

## ACCESS SERVICE

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2 General Regulations (Cont.)2.6 Definitions (Cont.)Estimated Cost Special Construction

The term "Estimated Cost" denotes all estimated costs that will be incurred in providing a specific case of special construction, including any appropriate taxes.

Ethernet

(N\*)

The term "Ethernet" denotes a high speed networking technology utilizing a packet-based Ethernet protocol. Ethernet enables broadband multimedia traffic (i.e., voice, data, and video) to be carried over the same network.

(N\*)

Exchange

The term "Exchange" denotes a unit established by the Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. The exchange includes any Extended Area Service area that is an enlargement of a Telephone Company's exchange area to include nearby exchanges.

Exit Message

The term "Exit Message" denotes an SS7 message sent to an end office by the Telephone Company's tandem switch to mark the Carrier Connect Time when the Telephone Company's tandem switch sends an Initial Address Message to an interexchange customer.

Expected Measured Loss

The term "Expected Measured Loss" denotes a calculated loss which specifies the end-to-end 1004-Hz loss on a terminated test connection between two readily accessible manual or remote test points. It is the sum of the inserted connection loss and test access loss including any test pads.

Extended Area Service

See Exchange

(M\*)

(M) Material previously found on this page has been relocated to 1<sup>st</sup> Revised Page 2-57.

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## ACCESS SERVICE

5 Access Ordering (Cont.)5.2 Ordering Requirements (Cont.)5.2.6 Ethernet Transport Service (ETS)

(N\*)

When placing an order for ETS, the customer must specify:

- the customer-designated premises
- the type(s) of ETS Port interface(s)
- the speed for each ETS Port;
- the number and bandwidth capacity for each ETS Channel Termination (ETS CT) associated with an ETS Port;
- options desired, if applicable;
- that the traffic consists of more than 10% interstate traffic.

When connecting to the ETS Port of another customer, the ordering customer must obtain authorization from the other customer.

(N\*)

5.3 Access Orders For Services Provided By More Than One Telephone Company

Access Services provided by more than one Telephone Company are services where one end of the Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company.

The ordering procedure for this service is dependent upon the billing arrangement, as set forth in 2.4.7 preceding, to be used by the Telephone Companies involved in providing the Access Service.

5.3.1 Meet Point Billing Ordering

Each Telephone Company will provide its portion of the Access Service within its operating territory to an interconnection point(s) with the other Telephone Company(s). Billing Percentages will be determined by the Telephone Companies involved in providing the Access Service and listed in NATIONAL EXCHANGE CARRIER ASSOCIATION INC. Tariff F.C.C. No. 4. Each Telephone Company will bill the customer for its portion of the service as set forth in 2.4.7. All other appropriate charges in each Telephone Company tariff are applicable.

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6 Switched Access Service (Cont.)6.1 General (Cont.)6.1.3 Rate Categories (Cont.)(B) End Office (Cont.)(1) Local Switching (Cont.)(d) Intercept

The Intercept function provides for the termination of a call at a Telephone Company Intercept operator or recording. The operator or recording tells a caller why a call, as dialed, could not be completed, and if possible, provides the correct number.

(2) Information Surcharge

(D\*)

Information Surcharge rates are assessed to a customer based on the total number of access minutes. Information Surcharge rates are as set forth in 17.2.3(B) following. The application of these rates with respect to individual Feature Groups is as set forth in 6.4.1(C) following.

The information Surcharge does not apply to Feature Groups B and D Switched Access Services associated with Mobile Telephone Switching Offices (MTSOs) directly interconnected to a Telephone Company access tandem office.

The number of end office switching transmission paths will be determined as set forth in 6.2.5 following.

(D\*)

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## ACCESS SERVICE

16 Ethernet Transport Service

(N\*)

16.1 General

Ethernet Transport Service (ETS) is a high speed data transport service that provides end-to-end transmission using Ethernet packet technology at transport speeds ranging from 5 Mbps to 1 Gbps, where available. ETS is ideal for transport of broadband multimedia traffic (i.e., voice, data, and video) using variable length Ethernet packets with the ability to interconnect multiple locations using the Telephone Company's ETS network. Ethernet packets generated by Ethernet-compatible customer premises equipment (CPE) are transmitted using available capacity on shared transmission paths through the Telephone Company's ETS network to a pre-specified destination. The ETS customer may use ETS to: (1) interconnect customer-designated premises (CDPs) served by the Telephone Company's ETS network, (2) interconnect with its local area network (LAN) to the Telephone Company's ETS network and/or (3) interconnect its CDPs to an Ethernet network located outside of the Telephone Company's serving territory.

16.2 Service Description

ETS is provided using a combination of ETS Channel Terminations and ETS Ports. As described below, ETS may be used in conjunction with Special Access High Capacity DS3 and Synchronous Optical Channel Service OC3 and OC12 Services as specified in Section 7, preceding, and with DSL Access Services as specified in Section 8, preceding. An ETS Port is required to provide the interface into the Telephone Company's ETS network.

The transmission quality of ETS is not guaranteed and is offered to ETS customers at a best-effort level. The Telephone Company will attempt to deliver all Ethernet packets received; however, network congestion may result in a loss of Ethernet packets. Transmission speeds using copper facilities may be affected by distance from the Telephone Company central office and other technical limitations in the Telephone Company's copper network and are also not guaranteed.

Service is provided, where available, between CDPs and designated Telephone Company Serving Wire Centers (SWCs). ETS will be furnished where suitable facilities exist as determined by the Telephone Company. The Telephone Company will identify its ETS-equipped SWCs in NATIONAL EXCHANGE CARRIERS ASSOCIATION, INC. Tariff F.C.C. No. 4.

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(N\*)

## ACCESS SERVICE

16 Ethernet Transport Service (Cont.)

(N\*)

16.2 Service Description (Cont.)

Rates and charges for ETS are specified in Section 17.4.7, following. The application of rates and charges for ETS is described later in this section.

16.3 Obligations of the Customer

In addition to the regulations described in other sections of this tariff, the following provisions apply to ETS:

- (A) The ETS customer is responsible for providing the Telephone Company with the necessary information to provision ETS as specified in Section 5.2 Ordering Requirements, preceding.
- (B) The ETS customer is responsible for providing and maintaining all required CPE, which is compatible with ETS and complies with the standards specified in Technical Reference IEEE Standard 802.3-2005, Part 3, Sections 1 through 5.

16.4 Rate Regulations

This section contains the regulations governing the rates and charges that apply for ETS. Regulations governing the rates and charges for Special Access and DSL Access Services provided under this tariff used in conjunction with ETS are as specified in Sections 7 and 8, preceding.

(A) Rate Categories

The various ETS service elements are described below.

(1) ETS Channel Terminations (CTs)

An ETS CT provides the transport facility between the customer's designated premises and an ETS Basic Port at the Telephone Company's ETS SWC.

ETS CTs are available at bandwidth speeds of 10 Mbps, 20, Mbps, 50 Mbps, 100 Mbps, 500 Mbps, and 1 Gbps. The ETS customer orders the type of ETS CT it needs based on its bandwidth requirements.

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(N\*)

## ACCESS SERVICE

16 Ethernet Transport Service (Cont.)

(N\*)

16.4 Rate Regulations (Cont.)(A) Rate Categories (Cont.)(1) ETS Channel Terminations (CTs) (Cont.)

Bandwidth speeds of 50 Mbps and above require use of a fiber loop facility, where such fiber facilities exist. ETS CTs are available only from suitably equipped ETS SWCs for connection to ETS Basic Ports.

Monthly and nonrecurring charges apply for each ETS CT ordered. The monthly rate is based upon the bandwidth capacity ordered and whether the CDP is located within 300 feet of the ETS SWC or more than 300 feet from the ETS SWC. Rates and charges are specified in 17.4.7, following.

(2) ETS Basic Ports

ETS Basic Ports provide the interface at the Telephone Company's ETS SWC for data traffic to and from the customer premises equipment as well as for connecting the Telephone Company's ETS network with the Ethernet network of another telephone company. An ETS Basic Port receives Ethernet packets from the ETS customer's Ethernet-compatible CPE, validates the addressing parameters contained in the packet headers, and transmits the packets into the ETS network. The ETS Basic Port also receives Ethernet packets from the Telephone Company's ETS network or from an Ethernet network located outside the Telephone Company's service territory, validates the addressing parameters contained in the packet headers, and transmits the packets to the pre-designated CDP.

ETS Basic Ports provide the interface to the Telephone Company's ETS network and do not include the required transport facility between the CDP and the Telephone Company's ETS SWC.

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(N\*)

## ACCESS SERVICE

17 Rates and Charges (Cont.)17.2 Switched Access Service (Cont.)17.2.3 End OfficeTariff Ref.(A) Local Switching

6.1.3 (B)

Local Switching per Access Minute, Feature Groups A, B, and D (including (1) FGB when utilized for the provision of MTA/WATS service and (2) FGA and FGA when utilized for the provision of terminating inward WATS and WATS-type services at an equal access WATS Serving Office.

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 0.006423
ACS of Alaska, Inc. – Juneau	\$ 0.004723
ACS of Anchorage, Inc.	\$ 0.005704
ACS of Fairbanks, Inc.	\$ 0.002034
ACS of the Northland, Inc. – Glacier State	\$ 0.005771
ACS of the Northland, Inc. – Sitka/Bush	\$ 0.010499

(B) Information Surcharge

6.1.3(B)(2)

(D\*)

Premium per 100 Access Minutes

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ n/a
ACS of Alaska, Inc. – Juneau	\$ n/a
ACS of Anchorage, Inc.	\$ n/a
ACS of Fairbanks, Inc.	\$ n/a
ACS of the Northland, Inc. – Glacier State	\$ n/a
ACS of the Northland, Inc. – Sitka/Bush	\$ n/a

(D\*)

(C) Dedicated Trunk Ports

6.1.3(B)(3)

- Per Port

<u>ACS Company</u>	<u>Rate</u>
ACS of Alaska, Inc. – Greatland	\$ 4.65
ACS of Alaska, Inc. – Juneau	\$ 4.65
ACS of Anchorage, Inc.	\$ 4.65
ACS of Fairbanks, Inc.	\$ 4.65
ACS of the Northland, Inc. – Glacier State	\$ 4.65
ACS of the Northland, Inc. – Sitka/Bush	\$ 4.65

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