



**Bluebird Network Presentation
for
Broadband Telemedicine
Conference
May 20, 2013**



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Agenda

- Telemedicine Broadband Requirements
- Healthcare Connect Fund
- Bluebird Network Statistics
- Bluebird Ownership
- Bluebird MO & IL Fiber Network
- Bluebird National Fiber Network
- Bluebird Services
- Contact Information



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Broadband Requirements

- Depends on type of Telemedicine – file size
 - Telenursing
 - Telepharmacy
 - Telerehabilitation
 - Teletrauma Care
 - Telecardiology
 - Telepsychiatry
 - **TELERADIOLOGY (50%)**
 - Telepathology
 - Teledermatology
 - Teledentistry
 - Teleaudiology
 - Teleophthalmology



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Telemedicine Broadband Needs

- Family Practice Clinics growing from T1s in the past to 10Mb requirements
- Major Clinics & Community Hospitals require 100Mb and now growing to 1Gb
- For follow-up X-Ray with small file size 1.5Mb T1 may do; but
- High resolution study & real time radiologist involvement requires 10Mb min & 50Mb preferred



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Healthcare Connect Fund

- 65% from fund
- 35% from health organization
- Up to \$5000 one-time per site x 65% \$3250
- What is your current spend? Example:
 - Hospital – 2 T1s @\$500 each = \$1000
 - 5 Clinics – 1 T1 each @\$500 each = \$2500
 - Hospital Budget = $\$1000 / 35\% = \$2857 / \text{mo} + \$5000 \text{ NRC}$
 - Clinic Budget = $\$500 / 35\% = \$1428 / \text{mo each} + \$5000 \text{ NRC} \times 5 = \$7140 / \text{mo} + \$25000$



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Bluebird Network Statistics

- Established in 2000 by 25 rural phone co's in MO & IL
- 6000 fiber route miles across MO & IL, 60,000 nationally
- \$100 million+ fixed assets deployed MO & IL
- 100+ Carrier Class Points of Presence (POPs) MO & IL, 850+ nationally via Indatel ownership interest
- Hundreds of “on-net” towers MO & IL, 1000's nationally
- Over 100 “on-net” buildings MO & IL, 1000's nationally
- DWDM, MPLS, & TDM technology deployed primarily utilizing fully redundant Alcatel-Lucent & ADVA equipment
- Network supports speeds up to 100Gb (10Gb are currently largest circuits deployed)



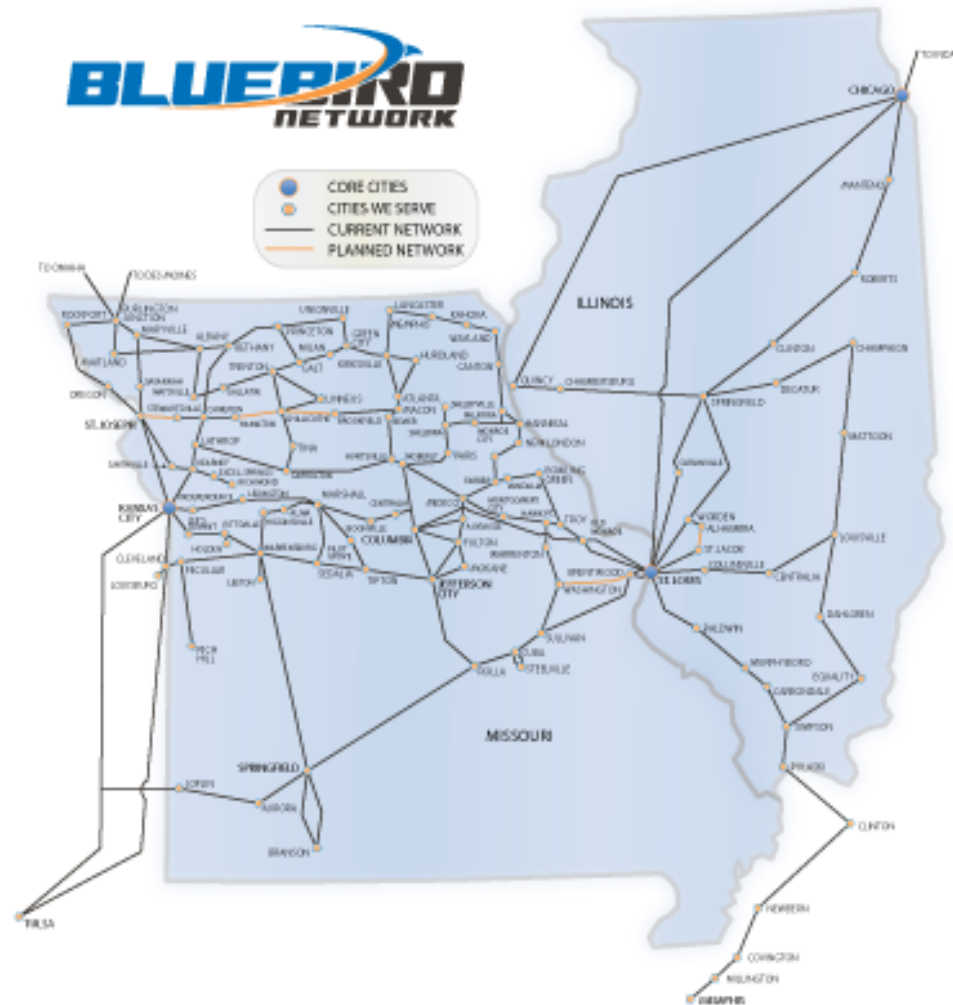
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Bluebird Ownership



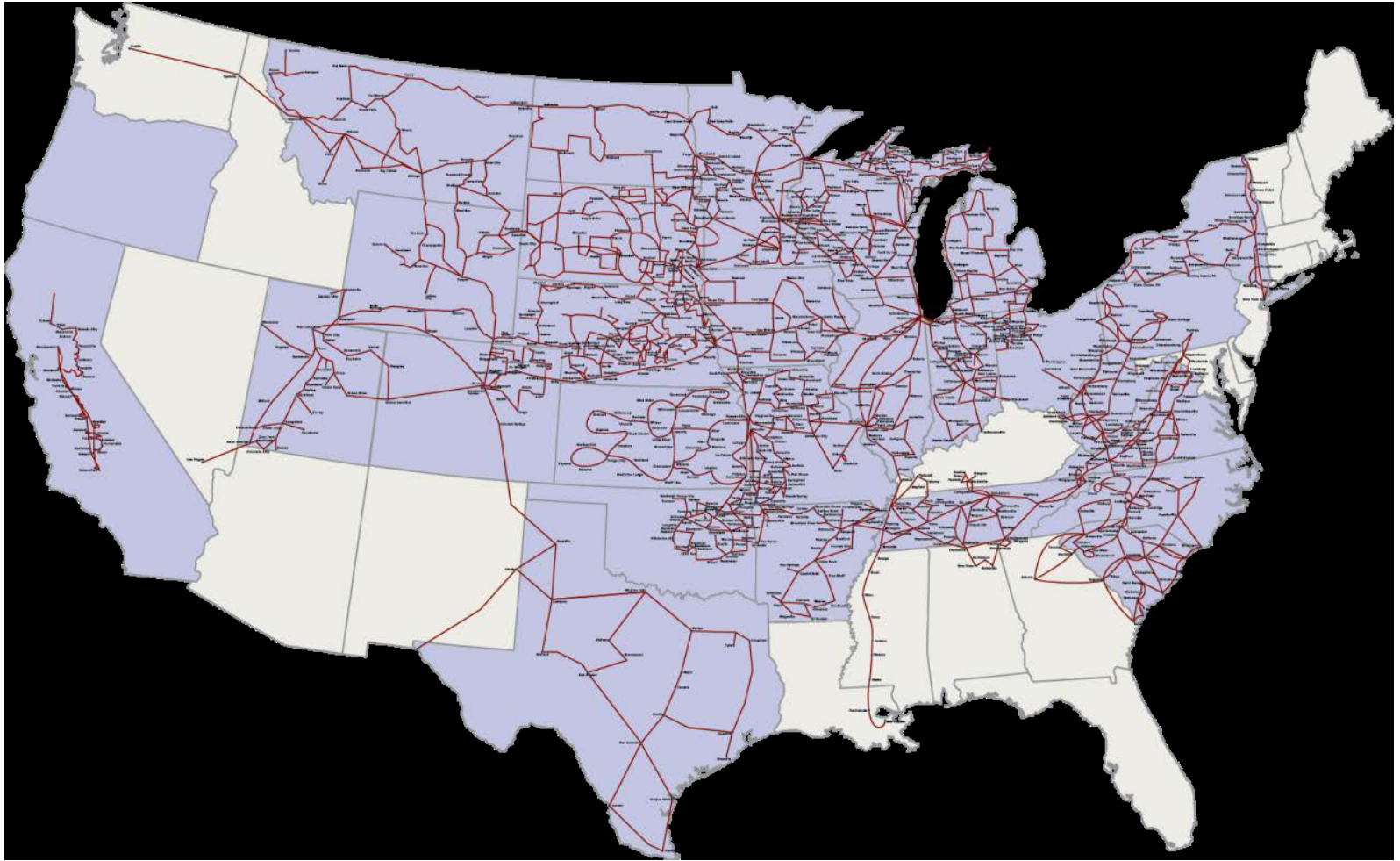
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Bluebird MO & IL Fiber Network



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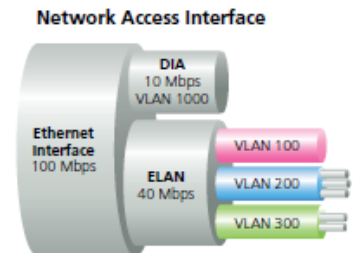
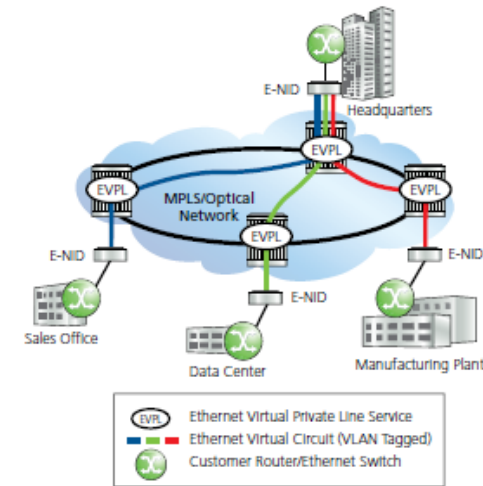
Bluebird's National Fiber Map



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Services

- Dedicated Internet Access (DIA): up to 10Gb
- Ethernet Private Line(EPL):Point to point to 100Gb
- Ethernet Virtual Private Line (EVPL)
 - Point to multi-point connectivity between hub and remote locations; no host port oversubscription
- Ethernet LAN (E-LAN)
 - Any to any connectivity between various locations; allows host port oversubscription
 - Perfect for hospital groups & clinics
- Wavelength Services
- TDM Services (DS1, DS3, OC3, OC12, OCn)



Contact Information

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