

# Proven Alternative to MPLS

Provider Backbone Transport (PBT)

# Brief Introduction to PTCI

- We are an ILEC in the Oklahoma Panhandle
  - We also operate a CLEC in the Texas Panhandle
- We provide:
  - Voice services
  - Data services
  - Video services
  - Wireless CDMA 1X/EVDO services

# Transport History

- Transport
  - Migrated from DS-3's to OC-12/48's to 10Gb Rings
    - Layer 2 / Provider Backbone Transport (PBT) 2008
    - 10Gb WAN and 1GB LAN
    - Successful, but a difficult transition
- ISP Backbone(s)
  - Migrated from T1's to DS-3's to OC-3's to GbE's
    - Removed our TDM-based core router(s)
    - Removed our last OC-3

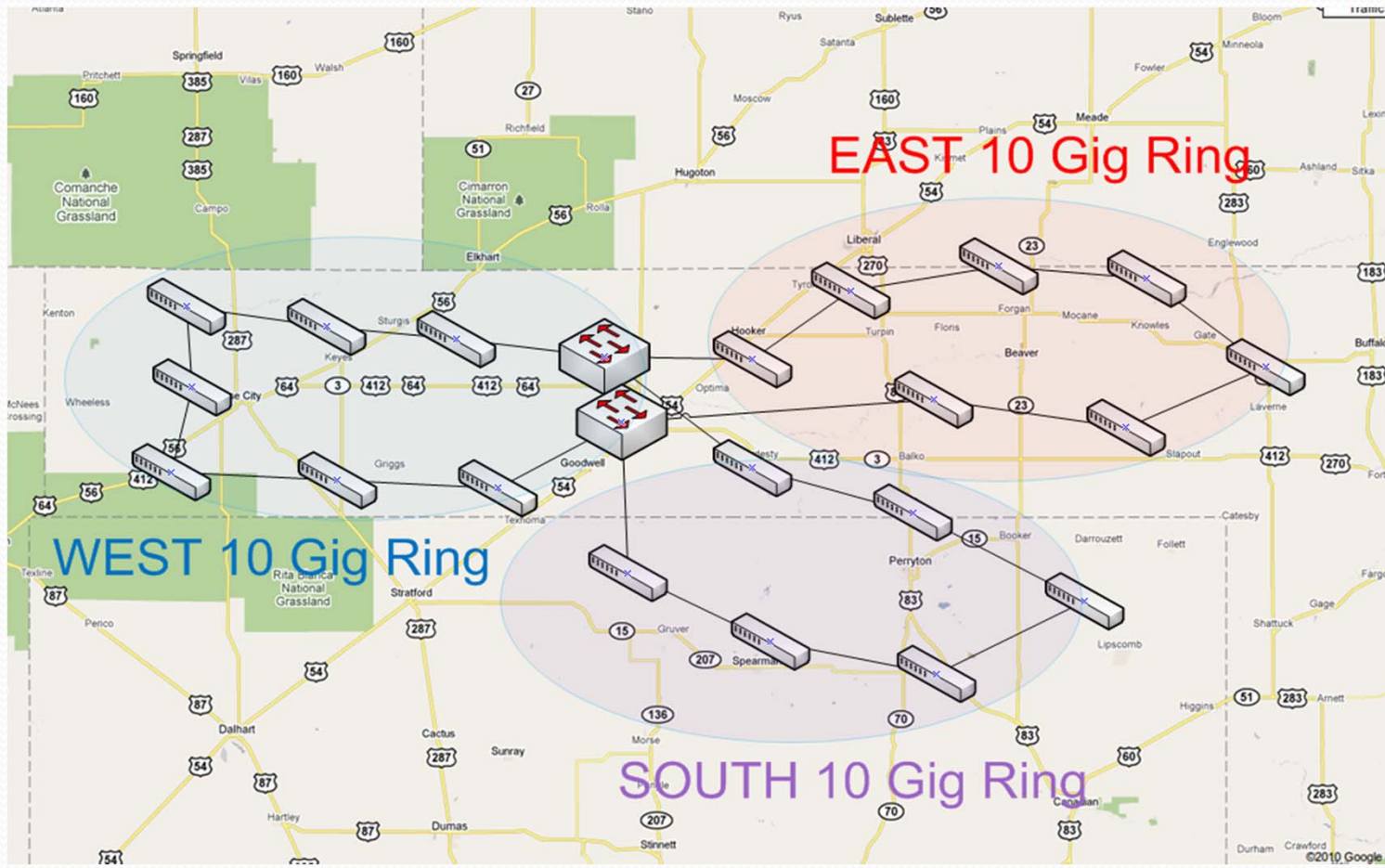
# Reasons for Provider Backbone Transport

- Simple
  - Layer 2 Ethernet
  - VLANs
- Good Fit for Our Network
  - Already had fiber rings in place
  - Already using 1Gb Optical Transport equipment
- Cost
  - PBT was the Lowest-Cost Option for us

## Reasons for PBT (cont'd)

- Our needs were simple
  - 10Gb Ethernet that is connection-oriented
  - Provide Basic services over Ethernet
  - Provide Protection across the rings
  - Be Easy to Operate
- Telco-like System
  - Point-to-Point connections
  - Resilient <50ms recovery
  - Can add MPLS later if needed

# Network Diagram



# Services on the PBT Network

- ISP Backbone connections
  - 500Mb to AMA via AT&T
  - 500Mb to OKC via AT&T
- Video
  - All video services carried on the rings
  - SD MPEG<sub>2</sub>, HD MPEG<sub>2</sub>, HD MPEG<sub>4</sub>, VOD, PPV
  - STB Management
- Wireless Data (CDMA)
  - 1x/EVDO
  - IP Backhaul

## Services on the PBT Network (cont'd)

- 10Mb Services (Ethernet Transport Services Tariff)
  - Schools
  - Businesses
- Cable Modem Services
  - CMTS Networks
  - Management Systems
- DSL Services
  - ADSL<sub>2+</sub>, ADSL<sub>2+</sub> Bonded
  - VDSL<sub>2</sub>

# Services on the PBT Network (cont'd)

- Fiber to the Home
  - IPTV
  - Data
  - Voice
- Future Services
  - WiMAX
  - LTE

# Summary

- Almost All of our Services Ride the PBT Network
  - Voice Services
  - Transport
  - Data Services
  - Video Services
  - Wireless Services
- PBT Serves Our Needs Well

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