

# DCN's Carrier Ethernet Services

## Introduction

Ethernet technology has evolved. Once considered an infrastructure used only for local network connectivity, it is now considered the preferred service infrastructure capable of supporting next-generation IP-based voice, video and data applications.

DCN's Carrier Ethernet Service provides a platform for high capacity, cost effective transport that supports emerging IP based voice and video applications. DCN's Carrier Ethernet Service is available in two categories, "Metro" and "Wide Area" Ethernet.

## Metro Ethernet Service

Metro Ethernet Service offers the ability to route customer traffic within a given metropolitan area. For example, if a business has two physical locations within Bismarck, a customer would order DCN Metro Ethernet Service to connect the two locations.

## Wide Area Ethernet Service

Wide Area Ethernet differs from Metro Ethernet in that traffic routes between metropolitan areas, traversing DCN's 10 Gbps RPR Ethernet Backbone.

## Flexibility

Depending on customer requirements, DCN can provision Ethernet connections dynamically using either "E-Line" or "E-LAN" network topologies.

**E-Line:** An Ethernet Virtual Point-to-Point connection between two locations.

**E-LAN:** A fully meshed network topology enabling multiple sites to communicate seamlessly across the DCN Ethernet Core.

## Scalability

Customers have the flexibility to order Ethernet service in increments of 1.5 Mbps – up to 10 Gbps.

## Service Level Agreement (SLA)

DCN guarantees that Carrier Ethernet Service will meet or exceed customer expectations. DCN stands behind every network with a quality commitment outlined in a Service Level Agreement (SLA). The SLA clearly defines latency, throughput and network availability guarantees for customer traffic on DCN's Carrier Ethernet Core.

## Low Cost Solution

Compared with traditional wide area network platforms, Carrier Ethernet offers lower cost bandwidth and reduces the investment in Customer Premise Equipment (CPE).

## Pricing Options

Metro and Wide Area Ethernet Ports can be purchased on the following levels:

- T1 or Bonded T1 (Up to 8 T1's)
- 10/100 Ethernet
- 1 Gigabit Ethernet
- 10 Gigabit Ethernet

## Multiple Classes of Service (CoS)

DCN's Carrier Ethernet Service offers the ability to provision multiple classes of service (CoS) across the DCN Ethernet network. CoS allows for the prioritization of voice, video and data applications on all Ethernet connections across the state.

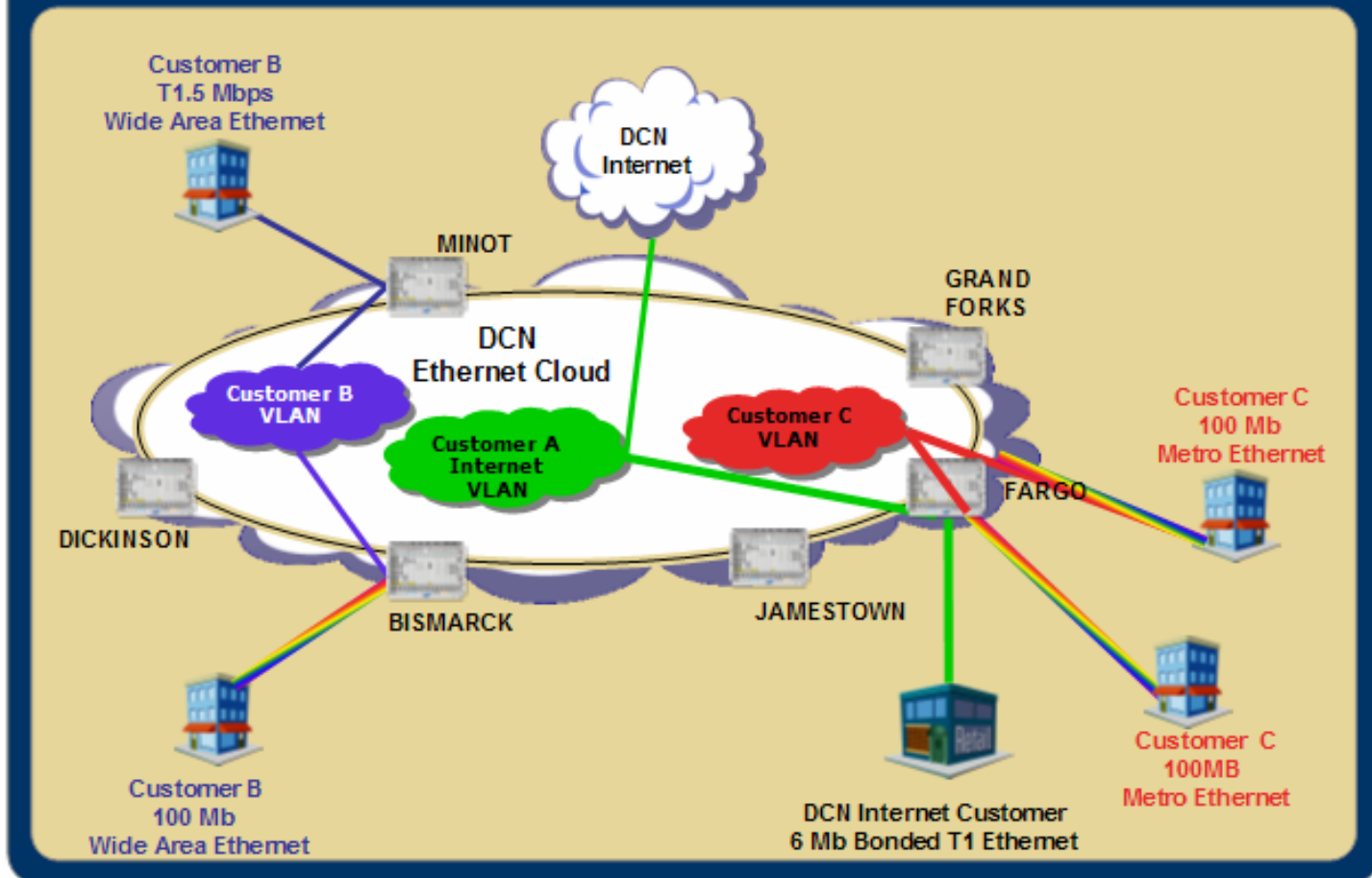
**Standard CoS:** Traffic not needing precedence across the network. Example: A "Best Effort" application such as web browsing.

**Silver CoS:** Applications requiring a guaranteed bandwidth (level of throughput) across the DCN Ethernet network. Example: H.323 video conferencing services

**Gold CoS:** Reserved for low latency, bandwidth intense, mission critical applications. Example: Voice over IP traffic

# DCN Ethernet Services

## DCN Ethernet Examples



DCN's Ethernet Service Powered By:



For More Information

For more information log onto DCN's website at [www.dakotacarrier.com](http://www.dakotacarrier.com) or call 800-814-3333.

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