Services*
  - Enables Unique Value-Added Services
  - Drives Market Share, Customer Retention
  - Fully Compatible Service Models
- ◆ Dramatically Reduces Deployment Costs