

**1. AT&T Dedicated Ethernet (cont'd)**

**1.1 Service Description (cont'd)**

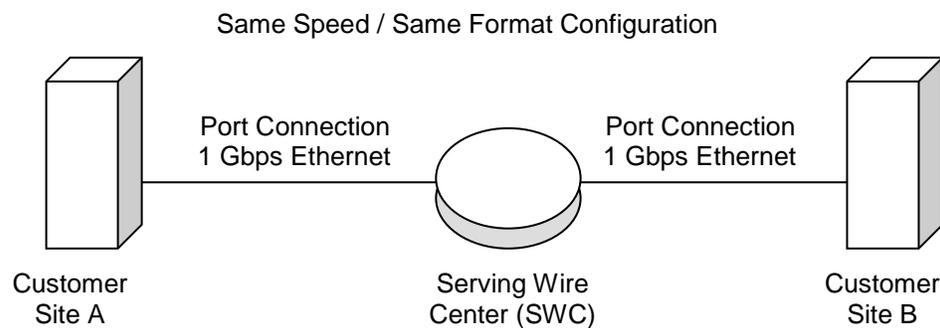
C. Port Connection (cont'd)

AT&T Dedicated Ethernet is available with the following Port Connection configurations:

**1. Same Speed / Same Format**

(T)

- Ethernet to Ethernet (e.g., 1GE to 1GE); or
- Optical Transport Network (OTN) to Optical Transport Network (OTN) (e.g., OTU1 to OTU1)

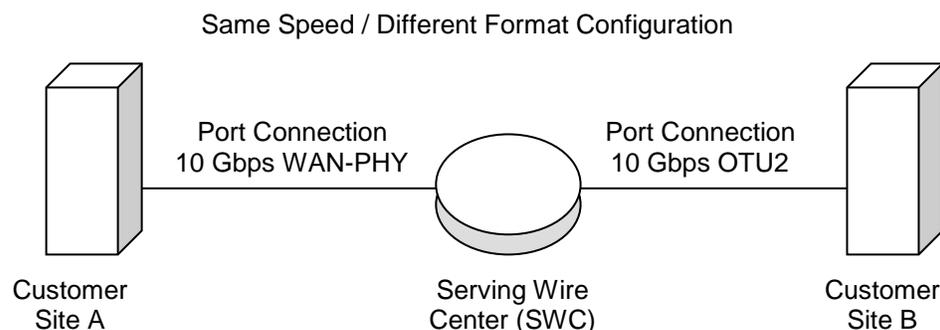


This example illustrates a 1Gbps Ethernet circuit from Customer Site A to Customer Site B for a same speed / same format arrangement. In this example, two – 1 Gbps Ethernet Port Connection charges are applicable.

**2. Same Speed / Different Format**

(T)

- Optical Transport Network (OTN) to Ethernet (e.g., 10GE to OTU2)



This example illustrates a same speed / different format circuit configuration where there is a 10Gbps WAN-PHY Port Connection between Customer Site A and the serving wire center and a 10Gbps OTU2 Port Connection between Customer Site B and the serving wire center. In this circuit example, both a 10Gbps WAN-PHY and a 10Gbps OTU2 Port Connection charge would apply.

**1. AT&T Dedicated Ethernet (cont'd)**

**1.1 Service Description (cont'd)**

C. Port Connection (cont'd)

AT&T Dedicated Ethernet is available with the following Port Connection configurations: (cont'd)

3. Higher Speed Aggregation

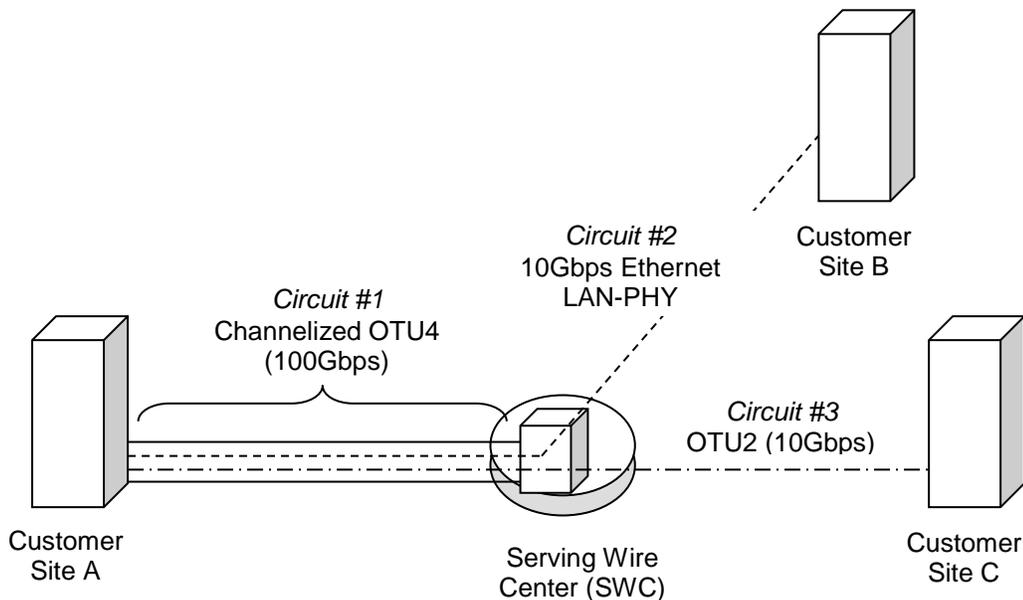
Higher Speed Aggregation permits Customers to connect a lower-speed AT&T Dedicated Ethernet Port Connection to a channelized, higher-speed AT&T Dedicated Ethernet Port Connection.

OTU2 (10Gbps) and OTU4 (100Gbps) AT&T Dedicated Ethernet Port Connections may be purchased as either channelized or non-channelized. A channelized Port Connection includes a channelized circuit that terminates at a multiplexer within a serving wire center.

A channelized OTU2 Port Connection can be connected to up to eight (8) 1 Gbps Ethernet Port Connections or four (4) OTU1 Port Connections, or any other combination of such Port Connections, up to the available capacity of the channelized OTU2 Port Connection.

A channelized OTU4 Port Connection can be connected to up to ten (10) 10 Gbps Ethernet Port Connections in any combination of types (10GE LAN-PHY, 10GE WAN-PHY, OTU2e or OTU2), up to the available capacity of the channelized OTU4 Port Connection.

Higher Speed Aggregation Configuration (example)



**1. AT&T Dedicated Ethernet (cont'd)****1.1 Service Description (cont'd)****C. Port Connection (cont'd)**

AT&T Dedicated Ethernet is available with the following Port Connection configurations:  
(cont'd)

**3. Higher Speed Aggregation (cont'd)**

In the example of a higher speed aggregation arrangement depicted in the diagram above, there are three AT&T Dedicated Ethernet circuits as follows:

- Circuit #1 – A Channelized OTU4 (100Gbps) circuit from Customer Site A that terminates at a multiplexer within the Serving Wire Center.

One (1) OTU4 (100Gbps) Port Connection monthly recurring charge applies to Circuit #1.

- Circuit #2 – A 10Gbps Ethernet LAN-PHY circuit from Customer Site B to Customer Site A. Circuit #2 occupies a channel of the higher-speed Circuit #1 from the Serving Wire Center location to Customer Site A.

One (1) 10 Gbps Ethernet LAN-PHY Port Connection monthly recurring charge applies to Circuit #2 for the Port Connection at Customer Site B.

No Port Connection charge applies to the portion of Circuit #2 that occupies a channel of Circuit #1 (i.e., SWC to Customer Site A).

- Circuit #3 – An OTU2 (10Gbps) circuit from Customer Site C to Customer Site A. Circuit #3 occupies a channel of the higher-speed Circuit #1 from the Serving Wire Center location to Customer Site A.

One (1) OTU2 (10Gbps) Port Connection monthly recurring charge applies to Circuit #3 for the Port Connection at Customer Site C.

No Port Connection charge applies to the portion of Circuit #3 that occupies a channel of Circuit #1 (i.e., SWC to Customer Site A).

**1. AT&T Dedicated Ethernet (cont'd)**

**1.1 Service Description (cont'd)**

**D. Protection and Diversity Options**

Protection and Diversity options are available for the AT&T Dedicated Ethernet as follows:

*Protection Options*

- Port Protection Plus

*Diversity Options*

- Port Diversity
- Alternate Wire Center Diversity
- Inter-Wire Center Diversity

Protection cannot be combined with Diversity options except in the case of a stand-alone Alternate Wire Center Diversity option.

Protection and Diversity options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, *Special Construction* charges as set forth in Part 2, Section 3 may apply.

**1. Protection Options**

Protection offers a duplicate AT&T Dedicated Ethernet signal routed on two different fiber pairs (a working path and a standby path) to provide increased reliability.

In the event of a failure of the working path, the AT&T Dedicated Ethernet will switch to the surviving path. In the event of a failure to both fiber transmission paths, an out-of-service condition will result.

Limitations:

- Protection is not available for same speed / different format circuit configurations.
- Protection is not available for higher speed aggregation configurations (i.e., protection is not available for Channelized circuits and circuits connecting with a channelized circuit). (N)
- Protection is not available for Meet Point arrangements. See paragraph 1.1, E. for more information on Meet Point arrangements. (N)

The following Protection options are available for AT&T Dedicated Ethernet:

**a. Port Protection Plus**

Port Protection Plus is an end-to-end (fully protected) protection option that offers a duplicate AT&T Dedicated Ethernet signal routed over two diversely routed fiber paths, a working path and a standby path, from Customer Site to Customer Site. Port Protection Plus also includes dual card protection at each Customer Site whereby the working path and standby paths terminate into two separate cards on a single shelf in the NTE at each of the Customer Sites.

The Port Protection Plus optional feature must be selected for both Customer Sites in addition to the normal Port Connection charges.

Port Protection Plus is available only for AT&T Dedicated Ethernet circuits that meet the following conditions:

- The circuit must be configured as a same speed / same format arrangement.

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**1. AT&T Dedicated Ethernet (cont'd)****1.1 Service Description (cont'd)****D. Protection and Diversity Options (cont'd)****2. Diversity Options**

Diversity options minimize single points of failure by creating two circuits, or portions of a circuit, that are diverse from one another. With these arrangements, one or more circuits will be provisioned over the normal path and one or more circuits will be provisioned over the diverse path. Customers may transport traffic over both circuits.

Customers requesting diversity will be billed for two circuits plus the applicable diversity charge(s) for the portions of the circuit that are physically diverse.

Diversity options do not include construction of dual entrance facilities. If a Customer desires dual entrance facilities and they do not currently exist, arrangements must be made for constructing dual entrance facilities at the Customer's expense.

**Limitations:**

- Port Diversity and Alternate Wire Center Diversity cannot be selected at the same Customer Site location for the same AT&T Dedicated Ethernet Port Connection.
- Diversity options are not available for Meet Point arrangements. See paragraph 1.1, E. for more information on Meet Point arrangements. (N)

(M)

**1. AT&T Dedicated Ethernet (cont'd)**

**1.1 Service Description (cont'd)**

D. Protection and Diversity Options (cont'd)

2. Diversity Options (cont'd)

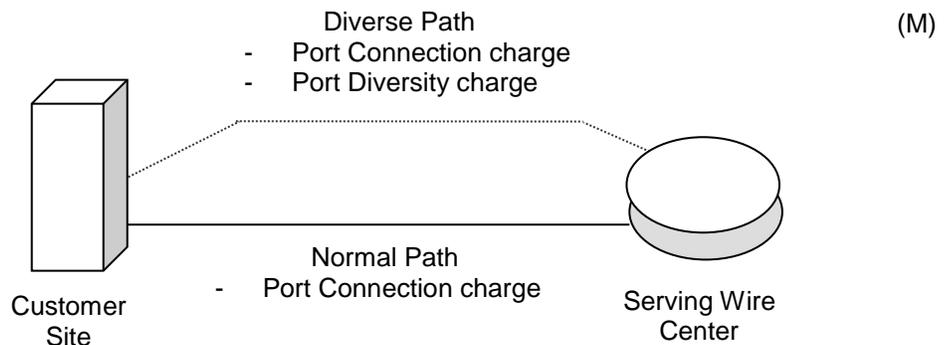
The following Diversity options are available for AT&T Dedicated Ethernet: (M)

a. Port Diversity (M)

Port Diversity is a feature that provides transmission paths (a normal path and a diverse path) which are diverse from each other between two designated AT&T Dedicated Ethernet Port Connections at the same Customer Site and its serving wire center. (M)

The fiber path from each designated Port Connection to its serving wire center will be diverse from each other from the closest available point of divergence (e.g., the closest manhole to the Customer Site). These two designated Port Connections must be purchased by the same Customer. (M)

Port Diversity requires the Customer to purchase duplicate Port Connections (to establish a normal path and a diverse path) from the Customer Site(s) to its serving wire center(s). In addition, a Port Diversity charge applies on the diverse path circuit for each pair of designated Port Connections at any Customer Site where Port Diversity is requested. (M)



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**1. AT&T Dedicated Ethernet (cont'd)****1.1 Service Description (cont'd)****E. Meet Point Arrangements**

In some cases, the Company and another Incumbent Local Exchange Carrier (ILEC, sometimes referred to as an Independent Company or ICO) may agree to jointly provide service where such service will be provided to locations in both the Company's and the other ILEC's serving territories within the same LATA. In such cases, the Company and the other ILEC may mutually agree to meet at a location (i.e., meet point) within the LATA utilizing facilities suitable for delivery of AT&T Dedicated Ethernet. (C)

The Company is responsible for the ordering, provisioning, billing and maintenance of such AT&T Dedicated Ethernet service up to the meet point. (N)

The rates and charges for AT&T Dedicated Ethernet are applicable for the Company-provided portion of such service as follows: (N)

- One Port Connection charge applies for the portion of the circuit provided by the Company. (N)
- The Administrative Charge applies in full per order received. (N)
- The Design and Central Office Connection Charge applies in full per AT&T Dedicated Ethernet circuit. (N)
- The Customer Connection Charge applies for the termination of the Port Connection provided by the Company. (N)

Service Level Agreement (SLA) credits in paragraph 1.4, A.1 will apply only to the Company-provided portion of the service. (N)