

**SERVICE ATTACHMENT 14
TO THE MASTER AGREEMENT**

**AT&T DEDICATED ETHERNET (ILEC STATE EXCHANGE) (“ADE”)
PRICING SCHEDULE**

AT&T MA Reference No. 20130305-6758
AT&T Contract ID No. ADEKUNDX4

November 3, 2016

SERVICE ATTACHMENT 14

**AT&T DEDICATED ETHERNET (ILEC STATE EXCHANGE)
PRICING SCHEDULE PROVIDED PURSUANT TO CUSTOM SERVICE PUBLICATION RATES AND TERMS**

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This Service Attachment (the “Service Attachment”) to the Master Services Agreement effective May 20, 2010 (the “MSA”), is between AT&T Corp. on behalf of the AT&T entity authorized to provide Services hereunder: The Ohio Bell Telephone Company d/b/a AT&T Ohio (“Vendor” or “AT&T”) and the **State of Ohio Department of Administrative Services** (the “State”).

The State and Vendor are also referred to herein individually as a “Party” and collectively as the “Parties”. Terms used but not defined herein have the meanings as set forth in the MSA.

WHEREAS, Vendor desires to provide to the State and the Subscribing Entities certain services described herein as **AT&T DEDICATED ETHERNET (ILEC STATE EXCHANGE)**, upon the terms and conditions set forth in the MSA and such additional terms and conditions as set forth herein; and

WHEREAS, the Parties desire to execute this Service Attachment to the MSA.

NOW THEREFORE, in consideration of the conditions and covenants contained herein, the Parties mutually agree as follows:

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1. SERVICE, SERVICE PROVIDER(S) and SERVICE PUBLICATION(S)

Service	<p>AT&T Dedicated Ethernet (“ADE”) is a fiber-based, point-to-point, Ethernet service that allows the Subscribing Entity to transport data signals between two locations. A solution that connects the Subscribing Entity data service within the same local access and transport area (intraLATA) and transmits data at speeds up to 100 Gbps. ADE can be used to transport data as a native Ethernet signal or embedded within an Optical Transport Network (OTN) signal. ADE supports an unprotected and non-diverse configuration and also offers you optional diversity and data protection features.</p> <p>Our AT&T Dedicated Ethernet can interface natively to your Ethernet-based equipment. Consequently, it provides the Subscribing Entity with high capacity and efficient data transport without the need for special equipment or protocol conversion.</p> <p>A robust Dense Wavelength Division Multiplexing (DWDM) network supports our AT&T Dedicated Ethernet. This high-availability network provides the Subscribing Entity with maximum uptime and delivers outstanding performance.</p> <p>The supported speeds on ADE are 1G, 2.5G, 10G, 40G, and 100G.</p> <p>See Appendix A for additional product description</p>
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Service Provider	Service Publication (Appendix A) Link below included for convenience	Service Publication Location (URL)
AT&T Ohio	<p>AT&T Ohio Service Publications</p> <ul style="list-style-type: none"> ◆ AT&T Exchange Guidebook <ul style="list-style-type: none"> ● Part 3 Data Offerings <ul style="list-style-type: none"> ○ Section 1 AT&T Dedicated Ethernet 	<p>The AT&T Exchange Guidebook: http://cpr.att.com/pdf/ex/0003-0001.pdf</p> <p>The above described link contains service descriptions of AT&T Dedicated Ethernet offered by AT&T. The order of precedence among the documents that constitute the agreement between the Parties is specified in the Section 1.15 of the MSA.</p>

2. PRICING SCHEDULE TERM, EFFECTIVE DATES

Pricing Schedule Term	The Term of this Pricing Schedule shall carry a 60 month Term.
Start Date of Minimum Payment Period, per Service Component	Minimum Payment Period (MPP) start date is the installation date of each Service Component under each Subscribing Entity's Service Order. The MPP options include 12 month period, a 24 month period, a 36 month period, or a 60 month period
Rate Stabilization per Service Component	Rates as specified in the Pricing Schedule in section 5.2 (Service Components, Rates and Charges (ICB)), for each Service Component installed are stabilized until the end of the Minimum Payment Period.
Pricing following the end of Minimum Payment Period or Pricing Schedule Term	<p>The Monthly Extension Rate (not to exceed rate) listed in Appendix A (section 1.1.5. Rates and Charges) applies upon expiration of each Service Component's Service Order Minimum Payment Period.</p> <p>Upon expiration of the Pricing Schedule Term, if such Term is not extended pursuant to the Renewal option below, the Pricing Schedule shall expire.</p>

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2.1 Renewal Options

Vendor provide at least 60 days' notice to Subscribing Entity of pending expiration of a Minimum Payment Period for each Service Order. At the conclusion of that 60 day notice period, the expiring circuit will revert at the Monthly Extension Rate ('not to exceed rate') as listed in Appendix A, unless otherwise renewed, orders pending, or disconnected by the Subscribing Entity.

3. MINIMUM PAYMENT PERIOD / EARLY TERMINATION CHARGES

Service Components	Percentage of Monthly Recurring Charges (MRC) Applied for Calculation of Early Termination Charges	Minimum Payment Period per Service Component
All Service Components	50% of the MRC multiplied by the number of months remaining in the Minimum Payment Period	See section 2 above

4. ADDS; MOVES

4.1 Adds

Adds are permitted in form of a Service Order, each Subscribing Entity's Service Order will carry its own selected Minimum Payment Period.

4.2 Moves

Moves are permitted upon receipt of Subscribing Entity's Service Order. Rates for Moves of Service Components, the non-recurring charges, will be quoted and priced on an Individual Case Basis (ICB). MRC and Term remain unchanged per original order.

5. RATES AND CHARGES; QUANTITIES; SITE CONFIGURATION

5.1 Application of rates and all rate tables in this Pricing Schedule:

- The Service Components and Rates listed herein are Individual Case Basis (ICB) pricing and apply to all orders during the Minimum Payment Period, which shall be contained in service orders issued pursuant to this Pricing Schedule, and may be subject to service availability and AT&T order acceptance.
- Upon expiration of a Service Order Minimum Payment Period, the Monthly Extension Rate (not to exceed rate) Appendix A (section 1.1.5. Rates and Charges) may apply.
- The applicable USOC is the last five (5) characters of the code displayed for each Service Component – the remaining characters are for internal AT&T use only.
- Charges for special construction that may be assessed, if needed, will be quoted.
- All quotes shall include the quantity and cost of the Service Components / USOCs necessary to deliver the Service.
- Nonrecurring and Recurring charge types are further defined in Appendix A (Section 1.1.2 Types of Rates and Charges)

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5.2 Service Components, Rates and Charges (ICB)

ICB rates apply to all orders during the Minimum Payment Period and Monthly Extension Rate (‘not to exceed’) cost for the Service Components upon expiration of the Minimum Payment Period, as defined in Appendix A, Section 1.1.5.

Service Components / USOC	Quantity New	MRC, per unit	NRC, per unit
Port Connection / 1 GE Native Ethernet / EYXAL-EYFNX	0	ICB	ICB
Port Connection / 10 GE LAN-PHY / EYXCL-EYFNX	0	ICB	ICB
Port Connection / 10 GE WAN-PHY / EYXCL-EYFNX	0	ICB	ICB
Port Connection / 40 GE Native Ethernet / EYXDL-EYFNX	0	ICB	ICB
Port Connection / 100 GE Native Ethernet / EYXEL-EYFNX	0	ICB	ICB
Port Connection / OTU1 (2.5 Gbps) / EYXBL-EYFOX	0	ICB	ICB
Port Connection / OTU2 / OTU2e (10 Gbps) / EYXCL-EYFOX	0	ICB	ICB
Port Connection / OTU3 (40 Gbps) / EYXDL-EYFOX	0	ICB	ICB
Port Connection / OTU4 (100 Gbps) / EYXEL-EYFOX	0	ICB	ICB
Port Diversity / 1 GE Native Ethernet / EYXAL-DV9AX	0	ICB	ICB
Port Diversity / 10 GE LAN-PHY / EYXCL-DV9AX	0	ICB	ICB
Port Diversity / 10 GE WAN-PHY / EYXCL-DV9AX	0	ICB	ICB
Port Diversity / 40 GE Native Ethernet / EYXDL-DV9AX	0	ICB	ICB
Port Diversity / 100 GE Native Ethernet / EYXEL-DV9AX	0	ICB	ICB
Port Diversity / OTU1 (2.5 Gbps) / EYXBL-DV9AX	0	ICB	ICB
Port Diversity / OTU2 / OTU2e (10 Gbps) / EYXCL-DV9AX	0	ICB	ICB
Port Diversity / OTU3 (40 Gbps) / EYXDL-DV9AX	0	ICB	ICB
Port Diversity / OTU4 (100 Gbps) / EYXEL-DV9AX	0	ICB	ICB
Port Protection Plus / 10 GE LAN-PHY / EYXCL-DV9CX	0	ICB	ICB
Port Protection Plus / 10 GE WAN-PHY / EYXCL-DV9CX	0	ICB	ICB
Port Protection Plus / 40 GE Native Ethernet / EYXDL-DV9CX	0	ICB	ICB
Port Protection Plus / 100 GE Native Ethernet / EYXEL-DV9CX	0	ICB	ICB
Port Protection Plus / OTU2 / OTU2e (10 Gbps) / EYXCL-DV9CX	0	ICB	ICB
Port Protection Plus / OTU3 (40 Gbps) / EYXDL-DV9CX	0	ICB	ICB
Port Protection Plus / OTU4 (100 Gbps) / EYXEL-DV9CX	0	ICB	ICB
Alt WireCtr Diversity / 1 GE Native Ethernet / EYXAL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / 10 GE LAN-PHY / EYXCL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / 10 GE WAN-PHY / EYXCL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / 40 GE Native Ethernet / EYXDL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / 100 GE Native Ethernet / EYXEL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / OTU1 (2.5 Gbps) / EYXBL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / OTU2 / OTU2e (10 Gbps) / EYXCL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / OTU3 (40 Gbps) / EYXDL-CPAAX	0	ICB	ICB
Alt WireCtr Diversity / OTU4 (100 Gbps) / EYXEL-CPAAX	0	ICB	ICB
Inter WireCtr Diversity / 1 GE Native Ethernet / EYXAL-DV9BX	0	ICB	ICB

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Service Components / USOC	Quantity New	MRC, per unit	NRC, per unit
Inter WireCtr Diversity / 10 GE LAN-PHY / EYXCL-DV9BX	0	ICB	ICB
Inter WireCtr Diversity / 10 GE WAN-PHY / EYXCL-DV9BX	0	ICB	ICB
Inter WireCtr Diversity / 40 GE Native Ethernet / EYXDL-DV9BX	0	ICB	ICB
Inter WireCtr Diversity / 100 GE Native Ethernet / EYXEL-DV9BX	0	ICB	ICB
Inter WireCtr Diversity / OTU1 (2.5 Gbps) / EYXBL-DV9BX	0	ICB	ICB
Inter WireCtr Diversity / OTU2 / OTU2e (10 Gbps) / EYXCL-DV9BX	0	ICB	ICB
Inter WireCtr Diversity / OTU3 (40 Gbps) / EYXDL-DV9BX	0	ICB	ICB
Inter WireCtr Diversity / OTU4 (100 Gbps) / EYXEL-DV9BX	0	ICB	ICB
Customer Conn Charge / 1 GE Native Ethernet / EYXAL-NRBBL	0	ICB	ICB
Customer Conn Charge / 10 GE LAN-PHY / EYXCL-NRBBL	0	ICB	ICB
Customer Conn Charge / 10 GE WAN-PHY / EYXCL-NRBBL	0	ICB	ICB
Customer Conn Charge / 40 GE Native Ethernet / EYXDL-NRBBL	0	ICB	ICB
Customer Conn Charge / 100 GE Native Ethernet / EYXEL-NRBBL	0	ICB	ICB
Customer Conn Charge / OTU1 (2.5 Gbps) / EYXBL-NRBBL	0	ICB	ICB
Customer Conn Charge / OTU2 / OTU2e (10 Gbps) / EYXCL-NRBBL	0	ICB	ICB
Customer Conn Charge / OTU3 (40 Gbps) / EYXDL-NRBBL	0	ICB	ICB
Customer Conn Charge / OTU4 (100 Gbps) / EYXEL-NRBBL	0	ICB	ICB
Design CO Charge / 1 GE Native Ethernet / EYXAL-NRBCL	0	ICB	ICB
Design CO Charge / 10 GE LAN-PHY / EYXCL-NRBCL	0	ICB	ICB
Design CO Charge / 10 GE WAN-PHY / EYXCL-NRBCL	0	ICB	ICB
Design CO Charge / 40 GE Native Ethernet / EYXDL-NRBCL	0	ICB	ICB
Design CO Charge / 100 GE Native Ethernet / EYXEL-NRBCL	0	ICB	ICB
Design CO Charge / OTU1 (2.5 Gbps) / EYXBL-NRBCL	0	ICB	ICB
Design CO Charge / OTU2 / OTU2e (10 Gbps) / EYXCL-NRBCL	0	ICB	ICB
Design CO Charge / OTU3 (40 Gbps) / EYXDL-NRBCL	0	ICB	ICB
Design CO Charge / OTU4 (100 Gbps) / EYXEL-NRBCL	0	ICB	ICB
Admin Charge / 1 GE Native Ethernet / EYXAL-ORCMX	0	ICB	ICB
Admin Charge / 10 GE LAN-PHY / EYXCL-ORCMX	0	ICB	ICB
Admin Charge / 10 GE WAN-PHY / EYXCL-ORCMX	0	ICB	ICB
Admin Charge / 40 GE Native Ethernet / EYXDL-ORCMX	0	ICB	ICB
Admin Charge / 100 GE Native Ethernet / EYXEL-ORCMX	0	ICB	ICB
Admin Charge / OTU1 (2.5 Gbps) / EYXBL-ORCMX	0	ICB	ICB
Admin Charge / OTU2 / OTU2e (10 Gbps) / EYXCL-ORCMX	0	ICB	ICB
Admin Charge / OTU3 (40 Gbps) / EYXDL-ORCMX	0	ICB	ICB
Admin Charge / OTU4 (100 Gbps) / EYXEL-ORCMX	0	ICB	ICB

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5.2A. Nonrecurring Charges

Nonrecurring charges are one-time charges that may apply for specific work activity and may apply to each Service regarding Installation of the Service and are quoted as ICB. See Section 1.1.2 of Appendix A for more information.

5.3 CIRCUIT(S), LOCATION(S)

SERVICE	LOCATION(s) which are contained in service orders issued pursuant to this Pricing Schedule
ADE	Subscribing Entity Sites in the AT&T service areas in Ohio

6. SPECIAL TERMS AND CONDITIONS

6.1 Service Level Agreement (SLA)

- A. **Stabilization of SLA.** On the Effective Date of the Pricing Schedule, the SLA terms in this section 6.1 are restated, as published in the AT&T EXCHANGE GUIDEBOOK section 1.4, and these SLA Terms shall be stabilized upon installation of the Service during the Service Order Pricing Schedule Term (“Stabilized SLA”), unless a More Favorable SLA Term applies.
- B. **More Favorable SLA Term.** A More Favorable SLA Term is an SLA published in the AT&T EXCHANGE GUIDEBOOK section 1.4 that is more favorable to the Subscribing Entity than the corresponding Stabilized SLA and shall apply in lieu of the Stabilized SLA.
- C. **SLA Claims Process.** Subscribing Entity should use the process for submitting SLA claims described in section 6.1.1A.2. All claims must be marked “Stabilized SLA” in the notes field.

6.1.1A. CREDIT ALLOWANCE FOR SERVICE INTERRUPTIONS

AT&T Dedicated Ethernet provides credits in the event of a service interruption. The amount of the credit depends on whether AT&T Dedicated Ethernet is unprotected or protected.

A service is interrupted when it becomes unusable to the Subscribing Entity because of a failure of a facility component used to furnish service under this Service Attachment, or in the event that the protective controls applied by the Vendor result in the complete loss of service by the Subscribing Entity for reasons not attributable to the Subscribing Entity. An interruption period starts when a service disruption of greater than ten (10) consecutive seconds is reported to the Vendor and the Vendor confirms that continuity of its service has been lost. An interruption period ends when the service is operative.

The service interruption credits listed below are in lieu of, and not in addition to, the credit allowances for service interruptions provided for in other Parts/Sections of the Guidebook or this Service Attachment.

1. Credit Allowance for Service Interruptions (For Unprotected Arrangements)

In case of an interruption to an unprotected AT&T Dedicated Ethernet circuit, an allowance for the period of interruption shall be calculated as follows:

- No credit shall be allowed for an interruption of less than 10 seconds.
- Credit will be provided for an interruption of 10 seconds or more at the rate of 10/8640 of the monthly charges for the affected AT&T Dedicated Ethernet circuit for each period of 5 minutes thereof that the interruption continues.

The credit allowance(s) for service interruptions shall not exceed 100 percent of the applicable monthly rates for the affected circuit(s).

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2. Credit Allowance for Service Interruptions (Fully Protected)

A Service Level Agreement (SLA) of 99.999 percent Service Availability performance in each calendar month is provided for each fully protected AT&T Dedicated Ethernet circuit, subject to the limitations set forth herein.

An AT&T Dedicated Ethernet circuit is considered to be fully protected when the Port Protection Plus feature is selected on both ends (both Port Connections) of an AT&T Dedicated Ethernet circuit.

If this SLA is not met in any calendar month, the Subscribing Entity will be entitled to a credit equal to 100 percent of the monthly rate for the Port Connections which were interrupted, including the protection feature rate elements associated with that Port Connection, not to exceed the total monthly charges for the affected circuit(s).

To qualify as a service interruption for the purposes of determining whether this Service Availability SLA has been met, any service interruption must be greater than ten (10) consecutive seconds and determined by the Vendor to be in its network. The Subscribing Entity is responsible for notifying the Vendor when the service parameter within the calendar month falls below the committed level. The Subscribing Entity must request a service credit adjustment within 25 days after the end of the month when the failure occurred.

6.1.1B. SLA EXCLUSIONS

The SLA provisions, measurements, and eligibility for credit shall exclude conditions wherein service performance was adversely affected by any of the following conditions:

- Any cause beyond the Vendor's reasonable control (force majeure events) including, but not limited to, acts of war, civil disturbances, acts of civil or military authorities or public enemies, earthquakes, hurricanes, floods, fires, storms, tornadoes, explosions, lightning, power surges or failures, fiber cuts, strikes or labor disputes;
- Failures of any structures, facilities or equipment provided by the Subscribing Entity or its contractors, equipment vendors, or by any carrier or service provider other than the Vendor;
- Interruptions caused by the negligence of the Subscribing Entity.
- Interruptions of a service during any period in which the Vendor is not afforded access to the premises where the service is terminated.
- When the Vendor and the Subscribing Entity negotiate the release of the service for (1) maintenance purposes, (2) to make rearrangements or (3) to implement an order for a change in the service, a credit does not apply during the negotiated time of release.
- Periods when the Subscribing Entity elects not to release the service for testing and/or repair and continues to use it on an impaired basis.
- Data loss during the Vendor's scheduled maintenance windows;
- Failures of any structures, facilities or equipment on the Subscribing Entity side of the demarcation point.

The total credit amount of any allowances for interruptions and SLA credits applicable in a given month shall not exceed 100% of the monthly recurring charge for the affected AT&T Dedicated Ethernet circuit(s).

6.2. Protection and Diversity Options

Availability of Protection and Diversity Options are further defined in Appendix A, Section 1.1.1 D 2. Charges for Diversity Options are defined in Appendix A (Section 1.1.5C Optional Features / Diversity Options). Diversity Options do not include construction of dual entrance facilities, and any AT&T costs may be quoted as ICB.

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6.3 Upgrades

The Service Publication’s ADE upgrades are restated below for convenience.

The following activities are considered Upgrades for AT&T Dedicated Ethernet:

- Upgrades of AT&T Dedicated Ethernet from a lower capacity to a higher-speed option (e.g., conversion from a 1Gbps to a 10Gbps speed option).
- Adding a protection option to an unprotected AT&T Dedicated Ethernet circuit.
- Same speed conversions of AT&T Dedicated Ethernet (e.g. 10GE LAN PHY to 10GE WAN PHY, 40GE to OTU3, etc.).
- Replacement of AT&T Dedicated Ethernet with another Company-provided service at a transport speed or capacity greater than the speed or capacity available with AT&T Dedicated Ethernet, or at the same transport speed or capacity as available with AT&T Dedicated Ethernet but with enhanced technology or functionality not available with AT&T Dedicated Ethernet.

Upgrades will be treated as a discontinuance of service and activation of new service. The State and/or Subscribing Entity must select a term for the new circuit. The monthly rates for the new service will be those rates in effect at the time the new service is installed. 100% of any waived nonrecurring charges will apply if term has not expired. The State and/or Subscribing Entity will experience an out of service condition unless overlapping service is requested. Upgrades are contingent on availability of equipment and fiber facilities. Special Construction charges, as necessary, may apply.

Termination Liability will not apply for upgrades, if all of the following conditions are met:

- The new and existing services must be billed to the same State and/or Subscribing Entity at the same State and/or Subscribing Entity location; and
- The State and/or Subscribing Entity’s existing AT&T Dedicated Ethernet must have been in place for at least 12 months; and
- The term for the new service must be equal to or greater than the remainder of the State and/or Subscribing Entity’s existing term; and
- The order for the new service and the disconnect order for the existing service must be placed by the State and/or Subscribing Entity and received by the Company on the same date; and
- If the State and/or Subscribing Entity requests that both the existing AT&T Dedicated Ethernet and the new higher level service be in service at the same time, such “overlapping” service shall be provided for no more than 90 days, and all applicable charges will be billed for both services during the period of overlapping

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The State has requested that AT&T sign this Service Attachment first, and AT&T has agreed to do so. This Service Attachment as signed by AT&T shall be binding upon the State of Ohio signature, and AT&T will begin implementing the Service Attachment when a fully signed copy is returned by the State, provided such fully signed copy is returned to AT&T no more than forty-five (45) days after AT&T delivered a signed copy to the State. Further, any and all changes made to the Service Attachment after signature by AT&T shall be void and of no effect, unless and until incorporated into a written amendment to this Service Attachment signed by both Parties, except for changes expressly authorized by the Terms of this Service Attachment.

In Witness Whereof, the Parties have executed this Amendment, which is effective on the date the State's duly authorized representative signs it on behalf of the State, ("**Effective Date**").

AT&T	State of Ohio, The Department of Administrative Services
By: <i>Cheryl Wankowski</i>	By: <i>Robert Blair/srd</i>
Printed Name: Cheryl Wankowski	Printed Name: Robert Blair/srd
Title: Senior Customer Contracts	Title: DAS Director Assistant Director/State CIO
Date: 3-7-17 Federal Tax ID: 34-0436390	Effective Date: <i>3/17/17</i>

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APPENDIX A

The following Service Publication sections 1.1 and 1.2 Service Descriptions are included for information only, and are stabilized as of the Effective Date of the Pricing Schedule (Service Attachment).

1. AT&T Dedicated Ethernet

1.1 Service Description

- A. AT&T Dedicated Ethernet is provided by the AT&T Incumbent Local Exchange Company (ILEC) in each of the following states: Alabama, Arkansas, California Out of Territory, Florida, Georgia, Illinois, Indiana, Kansas, Kentucky, Louisiana, Michigan, Mississippi, Missouri, Nevada, North Carolina, Ohio, Oklahoma, South Carolina, Tennessee, Texas (including Out of Territory) and Wisconsin.

AT&T Dedicated Ethernet is a fiber based, point-to-point, Ethernet service that allows Customers to transport data signals between two locations. AT&T Dedicated Ethernet can be used to transport data as a native Ethernet signal or embedded within an Optical Transport Network (OTN) signal.

AT&T Dedicated Ethernet is available at the following speed and format options:

Speed	Ethernet Formats	Optical Transport Unit (OTU) Formats
1Gbps	1GE - Gigabit Ethernet	Not available
2.5Gbps	Not available	OTU1
10Gbps	10GE LAN-PHY	OTU2e
	10GE WAN-PHY	OTU2
40Gbps	40GE	OTU3
100Gbps	100GE	OTU4

- B. Unless otherwise specified in this Section, the general terms and conditions of this Guidebook apply to AT&T Dedicated Ethernet (e.g., Part 2, Section 2).
- C. Port Connection

The Port Connection is the standard rate element that includes the service interface (point of demarcation) at the Customer-designated premises (Customer Site), any network termination equipment (NTE) placed at the Customer Site, and the physical transport facilities from the Customer Site to the AT&T Dedicated Ethernet network at the serving wire center for that Site.

One Port Connection charge applies per Customer Site at which the Port Connection is terminated.

Rates and charges for the Port Connection are provided in paragraph 1.5.

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APPENDIX A

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

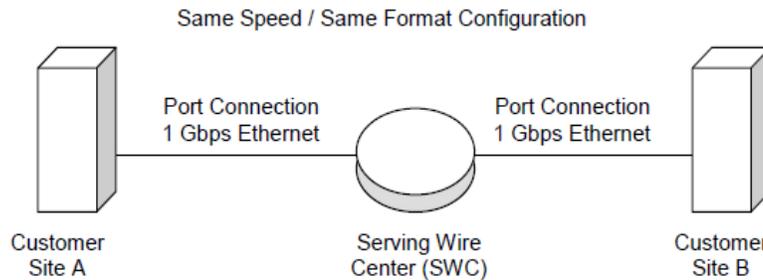
1.1 Service Description (cont'd)

C. Port Connection (cont'd)

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

1. Same Speed / Same Format (T)

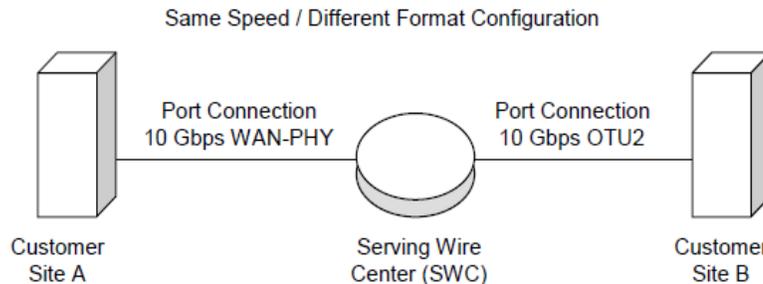
- Ethernet to Ethernet (e.g., 1GE to 1GE); or
- Optical Transport Network (OTN) to Optical Transport Network (OTN) (e.g., OTU1 to OTU1)



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.

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APPENDIX A

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

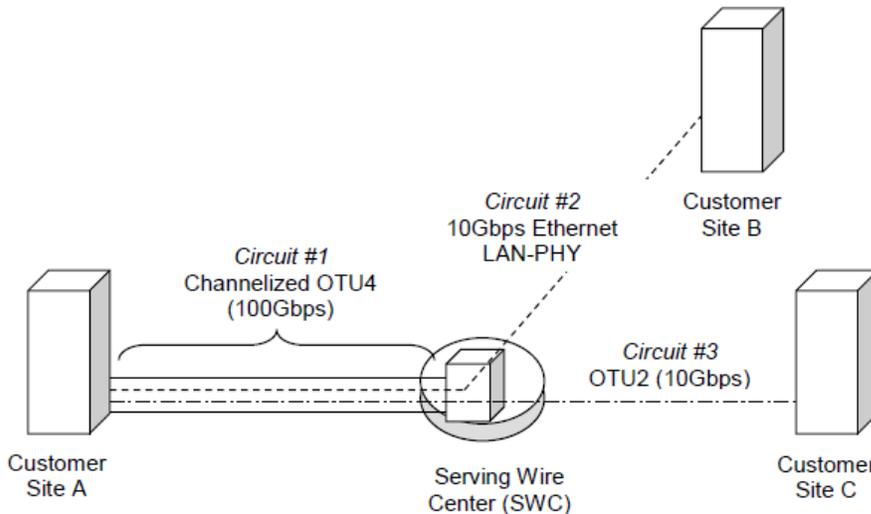
Higher Speed Aggregation permits Customers to connect a lower-speed AT&T Dedicated Ethernet Port Connection to a channelized, higher-speed AT&T Dedicated Ethernet Port Connection.

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)



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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).

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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:

<i>Protection Options</i>	<i>Diversity Options</i>
- Port Protection Plus	- 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)

* See section 6.2 for expenses regarding Diversity Options.

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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 (cont'd)

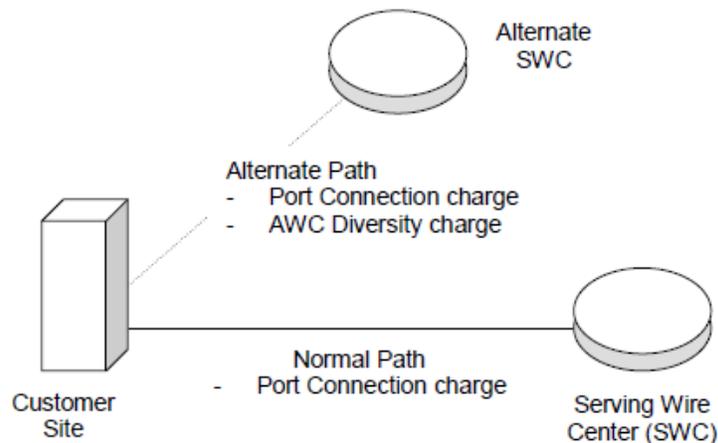
b. Alternate Wire Center Diversity

1. Alternate Wire Center 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 whereby the normal path is routed to its normal serving wire center and the diverse path is routed to an alternate wire center.

The Company will choose the alternate wire center that is capable of providing AT&T Dedicated Ethernet over the alternate route.

The fiber path from each designated Port Connection to its applicable serving wire center (normal and alternate) 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.

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



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

1.1 Service Description (cont'd)

D. Protection and Diversity Options (cont'd)

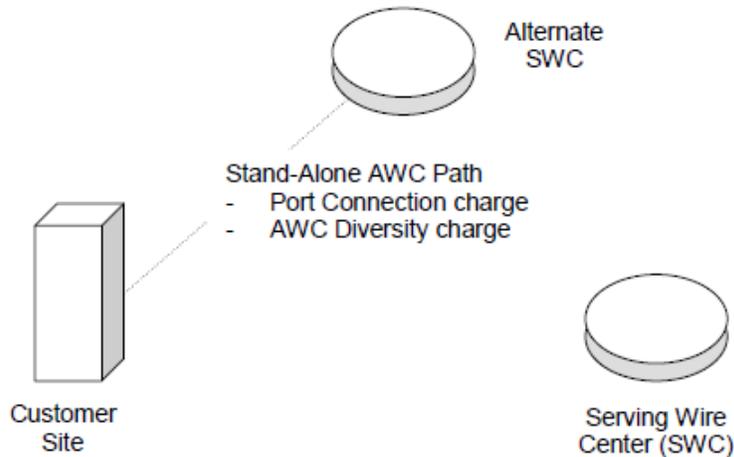
2. Diversity Options (cont'd)

b. Alternate Wire Center Diversity (cont'd)

2. Stand-Alone Alternate Wire Center (AWC) Routing

Alternate Wire Center Diversity is available as a stand-alone AWC arrangement where there is no actual diversity. In this arrangement, an AT&T Dedicated Ethernet Port Connection is routed to an alternate wire center rather than its normal serving wire center.

The Customer is assessed a Port Connection charge and an Alternate Wire Center Diversity charge for a stand-alone AWC route connecting the Customer Site to the alternate serving wire center.



The Port Connection is routed to a SWC other than its normal SWC in a Stand-Alone AWC 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)

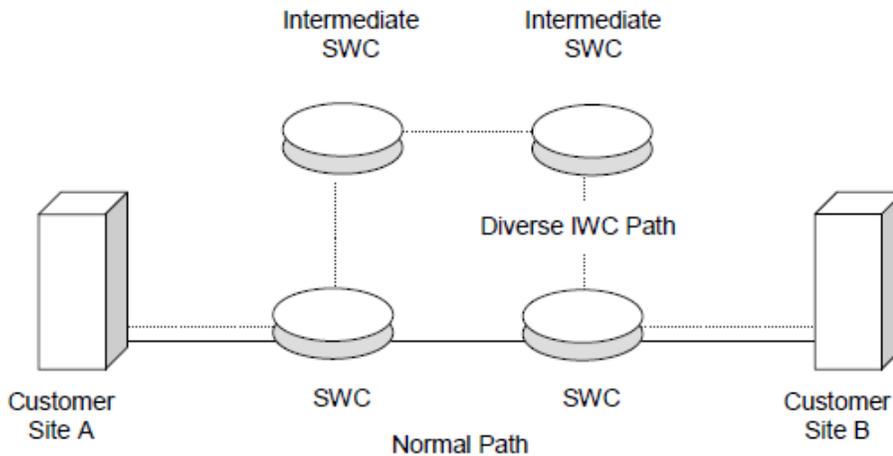
2. Diversity Options (cont'd)

c. Inter-Wire Center (IWC) Diversity

Inter-Wire Center Diversity is a feature that provides a transmission path between the serving wire centers for each end of the circuit that is separate from the normal transmission path. IWC Diversity arrangements are available only where each end of an AT&T Dedicated Ethernet circuit is provided from a different serving wire center.

Inter-Wire Center (IWC) Diversity requires the Customer to purchase duplicate Port Connections from each Customer Site to each serving wire center. An Inter-Wire Center Diversity charge applies to the AT&T Dedicated Ethernet circuit designated with the diverse IWC path.

The Inter-Wire Center Diversity option can be selected on its own or in combination with the Port Diversity and Alternate Wire Center Diversity options.



In the IWC Diversity example above, there are two AT&T Dedicated Ethernet circuits between Customer Site A and Customer Site B as follows:

- Circuit #1 is the normal path circuit and consists of two Port Connection charges.
- Circuit #2 has the Inter-Wire Center Diversity feature to provide a diverse IWC path from circuit #1. Circuit #2 consists of two Port Connection charges plus an Inter-Wire Center Diversity charge.

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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)

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

1.2 Types of Rates and Charges

Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service) related to the provisioning of AT&T Dedicated Ethernet. The types of nonrecurring charges that apply for AT&T Dedicated Ethernet are:

Installation of Service: Nonrecurring charges apply to each service installed.

The *Administrative Charge* is a nonrecurring charge that applies for each service order.

A *Design and Central Office Connection Charge* applies any time a customer-initiated order for service requires engineering design and/or connection or changes at the Company central office. This charge applies once per circuit.

A *Customer Connection Charge* applies any time a customer-initiated order for service requires connection or changes to a Port Connection. This charge applies once per Port Connection affected by the order.

Installation of Optional Features and Functions: Nonrecurring charges apply for the installation of the optional features and functions available with AT&T Dedicated Ethernet. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

Service Rearrangements: Service rearrangements are changes to existing (installed) services which do not result in either:

- A change in the minimum period of the service, or
- A change in the physical location of the point of termination at a Customer Site

Recurring Charges

Recurring Charges are rates that apply each month or fraction thereof that the service is provided. For billing purposes, each month is considered to have 30 days.

See paragraph 1.5, following, for Rates and Charges.

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The following Service Publication section 1.5 Rates and Charges are for information purposes only. The Monthly Extension Rate (not to exceed rate) are stabilized as of the Effective Date of the Pricing Schedule, and apply upon expiration of a Minimum Payment Period. The Nonrecurring Charges will be on an Individual Case Basis (ICB) pricing.

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

1.5 Rates and Charges

A. Standard Rates

<u>Description</u>	<u>USOC</u>	<u>Monthly Extension Rate</u>
<i>Port Connection</i>		
1 Gbps Ethernet	EYFNX	\$4,250.00
OTU1 (2.5Gbps)	EYFOX	8,500.00
10 Gbps Ethernet		
LAN-PHY	EYFNX	13,250.00
WAN-PHY	EYFNX	13,250.00
OTU2/2e (10Gbps)	EYFOX	14,575.00
40 Gbps Ethernet	EYFNX	33,125.00
OTU3 (40Gbps)	EYFOX	33,125.00
100 Gbps Ethernet	EYFNX	46,375.00
OTU4 (100Gbps)	EYFOX	51,000.00

B. Optional Features / Protection Options

<u>Description</u>	<u>USOC</u>	<u>Monthly Extension Rate</u>
<i>Optional Features</i>		
<i>Protection Options</i>		
<i>Port Protection Plus (USOC: DV9CX)</i>		
1 Gbps Ethernet		\$4,500.00
10 Gbps Ethernet		
LAN-PHY		15,300.00
WAN-PHY		15,300.00
OTU2/2e (10Gbps)		15,300.00
40 Gbps Ethernet		39,750.00
OTU3 (40Gbps)		39,750.00
100 Gbps Ethernet		61,200.00
OTU4 (100Gbps)		61,200.00

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

1.5 Rates and Charges (cont'd)

C. Optional Features / Diversity Options

Description <u>USOC</u>	Monthly Extension <u>Rate</u>
<i>Optional Features (cont'd)</i>	
Diversity Options	
<i>Port Diversity (USOC: DV9AX)</i> All speeds	1,100.00
<i>Alternate Wire Center (AWC) Diversity (USOC: CPAAX)</i> All speeds	1,275.00
<i>Inter-Wire Center (IWC) Diversity (USOC: DV9BX)</i> All speeds	850.00