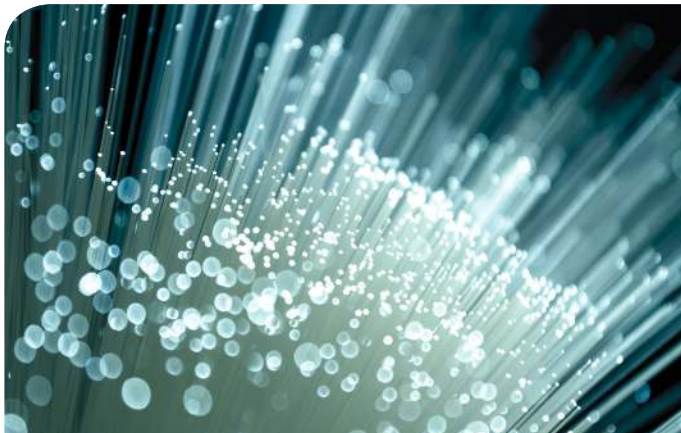# Ethernet Private Line (EPL)

A Fast, Efficient and Secure Fiber Network

Bluebird Network leverages its vast fiber optic network to provide high bandwidth services to carriers throughout the Midwest and United States. Our carrier grade network offers secure, reliable, and scalable connections, ensuring customers stay in the forefront of today's increasingly digital world. With over 135 Points of Presence (POP) sites spanning the Midwest including major cities like Chicago, St. Louis, Kansas City, Springfield, Tulsa, Peoria, Rockford, Bloomington, Normal and the Quad Cities, you can be sure that your data will travel fast and secure whether it's across the street or across multiple states. Bluebird Network offers data center, collocation, gigbit transport and gigabit dedicated Internet services through Bluebird Underground, our data center housed in a solid limestone cave.

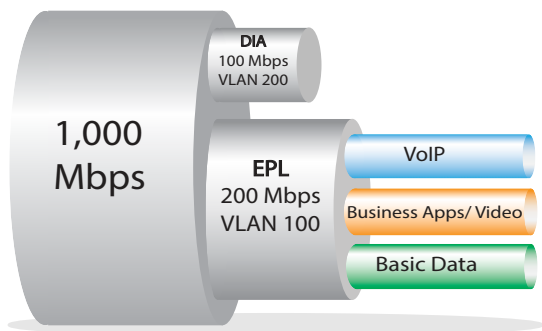*Because success is all about good connections*

Ethernet Private Line (EPL)

A Fast, Efficient and Secure Fiber Network

Voice, video and data communications are important to operating almost any type of business, whether the transmission is flowing across the street or across the state. If you need to communicate in a timely and secure manner, then a dedicated circuit from Bluebird that offers end-to-end connectivity is right for your business. Ethernet Private Line (EPL) services are provided over Bluebird Network's MPLS/Optical Mesh backbone that combines the benefits of intelligent routing with the advantages of 100% committed bandwidth. Our extensive fiber optic network with over 135 points of presence (POPs) creates a short access loop, which translates into lower latency and higher services reliability. EPL bandwidth is dedicated and is not shared by other services on the network. If network connectivity is essential to business operations, protection options can be enabled to provide a redundant path between customer sites. Bluebird Network installs an Ethernet Network Interface Device (E-NID) at each customer location to provide and interface between the customer site and the Bluebird backbone. Bluebird Network will manage the E-NID and use it to monitor the EPL service and prioritize application traffic appropriately to optimize the performance for business critical applications.

Network Access Interface

1,000 Mbps

DIA
100 Mbps
VLAN 200

EPL
200 Mbps
VLAN 100

VoIP
Business Apps/ Video
Basic Data

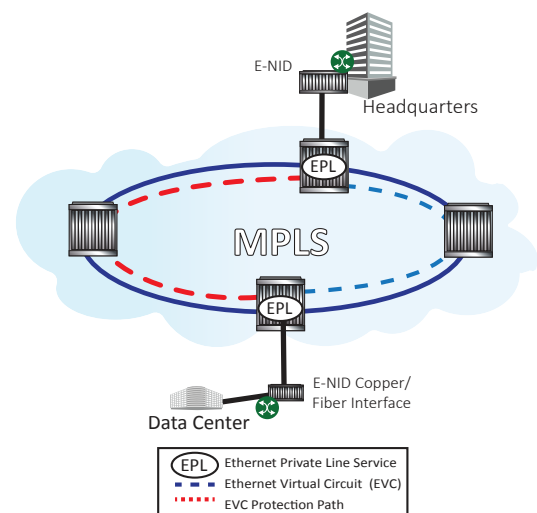Link Aggregation (LAG) is supported to increase capacity and resiliency on access circuit.

Multiple Ethernet Virtual Circuits per network access interface (VLAN (802.1) tag delimited)

Multiple Classes of Service can be created per EPL:

> Up to 4 classes of Service per EPL service
> Seperate queue/memory per Class of Service
> Reserved bandwidth per Class of Service
> Traffic classification into a Class of Service based on P-bits, DSCP or VLAN

Features

> Copper interfaces- port speeds of 100/1000 Mbps
> Fiber interfacs- port speeds of 1/10 Gbps
> Configurable services speeds below port rate (ensures you only pay for the bandwidth you need)
> Incremental bandwidth increases as bandwidth requirement grows
> Network and fiber protection options available
> Manages Network Interface Device

E-NID

Headquarters

EPL

MPLS

EPL

E-NID Copper/ Fiber Interface

Data Center

EPL Ethernet Private Line Service
Ethernet Virtual Circuit (EVC)
EVC Protection Path

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BLUEBIRD NETWORK

Because success is all about good connections