
ACCESS SERVICES

**RATES, RULES AND REGULATIONS GOVERNING
THE PROVISION OF SWITCHED ACCESS SERVICES
FOR CONNECTION TO INTERSTATE COMMUNICATIONS FACILITIES
PROVIDED BY
BROADWING COMMUNICATIONS, LLC**

- * CenturyLink Competitive Operating Companies Tariff F.C.C. No. 2 is being issued on not less than one day's notice under authority of Special Permission No. 18-06 of the Federal Communications Commission and contains rates and regulations previously found in Broadwing Communications, LLC F.C.C. Tariff No. 1.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By: Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

CHECK SHEET

PAGE	NUMBER OF REVISION EXCEPT AS INDICATED	PAGE	NUMBER OF REVISION EXCEPT AS INDICATED	PAGE	NUMBER OF REVISION EXCEPT AS INDICATED
Title	Original	3-17	Original	5-1	Original
0-1	2nd *	3-18	Original	5-2	Original
0-2	1st *	3-19	Original	5-3	Original
0-3	Original	3-20	Original	5-4	Original
0-4	Original	3-21	Original	5-5	Original
1-1	Original	3-22	Original	5-6	Original
2-1	Original	3-23	Original	5-7	Original
2-2	Original	3-24	Original	5-8	Original
2-3	Original	3-24.1	Original	5-9	Original
2-4	Original	3-25	Original	5-10	Original
2-5	Original	3-26	Original	6-1	Original
2-6	Original	3-27	Original	6-2	Original
3-1	Original	3-28	Original	6-3	Original
3-2	Original	3-29	Original	6-4	Original
3-3	Original	3-30	Original	6-5	Original
3-4	Original	3-31	Original	6-6	Original
3-5	Original	3-32	Original	6-7	Original
3-6	Original	3-33	Original	6-8	Original
3-7	Original	3-34	Original	6-9	Original
3-8	Original	3-35	Original	6-10	Original
3-9	Original	3-36	Original	6-11	Original
3-10	Original	3-37	Original	6-12	Original
3-11	Original	3-38	Original	6-13	Original
3-12	Original	3-39	Original	6-14	Original
3-13	Original	3-40	Original	6-15	Original
3-14	Original	3-41	Original	6-16	Original
3-15	Original	3-42	Original	6-17	Original
3-16	Original	4-1	Original	6-18	Original

* New or Revised Page.

(Filed under Transmittal No. 3.)

Issued: August 31, 2020

Effective: September 1, 2020

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

CHECK SHEET

PAGE	NUMBER OF REVISION EXCEPT AS INDICATED	PAGE	NUMBER OF REVISION EXCEPT AS INDICATED	PAGE	NUMBER OF REVISION EXCEPT AS INDICATED
6-19	Original	6-38	Original	8-11	Original
6-20	Original	6-39	Original	8-12	Original
6-21	Original	7-1	Original	8-13	Original
6-22	Original	7-2	Original	8-14	Original
6-23	Original	7-3	Original	8-15	Original
6-24	Original	7-4	Original	8-16	Original
6-25	Original	7-5	Original	8-17	Original
6-26	Original	7-6	Original	8-18	Original
6-27	Original	7-7	Original	8-19	Original
6-28	Original	8-1	Original	8-20	Original
6-29	Original	8-2	Original	8-21	Original
6-30	Original	8-3	Original	8-22	Original
6-31	Original	8-4	Original	8-23	Original
6-32	Original	8-5	Original	8-24	Original
6-33	Original	8-6	Original	8-25	Original
6-34	Original	8-6.1	Original *	8-26	Original
6-35	Original	8-7	Original	8-27	Original
6-36	Original	8-8	Original	8-28	Original
6-37	Original	8-9	Original	8-29	1st *
		8-10	Original		

* New or Revised Page.

(Filed under Transmittal No. 3.)

Issued: August 31, 2020

Effective: September 1, 2020

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

TABLE OF CONTENTS

	PAGE
TABLE OF CONTENTS	0-3
EXPLANATION OF SYMBOLS	0-4
SECTION 1 -- APPLICATION	1-1
SECTION 2 -- DEFINITIONS.....	2-1
SECTION 3 -- REGULATIONS.....	3-1
SECTION 4 -- CARRIER COMMON LINE.....	4-1
SECTION 5 -- ACCESS SERVICE ORDER	5-1
SECTION 6 -- SWITCHED ACCESS SERVICE.....	6-1
SECTION 7 -- ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND MISCELLANEOUS SERVICES.....	7-1
SECTION 8 -- RATES AND CHARGES	8-1

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

CONCURRING CARRIERS

No Concurring Carriers

CONNECTING CARRIERS

No Connecting Carriers

OTHER PARTICIPATING CARRIERS

No Other Participating Carriers

EXPLANATION OF SYMBOLS

The following symbols shall be used in this tariff for the purpose indicated below:

- | | |
|---|--|
| C | To signify changed regulation or rate structure. |
| D | To signify discontinued material. |
| I | To signify an increased rate. |
| M | To signify a move in the location of text. |
| N | To signify a new rate or regulation |
| R | To signify a reduced rate. |
| S | To signify reissued material. |
| T | To signify a change in text but no change in rate or regulation. |

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 1 - APPLICATION

This tariff applies to interstate access service supplied to Customers for origination and termination of traffic to and from Central Office codes directly assigned to Broadwing Communications, LLC or its subsidiaries.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 2 - DEFINITIONS

Certain terms used generally throughout this tariff are described below.

Advance Payment

Part or all of a payment required before the start of service.

Access Services

The Company's interstate telephone services offered pursuant to this tariff.

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the Customer specified maximum amount of Switched Access Service and/or Directory Assistance Service access minutes the Customer expects to be handled in an end office switch during any hour in an 8:00 a.m. to 11:00 p.m. period for the Feature Group and/or Directory Assistance Service ordered. This Customer specified BHMC quantity is the input data the Company uses to determine the number of transmission paths for the Feature Group and/or Directory Assistance Service ordered.

Carrier or Common Carrier

See Interexchange Carrier.

Common Channel Signaling

The term "Common Channel Signaling" (CCS) denotes a high-speed packet switched communications network which is separate (out of band) from the public packet switched and message networks. Its purpose is to carry addressed signaling messages for individual trunk circuits and/or database related services between Signaling Points in the CCS network.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 2 - DEFINITIONS

Certain terms used generally throughout this tariff are described below.

Company or Broadwing Communications, LLC

Broadwing Communications, LLC, the issuer of this tariff, and its concurring subsidiaries.

Customer

The person, firm or corporation ("party") which receives service and is responsible for the payment of charges and compliance with the Company's regulations. Where no service order is placed to initiate service, a party shall be deemed a Customer for receipt of service in all circumstance in which such party knew or should have known that service was being provided. Failure to object to the provisioning of service after receipt of a bill identifying such service shall establish conclusively that such service was ordered.

End Office

The term "End Office" denotes the switching system office or serving wire center (or functionally equivalent or analogous facilities) from which End Users receive exchange service. By way of example, system(s) or facility(ies) in a carrier's network which host telephone numbers listed in the database of the Number Portability Administration Center as assigned to the carrier, constitute an "End Office."

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 2 - DEFINITIONS

End User

A person or entity that subscribes to any Broadwing Communications, LLC Exchange Access Service and that has been assigned one or more telephone number(s) within a central office code (NPA-NXX) directly assigned to the Company.

Interexchange Carrier (IC) or Interexchange Common Carrier

The terms "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint- stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communication by wire or radio, between two or more exchanges.

LATA

A Local Access and Transport Area established pursuant to the Modification of Final Judgment entered by the United States District Court for the District of Columbia in Civil Action No. 82-0192; or any other geographic area designated as a LATA in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

Network

Refers to the Company's facilities, equipment, and services provided under this Tariff.

Recurring Charges

The monthly charges to the Customer for services, facilities and equipment which continue for the agreed upon duration of the service.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 2 - DEFINITIONSService Commencement Date

The first date on which the Company notifies the Customer that the requested service or facility is available for use, unless extended by the Customer's refusal to accept service which does not conform to standards set forth in the Service Order or this tariff, in which case the Service Commencement Date is the date of the Customer's acceptance. The Company and the Customer may mutually agree on a substitute Service Commencement Date. If the Company does not have an executed Service Order from a Customer, the Service Commencement Date will be the first date on which the service or facility was used by a Customer.

Service Order

The written request for access services executed by the Customer and the Company in the format devised by the Company. The signing of a Service Order by the Customer and acceptance by the Company initiates the respective obligations of the parties as set forth therein and pursuant to this tariff, but the duration of the service is calculated from the Service Commencement Date. Should a Customer use the Company's access service without an executed Service Order, the Company will then request the Customer to submit a Service Order.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 2 – DEFINITIONS

Service Switching Point (SSP)

A Service Switching Point denotes an end office or tandem which, in addition to having SS7 and SP capabilities, is also equipped to query centralized data bases.

Serving Wire Center

The term "Serving Wire Center" denotes the wire center from which the Customer designated premises would normally obtain dial tone.

Shared

A facility or equipment system or subsystem that can be used simultaneously by several Customers.

Signaling Point (SP)

The term "Signaling Point (SP)" denotes an SS7 network interface element capable of originating and terminating SS7 trunk signaling messages.

Signaling Point of Interface (SPOI)

The term "Signaling Point of Interface (SPOI)" denotes the Customer designated location where the SS7 signaling information is exchanged between the Telephone Company and the Customer.

Signaling System 7 (SS7)

The term "Signaling System 7 (SS7)" denotes the layered protocol used for standardized common channel signaling in the United States and Puerto Rico.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 2 – DEFINITIONS

Signal Transfer Point (STP)

The term "Signal Transfer Point (STP)" denotes a packet switch which provides access to the Telephone Company's SS7 network and performs SS7 message signal routing and screening.

Signal Transfer Point (STP) Port

The term "Signal Transfer Point (STP) Port" denotes the point of termination and interconnection to the STP.

Toll VoIP-PSTN Traffic

The term Toll VoIP-PSTN Traffic denotes a customer's interexchange voice traffic exchanged with the Telephone Company in Time Division Multiplexing format over PSTN facilities, which originates and/or terminates in Internet Protocol (IP) format. Toll VoIP-PSTN Traffic originates and /or terminates in IP format when it originates from and/or terminates to an end user customer of a service that requires IP-compatible customer premises equipment.

User

A Customer or any other person authorized by the Customer to use service provided under this tariff.

Wire Center

A building in which one or more central offices, used for the provision of Exchange Services, are located.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS**3.1 Undertaking of the Company****3.1.1 Scope**

The Company undertakes to furnish access services in accordance with the terms and conditions set forth in this tariff.

3.1.2 Shortage of Facilities

All service is subject to the availability of suitable facilities. The Company reserves the right to limit the length of communications or to discontinue furnishing services when necessary because of the lack of transmission medium capacity or because of any causes beyond its control.

3.1.3 Terms and Conditions

- (A) Service is provided on the basis of a minimum period of at least one month, 24-hours per day. For the purpose of computing charges in this tariff, a month is considered to have 30 days.
- (B) Customers may be required to enter into written service orders which shall contain or reference a specific description of the service ordered, the rates to be charged, the duration of the services, and the terms and conditions in this tariff. Customers will also be required to execute any other documents as may be reasonably requested by the Company.
- (C) In any action between the parties to enforce any provisions of this tariff, the Company, if it prevails in the action, shall be entitled to recover court costs and legal fees from the customer.
- (D) This tariff shall be interpreted and governed by the laws of the United States without regard for its choice of laws provision.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.1 Undertaking of the Company (cont'd)

3.1.4 Limitations on Liability

- (A) Except as otherwise stated in this section, the liability of the Company for damages arising out of either: (1) the furnishing of its services, including but not limited to mistakes, omissions, interruptions, delays, or errors, or other defects, representatives, or use of these services or (2) the failure to furnish its service, whether caused by acts or omission, shall be limited to the extension of allowances to the Customer for interruptions in service as set forth in Section 3.8.
- (B) Except for the extension of allowances to the Customer for interruptions in service as set forth in Section 3.8, the Company shall not be liable to a Customer or third party for any direct, indirect, special, incidental, reliance, consequential, exemplary or punitive damages, including, but not limited to, loss of revenue or profits, for any reason whatsoever, including, but not limited to, any act or omission, failure to perform, delay, interruption, failure to provide any service or any failure in or breakdown of facilities associated with the service.
- (C) The liability of the Company for errors in billing that result in overpayment by the Customer shall be limited to a credit equal to the dollar amount erroneously billed or, in the event that payment has been made and service has been discontinued, to a refund of the amount erroneously billed.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.1 Undertaking of the Company

3.1.4 Limitations on Liability (cont'd)

- (D) The Company shall not be liable for any claims for loss or damages involving:
- (1) Any act or omission of: (a) the Customer, (b) any other entity furnishing service, equipment or facilities for use in conjunction with services or facilities provided by the Company; or (c) common carriers or warehousemen;
 - (2) Any delay or failure of performance or equipment due to causes beyond the Company's control, including but not limited to, acts of God, fires, floods, earthquakes, hurricanes, or other catastrophes; national emergencies, insurrections, riots, wars or other civil commotions; strikes, lockouts, work stoppages or other labor difficulties; criminal actions taken against the Company; unavailability, failure or malfunction of equipment or facilities provided by the Customer or third parties; and any law, order, regulation or other action of any governing authority or agency thereof;
 - (3) Any unlawful or unauthorized use of the Company's facilities and services;
 - (4) Libel, slander, invasion of privacy or infringement of patents, trade secrets, or copyrights arising from or in connection with the transmission of communications by means of Company-provided facilities or services; or by means of the combination of Company-provided facilities or services with Customer-provided facilities or services;
 - (5) Breach in the privacy or security of communications transmitted over the Company's facilities;
 - (6) Changes in any of the facilities, operations or procedures of the Company that render any equipment, facilities or services provided by the Customer obsolete, or require modification or alteration of such equipment, facilities or services, or otherwise affect their use or performance, except where reasonable notice is required by the Company and is not provided to the Customer, in which event the Company's liability is limited as set forth in section 3.1.4, preceding.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.1 Undertaking of the Company

3.1.4 Limitations on Liability

(D) (cont'd)

- (7) Defacement of or damage to Customer premises resulting from the furnishing of services or equipment on such premises or the installation or removal thereof.
- (8) Injury to property or injury or death to persons, including claims for payments made under Workers' Compensation law or under any plan for employee disability or death benefits, arising out of, or caused by, any act or omission of the Customer, or the construction, installation, maintenance, presence, use or removal of the Customer's facilities or equipment connected, or to be connected to the Company's facilities;
- (9) Any intentional, wrongful act of a Company employee when such act is not within the scope of the employee's responsibilities for the Company and/or is not authorized by the Company;
- (10) Any representations made by Company employees that do not comport, or that are inconsistent, with the provisions of this Tariff.
- (11) Any noncompletion of calls due to network busy conditions;
- (12) Any calls not actually attempted to be completed during any period that service is unavailable.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS**3.1 Undertaking of the Company****3.1.4 Limitations on Liability (cont'd)**

- (E) The Company shall be indemnified, defended and held harmless by the Customer or end user from and against any and all claims, loss, demands, suits, expense, or other action or any liability whatsoever, including attorney fees, whether suffered, made, instituted, or asserted by the Customer or by any other party, for any personal injury to or death of any person or persons, and for any loss, damage or destruction of any property, including environmental contamination, whether owned by the Customer or by any other party, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, presence, condition, location, use or removal of any Company or Customer equipment or facilities or service provided by the Company.
- (F) The Company does not guarantee nor make any warranty with respect to installations provided by it for use in an explosive atmosphere. The Company shall be indemnified, defended and held harmless by the Customer from and against any and all claims, loss, demands, suits, or other action, or any liability whatsoever, including attorney fees, whether suffered, made, instituted or asserted by the Customer or by any other party, for any personal injury to or death of any person or persons, and for any loss, damage or destruction of any property, including environmental contamination, whether owned by the Customer or by any other party, caused or claimed to have been caused directly or indirectly by the installation, operation, failure to operate, maintenance, presence, condition, location, use or removal of any equipment or facilities or the service.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.1 Undertaking of the Company

3.1.4 Limitations on Liability (cont'd)

- (G) The Company assumes no responsibility for the availability or performance of any cable or satellite systems or related facilities under the control of other entities, or for other facilities provided by other entities used for service to the Customer, even if the Company has acted as the Customer's agent in arranging for such facilities or services. Such facilities are provided subject to such degree of protection or nonpreemptibility as may be provided by the other entities.
- (H) Except as otherwise stated in this Tariff, any claim of whatever nature against the Company shall be deemed conclusively to have been waived unless presented in writing to the Company within thirty (30) days after the date of the occurrence that gave rise to the claim.
- (I) THE COMPANY MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EXCEPT THOSE EXPRESSLY SET FORTH HEREIN.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.1 Undertaking of the Company3.1.5 Provision of Equipment and Facilities (cont'd)

- (A) Except as otherwise indicated, customer-provided station equipment at the Customer's premises for use in conjunction with this service shall be so constructed, maintained and operated as to work satisfactorily with the facilities of the Company.
- (B) The Company shall not be responsible for the installation, operation or maintenance of any Customer-provided communications equipment. Where such equipment is connected to service furnished pursuant to this tariff, the responsibility of the Company shall be limited to the furnishing of services under this tariff and to the maintenance and operation of such services in the proper manner. Subject to this responsibility, the Company shall not be responsible for:
 - (1) the through transmission of signals generated by Customer-provided equipment or for the quality of, or defects in, such transmission; or
 - (2) the reception of signals by Customer-provided equipment; or
 - (2) network control signaling where such signaling is performed by Customer-provided network control signaling equipment.

3.1.6 Ownership of Facilities

Title to all facilities provided in accordance with this tariff remains in the Company, its agents, contractors or suppliers.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.2 Prohibited Uses

- (A) The services the Company offers shall not be used for any unlawful purpose or for any use for which the Customer has not obtained all required governmental approvals, authorization, licenses, consents and permits.
- (B) The Company may require applicants for service who intend to use the Company's offering for resale and/or for shared use to file a letter with the Company confirming that their use of the Company's offerings complies with relevant laws and regulations, policies, orders, and decisions.
- (C) The Company may require a Customer to immediately shut down its transmission if such transmission is causing interference to others.
- (D) A Customer, joint user, or authorized user may not assign, or transfer in any manner, the service or any rights associated with the service without the written consent of the Company. The Company will permit a Customer to transfer its existing service to another entity if the existing Customer has paid all charges owed to the Company for regulated access services. Such transfer will be treated as a disconnection of existing service and installation of new service, and non-recurring installation charges as stated in this tariff will apply.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.3 Customer Premises Provisions

- (A) The Customer shall provide the personnel, power and space required to operate all facilities and associated equipment installed on the premises of the Customer.
- (B) The Customer shall be responsible for providing Company personnel access to premises of the Customer at any reasonable hour for the purpose of testing the facilities or equipment of the Company.

3.3.1 Liability of the Customer

- (A) The Customer will be liable for damages to the facilities of the Company and for all incidental and consequential damages caused by the negligent or intentional acts or omissions of the Customer, its officers, employees, agents, invitees, or contractors where such acts or omissions are not the direct result of the Company's negligence or intentional misconduct.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.3 Customer Premises Provisions

3.3.1 Liability of the Customer (cont'd)

- (B) To the extent caused by any negligent or intentional act of the Customer as described in (A), preceding, the Customer shall indemnify, defend and hold harmless the Company from and against all claims, actions, damages, liabilities, costs and expenses, including reasonable attorneys' fees, for:
 - (1) any loss, destruction or damage to property of any third party,
 - (2) the death of or injury to persons, including, but not limited to, employees or invitees of either party, and
 - (3) any liability incurred by the Company to any third party pursuant to this or any other tariff of the Company, or otherwise, for any interruption of, interference to, or other defect in any service provided by the Company to such third party.
- (C) The Customer shall not assert any claim against any other customer or user of the Company's services for damages resulting in whole or in part from or arising in connection with the furnishing of service under this Tariff including but not limited to mistakes, omissions, interruptions, delays, errors or other defects or misrepresentations, whether or not such other customer or user contributed in any way to the occurrence of the damages, unless such damages were caused solely by the negligent or intentional act or omission of the other customer or user and not by any act or omission of the Company. Nothing in this Tariff is intended either to limit or to expand Customer's right to assert any claims against third parties for damages of any nature other than those described in the preceding sentence.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions (cont'd)3.3.2 Jurisdictional Report Requirements

- (A) For Feature Group B Switched Access Service(s) for both interstate and intrastate use, the projected interstate percentage of use must be provided by the Customer in a whole number to the Company. The Company will designate the number obtained by subtracting the projected interstate percentage of use from 100 ($100 - \text{projected interstate percentage} = \text{intrastate percentage}$) as the projected intrastate percentage of use. When a Customer orders Feature Group B Switched Access Service, the Customer shall state, in its order, the projected Percent Interstate Usage (PIU) factor for Feature Group B Switched Access Service group ordered.

For Feature Group D Switched Access Service(s), the Company, where jurisdiction can be determined from the call detail, will determine the projected interstate percentage as follows. For originating access minutes, the projected interstate percentage will be developed on a monthly basis by end office when the Feature Group D, Switched Access Service access minutes are measured by dividing the measured interstate originating access minutes (the access minutes where the calling number is in one state and the called number is in another state) by the total originating access minutes when the call detail is adequate to determine the appropriate jurisdiction. For terminating access minutes, the Customer has the option to provide the Company with a Projected PIU factor. Customers who provide a PIU factor shall supply the Company with an interstate percentage of Feature Group D terminating access minutes for each account to which the Customer may terminate traffic.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements

(A) (cont'd)

Should the Customer not supply a terminating PIU Factor, the data used by the Company to develop the projected interstate percentage for originating access minutes will be used to develop projected interstate percentage for such terminating access minutes. When a Customer orders Feature Group D Switched Access Service, the Customer shall supply a projected interstate percentage of use for each end office trunk group involved to be used in the event that originating call details are insufficient to determine the jurisdiction for the call. This percentage shall be used by the Company as the projected interstate percentage for such call detail. For purposes of developing the projected interstate percentage, the Customer shall utilize the same considerations as those set in forth in Section 3.3.2 (B) following.

The Company will designate the number obtained by subtracting the projected interstate percentage for originating and terminating access minutes from 100 ($100 - \text{projected interstate percentage} = \text{intrastate percentage}$) as the projected intrastate percentage of use.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements

(A) (cont'd)

The Company will designate the number obtained by subtracting the projected interstate percentage for originating and terminating access minutes from 100 ($100 - \text{projected interstate percentage} = \text{intrastate percentage}$) as the projected intrastate percentage of use.

If the Customer has no originating traffic within the end office for which sufficient call detail exists to develop a PIU factor, and the Customer has not supplied a PIU factor on either the quarterly update report or the Access Service Request, the Company will designate a PIU factor of 75% for Feature Group B or Feature Group D terminating access minutes. For originating 800 access minutes, where the call detail is insufficient to determine the jurisdiction of the call, the customer shall provide the Company with a projected PIU factor. If such a PIU has not been provided for 800 access minutes, the Company will designate the default PIU factor of 75%. This factor will be applied to the next billing cycle and continue until the Customer provides a PIU factor. When the Customer does provide the PIU factor, the Company will update the customer's PIU factors within fifteen (15) business days.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements (cont'd)

- (B) For purposes of developing the projected interstate percentage, the Customer shall consider every call that enters the Customer's network at a point within the same state as the state where the called station is located to be intrastate and every call that enters the Customer's network at a point in a state different from the state in which the called station is located to be interstate.
- (C) These whole number percentages will be used by the Company to apportion the use, rates, and/or nonrecurring charges between interstate and intrastate until a revised report is received.
- (D) The projected interstate percentage of use will be used to determine the charges as follows:

The number of access minutes for a group will be multiplied by the projected interstate percentage of use to determine the interstate access minutes. (i.e., number of access minutes x projected interstate percentage of use = interstate access minutes).

The number of interstate access minutes so determined will be subtracted from the total number of access minutes (i.e., number of access minutes – interstate access minutes = intrastate access minutes). The interstate access minutes for the group will be billed as set forth in Section 6 following.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements (cont'd)

- (E) Effective on the first of January, April, July and October of each year, the Customer may update the jurisdictional reports that require a projected interstate percentage. The Customer shall forward to the Company, to be received no later than 20 calendar days after the first of each such month, a revised report showing the interstate percentage of use for the past three months ending the last day of December, March, June and September, respectively, for each service arranged for interstate and intrastate use. Except as set forth in Section 3.3.2(A) preceding where jurisdiction can be determined from the recorded message detail, the revised report will serve as the basis for the next three months billing and will be effective on the bill date in the following month (i.e., February, May, August, and November) for that service. No prorating or back billing will be done based on the report. If the Customer does not supply the report, the Company will assume the percentage to be the same as that provided in the last quarterly report. For those cases in which a quarterly report has never been received from the Customer, the Company will assume the percentage to be the same as that provided in the order for service as set forth in Section 3.3.2 (A) preceding.
- (F) The Customer reported projected interstate percentage of use as set forth in Section 3.3.3 (A) preceding will be used for the apportionment of monthly rates or nonrecurring charges associated with Feature Group B or D Switched Access Service until the end of the quarter during which the service was activated. Thereafter, a projected interstate percentage for such apportionment will be developed quarterly by the Company based on the data used to develop the projected interstate percentage of use as set forth in Section 3.3.2 (A) preceding. Where call detail is insufficient to make such a determination, the Customer will be requested to project an interstate percentage of use to be used by the Company for such apportionment.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.3 Customer Premises Provisions

3.3.2 Jurisdictional Report Requirements (cont'd)

- (G) The Customer shall keep sufficient detail from which the percentage of interstate use can be ascertained and upon request of the Company make the records available for inspection. Such a request will be initiated by the Company no more than once per year. The Customer shall supply the data within 30 calendar days of the Company request.
- (H) The Customer may provide an additional percentage of interstate use for Entrance Facility and Direct Trunked Transport subject to the reporting requirements previously listed in this section. The percentage of interstate use may be provided per individual facility or at the billing account level. Should the Customer not provide a percentage of interstate use, the Company will use the reported Feature Group B or Feature Group D aggregated percentage of interstate use.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements (cont'd)

(I) Identification and Rating of VoIP-PSTN Traffic

This section governs the identification of VoIP-PSTN Traffic that is required to be compensated at interstate access rates unless the parties have agreed otherwise by the F.C.C. in its Report and Order in WC Dockets Nos. 10-90, etc., F.C.C. Release No. 11-161 (November 18, 2011) (F.C.C. Order). Specifically, this section establishes the method of separating VoIP-PSTN Traffic from the Customer's traditional intrastate access traffic, so that VoIP-PSTN Traffic can be billed in accordance with the F.C.C. Order. VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Company's applicable tariffed interstate switched access rates as set forth in Section 15, following.

(1) Calculation and Application of Percent-VoIP- Usage Factors

- a. The Company will determine the number of VoIP-PSTN Traffic minutes of use (MOU) to which interstate rates will be assessed by applying an originating Percent VoIP Usage (PVU) factor to the total intrastate access MOU originated by a Company end user and delivered to the Customer and by applying a terminating PVU factor to the total intrastate access MOU terminated by a Customer to the Company's end user.
- b. The Customer will calculate and furnish to the Company an originating PVU factor representing the whole number percentage of the Customer's total originating intrastate access MOU that the Customer exchanges with the Company in the LATA that is received from the Company and that is terminated in IP format and that would be billed by the Company as intrastate access MOU.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By: Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.3 Customer Premises Provisions

3.3.2 Jurisdictional Report Requirements

(I) Identification and Rating of VoIP-PSTN Traffic

(1) Calculation and Application of Percent-VoIP Usage Factors
(cont'd)

- c. The Customer will calculate and furnish to the Company a terminating PVU factor representing the whole number percentage of the Customer's total terminating intrastate access MOU that the Customer exchanges with the Company in the LATA that is sent to Company and which originated in IP format and that would be billed by the Company as intrastate access MOU.
- d. The Customer shall not modify their reported PIU factor to account for VoIP-PSTN Traffic.
- e. Both the Customer provided originating PVU and the terminating PVU shall be based on information such as the number of the Customer's retail VoIP subscriptions in the state (e.g. as reported on F.C.C. Form 477), traffic studies, actual call detail or other relevant and verifiable information which will be provided to the Company upon request.
- f. The Customer shall retain the call detail, work papers, and information used to develop the PVU factors for a minimum of one year.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements

(I) Identification and Rating of VoIP-PSTN Traffic

(1) Calculation and Application of Percent-VoIP Usage Factors
(cont'd)

g. The Company shall use default factors until such time as Customer supplies such factors. For this purpose, Company will utilize a PVU equal to the percentage of VoIP subscribers in the state based on the Local Competition Report, as released periodically and/or such other reports as the Company deems appropriate and reasonable. Under the Local Competition report methodology, the PVU will be the total number of incumbent LEC and non-incumbent LEC VoIP subscriptions in a state divided by the sum of those reported VoIP subscriptions plus incumbent LEC and non-incumbent LEC switched access lines.

(J) The preceding section (I) will be applied to the billing of switched access charges to a Customer that is a local exchange carrier only to the extent that the Customer has also implemented billing of interstate access charges for VoIP-PSTN Traffic in accordance with FCC orders, rules and regulations.

(K) Initial Implementation of PVU Factors

(1) If the PVU factors cannot be implemented in the Company's billing systems by December 29, 2011, once the factors can be implemented the Company will adjust the Customer's bills to reflect the PVU factors prospectively in the next bill period if the PVU factors are provided by the Customer to the Company prior to April 15, 2012.

(2) The Company may choose to provide credits based on the reported PVU factors on a quarterly basis until such time as the billing system modifications can be implemented.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements (cont'd)

(L) PVU Factor Update

The Customer may update the PVU factors quarterly using the method set forth in (I)(1) c., preceding. If the Customer chooses to submit such updates, it shall forward to the Company, no later than 15 days after the first day of January, April, July and/or October of each year, revised PVU factors based on data for the prior three months, ending the last day of December, March, June and September, respectively. The revised PVU factors will serve as the basis for future billing and will be effective on the bill date of each such month and shall serve as the basis for subsequent monthly billing until superseded by new PVU factors. No prorating or back billing will be done based on the updated PVU factors.

(M) PVU Factor Verification

- (1) Not more than twice in any year, the Company may request from the Customer an overview of the process used to determine the PVU factors, the call detail records, description of the method for determining how the end user originates and terminates calls in IP format, and other information used to determine the Customer's PVU factors furnished to the Company in order to validate the PVU factors supplied. The Customer shall comply, and shall reasonably supply the requested data and information within 15 days of the Company's request.
- (2) The Company may dispute the Customer's PVU factor based upon:
 - A review of the requested data and information provided by the Customer,
 - The Company's reasonable review of other market information, F.C.C. reports on VoIP lines, such as F.C.C. Form 477 or state level results based on the F.C.C. Local Competition Report or other relevant data.
 - A change in the reported PVU factor by more than five percentage points from the preceding quarter.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.3 Customer Premises Provisions3.3.2 Jurisdictional Report Requirements

(M) PVU Factor Verification (cont'd)

- (3) If after review of the data and information, the Customer and the Company establishes revised PVU factors, the Company will begin using those revised PVU factors with the next bill period.
- (4) If the dispute is unresolved, the Company may initiate an audit. The Company shall limit audits of the Customer's PVU factor to no more than twice per year. The Customer may request that the audit be conducted by an independent auditor. In such cases the associated auditing expenses will be paid by the Customer.
 - In the event that the Customer fails to provide adequate records to enable the Company or an independent auditor to conduct an audit verifying the Customer's PVU factors, the Company will bill the usage for all contested periods using the most recent undisputed PVU factors reported by the Customer. These PVU factors will remain in effect until the audit can be completed.
 - During the audit, the most recent undisputed PVU factors from the previous reporting period will be used by the Company.
 - The Company will adjust the Customer's PVU factors based on the results of the audit and implement the revised PVU in the next billing period or quarterly report date, whichever is first. The revised PVU factors will apply for the next two quarters before new factors can be submitted by the Customer.
 - If the audit supports the Customer's PVU factors, the usage for the contested periods will be adjusted to reflect the Customer's audited PVU factors.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS**3.4 Customer Equipment and Channels****3.4.1 Interconnection of Facilities**

In order to protect the Company's facilities and personnel and the services furnished to other Customers by the Company from potentially harmful effects, the signals applied to the Company's service shall be such as not to cause damage to the facilities of the Company. Any special interface equipment necessary to achieve the compatibility between facilities of the Company and the channels or facilities of others shall be provided at the Customer's expense.

3.4.2 Inspections

- (A) The Company may, upon notification to the Customer, at a reasonable time, make such tests and inspections as may be necessary to determine that the requirements regarding the equipment and interconnections are being complied with in respect to the installation, operation and maintenance of Customer-provided equipment and in the wiring of the connection of Customer channels to Company-owned facilities.
- (B) If the protective requirements in connections with Customer-provided equipment are not being complied with, the Company may take such action as necessary to protect its facilities and personnel and will promptly notify the Customer by registered mail in writing of the need for protective action. In the event that the Customer fails to advise the Company within 10 days after such notice is received or within the time specified in the notice that corrective action has been taken, the Company may take whatever additional action is deemed necessary, including canceling service, to protect its facilities and personnel from harm. The Company will, upon request 24 hours in advance, provide the Customer with a statement of technical parameters that the Customer's equipment must meet.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.5 Customer Deposits and Advance Payments3.5.1 Advance Payments

To safeguard its interests, the Company may require a Customer to make an advance payment before services and facilities are furnished. The advance payment will not exceed an amount up to two months of estimated monthly usage charges. In addition, where special construction is involved, the advance payment may also include an amount equal to the estimated non-recurring charges for the special construction and recurring charges (if any) for a period to be set between the Company and the Customer. The advance payment will be credited to the Customer's initial bill. An advance payment may be required in addition to a deposit.

3.5.2 Deposits

(A) To safeguard its interests, the Company may require the Customer to make a deposit to be held as a guarantee for the payment of charges. A deposit does not relieve the Customer of the responsibility for the prompt payment of bills on presentation. The deposit will not exceed an amount equal to:

- (1) three month's charges for a service or facility which has a minimum payment period of one month; or
- (2) the charges that would apply for the minimum payment period for a service or facility which has a minimum payment period of more than one month; except that the deposit may include an additional amount in the event that a termination charge is applicable.

(B) A deposit may be required in addition to an advance payment.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.5 Customer Deposits and Advance Payments3.5.2 Deposits (cont'd)

- (C) When a service or facility is discontinued, the amount of a deposit, if any, will be applied to the Customer's account and any credit balance remaining will be refunded. Before the service or facility is discontinued, the Company may, at its option, return the deposit or credit it to the Customer's account. If the amount of the deposit is insufficient to cover the balance due to the Customer's account, the Company retains the right to collect any amounts owing after the deposit has been applied plus any costs related to the collection of any remaining balance.

3.6 Payment Arrangements3.6.1 Payment for Service

The Customer is responsible for the payment of all charges for facilities and services furnished by the Company to the Customer.

(A) Taxes

The Customer is responsible for payment of any sales, use, gross receipts, excise, access or other local, state and federal taxes, charges or surcharges (however, designated) (excluding taxes on the Company's net income) imposed on or based upon the provision, sale or use of Network Services.

(B) Surcharges

The Company may institute surcharges in order to recover its costs that are not normally recovered under its monthly recurring and non-recurring charges. The customer is responsible for payment of any surcharges.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.6 Payment Arrangements3.6.1 Payment for Service (Cont'd)

(C) Federal Universal Service Fund (USF)

The Federal Universal Service Fund Charge is assessed monthly to end user customers who obtain services from this Tariff to recover contributions for the Universal Service Support Mechanisms. Telecommunications carriers or telecommunications providers that obtain services from this Tariff and do not establish that they contribute directly to support universal service are treated as end user customers and assessed this charge. Telecommunications carriers or telecommunications providers that obtain services from this Tariff to provision telecommunications and establish that they contribute directly to support universal service are excluded from this charge, as are Lifeline customers.

The applicable contribution factor can be found at:

<http://www.fcc.gov/encyclopedia/contribution-factor-quarterly-filings-universal-service-fund-usf-management-support>

(N)

(N)

ACCESS SERVICES

SECTION 3 - REGULATIONS3.6 Payment Arrangements (cont'd)3.6.2 Billing and Collection of Charges

The Customer is responsible for payment of all charges incurred by the Customer or other users for services and facilities furnished to the Customer by the Company.

- (A) Non-recurring charges are due and payable within 30 days after the date of the invoice.
- (B) The Company shall present invoices for Recurring Charges monthly to the Customer, in advance of the month in which service is provided, and Recurring Charges shall be due and payable within 30 days after the date of the invoice. When billing is based upon customer usage, usage charges will be billed monthly for the preceding billing period.
- (C) When service does not begin on the first day of the month, or end on the last day of the month, the charge for the fraction of the month in which service was furnished will be calculated on a pro rate basis. For this purpose, every month is 30 days.
- (D) Billing of the Customer by the Company will begin on the Service Commencement Date, which is the day on which the Company notifies the Customer that the service or facility is available for use, except that the Service Commencement Date may be postponed by mutual agreement of the parties, or if the service or facility does not conform to standards set forth in this tariff or the Service Order. Billing accrues through and includes the day that the service, circuit, arrangement or component is discontinued.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.6 Payment Arrangements

3.6.2 Billing and Collection of Charges (cont'd)

- (E) If any portion of the payment is received by the Company after the date due, or if any portion of the payment is received by the Company in funds which are not immediately available upon presentment, then a late payment penalty shall be due to the Company. The late payment penalty shall be the portion of the payment not received by the date due, multiplied by a late factor. The late factor shall be the lesser of:
 - (1) a rate of 1.5 percent per month; or
 - (2) the highest interest rate which may be applied under state law for commercial transactions.
- (F) The Customer will be assessed a charge of twenty-five dollars (\$25.00) for each check submitted by the Customer to the Company which a financial institution refuses to honor.
- (G) Customers have up to 90 days (commencing 5 days after remittance of the bill) to initiate a dispute over charges or to receive credits.
- (H) If service is disconnected by the Company in accordance with Section 3.6.3 following and later restored, restoration of service will be subject to all applicable installation charges.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.6 Payment Arrangements (cont'd)3.6.3 Billing Disputes

(A) General

All bills are presumed accurate, and shall be binding on the Customer unless notice of the disputed charge(s) is received by the Company within 90 days (commencing 5 days after such bills have been mailed or otherwise rendered per the Company's normal course of business). For the purposes of this section, "notice" is defined as written notice to the Company, containing sufficient documentation to investigate the dispute, including the account number under which the bill has been rendered, the date of the bill, and the specific items on the bill being disputed.

(B) Late Payment Charge

- (1) The undisputed portions of the bill must be paid by the payment due date to avoid assessment of a late payment charge on the undisputed amount under Section 3.6.2(E), preceding.
- (2) In the event that a billing dispute is resolved by the Company in favor of the Customer, any disputed amount withheld pending resolution of the billing dispute shall not be subject to the late payment charge.
- (3) In the event that a billing dispute is resolved in favor of the Company, the Customer shall pay the late payment charge.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.6 Payment Arrangements

3.6.3 Billing Disputes (cont'd)

(C) Adjustments or Refunds to the Customer

- (1) In the event that the Company resolves the billing dispute in favor of a Customer who has withheld payment of the disputed amount pending resolution of the disputed bill, the Company will credit the Customer's account for the disputed amount in the billing period following the resolution of the dispute.
- (2) In the event that the Company resolves the billing dispute in favor of a Customer who has paid the total amount of the disputed bill, the Company will credit the Customer's account for any overpayment by the Customer in the billing period following the resolution of the dispute.
- (3) In the event that the Company resolves the billing dispute in favor of a Customer who has paid the total amount of the disputed bill but canceled the service, the Company will issue a refund of any overpayment by the Customer.
- (4) All adjustments or refunds provided by the Company to the Customer at the Customer's request, or provided by the Company to the Customer by way of compromise of a billing dispute, and which are accepted by the Customer, are final and constitute full satisfaction, settlement, and/or compromise of all of the Customer's claims for the billing period for which the adjustment or refund was issued.
- (5) The Company reserves the right to invoice for services not originally billed to the customer. The Company will include any unbilled charges for a period of 24 months from the date of discovery of the unbilled services.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.6 Payment Arrangements3.6.3 Billing Disputes (cont'd)

(D) Unresolved Billing Disputes

In the case of a billing dispute between the Customer and the Company for service furnished to the Customer, which cannot be settled to the mutual satisfaction of the Customer and the Company, the Customer has up to 90 days (commencing 5 days after such bills have been mailed or otherwise rendered during the Company's normal course of business) to request an in-depth review of the disputed amount.

3.6.4 Discontinuance of Service for Cause

- (A) Upon nonpayment of any amounts owing to the Company, the Company may, by giving 24 hours prior written notice to the Customer, discontinue or suspend service without incurring any liability.
- (B) Upon violation of any of the other material terms or conditions for furnishing service the Company may, by giving 24 hours prior notice in writing to the Customer, discontinue or suspend service without incurring any liability if such violation continues during that period.
- (C) Upon condemnation of any material portion of the facilities used by the Company to provide service to a Customer or if a casualty renders all or any material portion of such facilities inoperable beyond feasible repair, the Company, by notice to the Customer, may discontinue or suspend service without incurring any liability.
- (D) Upon the Customer's insolvency, assignment for the benefit of creditors, filing for bankruptcy or reorganization, or failing to discharge an involuntary petition within the time permitted by law, the Company may immediately discontinue or suspend service without incurring any liability.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.6 Payment Arrangements (cont'd)

3.6.4 Discontinuance of Service for Cause

- (E) Upon any governmental prohibition or required alteration of the services to be provided or any violation of an applicable law or regulation, the Company may immediately discontinue service without incurring any liability.
- (F) In the event of fraudulent use of the Company's network, the Company may without notice suspend or discontinue service. The Customer will be liable for all related costs. The Customer will also be responsible for payment of any reconnection charges.
- (G) Upon the Company's discontinuance of service to the Customer under Section 3.6.4(A) or 3.6.4(B), the Company, in addition to all other remedies that may be available to the Company at law or in equity or under any other provision of this tariff, may declare all future monthly and other charges which would have been payable by the Customer during the remainder of the term for which such services would have otherwise been provided to the Customer to be immediately due and payable (discounted to present value at six percent).

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.6 Payment Arrangements (cont'd)

3.6.5 Notice to Company for Cancellation of Service

- (A) Customers desiring to terminate service shall provide Company thirty (30) days written notice of desire to terminate service.

Broadwing Communications, LLC
200 North LaSalle, Suite 1000
Chicago, IL 60601
Attn: Customer Care
1-888-362-2522

- (B) Customers seeking to terminate service have an affirmative obligation to provide for alternate routing of traffic originating from or terminating to the Company's network. By originating traffic from or terminating traffic to the Company's network, the Customer will have constructively ordered the Company's switched access service.

3.6.6 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved

Meet point billing applies when more than one Exchange Telephone Company is involved in the provision of Access Service. All recurring and nonrecurring charges for services provided by each Exchange Telephone Company are billed under each company's applicable rates as set forth in Section 3.6.6 (A) following.

The Company accepts and adheres to the Ordering and Billing Forum guidelines, Multiple Exchange Carrier Access Billing (MECAB) and Multiple Exchange Carrier Ordering and Design (MECOD).

The Company will handle ordering, rating and billing of Access Services under this tariff where more than one Exchange Telephone Company is involved in the provision of Access Service as follows.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By: Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.6 Payment Arrangements3.6.6 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (cont'd)

- (A) For Feature Group B and/or D Switched Access Service, when service is jointly provided by more than one Exchange Telephone Company, the Customer must supply a copy of the order to each Exchange Telephone Company involved in providing the service.

Each Exchange Telephone Company will provide the portion of Local Transport to an interconnection point (IP) with another Exchange Telephone Company and will bill the charges in accordance with its Access Service tariff for either Single Bill/Multiple Tariff arrangements or Multiple Bill/Single Tariff arrangements. For Single Bill/Single Tariff arrangements the Company will either bill the charges in accordance with its Access Service Tariff or agree to bill the Access Service charges of the interconnecting Exchange Telephone Company. The rate for the Transport elements will be determined as set forth in (B) and (C) following. All other appropriate charges in each Exchange Telephone Company tariff are applicable.

- (B) Multiply:

The number of access minutes by the Company's appropriate Local Transport Termination per minute rate. The resulting amount is the Company's total Local Transport Termination charge.

- (C) Add:

The products of (a) and (b) for the Company's total Local Transport-Common Switched Transport charges.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.6 Payment Arrangements3.6.6 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (cont'd)

(D) The charge for the Direct Trunked Transport-Facility Mileage rate element for services provided as set forth in Section 3.6.6 (A) preceding is determined as follows:

- (1) Determine the appropriate Switched Access Direct Trunked Transport-Facility mileage by computing the airline mileage between the two ends of the Direct Trunked Transport-Facility. Determine the airline mileage for the Direct Trunked Transport-Facility charge using the V&H method as set forth in Section 3.7.2 following.
- (2) For Feature Groups B or D Switched Access Service, the Direct Trunked Transport-Facility Mileage charge is determined by using the procedure set forth below:

Multiply:

The number of access minutes
by
the number of airline miles as determined in (1) preceding
by
the Company's appropriate Direct Trunked Transport-Facility per mile per access minute rate
by
the Company's billing percentage factor.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.6 Payment Arrangements

3.6.6 Ordering, Rating and Billing of Access Services Where More Than One Exchange Telephone Company is Involved (cont'd)

- (E) For Feature Groups B and D.
 - (1) For originating or terminating access traffic at a company operated end office, the Residual Interconnection Charge is calculated by multiplying that rate times the number of originating and terminating access minutes that are switched at the end office.
 - (2) For Entrance Facility equipment operated by the Company, the Entrance Facility and/or Multiplexing charge will apply.
 - (3) The Billing Percentage (BP) is not applicable to the Residual Interconnection charge, Entrance Facility or Multiplexer.
- (F) The interconnection points will be determined by the Exchange Telephone Companies involved. The billing percentage (BP) factor for the Company for the service between the involved offices will be listed in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.
- (G) Should any changes be made to the meet point billing with Broadwing Communications, LLC arrangements as set forth in Section 3.6.6(B) preceding, the Company will give affected Customers 30 days' notice.
- (H) Should the Company act as an intermediate, non-terminating local exchange carrier, Common Transport Termination rates, as determined in Section 3.6.6(B) preceding, will not be applied to the meet point billing arrangement.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By: Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS**3.6 Payment Arrangements****3.6.7 Changes in Service Requested**

If the Customer makes or requests material changes in circuit engineering, equipment specifications, service parameters, premises locations, or otherwise materially modifies any provision of the application for service, the Customer's installation fees shall be adjusted according to the term and conditions set forth in 5.4 following, Access Order Modifications.

3.6.8 Customer Overpayment

The Company will pay interest on a Customer overpayment. Customer overpayment shall mean a payment to the Company in excess of the correct charges for service when caused by erroneous billing by the Company. The rate of interest shall be the unadjusted interest rate paid on Customer deposits or the late payment penalty rate, whichever is greater. Interest shall be paid from the date when the Customer overpayment was made, adjusted for any changes in the deposit interest rate or late payment penalty rate, and compounded monthly, until the date when the overpayment is refunded. No interest shall be paid on customer overpayments that are refunded within thirty (30) days after such overpayment s received by the Company.

3.7 Application of Rates

The regulations set forth in this section govern the application of rates for services contained in other sections of this tariff.

3.7.1 Charges Based on Duration of Use

Customer traffic to end offices will be measured by the Company at end office switches. Originating and terminating calls will be measured by the Company to determine the basis for computing chargeable access minutes, as set forth in Section 6.6.3 following.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.7 Application of Rates (cont'd)3.7.2 Rates Based Upon Distance

Where the charges for service are specified based upon distance, the following rules apply:

(A) Distance between two points is measured as airline distance between the wire centers of the originating and terminating telephone lines. The wire center is set of geographic coordinates as referenced in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC NO. 4. Associated with each wire center are NPA-NXX combinations (where NPA is the area code and NXX is the first three digits of a seven-digit telephone number).

(B) The airline distance between any two wire centers is determined as follows:

- (1) Obtain the "V" and "H" coordinates for each wire center from the above-referenced NECA tariff.
- (2) Compute the difference between the "V" coordinates of the two wire centers; and the difference between the two "H" coordinates.
- (3) Square each difference obtained in step (2) above.
- (4) Add the square of the "V" difference and the square of the "H" difference obtained in step (3).
- (5) Divide the sum of the squares by 10. Round to the next higher whole number if any fraction is obtained.
- (6) Obtain the square root of the whole number result obtained above. Round to the next higher whole number if any fraction is obtained. This is the airline mileage.

(7) Formula =

$$\sqrt{\frac{(V1 - V2)^2 + (H1 - H2)^2}{10}}$$

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS**3.8 Allowances for Interruptions in Service****3.8.1 General**

- (A) A credit allowance will be given when service is interrupted, except as specified in Section 3.9.1 following. A service is interrupted when it becomes inoperative to the Customer, e.g., the Customer is unable to transmit or receive, because of a failure of a component furnished by the Company under this tariff.
- (B) An interruption period begins when the Customer reports a service, facility or circuit to be inoperative and, if necessary, releases it for testing and repair. An interruption period ends when the service, facility or circuit is operative.
- (C) If the Customer reports a service, facility or circuit to be interrupted but declines to release it for testing and repair, the service, facility or circuit is considered to be impaired but not interrupted. No credit allowances will be made for a service, facility or circuit considered by the Company to be impaired.

3.8.2 Limitations of Allowances

No credit allowance will be made for any interruption in service:

- (A) Due to the negligence of or noncompliance with the provisions of this Tariff by any person or entity other than the Company, including but not limited to the Customer or other common carriers connected to the service of the Company;
- (B) Due to the failure of power, equipment, systems, connections or services not provided by the Company;
- (C) Due to circumstances or causes beyond the control of the Company;
- (D) During any period in which the Company is not given full and free access to its facilities and equipment for the purposes of investigating and correcting interruptions;
- (E) During any period in which the Customer continues to use the service on an impaired basis;

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.8 Allowances for Interruptions in Service

3.8.2 Limitations of Allowances (cont'd)

- (F) During any period when the Customer has released service to the Company for maintenance purposes or for implementation of a Customer order for a change in service arrangements;
- (G) That occurs or continues due to the Customer's failure to authorize replacement of any element of special construction; and
- (H) That was not reported to the Company within thirty (30) days of the date that service was affected.

3.8.3 Use of Another Means of Communications

If the Customer elects to use another means of communications during the period of interruption, the Customer must pay the charges for the alternative service used.

3.8.4 Application of Credits for Interruptions in Service

- (A) Credits for interruptions in service that is provided and billed on a flat rate basis for a minimum period of at least one month, beginning on the date that billing becomes effective, shall in no event exceed an amount equivalent to the proportionate charge to the Customer for the period of service during which the event that gave rise to the claim for a credit occurred. A credit allowance is applied on a pro rate basis against the rates specified hereunder and is dependent upon the length of the interruption. Only those facilities on the interrupted portion of the circuit will receive a credit.
- (B) For calculating credit allowances, every month is considered to have thirty (30) days.
- (C) A credit allowance will be given for interruptions in service of 15 minutes or more. Two or more interruptions of 15 minutes or more during any one 24-hour period shall be considered as one interruption.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.8 Allowances for Interruptions in Service3.8.2 Application of Credits for Interruptions in Service (cont'd)(D) Interruptions of 24 Hours or Less

<u>Length of Interruption</u>	<u>Interruption Period To Be Credited</u>
Less than 15 minutes	None
15 minutes up to but not including 3 hours	1/10 Day
3 hours up to but not including 6 hours	1/5 Day
6 hours up to but not including 9 hours	2/5 Day
9 hours up to but not including 12 hours	3/5 Day
12 hours up to but not including 15 hours	4/5 Day
15 hours up to but not including 24 hours	One Day

(E) Continuous Interruption Over 24 Hours and Less Than 72 Hours.

Interruptions over 24 hours and less than 72 hours will be credited 1/5 day for each three-hour period or fraction thereof that occurs following the expiration of the initial 24-hour period. No more than one full day's credit will be allowed for any period of 24 hours.

(F) Interruptions Over 72 Hours.

Interruptions over 72 hours will be credited 2 days for each full 24-hour period that occurs following the expiration of the initial 72-hour period. No more than 30 days credit will be allowed for any one month period.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS3.8 Allowances for Interruptions in Service (cont'd)3.8.5 Cancellation For Service Interruption

Cancellation or termination for service interruption is permitted only if any circuit experiences a single continuous outage of 8 hours or more or cumulative service credits equaling 16 hours in a continuous 12-month period. The right to cancel service under this provision applies only to the single circuit which has been subject to the outage or cumulative service credits.

3.9 Cancellation of Service/Termination Liability

If a Customer cancels a Service Order or terminates services before the completion of the term for any reason whatsoever other than a service interruption (as defined in Section 3.8.1), the Customer agrees to pay to Company termination liability charges, which are defined below. These charges shall become due and owing as of the effective date of the cancellation or termination and be payable within the period set forth in Section 3.6.2.

3.9.1 Termination Liability

Customer's termination liability for cancellation of service shall be equal to:

- (a) all unpaid Non-Recurring charges reasonably expended by Company to establish service to Customer, plus;
- (b) any disconnection, early cancellation or termination charges reasonably incurred and paid to third parties by Company on behalf of Customer, plus;
- (c) all Recurring Charges specified in the applicable Service Order for the balance of the then current term discounted at the prime rate announced in the Wall Street Journal on the third business day following the date of cancellation;
- (d) minus a reasonable allowance for costs avoided by the Company as a direct result of customer's cancellation.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS**3.10 Customer Liability for Unauthorized Use of the Network****3.10.1 Unauthorized Use of the Network**

- (A) Unauthorized use of the Network occurs when: (1) a person or entity that does not have actual, apparent, or implied authority to use the Network, obtains the Company's services provided under this Tariff; or (2) a person or entity that otherwise has actual, apparent, or implied authority to use the Network, makes fraudulent use of the Network to obtain the Company's services provided under this Tariff, or uses specific services that are not authorized.
- (B) The following activities constitute fraudulent use:
 - (1) Using the Network to transmit a message, locate a person, or otherwise give or obtain information, without payment for the service;
 - (2) Using or attempting to use the Network with the intent to avoid payment, either in whole or part, of any of the Company's tariffed charges by either rearranging, tampering with, or making connections not authorized by this Tariff to any service components used to furnish the Company's services or using fraudulent means or devices, tricks, schemes, false or invalid numbers, false credit devices or electronic devices;
 - (3) Using fraudulent means or devices, tricks, schemes, false or invalid numbers, false credit devices or electronic devices to defraud or mislead callers.
- (C) Customers are advised that use of telecommunications equipment and services, including that provided under this Tariff, carries a risk of various forms of telecommunications fraud (including, but not limited to, toll and PBX fraud perpetrated by Users who gain access to a Customer's facilities, account numbers, security or authorization codes, etc.). Customers should take all necessary steps to restrict access to their facilities, including the equipment and services provided hereunder, and to detect and prevent unauthorized use of the equipment and services provided by the Company under this Tariff.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 3 - REGULATIONS

3.10 Customer Liability for Unauthorized Use of the Network (cont'd)

3.10.2 Liability for Unauthorized Use

- (A) Except as provided for elsewhere in this Tariff, the Customer is responsible for payment of all charges for services provided under this Tariff furnished to the Customer or User. This responsibility is not changed due to any use, misuse, or abuse of the Customer's service or Customer-provided equipment by Users or other third parties, the Customer's employees, or the public.
- (B) The Customer is liable for all costs incurred as a result of unauthorized use of the Network, including service charges and any direct, indirect, special, incidental, reliance, consequential, exemplary or punitive charges.
- (C) The Customer is responsible for payment of any charges related to the suspension and/or termination of service, and any charges for reconnection of service, incurred as a result of unauthorized use of the Network.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 4 – CARRIER COMMON LINE

4.1 Determination of Charges

- (A) The originating Access, per minute charge(s) apply to:
- all originating access minute of use;
 - less all originating access minutes of use associated with calls placed to 700, 800 and 900 numbers
 - less those originating access minutes of use associated with Mobile
 - Telephone Switching Offices (MTSOs).
 - plus all originating access minutes of use associated with calls placed to 700, 800 and 900 numbers for which the Customer furnishes for each month a report of either the number of calls or minutes or a report of percent of calls or minutes of use has been made as set forth in (A) preceding.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER**5.1 General**

An Access Service Order is used by the Company to provide a Customer Access Service. A Customer may order any number of services of the same type and between the same premises on a single Access Order. All details for services for a particular order must be identical except for those for multipoint service. Where no service order is placed to initiate service, a party shall be deemed a Customer for receipt of service in all circumstance in which such party knew or should have known that service was being provided. Failure to object to the provisioning of service after receipt of a bill identifying such service shall establish conclusively that such service was ordered.

When placing an order for Access Service, the Customer shall provide to the Company the order information required in Section 5.2 in addition to the following:

- Customer name and premises address(es).
- Billing name and address (when different from Customer name and address).
- Customer contact name(s) and telephone number(s) for the following provisioning activities: order negotiation, order confirmation,
- interactive design, installation and billing.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.2 Ordering Requirements

When ordering Switched Access service, the Customer must specify whether the service is to be provided as:

- (1) Direct Trunked Transport to the end office,
- (2) Direct Trunked Transport to a tandem which connects with Common Transport from the tandem to the end office or
- (3) Common Transport to the end office.

When all or a portion of service is ordered as Direct Trunked Transport, the Customer must specify the type and quantity of Direct Trunked Transport Facility (i.e., High Capacity DS1). The Customer must also specify the type of Entrance Facility to be used for Switched Access (e.g., High Capacity). For High Capacity Entrance Facilities, the Customer must specify the facility assignment and the channel assignment for each trunk.

- (A) For Feature Group B Switched Access Service, the Customer shall specify the number of trunks and the end office when direct routing to the end office is desired or the access tandem switch when routing is desired via an access tandem switch and the Local Transport and Local Switching options desired. When ordering FGB trunks to an access tandem, the Customer must also provide the Company an estimate of the amount of traffic to be generated to and/or from each end office subtending the access tandem to assist the Company in the effort to project further facility requirements.

In addition, the Customer shall also specify for terminating only access, whether the trunks are to be arranged in trunk group arrangements or provided as single trunks.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.2 Ordering Requirements (cont'd)

- (B) For Feature Group D Switched Access Service, the Customer shall specify the number of busy hour minutes of capacity (BHMC) from the Customer's premises to the end office by traffic type. This information is used to determine the number of transmission paths. The Customer shall also specify the Local Transport and Local Switching options. Customers may, at their option, order FGD by specifying the number of trunks and the end office when direct routing to the end office is desired or the access tandem switch when routing is desired via an access tandem switch and the Local Transport and Local Switching options desired. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the Customer must also provide the Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Company in its own efforts to project further facility requirements.

In addition, for Feature Group D with the SS7 signaling option, the Customer shall specify the switching point codes and trunk circuit identification codes for trunks with the SS7 signaling option.

When a Customer orders FGD in trunks, the Customer is responsible to assure that sufficient access facilities have been ordered to handle its traffic.

- (C) When a Customer orders collocation in an end office and/or access tandem with Company provided Switched Access Service(s), the Customer must specify the collocated fiber optic facilities or microwave interconnection location involved. The Customer must also specify the particular end office or access tandem location involved, which must be the end office in which the Switched Access Service(s) originate or terminate, or an Access Tandem in which such service(s) are switched.
- (D) For 800 Data Base Access Service, the Customer shall order the service in accordance with the preceding provisions set forth for Feature Group D.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.3 Access Order Service Date Intervals

Access Service is provided with one of the following Service Date Intervals:

- Standard Interval
- Negotiated Interval
- Advance Order Interval

To the extent the Access Service can be made available with reasonable effort, the Company will provide the Access Service in accordance with the Customer's requested interval, subject to the following conditions.

(A) Standard Interval

A schedule of Standard Intervals applicable for Switched Access Services and is as follows:

Feature Groups B and D

1 to 4 Trunks	28 Days
5 to 8 Trunks	30 Days

If a Customer requests that installation be done outside of normal scheduled work hours, and the Company agrees to this request, the Customer will be subject to applicable Additional Labor Charges as set forth in Section 8.2.2 following.

A Service Date Change Charge as set forth in Section 8.1.2(A) following will apply for the change in service date on a pending Standard Interval Access Order.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.3 Access Order Service Date Intervals (cont'd)(B) Negotiated Interval

The Company will negotiate a service date interval with the Customer when:

- (1) There is no Standard Interval for the service, or;
- (2) The quantity of Access Services orders exceeds the quantities specified in the Standard Intervals, or;
- (3) The Customer requests a service date beyond the applicable Standard Interval service date except as set forth in the following.

The Company will offer a service date based on the type and quantity of Access Services the Customer has requested. The Negotiated Interval may not exceed by more than six months the Standard Interval service date, or, when there is no Standard Interval, the Company offered service date. All services for which rates are applied on an individual case basis are provided with a Negotiated Interval.

Common Channel Signaling Access (CCSA) links will be provided on a Negotiated Interval. New or existing FGD trunks ordered with the SS7 signaling option will be provided on a Negotiated Interval.

The addition and/or deletion of an 800 Access Service six-digit Customer identification NXX is provided with a Negotiated Interval. The addition of an 800 Access Service ten digit Customer identification record to the 800 Access Service data base or the deletion of an 800 Access Service ten digit Customer identification record from the 800 Access Service data base is provided with a Negotiated Interval.

	<u>Maximum Interval</u>
Initial establishment of service where Customer is:	
- Not yet provided with any FGB or FGD service in the LATA	6 months
- Provided FGB or FGD service in the LATA	90 Days

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER**5.3 Access Order Service Date Intervals (cont'd)****(C) Advance Order Interval**

When placing an Access Order, a Customer may request an Advance Order Interval for a service date of 12 to 24 months from the Application Date for the following services:

- A minimum of 24 voice grade equivalent Switched Access Service lines or trunks or 720 BHMCs

Orders for less than the minimum quantities will be accommodated under Standard or Negotiated Interval provisions.

Advance Order Interval Access Orders are subject to all ordering conditions of Standard and Negotiated Interval Access Orders except for the following:

(1) Advance Payment

A nonrefundable Advance Payment will be calculated as follows:

Advance Payment (Nonrefundable) the minimum (Nonrefundable) monthly charge for the minimum period plus the applicable Nonrecurring Charges for the services ordered.

This Advance Payment is due 10 working days from the date the Company confirms acceptance of the order, or on the Application Date, whichever date is the later date. If the Advance Payment is not received by such payment date, the order will be cancelled.

When the Access Services are connected on the service date, the Advance Payment will be applied, as a credit, to the Customer's billed service charges. When there has been a decrease in the number of services originally ordered, as set forth in (2) following, only the portion of the Advance Payment for services actually installed will be credited.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.3 Access Order Service Date Intervals(C) Advance Order Interval (cont'd)(2) Cancellation or Partial Cancellation of an Advance Order Interval Access Order

When the Customer cancels an Access Order, the order will be withdrawn. The Advance Payment will not be credited or refunded.

Any decrease in the number of ordered Access Services will be treated as a partial cancellation, and the portion of the Advance Payment for the services cancelled will not be credited or refunded.

5.4 Access Order Modifications

The Customer may request a modification of its Access Order at any time prior to notification by the Company that service is available for the Customer's use or prior to the service date, whichever is later.

Any increase in the number of Switched Access Service lines, trunks or busy hour minutes of capacity or STP Access signaling connections will be treated as a new Access Order (for the increased amount only).

(A) Service Date Change Charge

Access Order service dates for the installation of new services or rearrangements of existing services may be changed, but the new service date may not exceed the original service date by more than 30 calendar days. When, for any reason, the Customer indicates that service cannot be accepted for a period not to exceed 30 calendar days, and the Company accordingly delays the start of service, a Service Date Change Charge will apply. If the Customer requested service date is more than 30 calendar days after the original service date, the order will be cancelled by the Company and reissued with the appropriate cancellation charges applied.

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The applicable charge is as set forth in Section 8.1.2(A) following.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.4 Access Order Modifications (cont'd)

(B) Partial Cancellation Charge

Any decrease in the number of ordered Switched Access Service lines, trunks or busy hour minutes of capacity ordered with a Standard or Negotiated Interval Access Order will be treated as a partial cancellation and the charges as set forth in Section 5.5(B)(1) following will apply. Partial cancellation charges do not apply to Advance Order Interval Access Orders.

(C) Design Change Charge

The Customer may request a design change to the service ordered. A design change is any change to an Access Order which requires engineering review. Design changes do not include a change of Customer premises, end user premises, end office switch, Feature Group type except for changes to Feature Group D. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Design Change Charge will apply on a per order per occurrence basis, for each order requiring a design change. The applicable charge is set forth in Section 8.1.2(B) following in addition to Additional Engineering as set forth in 8.2.2 following. If a change of service date is required, the Service Date Change Charge will also apply.

(D) Expedited Order Charge

When placing an Access Order for service(s) for which Standard Intervals exist, a Customer may request a service date that is prior to the Standard Interval service date. A Customer may also request an earlier service date on a pending Standard, Negotiated or Advance Order Interval Access Order. If the Company agrees to provide service on an expedited basis, an Expedited Order Charge will apply.

If the Company receives a request for an expedited service date at the time a Standard Interval Access Order is placed, the Expedited Order Charge is calculated by summing all the nonrecurring charges associated with the order and then dividing this total by the number of days in the Standard Interval. The charge is then applied on a per day of improvement basis, per order, but in no event shall the charge exceed fifty percent of the total nonrecurring charges associated with the Access Order.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.5 Cancellation of an Access Order

- (A) A Customer may cancel an Access Order for the installation of service at any time prior to notification by the Company that service is available for the Customer's use or prior to the service date, whichever is later. The cancellation date is the date the Company receives written or verbal notice from the Customer that the order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. If a Customer or an end user is unable to accept Access Service within 30 calendar days after the original service date, the Customer has the choice of the following options:

- The Access Order shall be cancelled and charges set forth in (B) following will apply, or
- Billing for the service will commence.

If no cancellation request is received within the specified 30 calendar days, billing for the service will commence. In any event, the cancellation date or the date billing is to commence, as applicable, shall be the 31st day beyond the original service date of the Access Order.

- (B) When a Customer cancels a Standard or Negotiated Interval Access Order for the installation of service, a Cancellation Charge will apply as follows:
- (1) When the Customer cancels an Access Order, a charge equal to the estimated provisioning costs incurred at a particular date for the service ordered by the Company shall apply.
 - (2) If the Company misses a service date for a Standard or Negotiated Interval Access Order by more than 30 days, due to circumstances such as acts of God, governmental requirements, work stoppages and civil commotions, the Customer may cancel the Access Order without incurring cancellation charges.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 5 – ACCESS SERVICE ORDER5.6 Minimum Period

- (A) The minimum period for which Access Service is provided and for which charges are applicable, is one month.
- (B) The following changes will be treated as a discontinuance of the existing service and an installation of a new service. All associated nonrecurring charges will apply for the new service.

The changes listed below are those which will be treated as a discontinuance and installation of service and for which a new minimum period will be established.

- (1) A move to a different building.
 - (2) A change in type of service.
 - (3) A change in Switched Access Service Interface Group.
 - (4) Change in Switched Access Service traffic type.
 - (5) A change in STP Link.
 - (6) A change in STP Port.
 - (7) Change in Company-provided Switched Access Service to a Collocated Interconnection arrangement or vice versa.
 - (8) Change to an existing Feature Group D Service to include the provision of 64 kbps Clear Channel Capability.
- (C) When Access Service is disconnected prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period.

The Minimum Period Charge for monthly billed services will be determined as follows:

- For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable minimum monthly charge for the capacity.
- All applicable nonrecurring charges for the service will be billed in addition to the Minimum Period Charge.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point communications path between a Customer designated premises and an end user's premises. It provides for the use of common terminating, switching, and trunking facilities and for the use of common subscriber plant of the Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a Customer designated premises, and to terminate calls from a Customer designated premises to an end user's premises in the LATA where it is provided.

Rates and charges for Switched Access Service depend generally on the specific Feature Group ordered by the Customer. Rates and charges for Switched Access Service are set forth in 8.1 following. The application of rates for Switched Access Service is described in 6.6 following.

6.1.1 Description and Provision of Switched Access Service Arrangements

(A) Description

Switched Access Service is provided in two different Feature Group arrangements which are service categories of standard and optional features. These are differentiated by their technical characteristics. They are also differentiated by optional feature availability and the manner in which the end user accesses them in originating calling.

The provision of each Feature Group requires Local Transport facilities, including an Entrance Facility where required, and the appropriate End Office functions.

Following is a brief description of each type of service arrangement.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.1 General6.1.1 Description and Provision of Switched Access Service Arrangements

(A) Description (cont'd)

(1) Feature Group B (FGB)

FGB Access, which is available to all Customers, provides trunk side access to Company end office switches with an associated uniform 950-XXXX access code for the Customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service or a customer-provided interstate communications capability. The Customer, upon request by the Company, must specify the Interexchange Carrier to which the FGB service is connected or, in the alternative, specify the means by which the FGB access communication is transported to another state. A more detailed description of FGB Access is provided in 6.4.1 following.

(2) Feature Group D (FGD)

FGD Access, which is available to all customers, provides trunk side access to Company end office switches with an associated uniform 10XXX or 101XXXX access code for the Customer's use in originating and terminating communications. End users may also originate and terminate calls to a selected FGD Access customer without dialing the 10XXX or 101XXXX access code by using the Company's presubscription service. A more detailed description of FGD Access is provided in 6.4.2 following.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.1 General6.1.1 Description and Provision of Switched Access Service Arrangements
(cont'd)

(B) Manner of Provision

Switched Access is furnished in quantities of trunks or in busy hour minutes of capacity (BHMCs). FGB Access is furnished on a per-trunk basis. FGD Access is furnished on a BHMC and on a per trunk basis as set forth in 5.2 preceding.

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic among BHMC types is necessary for the Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the Customer.

There are three major BHMC categories identified as: Originating, Terminating and Directory Assistance. Originating BHMCs represent access capacity within a LATA for carrying traffic from the end user to the Customer; Terminating BHMCs represent access capacity within a LATA for carrying traffic from the Customer to the end user; and, Directory Assistance BHMCs represent access capacity within a LATA for carrying Directory Assistance traffic from the Customer to a Directory Assistance location. When ordering capacity for FGD Access in BHMCs, the Customer must at a minimum specify such access capacity in terms of Originating BHMCs and/or Terminating BHMCs.

Because some Customers will wish to further segregate their originating traffic into separate trunk groups, or because segregation may be required by network considerations, originating BHMCs are further categorized into Domestic, 700, 800, 900, Operator, IDDD and Operator Transfer Services.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE

6.1 General

6.1.2 Rate Categories

There are four rate categories which apply to Switched Access Service:

- Local Transport
- End Office
- Chargeable Optional Features
- Common Line

(A) Local Transport

The Local Transport rate category provides for transmission facilities between the Customer's premises or collocated interconnection location and the Company's end office switch(es) where the Customer's traffic is switched to originate or terminate its communications

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Company. The two-way voice frequency transmission path permits the transport of calls in the originating direction and in the terminating direction, but not simultaneously.

When more than one Company is involved in providing the Switched Access Service, the Local Transport rates are applied as set forth in 3.6.6 preceding.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.1 General6.1.2 Rate Categories

(A) Local Transport (cont'd)

(1) Entrance Facility

The Entrance Facility rate element provides for the use of a communications path between a Customer designated premises and the serving wire center of that premises. Included as part of the Entrance Facility is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the customer designated premises and the type of signaling capability, if any. Entrance Facility is available as High Capacity service.

One charge applies for each Entrance Facility that is terminated at a customer-designated premises. This charge will apply even if the customer-designated premises and the serving wire center are collocated in a Company building.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.2 General6.1.2 Rate Categories

(A) Local Transport (cont'd)

(2) Direct Trunked Transport

The Direct Trunked Transport rate elements provides for the use of a communications path between a serving wire center and an end office or serving wire center and a tandem on circuits dedicated to the use of a single Customer.

Direct Trunked Transport is available in High Capacity DS1 or DS3 circuits only.

Direct Trunked Transport rates consist of a Direct Trunked Facility rates which is applied on a per mile basis and a Direct Trunked Termination rate which is applied at each end of each measured segment of the Direct Trunked Facility (e.g., at the end office, hub, tandem, and serving wire center). When the Direct Trunked Facility mileage is zero, the Direct Trunked Termination per mile rate will not apply.

(3) Interface Groups

Interface Group 6 provides DS1 level digital transmission at the point of termination at the Customer's premises. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps, with the capability to channelize up to 24 voice frequency transmission paths.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE**6.1 General****6.1.2 Rate Categories****(A) Local Transport (cont'd)****(4) Optional Features**

Where transmission facilities permit, the individual transmission paths between the Customer's designated premises and the first point of switching may, at the option of the Customer, be provided with the following optional features as set forth and described in 6.5 following.

- Supervisory Signaling
- Customer Specified Entry Switch Receive Level
- Customer Specification of Local Transport Termination
- Signaling System 7 (SS7) Signaling

(B) End Office

Where end offices are appropriately equipped, international dialing may be provided with Feature Groups D service. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through a standard FGD equipped end office.

(1) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements.

Included as part of Common Switching are various nonchargeable optional features which the Customer can order to meet the Customer's specific communications requirements. These optional features are described in 6.5.1 following.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.1 General6.1.2 Rate Categories

(B) End Office (cont'd)

(2) Common Line

The Common Line Rate category establishes the charges related to the use of company provided end user common lines by customers and users for interstate access.

(3) Transport Termination

Transport Termination functions provide for the line or trunk side arrangements which terminate the Local Transport facilities. Included as part of these functions are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.5.2 following.

(4) Line Termination

Line Termination provides for the terminations of end user lines in the local end office.

(5) Intercept

The Intercept function provides for the termination of a call at a 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.

(6) Information Surcharge

The Information Surcharge is a charge to recover costs that are incurred in the provision of interstate Directory Assistance Service. The Information Surcharge is assessed to the Customer based on the total number of access minutes.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.1 General6.1.3 Design Layout Report

At the request of the Customer, the Company will provide to the Customer the makeup of the facilities and services provided from the Customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the Customer at no charge and will be reissued or updated whenever these facilities are materially changed.

6.1.4 Transit Traffic Service

Transit Traffic Service is an access service in which the Company transits traffic originated by a third party who is not an End User or other user of the Company's local exchange or exchange access service through its wire centers to a Customer. Transit Traffic Service is comprised of various facilities, connections, features and functions. It provides for the use of common terminating, common switching and switched transport facilities of the Company but does not include local switching. Rates for Transit Traffic Service are usage sensitive and are listed in Section 8 of this tariff.

6.1.5 Cross Connects

This service connects two facilities from the same customer or facilities from two different customers in the Company's central office(s). Cross connect service is provided at the DS1 level. Cross connect rates are listed in Section 8.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.2 Undertaking of the Company

In addition to the obligations of the Company set forth in Section 3 preceding, the Company has certain other obligations concerning the provision of Switched Access Service. These obligations are as follows:

6.2.1 Network Management

The Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Company's network services. Generally, service levels are considered acceptable only when both end users and Customers are able to establish connections with little or no delay encountered within the Company network. The Company maintains the right to apply protective controls, i.e., those actions which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a Customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Company or Customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Company result in the complete loss of service by the Customer, the Customer will be granted a Credit Allowance for Service Interruption as set forth in 3.8.1 preceding.

6.2.2 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Company through its own service evaluation routines, may also be made available to the Customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., Customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE**6.2 Undertaking of the Company (cont'd)****6.2.3 Determination of Number of Transmission Paths**

For Feature Group B, which is ordered on a per line or per trunk basis respectively, and Feature Group D when ordered on a per trunk basis the Customer specifies the type of transport facilities and the number of channels in the order for service.

6.2.4 Determination of Number of Transmission Paths

For Common Transport, the Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Feature Group D busy hour minutes of capacity ordered. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.1(B) preceding) for the end offices for each Feature Group ordered from a Customer's designated premises. The total busy hour minutes of capacity by type (e.g., originating, terminating, IDDD, Operator) for the end office will be converted to transmission paths using standard Company traffic engineering methods. The number of transmission paths provided shall be the number required based on (1) the use of access tandem switches and end office switches, (2) the use of the end office switches only, or (3) the use of the tandem switches only.

6.2.5 Trunk Group Measurement Reports

Subject to availability, the Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the Customer based on previously agreed to intervals.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.2 Undertaking of the Company (cont'd)6.2.6 Design Blocking Probability

The Company will design the facilities used in the provision of Switched Access Service FGD to meet the blocking probability criteria as set forth in (A) and (B) following.

- (A) For Feature Group D, the design blocking objective will be no greater than one percent (.01) between the point of termination at the Customer's designated premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem.

Standard traffic engineering methods will be used by the Company to determine the number of transmission paths required to achieve this level of blocking.

- (B) The Company will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The Company will recommend that additional capacity (i.e., busy hour minutes of capacity or trunks) be ordered by the Customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.2 Undertaking of the Company6.2.6 Design Blocking Probability

(B) (cont'd)

- (1) For transmission paths carrying only first routed traffic direct between an end office and Customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour For the Number of Measurements Taken Between 8 A.M. and 11 P.M.			
	Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	7.0%	8.0%	9.0%	14.0%
3	5.0%	6.0%	7.0%	8.0%
4	5.0%	6.0%	7.0%	8.0%
5-6	4.0%	5.0%	6.0%	7.0%
7 or more	3.0%	3.5%	4.0%	6.0%

- (2) For transmission paths carrying first routed traffic between an end office and Customer's premises via an access tandem, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour For the Number of Measurements Taken Between 8 A.M. and 11 P.M.			
	Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	4.5%	5.5%	6.0%	9.5%
3	3.5%	4.0%	4.5%	6.0%
4	3.5%	4.0%	4.5%	5.5%
5-6	2.5%	3.5%	4.0%	4.5%
7 or more	2.0%	2.5%	3.0%	4.0%

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE**6.3 Obligations of the Customer**

In addition to the obligations of the Customer set forth in Section 3. preceding, the Customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.3.1 Report Requirements

Customers are responsible for providing the following report to the Company, when applicable.

(A) Jurisdictional Reports

When a Customer orders Switched Access Service for both interstate and intrastate use, the Customer is responsible for providing reports as set forth in 3.3.3 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the interstate charges is set forth in 3.3.3 preceding.

6.3.2 Trunk Group Measurement Reports

With the agreement of the Customer, trunk group data in the form of usage in CCS, peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to the Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

6.3.3 Supervisory Signaling

The Customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.3 Obligations of the Customer (cont'd)6.3.4 Short Duration Mass Calling Requirements

When a Customer offers service for which a substantial call volume is expected during a short period of time (e.g., 900 service media stimulated events), the Customer must notify the Company at least 48 hours in advance of each peak period. Notification should include the nature, time, duration, and frequency of the event, an estimated call volume, and the telephone number(s) to be used.

On the basis of the information provided, the Company may invoke network management controls, (e.g., call gaping and code blocking) to reduce the probability of excessive network congestion. The Company will work cooperatively with the Customer to determine the appropriate level of such control.

6.3.5 Design Of Switched Access Services

When a Customer orders Switched Access Service on a per line or per trunk basis, it is the Customer's responsibility to assure that sufficient access services have been ordered to handle its traffic.

6.4 Provision and Description of Switched Access Service Feature Groups

Switched Access Service is provided in various arrangements including two different Feature Group arrangements. The provision of each Feature Group requires Switched Transport services and the appropriate Local Switching Functions. In addition, Switched Transport and Local Switching optional features are available as options with the various Feature Groups.

Following are detailed descriptions of each of the available Feature Groups. Each Feature Group is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, the optional features available for use with it and the standard testing capabilities.

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.1 Feature Group B (FGB) (cont'd)

(A) Description

- (1) FGB Access, which is available to all Customers, provides trunk side access to Company end office switches with an associated uniform 950-XXXX access code. FGB trunk side access is provided for the Customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service or a Customer provided interstate communications capability. The Customer must specify the Interexchange Carrier to which the FGB service is connected or, in the alternative, specify the means by which the FGB access communications is transported to another state.
- (2) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Company electronic end office switches. When provided via Company designated electronic access tandem switches, FGB switching is provided at Company electronic and electromechanical end office switches.
- (3) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling.
- (4) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Any other address signaling in the originating direction, if required by the Customer, must be provided by the Customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.1 Feature Group B (FGB)

(A) Description (cont'd)

- (5) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-XXXX. A uniform access code(s) will be assigned to the Customer for the Customer's domestic communications and another will be assigned to the Customer for its international communications, if required. These access codes will be the assigned access numbers of all FGB switched access service provided to the Customer by the Company.
- (6) The Company will establish a trunk group or groups for the Customer at end office switches or access tandem switches where FGB switching is ordered. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group at the option of the Company.
- (7) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Company, community information services of an information service provider and other Customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.1 Feature Group B (FGB)

(A) Description

(7) (cont'd)

The Customer will also be billed additional non - access charges for calls to certain community information services for which rates are applicable under Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGB trunk to another Customer's service in accordance with that Customer's applicable service rates when the Company performs the billing function for that Customer.

Calls in the terminating direction will not be completed to the 950-XXXX access code, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 or 10XXX/101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when FGB switching is combined with Directory Assistance (DA) switching. The combination of FGB Switched Access Service with DA service is provided as set forth in Section 8. following. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B and D.

- (8) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.1 Feature Group B (FGB) (cont'd)

(B) Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group B. They are set forth in (1), (2) and (3) following and are provided as Common Switching, Transport Termination and Local Transport options. Additionally, other optional features provided in local tariffs are set forth in (4) following.

(1) Common Switching Options

- (a) Alternate Traffic Routing
- (b) Up to 7 Digit Outpulsing of access Digits to Customers

(2) Transport Terminations Options

- (a) Rotary Dial Station Signaling

(3) Local Transport Options

- (a) Customer Specification of Local Transport Termination
- (b) Supervisory Signaling
- (c) Customer Specified Entry Switch Receive Level

(4) Optional Features Provided In Local Tariffs

Certain other features which may be available in connection with Feature Group B are provided under the Company's local and/or general exchange service tariffs. These are:

- Bill Number Screening

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE

6.4 Provision and Description of Switched Access Service Feature Groups (cont'd)

6.4.2 Feature Group D (FGD)

(A) Description

- (1) FGD Access, which is available to all Customers, provides trunk side access to Company end office switches.
- (2) FGD is provided at Company designated end office switches whether routed directly or via Company designated electronic access tandem switches.
- (3) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling.
- (4) FGD switching is provided with multifrequency address signaling or out of band SS7 signaling. With multifrequency address signaling and SS7 signaling, up to 12 digits of the called party number dialed by the Customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Company equipment to the Customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.2 Feature Group D (FGD)

(A) Description (cont'd)

- (5) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Company, community information services of an information service provider, and other Customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The Customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service.

Additionally, non-access charges will also be billed for calls from a FGD trunk to another Customer's service in accordance with that Customer's applicable service rates when the Company performs the billing function for that Customer. Calls in the terminating direction will not be completed to 950-XXXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 and 10XXX/101XXXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when FGD switching is combined with Directory Assistance switching. The combination of FGD Switched Access Service with DA Service is provided as set forth in Section 8. following. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Group B.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.2 Feature Group D (FGD)

(A) Description (cont'd)

- (6) The Company will establish a trunk group or groups for the Customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Company.
- (7) The access codes for FGD switching are uniform and are of the form 10XXX and 101XXXX. A uniform access code(s) will be the assigned number of all FGD access provided to the Customer by the Company. No access code is required for calls to a Customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that Customer, as set forth in 7.4 following.

Where no access code is required, the number dialed by the Customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the Customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

When the 10XXX or 101XXXX access codes are used, FGD switching also provides for dialing the digit 0 for access to the Customer's operator, 911 for access to the Company's emergency reporting service, or the end-of-dialing digit (#) for cut-through access to the Customer designated premises.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE

6.4 Provision and Description of Switched Access Service Feature Groups

6.4.2 Feature Group D (FGD)

(A) Description (cont'd)

- (8) FGD switching will be arranged to accept calls from exchange service locations without the need for dialing the 10XXX or 101XXX access codes. Each exchange service line may be marked with a code to identify which 10XXX/101XXXX code its calls will be directed to for interLATA service.
- (9) When a Customer has had FGB access in an end office and subsequently replaces the FGB access with FGD access, at the mutual agreement of the Customer and the Company, the Company will direct calls dialed by the Customer's end users using the Customer's previous FGB access code to the Customer's FGD access service. The Customer must be prepared to handle normally dialed FGD calls, as well as calls dialed with the FGB access code which requires the Customer to receive additional address signaling from the end user. Such calls will be rated as FGD. The Company may, with 90 days' written notice to the Customer, discontinue this arrangement.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.2 Feature Group D (FGD)

(B) Optional Features

Following are the various optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group D. Optional Features are provided as Common Switching, Transport Termination and Local Transport options as set forth in (1) through (3) following.

(1) Common Switching Options

- (a) Alternate Traffic Routing
- (b) Automatic Number Identification – ANI
- (c) Flexible Automatic Number Identification
- (d) International Carrier Option
- (e) Service Class Routing

(2) Transport Termination Optional Features

- (a) Operator Trunk, Full Feature Arrangement

(3) Local Transport Options

- (a) Supervisory Signaling
- (b) Signaling System 7 (SS7) Signaling
- (c) 64 Clear Channel Capability

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups (cont'd)6.4.3 Interstate Inward Dial Switched Access Service

(A) Description

- (1) The Interstate Inward Dial (IID) Switched Access Service is a Private Branch Exchange (PBX) Trunk that uses Central Office trunks in connection with providing direct inward dialing service from the telecommunications network to the customer's premises for use in connection with dial switching or number identifying equipment. IID Switched Access Service is available only in the terminating direction to the PBX and only in the states of California and Texas.
- (2) IID Switched Access Service is provided as a trunkside switching service. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling. Three or four digit outpulsing of called party telephone numbers to the customer can be provided.
- (3) IID Switched Access Service must be ordered with blocks of telephone numbers. IID station number assignments are provisioned in blocks of 100. Vacant IID stations or stations not in use must be intercepted by the customer. An IID station number cannot be removed from a group to provide non-IID service.
- (4) IID Switched Access Service is provided with Dual Tone Multifrequency (DTMF) or Dial Pulse (DP) address signaling when provided at suitably equipped electronic end offices. No other address signaling is provided by the Company. Additional address signaling, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Company and will be subject to the ordinary transmission capabilities of the Switched Transport.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.3 Interstate Inward Dial Switched Access Service

(A) Description (cont'd)

- (5) The Company will establish a trunk group or groups for the customer at end office switches where IID Switched Access Service is provided. IID Switched Access Service requires a minimum of one circuit termination per trunk group requested. A separate identity is required for each separate trunk group.

(B) Transmission Specifications

IID Switched Access Service is provided a transmission quality parameter of no more than 5.5 db loss from the customers serving wire center to the PBX. IID Switched Access Service is provided a digital 1.544 Mbps service.

(C) Testing Capabilities

Installation and acceptance testing will be provided with the service.

(D) Limitations

IID Switched Access Service end office trunk lines cannot be:

- (1) extended to an off-premise location;
- (2) coterminated with residence service.

(E) Interoffice Mileage

Interoffice mileage is applicable when the customer orders the IID Switched Access Service from a Company end office other than the customer's serving wire center. The interoffice mileage rate element will apply to the airline transport miles between the customer's serving wire center and the end office where the IID Access Service connection resides. Airline mileage is measured using the V&H Coordinates Method as set forth in the National Exchange Carrier Association Tariff F.C.C. No. 4.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.4 Provision and Description of Switched Access Service Feature Groups6.4.3 Interstate Inward Dial Switched Access Service (cont'd)

(F) IID Trunk Queuing

The IID Trunk Queuing option permits customers of Direct Inward Dial Access Service to hold a specified number of calls in queue for delayed delivery when all circuits in a IID Trunk Group are busy. This option allows calls, which otherwise would have received a busy signal, to be held and rerouted to the customer's IID Trunk Group when a circuit becomes available.

Calls held in queue will receive a recorded delay call announcement and are delivered on a "first in first out" basis. The customer may order and record up to a maximum of four delay announcements. Each delay announcement may vary in length from three to twenty four seconds.

IID Number Conditioning is a required feature on all IID Numbers assigned to a trunk group equipped with IID Trunk Queuing. IID Number Conditioning for use with IID Trunk Queuing must be assigned in sequential order. The customer determines the number of queue slots they require, however, the number of slots cannot exceed the number of IID Trunks provisioned in a IID Trunk Group. IID Trunk Queuing is available only from the Company's end offices where facilities and operating conditions permit.

(G) Description and Application of Rates and Charges

Monthly recurring rates and nonrecurring charges for IID Switched Access Service can be found in Section 8.1.6.

The access rate components of Local Switching and Switched Transport are recovered through flat rated, non-usage sensitive rate elements of the IID PBX Trunk and the IID Circuit Termination. An Interstate Carrier Common Line (CCL) charge is not applicable to IID Switched Access Service because this service is a terminating only service and terminating CCL usage is presently charged to all interstate Feature Group services required to complete interexchange carrier traffic to an IID PBX Trunk.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.5 Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in addition to, the standard features provided with the Feature Groups. They are provided as Common Switching, Transport Termination, and Local Transport options.

6.5.1 Common Switching Optional Features

(A) Automatic Number Identification (ANI)

- (1) This option provides the automatic transmission of a ten digit number and to the Customer designated premises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with:
 - (a) all individual transmission paths in a trunk group routed directly between an end office and a Customer designated premises or, where technically feasible, with:
 - (b) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a Customer designated premises.
- (2) The ten digit ANI telephone number is only available with Feature Group D. The ten digit ANI telephone number consists of the Number Plan Area (NPA) plus the seven digit ANI telephone number. The ten digit ANI telephone number will be transmitted on all calls except those identified as or ANI failure, in which case only the NPA will be transmitted. Ten digit ANI is provided with multifrequency address signaling or SS7 signaling.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.5 Optional Features6.5.1 Common Switching Optional Features (cont'd)

(B) Up to 7 Digit Outpulsing of Access Digits to Customer

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-XXXX) to the Customer designated premises.

The Customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the Customer designated premises using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. This feature is available with Feature Group B.

(C) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a Customer designated premises, based on the line class of service (e.g., coin, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+) or Service Access Code (e.g., 900). It is provided in suitably equipped end office or access tandem switches. It is available with Feature Group D.

D) Alternate Traffic Routing

When the Customer orders both Direct Trunked Transport and Common Transport at the same end office, this option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a Customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The Customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches. It is available with Feature Groups B and D.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.5 Optional Features6.5.1 Common Switching Optional Features (cont'd)

(E) International Carrier Option

This option allows for Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the Customer (i.e., the Company is able to route originating international calls to a Customer other than the one designated by the end user either through presubscription or 10XXX/101XXXX dialing). This arrangement requires provision of written verification to the Company that the Customer is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the Customer to order the option on behalf of the international carrier. This option is only provided at Company end offices or access tandems equipped for International Direct Distance Dialing and is available only with Feature Group D.

(F) Flexible Automatic Number Identification

This feature provides enhanced Automatic Number Identification service by providing additional information indicator (ii) digits. Flexible Automatic Number Identification will provide additional values for these ii digits over and above the values currently available with the ANI Feature, and will be used to identify additional call types.

Customers who have the ANI feature, but do not order Flexible Automatic Number Identification, will continue to receive the standard ii digits or originating line information. Flexible Automatic Number Identification ii digits will be assigned by the North American Numbering Plan Administrator.

This service is only available with Feature Group D served by suitably equipped Company central offices and will be subject to a charge as specified in section 8.1.5(A) following.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.5 Optional Features (cont'd)6.5.2 Transport Termination Optional Features

(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the Customer designated premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis.

(B) Operator Trunk, Full Feature Arrangement

This option provides the initial coin return control function to the Customer's operator. It is available with Feature Group D.

6.5.3 Local Transport Option Features

(A) Customer Specified Entry Switch Receive Level

Customer Specified Entry Switch Receive Level allows the Customer to specify the receive transmission level at the first point of switching. This feature is available with Interface Groups 2, 3 and 6 for Feature Group B.

(B) Customer Specification of Local Transport Termination

Customer Specification of Local Transport Termination allows the Customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Local Transport at the first point of switching in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

(C) Supervisory Signaling

Supervisory Signaling allows the Customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the Customer to meet its signaling capability.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE

6.5 Optional Features

6.5.3 Local Transport Option Features (cont'd)

(D) Signaling System 7 (SS7) Signaling

This feature provides common channel out of band transmission of address and supervisory SS7 protocol signaling information between the end office switch or the tandem office switching system and the Customer's designated premises.

(E) 64 Clear Channel Capability

The 64 Clear Channel Capability (64 CCC) option employs the Bipolar 8 Zero Suppression (B8ZS) technique to permit Customers to use the full 64 Kbps bandwidth of a DS0 channel. 64 CCC is available with Interface Group 6 for Feature Group D with Signaling System 7 signaling.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.6 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service

6.6.1 Rate Zones

Rate zones are applicable to all Switched Access Service rate categories. In a given state, each Company wire center has been assigned to a rate zone as described in Section 3.7.2 preceding.

- Entrance Facility rates are dependent upon the zone assignment of the Serving Wire Center.
- Direct Trunked Termination and Common Transport Termination rates are dependent upon the assignment of the Serving Wire Center and the Company access tandem or the end office.
- Direct Trunked Transport and Common Transport that is computed between wire centers in different rate zones will be assigned the rates in the higher rate zone.
- Network Blocking rates will be determined by the designation of the end office.

6.6.2 Description and Application of Rates and Charges

There are three types of rates and charges that apply to Switched Access Service. These are recurring rates, usage rates and nonrecurring charges. These rates and charges are applied directly to various rate elements as set forth following.

(A) Recurring Rates

Recurring rates are flat rates that apply each month or fraction thereof that a specific rate element is provided. For billing purposes, each month is considered to have 30 days.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.6 Rate Regulations6.6.2 Description and Application of Rates and Charges (cont'd)

(B) Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These are applied on a per occurrence (e.g., access minute, message call or query) basis. Usage rates are accumulated over a monthly period.

(C) Nonrecurring Charges

Nonrecurring charges are on-time charges that apply for a specific work activity (i.e., installation of new services or rearrangements of installed services).

(1) Installation of Service

- (a) A nonrecurring charge applies for each initial installation of an Entrance Facility. For each Entrance Facility of the same type, ordered at the same time, for the same date and from the same Customer premises to the same serving wire center, the applicable Entrance Facility nonrecurring charge will apply on a first and additional basis.
- (b) A nonrecurring Installation Charge, as set forth in 8.1.1(B) following, applies to each Common Transport Switch Facility and Direct Trunked Facility installed. For Switched Services ordered on a busy hour minutes of capacity basis, the charge is applied only when the capacity ordered requires the installation of an additional trunk(s).

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.6 Rate Regulations6.6.2 Description and Application of Rates and Charges

(C) Nonrecurring Charges (cont'd)

(2) Entrance Facility and Direct Trunked Transport Rates

- (a) One flat monthly Entrance Facility charge applies per Customer designated premises at which an Entrance Facility channel is terminated. This charge will apply even if the Customer designated premises and the serving wire center are located in the same building.
- (b) The Direct Trunked Transport rate category is composed of two flat rated monthly recurring rate elements. These are the Direct Trunked Facility and the Direct Trunked Termination rate elements.

One Direct Trunked Termination charge applies per end of the Direct Trunked Facility that terminates in the Company's serving area. The Direct Trunked Termination charge does not apply to Direct Trunked circuits if the Customer's serving wire center and the end office are in the same central office.

The Direct Trunked Facility charge applies per mile of interoffice transport provided over Direct Trunked services. The Facility charge does not apply to Direct Trunked circuits if the interoffice mileage is zero. The mileage measurement for determining the monthly rate for Direct Trunked Facility is specified in Section 6.6.4.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.6 Rate Regulations (cont'd)6.6.3 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded or assumed) by the Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Company to determine the basis for computing chargeable access minutes. In the event the Customer message detail is not available because the Company lost or damaged tapes or experienced recording system outages, the Company will estimate the volume of lost Customer access minutes of use based on previously known values.

For terminating calls over FGB and FGD Access Service, the measured minutes are chargeable access minutes. Where assumed minutes are used, the assumed minutes are the chargeable access minutes.

FGB and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Customer traffic to end offices will be measured (i.e., recorded or assumed) by the Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded or assumed) by the Company to determine the basis for computing chargeable access minutes. In the event the Customer message detail is not available because the Company lost or damaged tapes or experienced recording system outages, the Company will estimate the volume of lost Customer access minutes of use based on previously known values.

For originating calls over Feature Group B or D, usage measurement begins when the originating Feature Group B or D switch receives the first wink supervisory signal forwarded from the Customer's point of termination.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.6 Rate Regulations6.6.3 Measuring Access Minutes (cont'd)

The measurement of originating call usage ends when the originating Feature Group B or D switch receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the Customer's point of termination, whichever is recognized first by the switch.

For terminating calls over Feature Group B or D, the measurement of access minutes begins when the terminating Feature Group B or D switch receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. For terminating calls over FGB and FGD Access Service, the measured minutes are chargeable access minutes. Where assumed minutes are used, the assumed minutes are the chargeable access minutes.

The measurement of terminating call usage over Feature Group B or D ends when the terminating Feature Group B or D switch receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the Customer's point of termination, whichever is recognized first by the switch.

FGB and FGD Access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.6 Rate Regulations (cont'd)6.6.4 Mileage Measurement

The mileage to be used to determine the Direct Trunked Facility charges is calculated on the airline distance, as set forth in (A) through (C) following. The V&H coordinates method is used to determine mileage. This method is set forth in 3.7.2 preceding, Rates Based Upon Distance.

To determine the rate to be billed, first compute the mileage usage the V&H coordinates method. If the calculation results in a fraction of a mile, always round up to the next whole mile. If the Switched Transport is Direct Trunked, then multiply the rounded mileage by the corresponding Direct Trunked Transport rate.

- (A) When Direct Trunked Transport is ordered to the end office, Direct Trunked Transport is measured on an airline distance basis between the end office and the Customer's serving wire center.
- (B) When a Customer orders Direct Trunked Transport between its serving wire center and a tandem or a hubbing location or between a hub and an end office, the mileage used to determine the monthly rate for direct Trunked Transport is calculated on the airline mileage basis, between the Customer's serving wire center and the access tandem or hub, or between the hub or the end office, respectively.
- (C) For SS7 signaling, the mileage to be used to determine the monthly rate for the STP Link facility is calculated on the airline distance between the serving wire center associated with the Customer's designated premises (Signaling Point of Interface) and the wire center providing the STP Port.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 6 - SWITCHED ACCESS SERVICE6.6 Rate Regulations (cont'd)6.6.5 Network Blocking Charge

The Customer will be notified by the Company to increase its capacity (busy hour minutes of capacity or quantities of trunks) when excessive trunk group blocking occurs on groups carrying Feature Group D traffic. Excessive trunk group blocking occurs when the blocking thresholds as described in below are exceeded. If the order for additional capacity has not been received by the Company within 15 days of the notification, the Company will bill the Customer, at the rate set forth in 8.1.4(E) following.

Blocking Thresholds

<u>Trunks in Service</u>		<u>1%</u>	<u>½%</u>
1-2	7.0%	4.5%	
3-4	5.0%	3.5%	
5-6	4.0%	2.5%	
7 or greater		3.0%	2.0%

The 1% blocking threshold is for transmission paths carrying traffic direct (without an alternate route) between an end office and a Customer's premises. The ½% blocking threshold is for transmission paths carrying first routed traffic between an end office and a Customer's premises via an access tandem.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 7 – ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND
MISCELLANEOUS SERVICES7.1 General

In this section, normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 7:00 a.m. to 4:00 p.m.) for the application of rates based on working hours.

7.2 Additional Engineering

Additional Engineering will be provided by the Company at the request of the Customer only when:

- A Customer requests additional technical information after the Company has already provided the technical information included on the Design Layout Report as set forth in 6.1.3 preceding.

The Company will notify the Customer that additional engineering charges, as set forth in 8.2.2 following, will apply before any additional engineering is undertaken.

7.3 Additional Labor

Additional labor is that labor requested by the Customer on a given service and agreed to by the Company as set forth in 7.3.1 through 7.3.5 following. The Company will notify the Customer that additional labor charges as set forth in 8.2.2 following will apply before any additional labor is undertaken.

7.3.1 Overtime Installation

Overtime installation is that Company installation effort outside of normally scheduled working hours.

7.3.2 Overtime Repair

Overtime repair is that Company maintenance effort performed outside of normally scheduled working hours.

7.3.3 Stand by

Stand by includes all time in excess of on-half (1/2) hour during which Company personnel stand by to make cooperative tests with a Customer to verify facility repair on a given service.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 7 – ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND
MISCELLANEOUS SERVICES

7.3 Additional Labor

7.3.4 Testing and Maintenance with Other Companies

Additional testing, maintenance or repair of facilities which connect to facilities of other telephone companies, which is in addition to normal effort required to test, maintain or repair facilities provided solely by the Company.

7.3.5 Other Labor

Other labor is that additional labor not included in 7.3.1 through 7.3.4 preceding and labor incurred to accommodate a specific Customer request that involves only labor which is not covered by any other section of this tariff.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 7 – ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND
MISCELLANEOUS SERVICES7.4 Billing Name and Address Service

Billing Name and Address (BNA) Service is the provision of the complete billing name, street address, city or town, state and zip code for a telephone number assigned by the Company.

BNA Service is provided for the sole purpose of permitting the customer to bill its telephone communications service to its end users and may not be resold or used for any other purpose, including marketing activity such as market surveys or direct marketing by mail or telephone.

The customer may not use BNA information to bill for merchandise, gift certificates, catalogs or other services or products.

BNA Service which allows customers to submit the end user's ten digit Automatic Number Identification (ANI) for returned end user BNA, is provided on a manual basis. The BNA information may be requested by a written request (i.e., U.S. mail). The Company, upon receipt of the customer's request will process the ANI. If the BNA information is available within the Company's billing records, the Company will produce a report of associated BNA information.

BNA information is furnished for sent and paid, collect, bill to third number 700 and 900 services and messages charged to a calling card that is resident in the Company's database.

7.4.1 Undertaking of The Company

The Company will respond within ten (10) business days of receipt of a customer's manual request for end user BNA information on over 100 and up to 500 telephone numbers.

- (A) Due to normal end user account activity, there may be instances where the BNA that was applicable at the time the message was originated.
- (B) The Company shall use reasonable efforts to provide accurate and complete BNA information. The company makes no warranties, expressed or implied, as to the accuracy or completeness of this BNA information. The BNA information will be provided for the calling number furnished to the extent a billing name and address exists in the Company's records, including non-published and non-listed numbers. If the billing name and address information for a specific calling number is confidential due to legal, national security, end user or regulatory imposed requirements, the Company will provide an indicator on the confidential records.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 7 – ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND
MISCELLANEOUS SERVICES7.4 Billing Name and Address Service (cont'd)7.4.2 Obligations of the Customer

- (A) With each order for BNA Service, the customer shall identify the authorized individual and address to receive the BNA information.
- (B) The customer shall institute adequate internal procedures to insure that BNA information, including that related to “confidential” non-published and non-listed telephone numbers is used only for the purpose set forth in this tariff and that BNA information is available only to those customer personnel or agents with a need to know the information. The customer must handle all billing name and address information designated as confidential by the company in accordance with company’s procedures concerning confidential information. The Company will provide to the customer a statement of its procedures concerning confidential information.
- (C) The customer shall not publicize or represent to others that the Company jointly participates with the customer in the development of the customer’s end user records, accounts, data bases or market data, records, files and data bases or other systems it assembles through the use of BNA service
- (D) When the customer orders BNA Service for both interstate and intrastate messages, the Jurisdictional Reporting Requirements listed in Section 3.3.3 will be applicable. When the Customer orders BNA Service for both interstate and intrastate messages, the projected percentage of interstate use must be provided in a whole number to the Company. The Company will designate the number obtained by subtracting the projected interstate percentage from 100 (100-projected interstate percentage = intrastate percentage) as the projected intrastate percentage.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 7 – ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND
MISCELLANEOUS SERVICES7.4 Billing Name and Address Service7.4.2 Obligations of the Customer (cont'd)

- (E) This whole number percentage will be used by the Company to apportion the rates and nonrecurring charges between interstate and intrastate in those circumstances where the recorded message detail is not sufficient to permit the Company to determine the appropriate jurisdiction. This percentage will remain in effect until a revised report is received as set forth following.

Effective on the first of January, April, July and October of each year the Customer may update the jurisdictional report. The Customer shall forward to the Company, to be received no later than 20 calendar days after the first of each such month, a revised report showing the interstate percentage of use for the past three months ending the last day of December, March, June and September, respectively. Except where jurisdiction can be determined from the recorded message detail, the revised report will serve as the basis for the next three months billing and will be effective on the bill date in the following month (e.g., February, May, August and November). No prorating or back billing will be done based on the report. If the Customer does not supply the report, the Company will assume the percentages to be the same as those provided in the last quarterly report. For those cases in which a quarterly report has never been received from the Customer, the Company will assume the percentages to be the same as those provided in the order for service.

The Company shall use reasonable efforts to provide accurate and complete lists. The company makes no warranties, expressed or implied, as to the accuracy or completeness of these lists.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 7 – ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND
MISCELLANEOUS SERVICES7.4 Billing Name and Address Service (cont'd)

- 7.4.3 This section contains the specific regulations governing the rates and charges that apply for BNA Service. Specific rates and charges are set forth in Section 8.2.3.

The Service Establishment Charge and Record Transmission Charge apply to BAN Service. The Record Transmission Charge is a usage rate which applies on a per message (ANI) basis. The Record Transmission Charges are accumulated over a monthly period. The Company will keep a count of the records (ANI's) transmitted and report pages processed. The Company will bill the customer in accordance with these counts whether or not the Company was able to provide BNA information for all BNA records. For billing purposes, each month is considered to have 30 days. When a customer cancels an order for BNA Service after the order date, the Service Establishment Charge (if applicable) and the Record Transmission Charge will apply.

(A) Service Establishment Charge

The BNA Service Establishment Charge applies for the initial establishment of BNA Service on either a manual or mechanized basis.

(B) Record Transmission Charge

The BNA Record Transmission Charge is a usage rate which applies on a per ten-digit ANI (message) basis. Each message is subject to the BNA Record Transmission Charge, regardless of whether the requested telephone number is available. The Record Transmission Charge is applied on either a manual or mechanized basis.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 7 – ADDITIONAL ENGINEERING, ADDITIONAL LABOR AND
MISCELLANEOUS SERVICES7.5 800 Data Base Access Service

800 Data Base Access Service is a service offering utilizing originating trunk side Switched Access Service. The service provides for the forwarding of end user dialed 800 calls to a Company Service Switching Point which will initiate a query to the database to perform the Customer identification and delivery function. The call is forwarded to the appropriate Customer based on the dialed 800 number. Any dial around compensation relating to pay telephones will be billed in accordance to procedures and rates proscribed by the Federal Communications Commission. The Company reserves the right to bill the users of its toll free service for any dial around compensation costs the Company may incur. In the event where no carrier identification code is available with the call information, the service provider of the POTS routable number will be invoiced for any service provided by the Company.

7.5.1 Customer Identification Charge

The 800 Data Base Access Service Customer Identification applies for the identification of the appropriate Customer. The charge is assessed to the Customer per query.

7.5.2 Payphone Dial Around Surcharge

This surcharge is paid to Payphone Service Providers (PSP) when a toll free number is dialed from a pay phone and is carried over the Company's facilities to the Company's toll free customer. The surcharge is calculated on per call basis and the rate is mandated by the Federal Communications Commission, plus a factor to recover the company's administrative costs. A surcharge per call completed to a toll free customer of the Company, when the call is originated from a payphone, will be assessed on the toll free customer's invoice. The Company uses the National Payphone Clearing house to compensate PSPs. Payphone Dial Around Surcharge rate is listed in Section 8.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.1 Service Implementation

(A)	Access Order Charge	Per Access Order	
	California, Indiana, Massachusetts Washington	\$ 35.00	
	Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$105.00	
	Florida, Georgia	\$ 31.60	
	Illinois, Minnesota , New York, Ohio, Connecticut and Texas	\$ 35.00	
	Michigan	\$ 50.00	
(B)	Installation Charges	<u>Per Trunk</u> <u>First</u>	<u>Additional</u>
	California, Florida, Georgia Indiana, Massachusetts,	\$ 90.00	\$ 90.00
	Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$ 12.00	\$ 12.00
	Connecticut, Illinois, New York, Texas	\$ 90.00	\$ 90.00
	Minnesota	\$ 90.00	\$ 90.00
	Michigan	\$100.00	\$100.00
	Ohio	\$327.35	\$ 90.00
	Washington	\$491.05	\$ 57.25

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges (cont'd)8.1.2 Change Charges

(A)	Service Date	<u>Nonrecurring Charges</u>
	California, Indiana, Massachusetts, Michigan, Washington	\$ 21.47
	Delaware, District of Columbia, Maryland New Jersey, Pennsylvania, Virginia	\$100.00
	Florida, Georgia	\$ 31.60
	Illinois, Texas	\$ 21.47
	New York, Connecticut	\$ 21.47
	Minnesota, Ohio	\$ 35.00
(B)	Design Charges	<u>Nonrecurring</u>
	California, Indiana, Massachusetts, Michigan	\$113.98
	Delaware, District of Columbia, Maryland New Jersey, Pennsylvania, and Virginia	\$125.00
	Florida, Georgia, Texas, Washington	\$ 50.00
	Illinois	\$113.98
	Minnesota, Ohio	\$ 35.00
	Connecticut, New York	\$113.98

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges (cont'd)8.1.3 Interstate Switched Access

(A) Local End Office Switching Rate

Rates per minute

	Originating	Terminating
California	\$0.002620	\$0.000000
Connecticut	\$0.003133	\$0.000000
Delaware	\$0.002406	\$0.000000
District of Columbia	\$0.002406	\$0.000000
Florida	\$0.002126	\$0.000000
Georgia	\$0.002126	\$0.000000
Illinois	\$0.003116	\$0.000000
Indiana	\$0.003116	\$0.000000
Maryland	\$0.002406	\$0.000000
Massachusetts	\$0.002406	\$0.000000
Michigan	\$0.003116	\$0.000000
Minnesota	\$0.001974	\$0.000000
New Jersey	\$0.002406	\$0.000000
New York	\$0.002406	\$0.000000
Ohio – CBT	\$0.0038625	\$0.000000
Ohio – Ameritech	\$0.003116	\$0.000000
Pennsylvania	\$0.002406	\$0.000000
Texas	\$0.002563	\$0.000000
Virginia	\$0.002406	\$0.000000
Washington	\$0.001974	\$0.000000

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.3 Interstate Switched Access (cont'd)

(B) Local End Office Switching – Port Charge

Rates per minute

	Originating	Terminating
California	\$0.004696	\$0.000000
Connecticut	\$0.001400	\$0.000000
Delaware	\$0.001688	
District of Columbia	\$0.001688	
Florida	\$0.000800	\$0.000000
Georgia	\$0.000800	\$0.000000
Illinois	\$0.000371	\$0.000000
Indiana	\$0.000371	\$0.000000
Maryland	\$0.001688	
Massachusetts	\$0.001688	
Michigan	\$0.000371	\$0.000000
Minnesota	\$0.000747	\$0.000000
New Jersey	\$0.001688	
New York	\$0.001688	
Ohio – CBT	\$0.000968	\$0.000000
Ohio – Ameritech	\$0.000371	\$0.000000
Pennsylvania	\$0.001688	
Texas	\$0.000900	\$0.000000
Virginia	\$0.001688	
Washington	\$0.000747	\$0.000000

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

(

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.3 Interstate Switched Access (cont'd)

(C) Switched Transport Usage Rates – Switched Transport

Rates Per Access Minute

	Originating	Termination to Third Party	Terminating to Company End Office
California	\$0.000075	\$0.000075	\$0.000000
Connecticut	\$0.000063	\$0.000063	\$0.000000
Delaware	\$0.000000	\$0.000000	\$0.000000
District of Columbia	\$0.000000	\$0.000000	\$0.000000
Florida	\$0.000168	\$0.000168	\$0.000000
Georgia	\$0.000168	\$0.000168	\$0.000000
Illinois	\$0.000103	\$0.000103	\$0.000000
Indiana	\$0.000103	\$0.000103	\$0.000000
Maryland	\$0.000000	\$0.000000	\$0.000000
Massachusetts	\$0.000000	\$0.000000	\$0.000000
Michigan	\$0.000103	\$0.000103	\$0.000000
Minnesota	\$0.000240	\$0.000240	\$0.000000
New Jersey	\$0.000000	\$0.000000	\$0.000000
New York	\$0.000000	\$0.000000	\$0.000000
Ohio	\$0.000600	\$0.000600	\$0.000000
Pennsylvania	\$0.000000	\$0.000000	\$0.000000
Texas	\$0.000053	\$0.000053	\$0.000000
Virginia	\$0.000000	\$0.000000	\$0.000000
Washington	\$0.000240	\$0.000240	\$0.000000

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges (cont'd)8.1.3 Interstate Switched Access

(D) Switched Transport Usage Rates – Switched Transport (cont'd)

Rates Per Access Minute Per Mile

	Originating	Termination to Third Party	Terminating to Company End Office
California	\$0.000015	\$0.000015	\$0.000000
Connecticut	\$0.000003	\$0.000003	\$0.000000
Delaware	\$0.000002	\$0.000002	\$0.000000
District of Columbia	\$0.000002	\$0.000002	\$0.000000
Florida	\$0.000020	\$0.000020	\$0.000000
Georgia	\$0.000020	\$0.000020	\$0.000000
Illinois	\$0.000013	\$0.000013	\$0.000000
Indiana	\$0.000013	\$0.000013	\$0.000000
Maryland	\$0.000002	\$0.000002	\$0.000000
Massachusetts	\$0.000002	\$0.000002	\$0.000000
Michigan	\$0.000013	\$0.000013	\$0.000000
Minnesota	\$0.000030	\$0.000030	\$0.000000
New Jersey	\$0.000002	\$0.000002	\$0.000000
New York	\$0.000002	\$0.000002	\$0.000000
Ohio	\$0.000117	\$0.000117	\$0.000000
Pennsylvania	\$0.000002	\$0.000002	\$0.000000
Texas	\$0.000003	\$0.000003	\$0.000000
Virginia	\$0.000002	\$0.000002	\$0.000000
Washington	\$0.000030	\$0.000030	\$0.000000

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges (cont'd)

(N)

8.1.3 Interstate Switched Access

(D) Switched Transport Usage Rates – Switched Transport (cont'd)

Tandem Switching
Rates Per Access Minute

	Originating	Termination to Third Party	Terminating to Company End Office
California	\$0.000440	\$0.000440	\$0.000000
Connecticut	\$0.000634	\$0.000634	\$0.000000
Delaware	\$0.001574	\$0.001574	\$0.000000
District of Columbia	\$0.001574	\$0.001574	\$0.000000
Florida	\$0.001145	\$0.001145	\$0.000000
Georgia	\$0.001145	\$0.001145	\$0.000000
Illinois	\$0.001084	\$0.001084	\$0.000000
Indiana	\$0.001084	\$0.001084	\$0.000000
Maryland	\$0.001574	\$0.001574	\$0.000000
Massachusetts	\$0.001574	\$0.001574	\$0.000000
Michigan	\$0.001084	\$0.001084	\$0.000000
Minnesota	\$0.002252	\$0.002252	\$0.000000
New Jersey	\$0.001574	\$0.001574	\$0.000000
New York	\$0.001574	\$0.001574	\$0.000000
Ohio	\$0.002001	\$0.002001	\$0.000000
Pennsylvania	\$0.001574	\$0.001574	\$0.000000
Texas	\$0.000288	\$0.000288	\$0.000000
Virginia	\$0.001574	\$0.001574	\$0.000000
Washington	\$0.002252	\$0.002252	\$0.000000

(N)

(Filed under Transmittal No. 3.)

Issued: August 31, 2020

Effective: September 1, 2020

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges (cont'd)8.1.4 Local Transport

(A) DS-1 Entrance Facility

		<u>Monthly Charges</u>	<u>Non-Recurring Charges</u>	
			<u>First</u>	<u>Additional</u>
California	Zone 1	\$135.00	\$633.50	\$300.00
	Zone 2	\$175.00	\$633.50	\$300.00
	Zone 3	\$185.00	\$633.50	\$300.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, and Virginia		\$240.00	\$325.00	\$200.00
Florida, Georgia		\$380.00	\$665.00	\$180.00
Illinois		\$166.50	\$444.00	\$394.00
Indiana, Michigan		\$225.00	\$425.00	\$375.00
Massachusetts	Zone 1	\$210.60	\$250.00	\$150.00
	Zone 2	\$268.00	\$250.00	\$150.00
	Zone 3	\$277.00	\$250.00	\$150.00
Minnesota		\$116.82	\$ 500.00	

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.4 Local Transport(A) DS-1 Entrance Facility (cont'd)

		<u>Monthly Charges</u>	<u>Non-Recurring Charges</u>	
			<u>First</u>	<u>Additional</u>
Ohio		\$ 82.12	\$729.03	\$500.00
Connecticut, New York		\$200.00	\$618.09	\$353.52
Texas	Zone 1	\$162.00	\$600.00	\$456.00
	Zone 2	\$162.00	\$600.00	\$456.00
	Zone 3	\$165.00	\$600.00	\$456.00
Washington	Zone 1	\$115.00	\$313.25	\$313.25
	Zone 2	\$ 125.00	\$313.25	\$313.25
	Zone 3	\$ 135.00	\$ 313.25	\$313.25

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.4 Local Transport (cont'd)

(B) DS-3 Entrance Facility

Interstate Access Facilities

Entrance Facility
DS3 per point of
termination, MRC

Illinois, Indiana, Michigan, Ohio \$800.00

Delaware, District of Columbia,
Maryland, Massachusetts, New Jersey,
New York, Pennsylvania, Virginia \$2,300.00

Florida, Georgia \$1,500.00

Texas \$1,200.00

California \$1,000.00

Connecticut \$1,850.00

Minnesota, Washington \$1,100.00

Nonrecurring Charge

First DS3 \$600.00

Each additional DS3 \$400.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.4 Local Transport (cont'd)

(C) Transit Traffic Service

	<u>Tandem Switching</u>	<u>Tandem Termination</u>	<u>Tandem Transport</u>
California	\$0.000440	\$0.000075	\$0.000015
Connecticut	\$0.000634	\$0.000063	\$0.000003
Delaware	\$0.001574	\$0.000000	\$0.000002
District of Columbia	\$0.001574	\$0.000000	\$0.000002
Florida	\$0.001145	\$0.000168	\$0.000020
Georgia	\$0.001145	\$0.000168	\$0.000020
Illinois	\$0.001084	\$0.000103	\$0.000013
Indiana	\$0.001084	\$0.000103	\$0.000013
Maryland	\$0.001574	\$0.000000	\$0.000002
Massachusetts	\$0.001574	\$0.000000	\$0.000002
Michigan	\$0.001084	\$0.000103	\$0.000013
Minnesota	\$0.002252	\$0.000240	\$0.000030
New Jersey	\$0.001574	\$0.000000	\$0.000002
New York	\$0.001574	\$0.000000	\$0.000002
Ohio	\$0.002001	\$0.000600	\$0.000117
Pennsylvania	\$0.001574	\$0.000000	\$0.000002
Texas	\$0.000288	\$0.000053	\$0.000003
Virginia	\$0.001574	\$0.000000	\$0.000002
Washington	\$0.002252	\$0.000240	\$0.000030

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.4 Local Transport (cont'd)

(D) Direct Trunked Transport

<u>Per DS1</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	
	<u>Termination</u>	<u>Per mile</u>	<u>First Add'l</u>
California	\$71.00	\$10.09	
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$ 60.00	\$17.70	
Florida, Georgia	\$ 90.00	\$23.50	
Illinois	\$ 57.34	\$13.27	
Indiana, Michigan	\$ 81.00	\$25.00	
Massachusetts	\$ 70.00	\$21.00	
Minnesota			
0 to 8 Miles	\$ 85.06	\$13.39	
8 to 25 Miles	\$109.43	\$14.27	
25 to 50 Miles	\$114.69	\$14.27	
over 50 Miles	\$133.80	\$15.09	
New York, Connecticut	\$ 66.00	\$21.25	
Ohio	\$ 67.30	\$15.68	\$1.74
Texas	\$ 57.34	\$13.27	
Washington			
0 to 8 mi.	\$ 86.50	\$13.55	
8 to 25 mi	\$109.85	\$14.19	
25 to 50 mi	\$116.35	\$14.51	
over 50	\$127.99	\$15.02	

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.4 Local Transport (cont'd)

(E) DS3 Trunked Transport

Interstate Access Facilities

Direct Trunked Transport

	<u>DS3 Fixed</u>	<u>DS3 per mile</u>
	<u>MRC</u>	<u>MRC</u>
Illinois, Indiana, Michigan, Ohio	\$550.00	\$290.00
Delaware, District of Columbia, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, Virginia	\$550.00	\$825.00
Florida, Georgia	\$550.00	\$100.00
Texas	\$550.00	\$ 40.00
California	\$550.00	\$ 40.00
Connecticut	\$550.00	\$ 60.00
Minnesota, Washington	\$550.00	\$750.00

(F) Network Blocking Charge¹Per Blocked Call

California	\$ 0.000000
Delaware, District of Columbia, Florida, Georgia, Maryland, New Jersey, Pennsylvania, Texas, Virginia, Washington	\$ 0.007900
Illinois	\$ 0.001088
Indiana, Michigan	\$ 0.001088
Massachusetts	\$ 0.010699
Minnesota, Ohio	\$ 0.007900
Connecticut, New York	\$ 0.010699

¹Applies to FGD only

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.4 Local Transport (cont'd)

(G) Dedicated Port Multiplexing

Interstate Access Facilities

Multiplexing
DS3 to DS1
MRC

Illinois, Indiana, Michigan, Ohio	\$450.00
Delaware, District of Columbia,	
Maryland, Massachusetts, New Jersey,	
New York, Pennsylvania, Virginia	\$730.00
Florida, Georgia	\$730.00
Texas	\$550.00
California	\$285.00
Connecticut	\$500.00
Minnesota, Washington	\$275.00

(H) Cross Connects

NonrecurringMonthly

Rates per Cross Connect	\$150.00	\$75.00
-------------------------	----------	---------

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.4 Local Transport (cont'd)

(I) Non-chargeable Optional Features

- (1) Supervisory Signaling
 - DX Supervisory Signaling arrangement
 - Per Transmission Path
 - SF Supervisory Signaling arrangement
 - Per Transmission Path
 - E&M Type I Supervisory Signaling arrangement
 - Per Transmission Path
 - E&M Type II Supervisory Signaling arrangement
 - Per Transmission Path
 - E&M Type III Supervisory Signaling arrangement
 - Per Transmission Path
- (2) Signaling System 7
 - Per signaling connection arranged
- (3) 64 kbps Clear Channel Capability
 - Per Transmission Path
- (4) Customer specification of the receive transmission level at the first point of switching within a range acceptable to the Company
 - Per Transmission Path

(J) Service Rearrangement

	<u>Non-Recurring First</u>	<u>Additional Non-Recurring</u>
Change in Point Code	\$ 136.87	\$15.80

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By: Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES**8.1 Rates and Charges (cont'd)****8.1.5 Local Switching****(A) Common Switching Optional Features/Basic Service Elements**

Automatic Number Identification

(Available with FGB and FGD)

- Per Transmission Path Group

Service Class Routing

(Available with FGD)

- Per Transmission Path Group

Alternate Traffic Routing

Multiple Customer Premises Alternate Routing

(Available with FGB and FGD)

- Per Transmission Path or Transmission Path Group

End Office Alternate Routing When Ordered in trunks

(Available with FGB and FGD)

- Per Transmission Path or Transmission Path Group

International Carrier Option

(Available with FGD)

- Per End Office and Access Tandem

Up to 7 Digit Outpulsing of Access Digits to Customer

(Available with FGB)

- Per Transmission Path Group

Flexible Automatic Number Identification

(Available with FGD)

- Per CIC per End Office

Nonrecurring Charge**\$1,500.00**

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES

8.1 Rates and Charges

8.1.5 Local Switching (cont'd)

(B) Transport Termination Options

Trunk Side Terminations:

Standard Trunk for Originating, Terminating or Two-way Operation
(Available with FGB and FGD)

Operator Trunk, Full Feature Arrangement
(Available with FGD)

Operator Trunk, Assist Feature Arrangement
(Available with FGD)

Rotary Dial Station Signaling Trunk
(Available with FGB)

(C) SS7 Signaling Option

Calling Party Number
(Available with FGD)

Charge Number
(Available with FGD)

Carrier Selection Parameter
(Available with FGD)

Access Transport Parameter
(Available with FGD)

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges8.1.5 Local Switching (cont'd)

(D) Dedicated Port Per DS1 Port*

<u>State</u>	<u>DS0</u> <u>Originating</u>	<u>Terminating</u>	<u>DS1</u> <u>Originating</u>	<u>Terminating</u>
CA	\$11.08	\$0.00		
CT			\$140.00	\$0.00
DC	\$11.25	\$0.00		
DE	\$11.25	\$0.00		
FL	\$9.47	\$0.00	\$146.93	\$0.00
GA	\$9.47	\$0.00	\$146.93	\$0.00
IL	\$4.92	\$0.00	\$118.09	\$0.00
IN	\$4.92	\$0.00	\$118.09	\$0.00
MA	\$11.25	\$0.00		
MD	\$11.25	\$0.00		
MI	\$4.92	\$0.00	\$118.09	\$0.00
MN	\$3.00	\$3.00		
NJ	\$11.25	\$0.00		
NY	\$11.25	\$0.00		
OH – CBT	\$3.25	\$1.38		
OH – AIT	\$4.92	\$0.00	\$118.09	\$0.00
PA	\$11.25	\$0.00		
TX	\$18.96	\$0.00		
VA	\$11.25	\$0.00		
WA	\$3.00	\$3.00		

* The Dedicated Switch Port is billed as originating and terminating based on a Percent Originating Use (POU) factor of 50%.

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.1 Rates and Charges (cont'd)8.1.6 Interstate Inward Dial Switched Access Service

		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A)	IID PBX Trunk		
-	Per individual trunk	\$ 37.65	\$304.00
(B)	IID Circuit Termination		
-	Per individual trunk	\$ 7.55	\$ 0.00
(C)	Blocks of Telephone Numbers		
-	Per 100 numbers	\$ 0.05	\$304.00
(D)	Interoffice Mileage		
-	Over 0 Miles		
1.	Voice Grade		
-	Fixed	\$ 24.42	\$ 0.00
-	Per mile	\$ 0.54	\$ 0.00
2.	1.544 Mbps		
-	Fixed	\$ 75.00	\$ 0.00
-	Per mile	\$ 16.00	\$ 0.00
(E)	IID Trunk Queuing		
1.	IID Trunk Queuing with First Announcement		
-	Per Arrangement	\$105.95	\$393.00
2.	Additional Announcement		
-	Per Arrangement	\$ 12.80	\$ 27.00
3.	Queue Slots		
-	Per Slot	\$ 0.10	\$ 37.00
4.	IID Number Conditioning for Use with IID Trunk Queuing		
-	Per Group of 20 Numbers	\$ 13.05	\$129.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
California	\$ 57.00	\$ 6.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$110.00	\$55.00
Illinois	\$ 49.91	\$44.69
Indiana, Michigan, Minnesota, Ohio	\$ 44.91	\$44.69
Florida, Georgia	\$ 66.00	\$39.79
Massachusetts	\$ 55.60	\$19.90
Connecticut, New York	\$ 8.28	\$20.87
Texas	\$ 34.59	\$24.97
Washington	\$ 45.00	\$25.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Overtime, outside of normally scheduled working hours per engineer		
California	\$ 60.00	\$39.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$120.00	\$60.00
Illinois, Minnesota, Ohio	\$ 76.70	\$50.75
Indiana, Michigan	\$ 76.70	\$50.75
Florida, Georgia	\$ 73.41	\$47.20
Massachusetts	\$ 59.70	\$24.00
Connecticut, New York	\$ 38.28	\$20.87
Texas	\$ 41.37	\$31.75
Washington	\$ 45.00	\$25.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Installation or Repair Overtime, outside of normally scheduled working hours on a scheduled work day per technician		
California, Washington	\$ 45.00	\$24.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$110.00	\$55.00
Florida, Georgia, New York, Connecticut	\$ 29.78	\$22.27
Illinois, Minnesota, Ohio	\$ 30.60	\$26.62
Indiana, Michigan	\$ 30.60	\$26.62
Massachusetts	\$ 29.70	\$22.20
Texas	\$250.00	\$100.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Installation or Repair Premium Time, outside of normally scheduled work day per technician		
California, Washington	\$ 49.00	\$28.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$120.00	\$60.00
Illinois, Minnesota, Ohio	\$ 31.46	\$31.46
Indiana, Michigan	\$ 31.46	\$31.46
Massachusetts	\$ 43.30	\$ 7.60
Connecticut, New York	\$ 34.50	\$ 27.00
Texas, Florida, Georgia	\$300.00	\$250.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Stand By Basic Time, outside of normally scheduled work hours, per technician		
California, Washington	None	\$ 21.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, and Virginia	None	\$ 50.00
Illinois, Minnesota, Ohio	None	\$ 23.67
Indiana, Michigan	None	\$ 23.67
Massachusetts	None	\$ 12.40
Connecticut, New York	None	\$ 20.22
Florida, Georgia, Texas	None	\$115.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Stand By Overtime, outside of normally scheduled working hours on a scheduled work day, per technician		
California, Washington	None	\$24.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	None	\$55.00
Florida, Georgia	\$44.00	\$29.00
Illinois, Minnesota, Ohio	None	\$27.05
Indiana, Michigan	None	\$27.05
Massachusetts	None	\$12.40
Connecticut, New York	None	\$23.99
Texas	None	

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Stand-By Premium Time, outside of normally scheduled work day, per technician		
California, Washington	None	\$ 28.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	None	\$ 60.00
Illinois, Minnesota, Ohio	None	\$ 31.29
Indiana, Michigan	None	\$ 31.29
Massachusetts	None	\$ 20.00
Connecticut, New York	None	\$ 28.81
Florida, Georgia, Texas	None	\$170.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Testing and Maintenance Basic time, normally scheduled work hours per technician		
California	\$ 42.00	\$21.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia	\$100.00	\$50.00
Florida, Georgia	\$ 42.00	\$23.00
Illinois, Minnesota, Ohio	\$ 23.94	\$22.68
Indiana, Michigan	\$ 23.94	\$22.68
Massachusetts	\$ 48.00	\$12.40
Connecticut, New York	\$ 44.14	\$19.29
Texas	\$ 85.00	\$55.00
Washington	\$ 45.00	\$25.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Testing and maintenance Overtime, outside of normally Scheduled working hours on a scheduled work day per technician		
California	\$ 45.00	\$ 24.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, and Virginia	\$110.00	\$ 55.00
Florida, Georgia	\$ 49.00	\$ 29.00
Illinois, Minnesota, Ohio	\$ 26.62	\$ 26.62
Indiana, Michigan	\$ 26.62	\$ 26.62
Massachusetts	\$ 51.90	\$ 16.20
Connecticut, New York	\$ 49.31	\$ 23.06
Texas	\$100.00	\$ 80.00
Washington	\$ 45.00	\$ 25.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services8.2.2 Additional Labor Charges (cont'd)

<u>Additional Labor Periods</u>	<u>First Half Hour or Fraction Thereof</u>	<u>Each Additional Half Hour or Fraction Thereof</u>
Premium time, outside of normally scheduled work day per technician		
California	\$ 49.00	\$ 28.00
Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, and Virginia	\$ 120.00	\$ 60.00
Florida, Georgia	\$ 57.00	\$ 34.00
Illinois, Minnesota, Ohio	\$ 31.46	\$ 31.46
Indiana, Michigan	\$ 31.46	\$ 31.46
Massachusetts	\$ 55.70	\$ 20.00
Connecticut, New York	\$ 55.94	\$ 27.86
Texas	\$110.00	\$ 90.00
Washington	\$ 50.00	\$ 35.00

(Filed under Transmittal No. 1.)

Issued: December 11, 2018

Effective: December 12, 2018

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021

ACCESS SERVICES

SECTION 8 – RATES AND CHARGES8.2 Miscellaneous Services (cont'd)8.2.3 Billing and Collection Services

(A) Billing Name and Address Service

Recurring Charges

Service Establishment Charge	\$250.00
Query Charge Per TN	\$ 0.20
Automatic Number Identification	
- per attempt	\$ 0.0121
Recording per customer message	\$ 0.0081

8.2.4 800 Data Base Access Service

(A) Customer Identification

Basic
Per QueryComplex
Per Query

California	\$0.004777	\$0.006736
Connecticut	\$0.003393	\$0.005783
Delaware	\$0.004356	\$0.006345
District of Columbia	\$0.004356	\$0.006345
Florida	\$0.004210	\$0.004310
Georgia	\$0.004210	\$0.004310
Illinois	\$0.002304	\$0.003611
Indiana	\$0.002304	\$0.003611
Maryland	\$0.004356	\$0.006345
Massachusetts	\$0.004356	\$0.006945
Michigan	\$0.002304	\$0.003611
Minnesota	\$0.004053	\$0.006829
New Jersey	\$0.004356	\$0.006345
New York	\$0.004356	\$0.006945
Ohio	\$0.002391	\$0.003611
Pennsylvania	\$0.004356	\$0.006345
Texas	\$0.002531	\$0.002802
Virginia	\$0.004356	\$0.006345
Washington	\$0.004053	\$0.006829

(N)

(N)

(B) Payphone Dial Around Compensation

- Per Toll Free Call \$0.65

(Filed under Transmittal No. 3.)

Issued: August 31, 2020

Effective: September 1, 2020

Issued By:

Regulatory and Public Policy
1025 Eldorado Boulevard
Broomfield, CO 80021