ACCESS SERVICES

l4. SPECIAL CONSTRUCTION

This Section contains the regulations, liabilities, rates and charges applicable for special construction of Telephone Company facilities which are used to provide services offered in this and other Southwestern Bell Telephone Company Tariffs.

When special construction of facilities is required, the provisions of this Section apply in addition to all regulations, rates and charges set forth in other Southwestern Bell Tariffs.

l4.1 Ownership of Facilities

The Telephone Company retains ownership of all specially constructed facilities.

l4.2 Interval to Provide Facilities

Based on available information and the type of service ordered, the Telephone Company will establish a completion date for the specially constructed facilities. The Telephone Company will make every reasonable effort to assure that the date is met. However, shortage of material, personnel or other factors may lengthen the installation interval. The Telephone Company does not guarantee that the facilities will be available on the scheduled date and assumes no liability if that date is missed. If the scheduled completion date cannot be met, the IC will be notified, and a new completion date will be established.

14.3 Payments for Special Construction

14.3.1 Payment of Charges

All bills associated with special construction are due in accordance with the appropriate regulations in the service tariff under which service is being provided.

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

14.3 Payments for Special Construction-(Continued)

14.3.2 Start/End of Billing

Billing of recurring charges for specially constructed facilities starts on the day after the facilities are made available for use. Billing accrues through and includes the day that the specially constructed facilities are discontinued.

14.3.3 Partial Payments

To safeguard its interests during construction, the Telephone Company may require partial payments(s) for the portion of the estimated cost of the special construction for which a nonrecurring charge will apply. Partial payments may be requested as costs are incurred and will be credited against the total bill. Partial payments may not exceed the total non-recurring charge for the special construction. If any partial payment is not received by the Telephone Company by the end of the first working day of the next month, the Telephone Company will cease all work on the special construction case, and cancellation charges will apply as set forth in Paragraph 14.4.4, F., following. (CT)

(AT) 14.3.4 Credit Allowance for Service Interruptions

In the event of a service interruption involving a specially constructed facility, the customer shall receive a recurring monthly charge credit in accordance with the credit allowance provisions in the appropriate service tariff associated with the affected services.

When an interruption continues due to the failure of the customer to authorize the replacement of facilities subject to a Replacement Charge, as specified in Paragraph 14.4.4, A.4., following, the credit allowance will be terminated on the seventh calendar day after the Telephone Company has provided the customer with written notification of the need for replacement. The credit allowance will resume on the day after the Telephone Company receives written authorization for the replacement from the customers.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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Section 14
Original Sheet 2

ACCESS SERVICES

14. SPECIAL CONSTRUCTION-(Continued)

14.3 Payments for Special Construction-(Continued)

14.3.2 Start/End of Billing

Billing of recurring charges for specially constructed facilities starts on the day after the facilities are made available for use. Billing accrues through and includes the day that the specially constructed facilities are discontinued.

14.3.3 Partial Payments

To safeguard its interests during construction, the Telephone Company may require partial payments(s) for the portion of the estimated cost of the special construction for which a nonrecurring charge will apply. Partial payments may be requested as costs are incurred and will be credited against the total bill. Partial payments may not exceed the total nonrecurring charge for the special construction. If any partial payment is not received by the Telephone Company by the end of the first working day of the next month, the Telephone Company will cease all work on the special construction case, and cancellation charges will apply as set forth in Paragraph 14.4, F.

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By R. D. BARRON, Vice President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

14.4 Liabilities and Charges for Special Construction

14.4.1 General

(AT) This Section describes the various charges and liabilities that may apply when the Telephone Company provides special construction of facilities in accordance with an order or a customer's projected future requirement for service. Written approval of all liabilities and charges must be provided to the Telephone Company prior to the start of construction.

14.4.2 Conditions Requiring Special Construction

Special construction is required when (1) suitable facilities are not available to meet an order for service, and (2) the Telephone Company constructs facilities and (3) one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities constructed.

- It is requested that service be furnished using a type of facility or via a route, other than that which the Telephone Company would normally utilize in furnishing the requested service.

- More facilities are requested than would normally be required to satisfy an order.

- It is requested that construction be expedited, resulting in added cost to the Telephone Company.

14.4.3 Development of Liabilities and Charges

Special construction charges and liabilities will be developed based on estimated costs, except when actual costs are requested in writing prior to start of special construction. In order to meet a scheduled service date when actual costs are requested, an initial special construction case will be made based on estimated costs. Such case will be revised when actual costs are available.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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Section 14
Original Sheet 3

ACCESS SERVICES

14. SPECIAL CONSTRUCTION-(Continued)

14.4 Liabilities and Charges for Special Construction

14.4.1 General

This Section describes the various charges and liabilities that may apply when the Telephone Company provides special construction of facilities in accordance with an order for service. Written approval of all liabilities and charges must be provided to the Telephone Company prior to the start of construction.

14.4.2 Conditions Requiring Special Construction

Special construction is required when (1) suitable facilities are not available to meet an order for service, and (2) the Telephone Company constructs facilities and (3) one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities constructed.
- It is requested that service be furnished using a type of facility. or via a route, other than that which the Telephone Company would normally utilize in furnishing the requested service.
- More facilities are requested than would normally be required to satisfy an order.
- It is requested that construction be expedited, resulting in added cost to the Telephone Company.

14.4.3 Development of Liabilities and Charges

Special construction charges and liabilities will be developed based on estimated costs, except when actual costs are requested in writing prior to start of special construction. In order to meet a scheduled service date when actual costs are requested, an initial special construction case will be made based on estimated costs. Such case will be revised when actual costs are available.

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By R. D. BARRON, Vice President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

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ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

l4.4 Liabilities and Charges for Special Construction-(Continued)

14.4.4 Types of Liabilities and Charges

Depending on the specifics associated with each individual case, one or more of the following special construction charges and/or liabilities may be applicable:

A. Nonrecurring Charge

A nonrecurring charge always applies and includes one or more of the following components:

1. Quotation Charge

A nonrecurring charge for the preparation of a quotation as set forth in Section 2, Paragraph 2.4.3, preceding, applies whenever an estimate for special construction charges and liabilities is requested.

2. Expediting Charge

A nonrecurring charge may include an expediting charge when it is requested that special construction be completed on an expedited basis. The charge equals the difference in estimated cost between expedited and nonexpedited construction.

3. Optional Payment

An optional payment charge may be included in the nonrecurring charge in association with a type of facility or route other than that which the Telephone Company would normally use in furnishing the requested service if lower recurring monthly charges are desired for the specially constructed facilities. This charge is equal to the excess installed cost or the total nonrecoverable cost, whichever is less. This election must be made in writing before special construction starts. If this selection is coupled with the actual cost option, the optional payment charge will reflect the actual cost of the specially constructed facilities.

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By R. D. BARRON, Vice President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

l4.4 Liabilities and Charges for Special Construction-(Continued)

14.4.4 Types of Liabilities and Charges-(Continued)

A. Nonrecurring Charge-(Continued)

4. Replacement Charge

If any portion of specially constructed facilities for which an optional payment charge has been paid requires replacement involving capital investment, a replacement charge will apply. This charge will be in the same ratio to the total replacement cost as the initial optional payment charge was to the installed cost of the original specially constructed facilities. If any portion of the facilities subject to the replacement charge fails, service will not be restored until notification is provided in writing that replacement is required and such replacement is ordered.

5. Rearrangement Charge

If the Telephone Company is requested to rearrange existing specially constructed facilities, a nonrecurring charge component equal to the cost of rearrangement will apply.

6. Special Construction of Facilities for Use for Less Than One Month

When the Telephone Company is requested to construct facilities to provide service for less than one month, a nonrecurring charge only applies. In addition to the quotation preparation charge component, this nonrecurring charge recovers all elements of cost, including engineering, shipping of equipment, equipment installation, line-up, equipment leasing, space rental, equipment removal and any other costs associated with the construction of the facilities.

B. Maximum Termination Liability and Termination Charge

A Maximum Termination Liability is equal to the nonrecoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

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By R. D. BARRON, Vice President-Missouri
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St. Louis, Missouri

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

l4.4 Liabilities and Charges for Special Construction-(Continued)

l4.4.4 Types of Liabilities and Charges-(Continued)

B. Maximum Termination Liability and Termination Charge-(Continued)

(AT) The liability period is equal to the average life of the account associated with the specially constructed facilities. When the construction involves multiple classes of plant with differing lives, the liability period is equal to the weighted average of the account lives involved in the special construction case, using nonrecoverable investment as the basis for weighting.

Example

$20,000, $10,000 and $5,000 nonrecoverable investments with average account lives of 8, 18 and 25 years, respectively, are involved in the same special construction case. The maximum termination liability period will be calculated as follows:

20,000	X	8	=	160,000
10,000	X	18	=	180,000
5,000	X	25	=	125,000
35,000				465,000

$$\frac{465{,}000}{35{,}000} = 13.3$$

The maximum termination liability period would be 13 years as a result of rounding. Fractional years will be rounded down to the nearest year when they are .4 or lower and rounded up to the nearest year when they are .5 or higher. The liability period is generally expressed in terms of an effective date and expiration date.

(MT)

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Original Sheet 6

ACCESS SERVICES

14. SPECIAL CONSTRUCTION-(Continued)

14.4 Liabilities and Charges for Special Construction-(Continued)

14.4.4 Types of Liabilities and Charges-(Continued)

B. Maximum Termination Liability and Termination Charge-(Continued)

The liability period is equal to the average life of the account associated with the specially constructed facilities, except in the case of the Federal Government (see Paragraph 14.6). The liability period is generally expressed in terms of an effective date and expiration date.

A Termination Charge may apply when all services using specially constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any cost for restoring a location to its original condition are also included.

C. Annual Underutilization Liability and Underutilization Charge

Annual Underutilization Liability is a per-unit amount which is based on the per-unit cost of specially constructed facilities. The liability remains in effect until the expiration of the Maximum Termination Liability or until the special construction case is discontinued and all termination liabilities associated with the case are discharged. An underutilization charge may be applicable after the expiration of the minimum period, as set forth in the appropriate service tariff, under which service is being provided, depending on the quantity of specially constructed facilities in service.

No underutilization charges are computed or billed until one year after the minimum period expires. At that time, an underutilization charge applies to the difference, if any, between the original number of specially constructed facilities and the number of

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St. Louis, Missouri

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Access Services Tariff
Section 14
Original Sheet 6.01

ACCESS SERVICES

14. SPECIAL CONSTRUCTION-(Continued)

14.4 Liabilities and Charges for Special Construction-(Continued)

14.4.4 Types of Liabilities and Charges-(Continued)

B. Maximum Termination Liability and Termination Charge-(Continued)

(MT)
(CT)

The Maximum Termination Liability is calculated in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrating a 27-Year Average Account Life

Maximum Termination Liability	Effective Date	Expiration Date
$10,000	6/1/84	6/1/94
7,000	6/1/94	6/1/04
3,000	6/1/04	6/1/11

Prior to the expiration of each liability period, the customer has the option to (A) terminate the special construction case and pay the appropriate charges, or (B) extend the use of the specially constructed facilities for the new liability period.

The Telephone Company will notify the customer six months in advance of the expiration date of each ten-year liability period. The customer must provide the Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the special construction case to the next liability period at the filed Maximum Termination Liability amount.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

l4. SPECIAL CONSTRUCTION-(Continued)

l4.4 Liabilities and Charges for Special Construction-(Continued)

l4.4.4 Types of Liabilities and Charges-(Continued)

B. Maximum Termination Liability and Termination Charge-(Continued)

(MT) A Termination Charge may apply when all services using specially constructed facilities which have a Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any cost for restoring a location to its original
(AT) condition are also included. A Termination Charge may never exceed the Maximum Termination Liability.

(AT) A partial termination of specially constructed facilities will be provided, at the election of the customer. The amount of the Termination Charge associated with such partial termination is determined by multiplying the termination charge which would result if all services using the specially constructed facilities were discontinued, at the time partial termination is elected, by the percentage of specially constructed facilities to be partially terminated. The customer will be informed of the remaining Maximum Termination Liability amounts and the number of specially constructed facilities the customer will remain liable for.

Example:

A customer with a Maximum Termination Liability of $100,000 for 3600 specially constructed facilities request a partial termination of 900 facilities. The Termination Charge for all facilities, at the time of election, is $60,000. The partial termination charge, in this example, is $60,000 x 900/3600, or $15,000.

(CT) C. Annual Underutilization Liability and Underutilization Charge

In certain instances, a customer may request the Telephone Company to construct facilities based upon the customer's projected future requirements. These facilities will be utilized for the provision of services over a specified period of time. Underutilization liabilities will apply when these conditions occur.

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

l4.4 Liabilities and Charges for Special Construction-(Continued)

l4.4.4 Types of Liabilities and Charges-(Continued)

C. Annual Underutilization Liability and Underutilization Charge (Continued)

Prior to the start of special construction, the Telephone Company and the customer will agree on (l) the quantity of facilities to be provided, and (2) the length of the planning period during which the customer expects to place the facilities in service. The planning period is hereinafter referred to as the Initial Liability Period (ILP). The ILP will have an effective and expiration date.

Underutilization occurs only if, at the expiration date of the ILP and annually thereafter, less than 70 percent of the specially constructed facilities are in service at filed tariff service rates.

An annual underutilization liability amount is filed on a per unit basis (e.g., per cable pair) for each case of special construction. This amount is equal to the annual per unit cost and includes depreciation, maintenance, administration, return, taxes and any other costs identified in the supporting documentation.

Upon the expiration of the ILP, the number of underutilized facilities, if any, are multiplied by the annual underutilization liability amount. This product is then multiplied by the number of years (including any fraction thereof) in the ILP to determine the underutilization charge.

Annually thereafter, the number of underutilized facilities, if any, existing on the anniversary of the ILP expiration date will be multiplied by the annual underutilization liability amount to determine the underutilization charge for the preceding l2-month period.

Example

A customer orders l00 services and the special construction of a 600-pair building riser cable is agreed to, based on the customer's five-year facility requirements. The ILP, in this example, would be five years. The annual underutilization liability is determined to be $2.00 per pair. If 400 pairs were in service at the end of the ILP, there would be an underutilization of 20 pairs, i.e., 420 (70% of 600) - 400 = 20. The total underutilization charge for the first 5 years would be $200.00, or $2.00 per pair x 20 pairs x 5 years. If 420 pairs are in service at the end of the 6th year, there is no underutilization, i.e., 420 - 420 = 0.

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

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Section 14
lst Revised Sheet 7
Replacing Original Sheet 7

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

l4.4 Liabilities and Charges for Special Construction-(Continued)

l4.4.4 Types of Liabilities and Charges-(Continued)

(RT)

D. Recurring Monthly Charges

1. Excess Capacity Charge

A recurring monthly excess capacity charge applies when more facilities are requested and subsequently specially constructed than are required to satisfy an order for service. The charge is based on the estimated cost difference between the facilities constructed and the facilities which would normally be required to meet the order for service. Charges apply until there are sufficient services to warrant the facilities which were originally constructed.

2. Charge for Route or Type Other than Normal

When special construction is requested using a route or type of facility other than that which the Telephone Company would normally use, a recurring monthly charge in addition to the monthly rates for service is applicable. The charge is equal to the difference between the recurring costs of the specially constructed facilities and the recurring costs of the facilities the Telephone Company would have normally used.

(AT)

(a) When an Optional Payment Charge as set forth in Paragraph l4.4.4, A.3., preceding, has been elected, the recurring monthly charge will include specially constructed facility operating expenses only.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 14
Original Sheet 7

ACCESS SERVICES

14. SPECIAL CONSTRUCTION-(Continued)

14.4 Liabilities and Charges for Special Construction-(Continued)

14.4.4 Types of Liabilities and Charges-(Continued)

C. Annual Underutilization Liability and Underutilization Charge-(Continued)

specially constructed facilities in service at filed Tariff rates. The underutilization charge applies from the date the minimum period expires and annually thereafter. For purposes of determining an underutilization charge, any facilities subject to minimum service period monthly charges are considered to be in service at filed Tariff rates.

D. Recurring Monthly Charges

1. Excess Capacity Charge

A recurring monthly excess capacity charge applies when more facilities are requested and subsequently specially constructed than are required to satisfy an order for service. The charge is based on the estimated cost difference between the facilities constructed and the facilities which would normally be required to meet the order for service. Charges apply until there are sufficient services to warrant the facilities which were originally constructed.

2. Charge for Route or Type Other than Normal

When special construction is requested using a route or type of facility other than that which the Telephone Company would normally use, a recurring monthly charge in addition to the monthly rates for service is applicable. The charge is equal to the difference between the recurring costs of the specially constructed facilities and the recurring costs of the facilities the Telephone Company would have normally used.

(a) When an Optional Payment Charge as set forth in Paragraph 14.4.4, A., preceding, has been elected, the recurring monthly charge will include specially constructed facility operating expenses only.

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By R. D. BARRON, Vice President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

l4.4 Liabilities and Charges for Special Construction-(Continued)

l4.4.4 Types of Liabilities and Charges-(Continued)

D. Recurring Monthly Charges-(Continued)

2. Charge for Route or Type Other than Normal-(Continued)

(b) If the actual cost option has been elected, the recurring charge will be adjusted to reflect the actual cost of the new construction when the costs have been determined. This adjusted recurring charge is applicable from the start of service.

E. Lease Charge

This charge applies when the Telephone Company leases equipment in order to meet service requirements. The amount of the charge is equal to the net added cost to the Telephone Company caused by the lease.

F. Cancellation Charge

If a service order with which special construction is associated is cancelled prior to the start of service, a Cancellation Charge will apply. The charge will include all nonrecoverable costs incurred by the Telephone Company in association with the special construction up to and including the time of cancellation.

14.5 Deferral of Start of Service

The Telephone Company may be requested to defer the start of service which will use specially constructed facilities subject to the provisions set forth in the service tariff under which service is being provided. Requests for special construction deferral must be in writing and are subject to the following regulations:

14.5.1 Construction Has Not Begun

If the Telephone Company has not incurred any installation costs before receiving a request for deferral, the quotation charge applies. The original quotation is subject to Telephone Company review at the time of reinstatement to determine if the original charge estimates are still valid.

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 14
lst Revised Sheet 9
Replacing Original Sheet 9

ACCESS SERVICES

l4. SPECIAL CONSTRUCTION-(Continued)

l4.5 Deferral of Start of Service-(Continued)

14.5.1 Construction Has Not Begun-(Continued)

An additional quotation charge will, therefore, apply. Any change in liabilities and charges requires concurrence in writing.

14.5.2 Construction Has Begun

If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows:

A. All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The quotation charge and cost of any components of the nonrecurring charge which have been completed at the time of deferral will also apply.

B. Some Services Are Deferred

When some services which will use the specially constructed facilities are deferred, the construction case will be completed and all special construction charges will apply.

14.5.3 Construction Complete

If the construction of facilities has been completed before the Telephone Company receives a request for deferral, all special construction charges will apply.

(RT)

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

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Access Services Tariff
Section 14
Original Sheet 9

ACCESS SERVICES

14. SPECIAL CONSTRUCTION-(Continued)

14.5 Deferral of Start of Service-(Continued)

14.5.1 Construction Has Not Begun-(Continued)

An additional quotation charge will, therefore, apply. Any change in liabilities and charges requires concurrence in writing.

14.5.2 Construction Has Begun

If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows:

A. All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The quotation charge and cost of any components of the nonrecurring charge which have been completed at the time of deferral will also apply.

B. Some Services Are Deferred

When some services which will use the specially constructed facilities are deferred, the construction case will be completed and all special construction charges will apply.

14.5.3 Construction Complete

If the construction of facilities has been completed before the Telephone Company receives a request for deferral, all special construction charges will apply.

14.6 Regulations for Federal Government

Special construction provided to the Government is subject to all regulations specified in Paragraphs 14.1 through 14.5, preceding, and Paragraph 14.6, following. In lieu of filed Maximum Termination

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By R. D. BARRON, Vice President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 14
lst Revised Sheet l0
Replacing Original Sheet l0

ACCESS SERVICES

(RESERVED FOR FUTURE USE)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 14
Original Sheet 10

ACCESS SERVICES

14. SPECIAL CONSTRUCTION-(Continued)

14.6 Regulations for Federal Government-(Continued)

Liability Period equal to the average account life of the specially constructed facilities, the Maximum Termination Liability will be filed at ten-year intervals for the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment filed will reflect the appropriate number of years remaining (e.g., 7 years for plant with a 27-year life).

Prior to the expiration of each liability period, the Government has the option to (A) extend the use of specially constructed facilities for the new liability period or (B) terminate the special construction case and pay the appropriate charges.

The Telephone Company will notify the Government six months in advance of the expiration date that the special construction case is subject to renewal. The Government must provide the Telephone Company with written notification of termination, to be received one month prior to the expiration of the liability period. Failure to do so and payment of the next month's service charges will result in an extension of the special construction case for the next ten-year interval.

A. Continued Use of Special Construction

When the Government elects to continue the case of special construction, a revised nonrecurring charge, Maximum Termination Liability and Maximum Termination Liability Period will be filed.

B. Termination of the Use of Special Construction

When the Government elects to terminate a case of special construction at or prior to the expiration of the current liability period, Termination Charges will apply.

In order to comply with Government regulations, a quotation charge will not apply when submitting unsolicited quotes or when submitting quotes in response to a general Request for Proposal or Invitation to Bid from agencies or branches of the Government.

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By R. D. BARRON, Vice President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 15
4th Revised Sheet 1
Replacing 3rd Revised Sheet 1

(RT)

(AT) INTRALATA DIALING PARITY COST RECOVERY

(AT) INTRALATA DIALING PARITY COST RECOVERY, Section 15 of the Access Services Tariff, P.S.C. Mo.-No. 36, has been withdrawn, in its entirety, and the contents completely removed.

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 15
3rd Revised Sheet 1
Replacing 2nd Revised Sheet 1

(AT) 15. **INTRALATA DIALING PARITY COST RECOVERY**

15.1 General Description

The IntraLATA Equal Access Cost Recovery Charge is an originating per minute of use charge to recover cost that the Telephone Company incurred with the implementation of intraLATA dialing parity. The charge will be in effect until the Telephone Company recovers its intraLATA dialing parity costs pursuant to the Missouri Public Service Commission Order in Case No. TO-99-535 (In the Matter of Southwestern Bell Telephone Company's IntraLATA Long Distance Dialing Parity Plan). The charge is estimated to be in effect for a three year period.

15.2 Rate Regulations

The IntraLATA Equal Access Cost Recovery Charge is assessed to the customer based on Intrastate originating access minutes. The rate is set forth in 15.3, following.

15.3 Rates and Charges

Equal Access Cost Recovery Charge

(AT)	Access rate per minute of use - Originating	$0.001273

Issued: August 7, 2000

Effective: September 6, 2000

By JAN NEWTON, President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

(RT) 15.

(RT)

Issued: SEP 22 1994

Effective: [redacted]

By HORACE WILKINS, JR., President-Missouri OCT 01 1994
Southwestern Bell Telephone Company
St. Louis, Missouri

P.S.C. Mo.-No. 36

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 15
2nd Revised Sheet 1
Replacing 1st Revised Sheet 1

ACCESS SERVICES

(RT) 15.

(RT)

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Effective: JAN 0 1 1994

By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 15
1st Revised Sheet 1
Replacing Original Sheet 1

ACCESS SERVICES

15. EQUAL ACCESS RECOVERY

15.1 General Description

Equal Access Recovery Charge is a monthly charge assessed to Interexchange Customers (ICs) to recover those costs that the Telephone Company incurs in connection with equal access. Equal Access costs represent the cost of equipping switching machines to provide Feature
(AT) Group D or BSA-D.

15.2 Rate Regulations

The Equal Access Recovery Charge is based on the total number of access trunks provided to the customer. The rate applies to each Feature Group
(AT) D or BSA-D trunk provided.

(AT) The number of end office switching transmission paths (FGD or BSA-D trunks) provided when the customer orders busy hours minutes of capacity
(FC) will be determined as set forth in Section 6, Paragraph 6.8.5., preceding.

15.3 Rates and Charges

	Monthly Rate
Equal Access Recovery, per trunk:	$25.57

P.S.C. Mo.-No. 36

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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Section 15
Original Sheet 1

ACCESS SERVICES

15. EQUAL ACCESS RECOVERY

15.1 General Description

Equal Access Recovery Charge is a monthly charge assessed to Interexchange Customers (ICs) to recover those costs that the Telephone Company incurs in connection with equal access. Equal Access Costs represent the cost of equipping switching machines to provide Feature Group D.

15.2 Rate Regulations

The Equal Access Recovery Charge is based on the total number of access trunks provided to the customer. The rate applies to each Feature Group D trunk provided.

The number of end office switching transmission paths (FG D trunks) provided when the customer orders busy hours minutes of capacity will be determined as set forth in Section 6, Paragrah 6.5.5., preceding.

15.3 Rates and Charges

	Monthly Rate
Equal Access Recovery, per trunk:	$25.57

Issued: JUN 27 1986 Effective: JUL 1 1986

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICE

16. PACKET SERVICE

The following list matches the Telephone Company's Basic Service Element BSE names to the industry standard names for each BSE.

Telephone Company Names	Generic Name of ONA Service
Reports	Call Detail Recording Reports
Restricted User Group	Closed User Groups - Packet

Packet Services utilize separate data networks, comprised of switching and transmission facilities. The networks provide for the transfer of protocol oriented data. The data is separated into discrete segments for high speed transmission through the packet networks.

There is one type of Packet Service offered by Southwestern Bell Telephone Company:

(AT) MicroLink II Service[(1)]

(AT) (1) This service is only available to existing MicroLink II - Packet Switching Digital Service (X.25) customers in existing quantities at existing locations. The service will be withdrawn November
(AT) 30, 2002.

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
3rd Revised Sheet 1
Replacing 2nd Revised Sheet 1

ACCESS SERVICES

16. PACKET SERVICE

The following list matches the Telephone Company's Basic Service Element BSE names to the industry standard names for each BSE.

Telephone Company Names	Generic Name of ONA Service
Reports	Call Detail Recording Reports
Restricted User Group	Closed User Groups - Packet

Packet Services utilize separate data networks, comprised of switching and transmission facilities. The networks provide for the transfer of protocol oriented data. The data is separated into discrete segments for high speed transmission through the packet networks.

(CT) There is one type of Packet Service offered by Southwestern Bell Telephone Company:

MicroLink II Service

(RT)

Issued: October 13, 1999

Effective: [redacted]

By JAN NEWTON, President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
2nd Revised Sheet 1
Replacing 1st Revised Sheet 1

ACCESS SERVICES

(CT) 16. PACKET SERVICE

The following list matches the Telephone Company's Basic Service Element BSE names to the industry standard names for each BSE.

Telephone Company Names	Generic Name of ONA Service
Reports	Call Detail Recording Reports
Restricted User Group	Closed User Groups - Packet

(AT) Packet Services utilize separate data networks, comprised of switching and transmission facilities. The networks provide for the transfer of protocol oriented data. The data is separated into discrete segments for high speed transmission through the packet networks.

There are two types of Packet Service:

MicroLink II Service
(AT) Frame Relay Service (FRS)

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By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
1st Revised Sheet 1
Replacing Original Sheet 1

ACCESS SERVICES

16. CONNECTION WITH MICROLINK II^{SM} - PACKET SWITCHING DIGITAL SERVICE

(T) The following list matches the Telephone Company's Basic Service Element BSE names to the industry standard names for each BSE.

Telephone Company Names	Generic Name of ONA Service
Reports	Call Detail Recording Reports (Packet)
(T) Restricted User Group	Closed User Groups - Packet

(MT)

Issued: MAR 26 1993

Effective: APR 11 1993

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 1

ACCESS SERVICES

16. CONNECTION WITH MICROLINK II[SM] - PACKET SWITCHING DIGITAL SERVICE

16.1 Service Description

A. An arrangement that allows a Voice Grade or Digital Data Special Access Service provided from Section 7 of this Tariff to be connected with MICROLINK II - Packet Switching Digital Service located on a Telephone Company premises. The interfaces are compatible with X.25 and X.75 packet switching protocols as defined by the Consultative Committee for International Telephone and Telegraph (CCITT). This committee establishes standards for packet switching networks to ensure compatibility.

B. This arrangement permits a Voice Grade Service, a 9.6 Kbps or 56.0 Kbps Digital Data Service to interface with a packet switch port.

C. Local MICROLINK II - Packet Switching Digital Service charges as specified in the Digital Link Service Tariff.

16.2 Rate Regulations

Rate regulations found in this Tariff are applicable to the Voice Grade or Digital Data Special Access Service. Rate regulations for MICROLINK II - Packet Switching Digital Service may be found in the Missouri Digital Link Services Tariff.

When Special Access is provided with MICROLINK II - Packet Switching Digital Service, the applicable rate elements are a Channel Termination (CT) between the customer premises and its serving wire center and Optional Features and Functions, where applicable. When the customer's serving wire center is outside the Primary Market Area, the Channel Mileage (CM) rate element will be charged in addition to the CT and Optional Feature rate elements.

[SM]Service Mark of Southwestern Bell Telephone Company.

Issued: JUL 15 1986

NOV 17 1986

Effective: SEP 15 1986

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICE

16. PACKET SERVICE-(Continued)

(AT) 16.1 MicroLink II[R] Service[(1)]

16.1.1 Service Description

A. An arrangement that allows a Voice Grade or Digital Data Special Access Service provided from Section 7 of this Tariff to be connected with MICROLINK II - Packet Switching Digital Service located on a Telephone Company premises. The interfaces are compatible with X.25 and X.75 packet switching protocols as defined by the Consultative Committee for International Telephone and Telegraph (CCITT). This committee establishes standards for packet switching networks to ensure compatibility.

B. This arrangement permits a Voice Grade Service, a 9.6 Kbps or 56.0 Kbps Digital Data Service to interface with a packet switching port.

C. Local MICROLINK II - Packet Switching Digital Service charges are as specified in the Digital Link Service Tariff.

16.1.2 Rate Regulations

Rate regulations found in this Tariff are applicable to the Voice Grade or Digital Data Special Access Service. Rate regulations for MICROLINK II - Packet Switching Digital Service may be found in the Missouri Digital Link Services Tariff.

When Special Access is provided with MICROLINK II - Packet Switching Digital Service, the applicable rate elements are a Channel Termination between the customer premises and its serving wire center and Optional Features, BSEs and Functions, where applicable. When the customer's serving wire center is outside the Primary Market Area, the Channel Mileage (CM) rate element will be charged in addition to the CT and Optional Feature and BSE rate elements.

(AT) (1) This service is only available to existing MicroLink II - Packet Switching Digital Service (X.25) customers in existing quantities at existing locations. The service will be withdrawn November
(AT) 30, 2002.

[R] Registered Service Mark of Southwestern Bell Telephone Company

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
1st Revised Sheet 2
Replacing Original Sheet 2

ACCESS SERVICES

(CT) 16. PACKET SERVICE-(Continued)

(AT) 16.1 MicroLink II[R] Service

(FC) 16.1.1 Service Description

A. An arrangement that allows a Voice Grade or Digital Data Special Access Service provided from Section 7 of this Tariff to be connected with MICROLINK II - Packet Switching Digital Service located on a Telephone Company premises. The interfaces are compatible with X.25 and X.75 packet switching protocols as defined by the Consultative Committee for International Telephone and Telegraph (CCITT). This committee establishes standards for packet switching networks to ensure compatibility.

B. This arrangement permits a Voice Grade Service, a 9.6 Kbps or 56.0 Kbps Digital Data Service to interface with a packet switching port.

C. Local MICROLINK II - Packet Switching Digital Service charges are as specified in the Digital Link Service Tariff.

(FC) 16.1.2 Rate Regulations

Rate regulations found in this Tariff are applicable to the Voice Grade or Digital Data Special Access Service. Rate regulations for MICROLINK II - Packet Switching Digital Service may be found in the Missouri Digital Link Services Tariff.

When Special Access is provided with MICROLINK II - Packet Switching Digital Service, the applicable rate elements are a Channel Termination (CT) between the customer premises and its serving wire center and Optional Features, BSEs and Functions, where applicable. When the customer's serving wire center is outside the Primary Market Area, the Channel Mileage (CM) rate element will be charged in addition to the CT and Optional Feature and BSE rate elements.

(CT) [R]Registered Service Mark of Southwestern Bell Telephone Company

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By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 2

ACCESS SERVICES

(MT) 16. CONNECTION WITH MICROLINK II[SM] - PACKET SWITCHING DIGITAL SERVICE-(Continued)

16.1 Service Description

A. An arrangement that allows a Voice Grade or Digital Data Special Access Service provided from Section 7 of this Tariff to be connected with MICROLINK II - Packet Switching Digital Service located on a Telephone Company premises. The interfaces are compatible with X.25 and X.75 packet switching protocols as defined by the Consultative Committee for International Telephone and Telegraph (CCITT). This committee establishes standards for packet switching networks to ensure compatibility.

B. This arrangement permits a Voice Grade Service, a 9.6 Kbps or 56.0 Kbps Digital Data Service to interface with a packet switching port.

C. Local MICROLINK II - Packet Switching Digital Service charges are as specified in the Digital Link Service Tariff.

16.2 Rate Regulations

Rate regulations found in this Tariff are applicable to the Voice Grade or Digital Data Special Access Service. Rate regulations for MICROLINK II - Packet Switching Digital Service may be found in the Missouri Digital Link Services Tariff.

When Special Access is provided with MICROLINK II - Packet Switching Digital Service, the applicable rate elements are a Channel Termination (CT) between the customer premises and its serving wire center and (AT) Optional Features, BSEs and Functions, where applicable. When the customer's serving wire center is outside the Primary Market Area, the Channel Mileage (CM) rate element will be charged in addition to the CT (MT)(AT) and Optional Feature and BSE rate elements.

[SM]Service Mark of Southwestern Bell Telephone Company

Issued: MAR 26 1993 Effective: APR 11 1993

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 3

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)

16.2.1 General Description

Frame Relay Service (FRS) provides the customer high speed access and throughput to and among the customer locations. Utilizing statistical multiplexing, FRS enables the customer to allocate circuit bandwidth to applications as needed, up to the maximum bandwidth purchased, rather than assigning fixed channels to specific applications.

FRS is available to customers within LATAs served by the Telephone Company and is provisioned from suitably equipped wire centers located within a Primary Market Area (PMA). A description of the PMAs for FRS may be found in 16.2.4 (Primary Market Areas). A listing of the wire centers designated for the provisioning of FRS is provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No. 4.

FRS requires the use of terminal equipment that functions as a multiplexer/bridge/router. The terminal equipment accumulates the customer data and puts it into a frame relay format suitable for transmission over the FRS network. This terminal equipment must be purchased separately from the FRS and must conform to American National Standards Institute (ANSI) and Committee Consultat de International Telegraphique et Telephonique (CCITT) standards.

16.2.2 Service Description

FRS is a transport service that facilitates the exchange of variable length information units (frames) between the customer's connections by way of assigned virtual connections. Each frame is passed to the Frame Relay Network with an address that specifies the virtual connection. Addresses are read by the network processor, and the frames are relayed to the preassigned destination.

Variable frame length capability is useful in communications between asynchronous LANs and for transport of synchronous data traffic. FRS is capable of handling the requirements of bursty data sources because of the ability of the service to allocate additional bandwidth when not in use by other sources.

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St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 4

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.2 Service Description-(Continued)

The major components of the FRS are: 1) the Network Interface, which is the point of interconnection between the Telephone Company communications facilities and the customer terminal equipment; 2) the Access Link, which is the facility that provides access to the FRS Network via a connection from the customer's network interface; 3) the Multiplexed Services Connection, which is the ongoing connection from a Port to a Special Access Multiplexed Service multiplexer that provisions DS3-to-DS1 and DS1-to-DS0 arrangements; 4) the Port, which is the physical entry point for the Access Link or Multiplexed Services Connection into the FRS Network; 5) the Logical Link, which is the permanent virtual circuit that establishes the connection from one Access Link or Multiplexed Services Connection, and its associated Port, to another; 6) the Link Extension, which is the transmission facility between the customer's serving wire center and the nearest central office in the PMA; and 7) The Network Link, which is the ongoing connection between two PMAs within the same LATA.

The Access Link, Port, Logical Link, Link Extension and Network Link are available in three bandwidth speeds, 56 kbps, 384 kbps and 1.536 Mbps. The Multiplexed Services Connection is available for connection to 56 Kbps and 1.536 Mbps Ports only.

A detailed description of the rate elements applicable to FRS, how these rate elements are applied and nonrecurring charges are contained in 16.2.5 (Rate Regulations).

16.2.3 Service Provisioning

A. Manner of Provisioning

1. Provision of this service is subject to the availability and operational limitations of the equipment and associated facilities. FRS is provided to customers from the Telephone Company wire center locations specified in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

2. FRS requires the use of customer provided equipment which must be compatible with the Telephone Company's equipment and facilities and must conform to industry standards and specifications as outlined in Southwestern Bell Telephone Company Frame Relay Interface Specifications and Service Features technical publication TP 76642.

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.3 Service Provisioning-(Continued)

A. Manner of Provisioning-(Continued)

It shall be the responsibility of the customer to ensure the continuing compatibility of the customer provided equipment that is used in conjunction with the FRS.

3. The Telephone Company will provision FRS up to and including the network interface. The network interface specifications are set forth in the Bellcore High Capacity Digital Service Channel Interface Specification Technical Reference TR-NPL-000055.

The placement of the network interface shall be located in a manner consistent with federal and state regulatory requirements. This location will be at each customer's premises, unless specified otherwise and agreed to by the Telephone Company.

4. When the customer requires the modification of standard service components not otherwise provided in this tariff, the modification may be furnished by the Telephone Company as specified in Section 12 (Specialized Service or Arrangements).

5. The Telephone Company undertakes the responsibility to maintain and repair the service which it furnishes. However, the customer, upon request, shall furnish such information as may be required to permit the Telephone Company to maintain the FRS and to assure that the service arrangement is in compliance with the regulations contained in this section. The customer shall be responsible for service maintenance, as specified in 13.3.1 (Miscellaneous Services), when no trouble is found in the Telephone Company facilities.

6. Network equipment installed by the Telephone Company on the customer's premises shall be and remain the property of the Telephone Company. The customer or user may not rearrange, disconnect, remove, attempt to repair, remote test or interface with any network equipment installed by the Telephone Company without prior written consent by the Telephone Company.

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 6

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.3 Service Provisioning-(Continued)

A. Manner of Provisioning-(Continued)

7. The customer shall be responsible for obtaining permission for the Telephone Company agents or employees to enter the premises of the customer at any reasonable hour for the purpose of installing, inspecting, repairing or, upon termination of the service, removing the service components of the Telephone Company.

8. Where FRS is used in connection with communications systems or equipment provided by a customer or user, the operating characteristics of such systems or equipment shall be such as not to interfere with the FRS offered by the Telephone Company. Such use is subject to the further provisions that the equipment, provided by the customer or user does not endanger the safety of the Telephone Company employees or the public; damage, harm, require change in or alteration of the equipment or other services of the Telephone Company; interfere with the proper operation of the Telephone Company equipment; or otherwise injure the public in its use of the Telephone Company services. Upon notice from the Telephone Company that the equipment provided by the customer or user is causing, or is likely to cause, such hazard or interference, the customer shall take such steps as shall be necessary to remove or prevent such hazard or interference.

B. Ordering Specifications and Provisions

1. The customer may access Frame Relay Service via a FRS Access Link. Where the FRS Access Link is not available the customer may utilize a MegaLink Data Service or High Capacity Service as specified in Section 7 (Special Access Service). When the customer utilizes a MegaLink Data Service or High Capacity Service to access the FRS network, the regulations, rates and charges as specified in Section 7 will apply in addition to the rates and charges associated with FRS.

When a customer utilizes a MegaLink Data Service or High Capacity Service in lieu of the FRS Access Link, the FRS Access Link nonrecurring charge or monthly rate will not apply. However, all other rates and charges normally associated with the ordering, installing and provisioning of the FRS as specified in this Section will apply.

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

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No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 7

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.3 Service Provisioning-(Continued)

B. Ordering Specifications and Provisions-(Continued)

2. When a customer utilizes Special Access Service Multiplexed Services, the Multiplexed Services Connection is ordered in lieu of the Access Link. The nonrecurring charge or monthly rate for the Access Link will not apply; however, all other rates and charges normally associated with the ordering, installing and provisioning of the FRS, e.g., Ports and Logical Links, will be applicable.

   The Multiplexed Services Connection is only available for connection to Special Access Multiplexed Services provided in wire centers located within a FRS Primary Market Area (PMA).

3. The Access Link or Multiplexed Services Connection must be associated with a Port.

   The Access Link, Multiplexed Services Connection and the Port must all be ordered with the same bandwidth speed.

4. Service to a customer designated premises with a serving wire center located outside the PMA, but within the same LATA, is provisioned by the Link Extension.

   The Link Extension will include distance sensitive charges based on the airline mileage using the V&H coordinates method, as set forth in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4., from the customer's serving wire center to the nearest central office within the FRS PMA. For the 524 LATA, the customer serving wire center and the nearest central office inside the PMA must be both in the same state jurisdiction.

   The Link Extension is not required were the serving wire center associated with the customer designated premises is located within the FRS PMA.

5. The Link Extension must be associated with an Access Link and must be ordered with the same bandwidth speed as the Access Link and the Port it supports.

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By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 8

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.3 Service Provisioning-(Continued)

B. Ordering Specifications and Provisions-(Continued)

6. The Logical Link must be associated with any two Access Links or Multiplexed Services Connections. The Logical Link must be ordered at a bit rate equal to the lower bit rate of the two associated Access Links or Multiplexed Services Connections.

7. The total bandwidth of all Logical Links associated with one FRS Port may exceed the bandwidth of that Port. This condition is referred to as oversubscription and when this occurs, there can be no guarantee that the bandwidth defined for that Logical Link will be available at any point in time.

8. A customer ordering an Access Link or Multiplexed Service Connection will be referred to as the Controller of the Access Link or Multiplexed Services Connection. When a customer subscribing to a Logical Link is not the Controller of both Access Links or Multiplexed Services Connections associated with it, the Telephone Company may require the permission of both Controllers in order to establish the Logical Link.

Access Links or Multiplexed Services Connections and Logical Links are ordered and billed independently and can have different customers as Controllers. A request by one customer to disconnect one component does not result in the disconnection of associated components. Only the Controller of an Access Link or a Multiplexed Services Connection may authorize a disconnect of that Access Link or Multiplexed Services Connection.

9. The Network Link must be associated with and ordered at the same time as the Logical Link.

The Network Link must be ordered at a bit rate equal to or greater than the lower bit rate of the Access Links or Multiplexed Services Connections it supports.

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By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 9

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.3 Service Provisioning-(Continued)

B. Ordering Specifications and Provisions-(Continued)

10. Service furnished to one customer may be assumed by a new customer upon due notice of cancellation or abandonment, provided there is no lapse in service and the service is assumed exactly as provided to the previous customer. The new customer must assume all the obligations of the previous customer. Such transfers are subject to any applicable rates and charges as set forth in 16.2.5 (Rates Regulations).

11. FRS is ordered under the provisions specified in Section 5 (Ordering for Access Service). Also included in that section are charges associated with ordering FRS.

C. Limitations

1. The Telephone Company does not undertake to originate data, but offers the use of its service components, where facilities permit, to customers for the purpose of transporting customer originated data.

2. The responsibility of the Telephone Company shall be limited to furnishing network equipment suitable for FRS and to the maintenance and operation of such equipment in a manner proper for such service. Subject to this responsibility, the Telephone Company shall not be responsible for the through transmission of signals generated by the customer provided equipment or system, or for the quality of, or defects in, such transmission or the reception of signals by such equipment or systems.

3. The Telephone Company shall not be responsible for error correction. Error correction is the responsibility of the customer's Frame Relay compatible terminal equipment. FRS switches may discard frames with errors. They may also discard frames when the network supporting FRS is in a state of congestion. Congestion control and recovery mechanisms are as set forth in the Southwestern Bell Telephone Company Frame Relay Interface Specifications and Service Feature technical publication TP 76442.

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 10

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.3 Service Provisioning-(Continued)

C. Limitations-(Continued)

4. The Telephone Company shall not be responsible for installation, operation or maintenance of any terminal equipment, data unit or communications system provided by a customer or user. The Telephone Company is not responsible for adapting FRS to the technological requirements of any specific customer equipment.

5. The Telephone Company shall not be responsible to the customer or user if changes in any of the equipment, operations or procedures of the Telephone Company used in the provision of FRS render any facilities provided by the customer or user obsolete or require modification or alteration of such equipment or system or otherwise affect its use or performance, provided the Telephone Company has met any applicable information disclosure requirements otherwise required by law.

D. Allowance for Service Interruption

The Telephone Company will administer its network to insure the provision of an acceptable service levels to all users of the Telephone Company FRS. Service levels are considered acceptable when the service provides an average performance of at least 99.0 percent error free seconds up to the demarcation point (network interface) of the channel for operation at all transmission speeds offered by this tariff. When FRS is operating at an error performance level that is unsatisfactory to the customer, and the Telephone Company determines that the error performance level is below that specified above, the period of substandard performance will be considered as an interruption of service.

In the event of an interruption of service, the customer will be granted a credit allowance in conjunction with the regulations specified in 2.4.4 (Credit Allowance for Service Interruptions). Any credit allowance shall be based on the time of notice by the customer or user to the Telephone Company that an unsatisfactory performance level has occurred, provided that the customer promptly releases the services as requested by the Telephone Company to perform testing and maintenance. No credit allowance

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 16
Original Sheet 11

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.3 Service Provisioning-(Continued)

D. Allowance for Service Interruption-(Continued)

will be made for interruption due to the negligence and/or failure of equipment provided by the customer or user. Furthermore, interruptions of service during any period in which the Telephone Company is not afforded access to the premises at which service is terminated will not receive a credit allowance.

When the Telephone Company FRS terminates at a central office multiplexer and trouble is found to be in the Telephone Company facilities associated with the Multiplex Services, a credit allowance for service interruptions to the Multiplexed Services will apply as specified in 2.4.4 (Credit Allowance for Service Interruptions).

16.2.4 Primary Market Areas

Frame Relay Service is provisioned within a Primary Market Area (PMA). A PMA is a specified area, within a LATA, established by the Telephone Company for the administration and provision of FRS. The specified areas consists of one or more wire centers suitably equipped for the provision of FRS capabilities. One or more PMAs can be located within a LATA.

A listing of the wire centers designated for the provisioning of FRS are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No. 4.

16.2.5 Rate Regulations

This section contains the specific regulations governing the rates and charges which apply for Frame Relay Service (FRS).

There are two types of rates and charges that apply to the various rate elements for FRS. These are monthly recurring rates and nonrecurring charges.

Specific rates and charges are set forth in 16.4 (Rates and Charges). Jurisdictional reporting requirements are set forth in 2.3 (Certification of Special Access in Intrastate).

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

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Access Services Tariff
Section 16
Original Sheet 12

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.5 Rate Regulations-(Continued)

A. Rate Elements

The following are the various rate elements for FRS:

1. Access Link

The Access Link rate element provides the facilities from the customer's network interface to the FRS Network.

2. Multiplexed Services Connection

The Multiplexed Services Connection rate element provides for the ongoing interconnection from a Port to Special Access Multiplexed Services for DS3-to-DS1 and DS1-to-DS0 arrangements. The Multiplexed Services Connection rate element is applied in lieu of the Access Link.

3. Port

The Port rate element provides the physical entry point for the Access Link or Multiplexed Services Connection into the FRS Network.

4. Logical Link

The Logical Link rate element provides for the permanent virtual circuit, a logical channel, that establishes the two-way connection from one Access Link or Multiplexed Services Connection, and its associated Port, to another.

5. Link Extension

The Link Extension rate element provides for the transmission facilities between the serving wire center associated with the customer designated premises and the nearest central office within the PMA.

The Link Extension rate element is applied when the customer's serving wire center is located outside of an established PMA, but within the same LATA.

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St. Louis, Missouri

ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

No supplement for this tariff will be issued except for the purpose of canceling this tariff.

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Section 16
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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.5 Rate Regulations-(Continued)

6. Network Link

The Network Link rate element provides for the ongoing connection between two PMAs within the same LATA. The Network Link must be associated with a Logical Link.

B. Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity. Nonrecurring charges are applicable for installation of the service, change to an existing service (e.g., each requested change in the transmission speed or for a new rate element at a new transmission speed) and service rearrangement.

In order to receive the benefits associated with ordering multiple Access Links or Multiplexed Services Connections, the following criteria must be met:

- Same Access Service Order
- Same Application for Service Date
- Same Due Date
- Same Billing Account Number (BAN)
- Same Customer Designated Premises

In order to receive the benefits associated with ordering multiple Logical Links, the following criteria must be met:

- Same Access Service Order
- Same Application for Service Date
- Same Due Date
- Same Billing Account Number (BAN)
- Same Controlling Access Links or Multiplexed Services Connection.

An Access Order Charge may be applicable as specified in 5.2 (Access Order).

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.5 Rate Regulations-(Continued)

B. Nonrecurring Charges-(Continued)

1. Access Link

A nonrecurring charge applies for the installation of each Access Link. This charge is applied on a first and additional basis for each transmission speed ordered. If a customer orders multiple Access Links, the first Access Link is assessed the "first" charge. Each subsequent Access Link is assessed the "additional" charge.

A Port rate element must be applied with each Access Link.

2. Multiplexed Services Connection

A nonrecurring charge applies for the installation of each Multiplexed Services Connection between the central office based multiplexer and an associated Port. This charge is applied on a first and additional basis for each transmission speed ordered. If a customer orders multiple Multiplexed Services Connections, the first Multiplexed Services Connection is assessed the "first" charge. Each subsequent Multiplexed Services Connection is assessed the "additional" charge.

A Port rate element must be applied with each Multiplexed Services Connection.

3. Port

A nonrecurring charge applies for the installation of each Port that is associated with an Access Link or a Multiplexed Services Connection.

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.5 Rate Regulations-(Continued)

B. Nonrecurring Charges-(Continued)

4. Logical Link

A nonrecurring charge applies for the establishment of each Logical Link. This charge is applied on a first and additional basis for each transmission speed ordered. If a customer orders multiple Logical Links, the first Logical Link is assessed the "first" charge. Each subsequent Logical Link is assessed the "additional" charge.

5. Network Link

A nonrecurring charge applies for the installation of each Network Link connecting two PMAs within the same LATA.

6. Service Rearrangement

Service Rearrangements are changes to existing services which do not result in either (1) a change in the minimum period requirements, or (2) a change in the physical location of the point of termination at the customer's premises or the customer's end user's premises.

Changes which result in (1) the establishment of new minimum period obligations, or (2) the physical location of the point of termination are treated as a discontinuance of the existing service and an installation of a new service and all applicable nonrecurring charges will apply.

A change in the customer of record (i.e., existing FRS is provided and billed to a different entity) is considered a service rearrangement when the new customer assumes liability for all current and prior charges for the service(s) and has complied with the regulations and conditions specified in 2.2.1 (Assignment and Transfer of Facilities). An Access Order Charge will apply when a change of customer name or a change in billing data (name, address, contact name, or telephone number) is requested in conjunction with a change in the customer of record as described in 5.2.2 (Access Order Charge).

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.5 Rate Regulations-(Continued)

B. Nonrecurring Charges-(Continued)

6. Service Rearrangement-(Continued)

Certain service rearrangements which are administrative in nature as specified in 7.3.1.B.3 (Nonrecurring Charges - Service Rearrangements) will be made without charge except as noted. Provisions for service rearrangements for which nonrecurring charges will apply are also set forth in 7.3.1.B.3.

Nonrecurring charges specified in 7.4.12.2 (Miscellaneous Rates and Charges - Service Rearrangement Charge) will apply on a per link basis.

C. Monthly Rates

Monthly rates are fixed recurring rates that apply each month, or fraction thereof, that a specific rate element is provided. For billing purposes, each month is considered to have thirty (30) days.

Monthly recurring rates apply to the following rate elements.

1. Access Link

A monthly rate applies for each Access Link installed from the customer's network interface to a corresponding Port.

A Port rate element must also be applied with each Access Link.

2. Multiplexed Services Connection

A monthly rate applies for each Multiplexed Services Connection between the Telephone Company central office based multiplexer and an associated Port.

A Port rate element must also be applied with each Multiplexed Services Connection.

3. Port

A monthly rate applies for each Port that is associated with an Access Link or Multiplexed Services Connection.

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

(RT)

(RT)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.5 Rate Regulations-(Continued)

C. Monthly Rates-(Continued)

4. Logical Link

A monthly rate applies for each logical link that connects one Access Link or Multiplexed Services Connection, and its associated Port, to another.

5. Link Extension

There are two types of monthly rates that apply for the Link Extension. These are the fixed monthly rate and a monthly rate, per mile.

A fixed monthly rate applies for each Link Extension associated with an Access Link.

A monthly rate, per mile, applies to each airline mile between the serving wire center associated with the customer designated premises and the nearest central office within the PMA.

The Link Extension rates are in addition to the rates and charges associated with the Access Link.

6. Network Link

There are two types of monthly rates that apply for the Network Link. These are the fixed monthly rate and a monthly rate, per mile.

A fixed monthly rate applies for each Network Link connecting two PMAs within the same LATA.

A monthly rate per mile applies to each airline mile between the two closest central offices in the two PMAs that are connected.

The Network Link rates are in addition to the rates and charges associated with all other FRS rate elements.

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16. PACKET SERVICE-(Continued)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.2 Frame Relay Service (FRS)-(Continued)

16.2.5 Rate Regulations-(Continued)

D. Determining Mileage Measurements

The mileage to be used to determine the monthly rate, per mile, for the Link Extension and Network Link is calculated on the airline distance between the locations involved, i.e., the serving wire center associated with the customer designated premises and the nearest central office or the two central offices that are located in different PMAs. The serving wire center associated with a customer designated premises is the serving wire center from which the customer designated premises would normally obtain dial tone.

To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4, then apply the per mile rate as specified in 16.4.2 (Rates and Charges Frame Relay Service).

E. Minimum Period

Frame Relay Service is provided for a minimum period of one month. When service is disconnected prior to the expiration of the minimum period, monthly charges are applicable for the balance of the minimum period.

If service is disconnected after the minimum period, monthly charges will be based on the actual number of days the service is furnished. In order to determine the charges for a fractional portion of a month, every month is considered to have 30 days.

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.3 Reserved for Future Use

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

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(RT)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.4 Rates and Charges-(Continued)

16.4.1 Frame Relay Service

Rate Per Month

A. Access Link

Per Access Link

56 Kbps (L7A5X)	$ 77.25
384 Kbps (L7A6X)	$165.00
1.536 Mbps (L7A7X)	$165.00

Nonrecurring Charge

56 Kbps, first	$365.00
56 Kbps, additional	$306.00
384 Kbps, first	$966.00
384 Kbps, additional	$838.00
1.536 Mbps, first	$966.00
1.536 Mbps, additional	$838.00

Rate Per Month

B. Multiplexed Services Connection

Per Connection

56 Kbps (MXQ5X)	$ 18.06
1.536 Mbps (MXQ7X)	$ 0.00

Nonrecurring Charge

56 Kbps, first	$107.00
56 Kbps, additional	$ 96.00
1.536 Mbps, first	$332.00
1.536 Mbps, additional	$280.00

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.4 Rates and Charges-(Continued)

16.4.1 Frame Relay Service-(Continued)

C. Port

	Rate Per Month
Per Port	
56 Kbps (P7E5X)	$ 87.00
384 Kbps (P7E6X)	$130.00
1.536 Mbps (P7E7X)	$410.00

	Nonrecurring Charge
56 Kbps	$ 8.00
384 Kbps	$ 46.00
1.536 Mbps	$181.00

D. Logical Link

	Rate Per Month
Per Logical Link	
56 Kbps (L8G5X)	$ 8.00
384 Kbps (L8G6X)	$ 20.00
1.536 Mbps (L8G7X)	$ 50.00

	Nonrecurring Charge
56 Kbps, first	$153.00
56 Kbps, additional	$117.00
384 Kbps, first	$163.00
384 Kbps, additional	$127.00
1.536 Mbps, first	$196.00
1.536 Mbps, additional	$161.00

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ACCESS SERVICES

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ACCESS SERVICES

16. PACKET SERVICE-(Continued)

16.4 Rates and Charges-(Continued)

16.4.1 Frame Relay Service-(Continued)

	Rate Per Month
E. Link Extension	
Per Link Extension	
Fixed	
56 Kbps (1A5ES)	$ 50.00
384 Kbps (1A5FS)	$ 51.30
1.536 Mbps (1A5GS)	$ 51.30
Per Mile	
56 Kbps	$ 0.75
384 Kbps	$ 17.70
1.536 Mbps	$ 17.70
F. Network Link	
Per Network Link	
Fixed	
56 Kbps (1HWHS)	$ 96.00
384 Kbps (1HWJS)	$245.00
1.536 Mbps (1HWKS)	$585.00
Per Mile	
56 Kbps	$ 0.75
384 Kbps	$ 17.70
1.536 Mbps	$ 17.70

	Nonrecurring Charge
56 Kbps	$ 16.00
384 Kbps	$362.00
1.536 Mbps	$362.00

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ACCESS SERVICES

(CT) 17. RESERVED FOR FUTURE USE

(RT)

(RT)

ACCESS SERVICES

17. OPERATOR SERVICES

Operator Service is provided to customers from Telephone Company Operator Service System (OSS) locations.

17.1 Operator Call Processing

(RT) Operator Call Processing (OCP) is deployed at all Southwestern Bell Telephone Company (Telephone Company) end offices in a Local Access and Transport Area (LATA). The OSS Tandem locations are provided in Volume 4 of the Southwestern Bell Interexchange Customer Information Handbook.

(CT) 17.1.1 Reserved for Future Use

(RT)

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ACCESS SERVICES

17. OPERATOR SERVICES

Operator Service is provided to customers from Telephone Company Operator Service System (OSS) locations.

17.1 Operator Call Processing

(RT) Operator Call Processing (OCP) includes Operator Transfer. Operator Transfer service is provided from OSS Tandems to the customer's premises in conjunction with the rules and regulations of the specified Access Services found in Sections 2, 3, 5 and 6, preceding. OCP is deployed at all Southwestern Bell Telephone Company (Telephone Company) end offices in a Local Access and Transport Area (LATA). The OSS Tandem locations are provided in Volume 4 of the Southwestern Bell Interexchange Customer Information Handbook.

17.1.1 Operator Transfer Service Description

Operator Transfer is an originating service that provides call routing of calls requiring operator assistance to a participating customer as requested by the calling end user. An Operator Transfer call is routed to the Telephone Company's OSS when the calling party requires operator assistance for completion to a call outside the originating LATA.

If the calling end user requests the name of a specific customer, the Telephone Company operator will consult alphabetical reference information to verify service participation and transfer the call.

If the calling end user has no specific customer preference, the Telephone Company Operator will consult reference information to identify the presubscribed interexchange carrier serving the originating line and verify service participation. The calling end user will then be offered a transfer to the participating carrier presubscribed to the originating line. If the end user accepts, the operator will transfer the call. If the end user does not want to transfer to the presubscribed carrier, the operator will advise that the end user must state a preference in order to continue the call. If the end user continues to not have a preference, the operator will advise the end user to call back when the end user has determined the name of
a carrier to handle the call.

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

17. OPERATOR SERVICES

Operator Service is provided to customers from Telephone Company Operator Service System (OSS) locations.

17.1 Operator Call Processing

(CT) Operator Call Processing (OCP) includes the service categories of Operator Transfer and
(CT) Inward Assistance. Operator Transfer and Inward Assistance services are provided from OSS Tandems to the customer's premises in conjunction with the rules and regulations of the specified Access Services found in Sections 2, 3, 5 and 6, preceding. OCP is deployed at all Southwestern Bell Telephone Company (Telephone Company) end offices in a Local Access and Transport Area (LATA). The OSS Tandem locations are provided in Volume 4 of the Southwestern Bell Interexchange Customer Information Handbook.

(CT) 17.1.1 Operator Transfer Service Description

Operator Transfer is an originating service that provides call routing of calls requiring operator assistance to a participating customer as requested by the calling end user. An Operator Transfer call is routed to the Telephone Company's OSS when the calling party requires operator assistance for completion to a call outside the originating LATA.

If the calling end user requests the name of a specific customer, the Telephone Company operator will consult alphabetical reference information to verify service participation and transfer the call.

If the calling end user has no specific customer preference, the Telephone Company Operator will consult reference information to identify the presubscribed interexchange carrier serving the originating line and verify service participation. The calling end user will then be offered a transfer to the participating carrier presubscribed to the originating line. If the end user accepts, the operator will transfer the call. If the end user does not want to transfer to the presubscribed carrier, the operator will advise that the end user must state a preference in order to continue the call. If the end user continues to not have a preference, the operator will advise the end user to call back when the end user has determined the name of
(CT) a carrier to handle the call.

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ACCESS SERVICES

(NR) 17. OPERATOR SERVICES

Operator Service is provided to customers from Telephone Company Operator Service System (OSS) locations.

17.1 Operator Call Processing

Operator Call Processing (OCP) includes the service categories of 0- Transfer and Inward Assistance. 0- Transfer and Inward Assistance services are provided from OSS Tandems to the customer's premises in conjunction with the rules and regulations of the specified Access Services found in Sections 2, 3, 5 and 6, preceding. OCP is deployed at all Southwestern Bell Telephone Company (Telephone Company) end offices in a Local Access and Transport Area (LATA). The OSS Tandem locations are provided in Volume 4 of the Southwestern Bell Interexchange Customer Information Handbook.

17.1.1 0- Transfer Service Description

0- Transfer is an originating service that provides call routing of 0- (the digit "0" with no additional digits) calls to a participating customer as requested by the calling end user. A 0- Transfer call is routed to the Telephone Company's OSS operator for completion to a destination outside the originating LATA when the calling party dials "0" and waits for an operator to assist with the call. The Telephone Company operator will, upon request, transfer the call to the calling end user's participating customer of choice. If the calling end user has no specific customer preference, the OSS operator will consult reference information and offer to the calling party the name of a participating customer. The reference information is arranged to give all participating customers an equal opportunity of being offered to and chosen by the calling end user. After a selection is made by the calling end user, the operator will then key in the selected customer's Carrier Identification Code (CIC) and transfer the call.

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By R. D. BARRON, President-Missouri Division
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St. Louis, Missouri

ACCESS SERVICES

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ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.1.2 Inward Assistance Service Description

(RT) Inward Assistance provides operator service functions on inward calls received from participating customers. Inward Assistance is provided when a participating customer's operator contacts a Telephone
(RT) Company OSS operator requesting dialing and/or routing assistance. Inward Assistance will be
(RT) performed for only one telephone number per inward call received.

(RT)

C. Operator Assistance - The OSS operator will provide the customer with dialing or routing assistance such as identifying a city when given only a NPA-NXX or verifying that a specific number is a coin
(RT) station. The OSS operator will, if required, complete an emergency call to the local emergency agency number.

17.2 Manner of Provisioning

A. Operator Call Processing trunking between the customer's premises and the OSS Tandem is provisioned as Switched Access FGD or BSA-D service and may be arranged, per the customer's request, as either one-way or two-way service. These trunk groups are established as final trunks and will be assigned data registers to obtain usage, peg count and overflow attempt information. If a trunk(s) does not currently exist between the customer's premises and the OSS Tandem(s), the customer must establish FGD or BSA-D service to the Telephone Company's OSS Tandem(s). The Telephone Company will provide trunk-side switching along with trunk-answer and disconnect supervisory signaling to the customer.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.1.2 Inward Assistance Service Description

Inward Assistance provides three operator service functions on inward calls received from participating customers. Inward Assistance is provided when a participating customer's operator contacts a Telephone
Company OSS operator requesting line status verification with call interruption or dialing and/or routing assistance. Inward Assistance functions will be performed for only one telephone number per inward call received. The three Inward Assistance service functions available are detailed as follows:

A. Busy Line Verification - The OSS operator will check the status of the requested telephone line to verify if there is conversation on the line and advise the requesting customer of the line status.

B. Verification with Call Interruption - After verification of a conversation on the requested line is made, and upon request, the OSS operator will interrupt and inform the called party of the waiting call.

C. Operator Assistance - The OSS operator will provide the customer with dialing or routing assistance such as identifying a city when given only a NPA-NXX or verifying that a specific number is a coin station. The OSS operator will provide a local emergency number and, if required, complete an emergency call to the local emergency agency number.

17.2 Manner of Provisioning

(RT) A. Operator Call Processing trunking between the customer's premises and the OSS Tandem is provisioned as Switched Access FGD or BSA-D service and may be arranged, per the customer's request, as either one-way or two-way service. These trunk groups are established as final trunks and will be assigned data registers to obtain usage, peg count and overflow attempt information. If a trunk(s) does not currently exist between the customer's premises and the OSS Tandem(s), the customer must establish FGD or BSA-D service to the Telephone Company's OSS Tandem(s). The Telephone Company will provide trunk-side switching along with trunk-answer and disconnect supervisory signaling to the customer.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.1.2 Inward Assistance Service Description

Inward Assistance provides three operator service functions on inward calls received from participating customers. Inward Assistance is provided when a participating customer's operator contacts a Telephone
(C) Company OSS operator requesting line status verification with call interruption or dialing and/or routing assistance. Inward Assistance functions will be performed for only one telephone number per inward call received. The three Inward Assistance service functions available are detailed as follows:

A. Busy Line Verification - The OSS operator will check the status of the requested telephone line to verify if there is conversation on the line and advise the requesting customer of the line status.

B. Verification with Call Interruption - After verification of a conversation on the requested line is made, and upon request, the OSS operator will interrupt and inform the called party of the waiting call.

C. Operator Assistance - The OSS operator will provide the customer with dialing or routing assistance such as identifying a city when given only a NPA-NXX or verifying that a specific number is a coin station. The OSS operator will provide a local emergency number and, if required, complete an emergency call to the local emergency agency number.

17.2 Manner of Provisioning

A. Operator Call Processing trunking between the customer's premises and
(AT) the OSS Tandem is provisioned as Switched Access FGC, FGD, BSA-C or
(AT) BSA-D service and may be arranged, per the customer's request, as either one-way or two-way service. These trunk groups are established as final trunks and will be assigned data registers to obtain usage, peg count and overflow attempt information. If a trunk(s) does not currently exist between the customer's premises and
(AT) the OSS Tandem(s), the customer must establish FGD or BSA-D service to the Telephone Company's OSS Tandem(s). The Telephone Company will provide trunk-side switching along with trunk-answer and disconnect supervisory signaling to the customer.

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Section 17
Original Sheet 2

ACCESS SERVICES

(NR) 17. OPERATOR SERVICES-(Continued)

17.1.2 Inward Assistance Service Description

Inward Assistance provides three operator service functions on inward calls received from participating customers. Inward Assistance is provided when a participating customer's operator contacts a Telephone Company OSS operator requesting line status verification verification with call interruption or dialing and/or routing assistance. Inward Assistance functions will be performed for only one telephone number per inward call received. The three Inward Assistance service functions available are detailed as follows:

A. Busy Line Verification - The OSS operator will check the status of the requested telephone line to verify if there is conversation on the line and advise the requesting customer of the line status.

B. Verification with Call Interruption - After verification of a conversation on the requested line is made, and upon request, the OSS operator will interrupt and inform the called party of the waiting call.

C. Operator Assistance - The OSS operator will provide the customer with dialing or routing assistance such as identifying a city when given only a NPA-NXX or verifying that a specific number is a coin station. The OSS operator will provide a local emergency number and, if required, complete an emergency call to the local emergency agency number.

17.2 Manner of Provisioning

A. Operator Call Processing trunking between the customer's premises and the OSS Tandem is provisioned as either Switched Access Feature Group C or Feature Group D service and may be arranged, per the customer's request, as either one-way or two-way service. These trunk groups are established as final trunks and will be assigned data registers to obtain usage, peg count and overflow attempt information. If a trunk(s) does not currently exist between the customer's premises and the OSS Tandem(s), the customer must establish Feature Group D service to the Telephone Company's OSS Tandem(s). The Telephone Company will provide trunk-side switching along with trunk-answer and disconnect supervisory signaling to the customer.

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ACCESS SERVICES

(RT)

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ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

B. When the OSS Tandem also functions as the Message Toll Service (MTS) Access Tandem, the customer may combine OCP traffic with its MTS Switched Access traffic between the OSS Tandem and the customer's premises provided the trunk group has the same signaling and routing requirements as specified for Operator Transfer or Inward Assistance. However, OCP traffic may not be combined with MTS Switched Access traffic if the customer provides operator functionality or coin station control.

(RT) 17.2.1 Reserved for Future Use

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ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

B. When the OSS Tandem also functions as the Message Toll Service (MTS) Access Tandem, the customer may combine OCP traffic with its MTS Switched Access traffic between the OSS Tandem and the customer's premises provided the trunk group has the same signaling and routing requirements as specified for Operator Transfer or Inward Assistance. However, OCP traffic may not be combined with MTS Switched Access traffic if the customer provides operator functionality or coin station control.

17.2.1 Operator Transfer

A. The customer must order or assign a separate trunk group and have a unique CIC for each name it uses for Operator Transfer Calls. The sharing of one customer's Switched Access trunk groups with one or more Switched Access customers is prohibited with Operator Transfer Service.

B. The customer is required to handle requests from all end offices in the LATA. Accordingly, the customer must order sufficient capacity between the OSS Tandem(s) and the customer's premises to serve Operator Transfer traffic originating from those end offices. The Telephone Company OSS Tandems send 10-digit ANI (NPA + 7-digit telephone number) for FGD or BSA-D trunk groups with Equal Access Signaling or Operator Services Address. (RT)

(RT)

C. In order for the customer to provide operator functionality (e.g., Operator Recall, Sequence Dialing, Time and Charge Quotation and Emergency Ring-Back) or coin station control, the customer must order Operator Trunk -Full Feature for FGD or BSA-D service, as set forth in Section 6 of Tariff FCC No. 73. In addition, when ordering coin station control, the customer must establish a separate and final trunk group for each type of end office operator/coin station signaling (i.e., inband, expanded inband, and multiwink) existing in the end Offices served by the OSS Tandem. (RT) (AT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 17
2nd Revised Sheet 3
Replacing 1st Revised Sheet 3

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

B. When the OSS Tandem also functions as the Message Toll Service (MTS) Access Tandem, the customer may combine OCP traffic with its MTS Switched Access traffic between the OSS Tandem and the customer's premises provided the trunk group has the same signaling and routing requirements as specified for Operator Transfer or Inward Assistance. However, OCP traffic may not be combined with MTS Switched Access traffic if the customer provides operator functionality or coin station control. (CT)

(CT) 17.2.1 Operator Transfer

(FC) (AT) A. The customer must order or assign a separate trunk group and have a unique CIC for each name it uses for Operator Transfer Calls. The sharing of one customer's Switched Access trunk groups with one or more Switched Access customers is prohibited with Operator Transfer Service. (AT)

(FC) B. The customer is required to handle requests from all end offices in the LATA. Accordingly, the customer must order sufficient capacity between the OSS Tandem(s) and the customer's premises to serve Operator Transfer traffic originating from those end offices. The Telephone Company OSS Tandems send 10-digit ANI (NPA + 7-digit telephone number) for FGD or BSA-D trunk groups with Equal Access Signaling or Operator Services Address Signaling and FGC or BSA-C trunk groups with Traditional Signaling. However, the Telephone Company OSS Tandems send 7-digit ANI for FGC or BSA-C trunk groups with Operator Services Signaling. Therefore, if the customer requires Operator Transfer calls separately identified by the originating NPA for the FGC or BSA-C trunk group with Operator Services Signaling, the customer must utilize a separate and final trunk group from the OSS Tandem to the customer's premises for each NPA served by that OSS Tandem. (CT) (CT)

(FC) C. In order for the customer to provide operator functionality (e.g., Operator Recall, Sequence Dialing, Time and Charge Quotation and Emergency Ring-Back) or coin station control, the customer must order Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin for FGC or BSA-C service or Operator Trunk - Full Feature for FGD or BSA-D service, as set forth in Section 6, Paragraph 6.3.2, preceding. In addition, when ordering coin station control, the customer must establish a separate and final trunk group for each type of end office operator/coin station signaling (i.e., inband, expanded inband, and multiwink) existing in the end offices served by the OSS Tandem. (RT) (RT)

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By PRISCILLA HILL-ARDOIN, President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 17
1st Revised Sheet 3
Replacing Original Sheet 3

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

B. When the OSS Tandem also functions as the Message Toll Service (MTS) Access Tandem, the customer may combine OCP traffic with its MTS Switched Access traffic between the OSS Tandem and the customer's premises provided the trunk group has the same signaling and routing requirements as specified for 0- Transfer or Inward Assistance. However, OCP traffic may not be combined with MTS Switched Access traffic if the customer provides operator functionality or coin station control.

17.2.1 0- Transfer

A. The customer is required to handle requests from all end offices in the LATA. Accordingly, the customer must order sufficient capacity between the OSS Tandem(s) and the customer's premises to serve 0- Transfer traffic originating from those end offices. The Telephone Company OSS Tandems send 10-digit ANI (NPA + 7-digit telephone number) for FGD or BSA-D trunk groups with Equal Access Signaling or Operator Services Address Signaling and FGC or BSA-C trunk groups with Traditional Signaling. However, the Telephone Company OSS Tandems send 7-digit ANI for FGC or BSA-C trunk groups with Operator Services Signaling. Therefore, if the customer requires 0- Transfer calls separately identified by the originating NPA for the FGC or BSA-C trunk group with Operator Services Signaling, the customer must utilize a separate and final trunk group from the OSS Tandem to the customer's premises for each NPA served by that OSS Tandem. (AT) (AT) (AT) (AT)

B. In order for the customer to provide operator functionality (e.g., Operator Recall, Sequence Dialing, Time and Charge Quotation and Emergency Ring-Back) or coin station control, the customer must order Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin for FGC or BSA-C service or Operator Trunk - Full Feature for FGD or BSA-D service, as set forth in Section 6, Paragraph 6.3.2, preceding. In addition, when ordering coin station control, the customer must establish a separate and final trunk group for each type of end office operator/coin station signaling (i.e., inband, expanded inband, and multiwink) existing in the end offices served by the OSS Tandem. 0- Transfer is not available for coin sent-paid traffic. (AT) (AT)

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

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Access Services Tariff
Section 17
Original Sheet 3

ACCESS SERVICES

(NR) 17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

B. When the OSS Tandem also functions as the Message Toll Service (MTS) Access Tandem, the customer may combine OCP traffic with its MTS Switched Access traffic between the OSS Tandem and the customer's premises provided the trunk group has the same signaling and routing requirements as specified for 0- Transfer or Inward Assistance. However, OCP traffic may not be combined with MTS Switched Access traffic if the customer provides operator functionality or coin station control.

17.2.1 0- Transfer

A. The customer is required to handle requests from all end offices in the LATA. Accordingly, the customer must order sufficient capacity between the OSS Tandem(s) and the customer's premises to serve 0- Transfer traffic originating from those end offices. The Telephone Company OSS Tandems send 10-digit ANI (NPA + 7-digit telephone number) for Feature Group D trunk groups with Equal Access Signaling or Operator Services Address Signaling and Feature Group C trunk groups with Traditional Signaling. However, the Telephone Company OSS Tandems send 7-digit ANI for Feature Group C trunk groups with Operator Services Signaling. Therefore, if the customer requires 0- Transfer calls separately identified by the originating NPA for the Feature Group C trunk group with Operator Services Signaling, the customer must utilize a separate and final trunk group from the OSS Tandem to the customer's premises for each NPA served by that OSS Tandem.

B. In order for the customer to provide operator functionality (e.g., Operator Recall, Sequence Dialing, Time and Charge Quotation and Emergency Ring-Back) or coin station control, the customer must order Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin for Feature Group C service or Operator Trunk - Full Feature for Feature Group D service, as set forth in Section 6, Paragraph 6.3.2, preceding. In addition, when ordering coin station control, the customer must establish a separate and final trunk group for each type of end office operator/coin station signaling (i.e., inband, expanded inband, and multiwink) existing in the end offices served by the OSS Tandem. 0- Transfer is not available for coin sent-paid traffic.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT)

(RT)

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

17.2.2 Signaling

(RT)
(RT)

(CT) A. For Inward Assistance, the Telephone Company will provide Equal Access Signaling for FGD or BSA-D service.

(CT) B. Signaling specifications for OCP Service are set forth in Technical Reference TR-TSY-*000271.

17.2.3 Design Layout Report

Upon request, the Telephone Company will provide to the customer the make-up of facilities and services provided from the customer's premises to the OSS Tandem. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided at no charge and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

17.2.4 Design Blocking

Trunks between the customer's premises and the OSS Tandems will follow the normal FGD or BSA-D blocking criteria as set forth in Section 6 of Tariff FCC No. 73. The Telephone Company will perform routine measurement functions to inform the customer that an adequate number of transmission paths are in service to meet the normal FGD or BSA-D design blocking levels.

17.2.5 Acceptance Testing

Acceptance testing for OCP will be provided as set forth in Section 6 of Tariff FCC No. 73. Testing capabilities for FGD or BSA-D services utilized in conjunction with OCP will be provided as set forth in Section 6 of Tariff FCC No. 73.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

17.2.2 Signaling

(RT) A. For Operator Transfer, the Telephone Company will provide Equal Access Signaling for FGD or BSA-D service. Customers providing operator functionality for operator traffic or coin station control
(RT) for coin station traffic will be provided with or Operator Services Address Signaling for FGD or BSA-D service.

(RT) B. For Inward Assistance, the Telephone Company will provide Equal Access Signaling for FGD or BSA-D service.

C. Signaling specifications for OCP Service are set forth in Technical Reference TR-TSY-*000271.

17.2.3 Design Layout Report

Upon request, the Telephone Company will provide to the customer the make-up of facilities and services provided from the customer's premises to the OSS Tandem. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided at no charge and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

17.2.4 Design Blocking

(RT) Trunks between the customer's premises and the OSS Tandems will follow the normal FGD or
(AT) BSA-D blocking criteria as set forth in Section 6 of Tariff FCC No. 73. The Telephone Company will perform routine measurement functions to inform the customer that an adequate number of
(RT) transmission paths are in service to meet the normal FGD or BSA-D design blocking levels.

17.2.5 Acceptance Testing

Acceptance testing for OCP will be provided as set forth in Section 6 of Tariff FCC No. 73. Testing
(RT) capabilities for FGD or BSA-D services utilized in conjunction with OCP will be provided as set forth
(AT) in Section 6 of Tariff FCC No. 73.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

17.2.2 Signaling

(CT) A. For Operator Transfer, the Telephone Company will provide Traditional Signaling for FGC or BSA-C service or Equal Access Signaling for FGD or BSA-D service. Customers providing operator functionality for operator traffic or coin station control for coin station traffic will be provided with Operator Services Signaling for FGC or BSA-C or Operator Services Address Signaling for FGD or BSA-D service.

B. For Inward Assistance, the Telephone Company will provide Traditional Signaling for FGC or BSA-C service or Equal Access Signaling for FGD or BSA-D service.

C. Signaling specifications for OCP Service are set forth in Technical Reference TR-TSY-*000271.

17.2.3 Design Layout Report

Upon request, the Telephone Company will provide to the customer the make-up of facilities and services provided from the customer's premises to the OSS Tandem. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided at no charge and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

17.2.4 Design Blocking

Trunks between the customer's premises and the OSS Tandems will follow the normal FGC, FGD, BSA-C or BSA-D blocking criteria as set forth in Section 6, Paragraph 6.8.7, preceding. The Telephone Company will perform routine measurement functions to inform the customer that an adequate number of transmission paths are in service to meet the normal FGC, FGD, BSA-C or BSA-D design blocking levels.

17.2.5 Acceptance Testing

Acceptance testing for OCP will be provided as set forth in Section 6, Paragraph 6.1.4, preceding. Testing capabilities for FGC, FGD, BSA-C or BSA-D services utilized in conjunction with OCP will be provided as set forth in Section 6, Paragraph 6.2.3, D. and 6.2.4, D., preceding.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

17.2.2 Signaling

A. For 0- Transfer, the Telephone Company will provide Traditional (AT) Signaling for FGC or BSA-C service or Equal Access Signaling for (AT) FGD or BSA-D service. Customers providing operator functionality for operator traffic or coin station control for coin station traffic will be provided with Operator Services Signaling for (AT) FGC or BSA-C or Operator Services Address Signaling for (AT) FGD or BSA-D service.

B. For Inward Assistance, the Telephone Company will provide (AT) Traditional Signaling for FGC or BSA-C service or Equal Access (AT) Signaling for FGD or BSA-D service.

C. Signaling specifications for OCP Service are set forth in Technical Reference TR-TSY-*000271.

17.2.3 Design Layout Report

Upon request, the Telephone Company will provide to the customer the make-up of facilities and services provided from the customer's premises to the OSS Tandem. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided at no charge and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

17.2.4 Design Blocking

Trunks between the customer's premises and the OSS Tandems will (AT) follow the normal FGC, FGD, BSA-C or BSA-D blocking criteria as set (FC) forth in Section 6, Paragraph 6.8.7, preceding. The Telephone Company will perform routine measurement functions to inform the customer that an adequate number of transmission paths are in service (AT) to meet the normal FGC, FGD, BSA-C or BSA-D design blocking levels.

17.2.5 Acceptance Testing

Acceptance testing for OCP will be provided as set forth in Section 6, Paragraph 6.1.4, preceding. Testing capabilities for FGC, FGD, (AT) BSA-C or BSA-D services utilized in conjunction with OCP will be provided as set forth in Section 6, Paragraph 6.2.3, D. and 6.2.4, D., preceding.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 17
Original Sheet 4

ACCESS SERVICES

(NR) 17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

17.2.2 Signaling

A. For 0- Transfer, the Telephone Company will provide Traditional Signaling for Feature Group C service or Equal Access Signaling for Feature Group D service. Customers providing operator functionality for operator traffic or coin station control for coin station traffic will be provided with Operator Services Signaling for Feature Group C or Operator Services Address Signaling for Feature Group D service.

B. For Inward Assistance, the Telephone Company will provide Traditional Signaling for Feature Group C service or Equal Access Signaling for Feature Group D service.

C. Signaling specifications for OCP Service are set forth in Technical Reference TR-TSY-*000271.

17.2.3 Design Layout Report

Upon request, the Telephone Company will provide to the customer the make-up of facilities and services provided from the customer's premises to the OSS Tandem. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided at no charge and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

17.2.4 Design Blocking

Trunks between the customer's premises and the OSS Tandems will follow the normal Feature Group C or D blocking criteria as set forth in Section 6, Paragraph 6.5.7, preceding. The Telephone Company will perform routine measurement functions to inform the customer that an adequate number of transmission paths are in service to meet the normal Feature Group C or D design blocking levels.

17.2.5 Acceptance Testing

Acceptance testing for OCP will be provided as set forth in Section 6, Paragraph 6.1.4, preceding. Testing capabilities for Feature Group C and Feature Group D services utilized in conjunction with OCP will be provided as set forth in Section 6, Paragraph 6.2.3, D. and 6.2.4, D., preceding.

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT)

(RT)

ACCESS SERVICES

(NR) 17. OPERATOR SERVICES-(Continued)

17.2 Manner of Provisioning-(Continued)

17.2.6 Interface and Transmission Parameters

Operator Call Processing will utilize the same interface groups and transmission specifications as specified in Section 6, Paragraphs 6.2.3, C. and 6.2.4, C., preceding.

17.2.7 Ordering Options and Conditions

Operator Call Processing is ordered under the Access Order provisions as set forth in Section 5, preceding. The Access Order Charge applicable for Switched Access will apply per Access Order for the installation, addition, change or rearrangement of OCP service. In addition, other Access Order Charges (i.e., Service Date Change Charges, Cancellation Charges, etc.) may apply.

17.3 Liability of the Telephone Company

In addition to the liability statements as set forth in Section 2, preceding, the following also applies.

A. The Telephone Company's liability, if any, for its gross negligence or willful misconduct is not limited by this Tariff. With respect to any other claim or suit, by a customer or any others, for damages arising out of negligent mistakes, omissions, interruptions, delays or errors, defects in transmission, omission from or defects in the applicable list of customers or transfers to customers occurring in the course of furnishing service hereunder, the Telephone Company's liability, if any, shall not exceed an amount equivalent to the proportionate charge to the customer for the period of time during which such mistake, omission, interruptions, delays, errors, defects in transmission or service, omission from or defects in the applicable list of customers or transfers to customers continues. However, any such mistakes, omissions, interruptions, delays, errors, or defects in transmission or service, omission from or defects in the applicable list of customers or transfers to customers which are caused by or contributed to by the negligent omission or willful act of the customer-provided facilities or equipment shall not result in the imposition of any liability whatsoever upon the Telephone Company.

ACCESS SERVICES

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ACCESS SERVICES

(NR) 17. OPERATOR SERVICES-(Continued)

17.3 Liability of the Telephone Company-(Continued)

A. (Continued)

The Telephone Company expressly disclaims any express or implied warranty for the aforesaid service or offering including no warranty of merchantability or warranty of fitness for any particular purpose. It is expressly acknowledged by all subscribers to the aforesaid service that errors, mistakes and omissions can and will occur and that the Telephone Company neither warrants nor guarantees faultless or perfect service or transmission.

B. The customer indemnifies and saves the Telephone Company harmless against claims for libel, slander or infringement of copyright and trademark arising from the information transmitted over facilities furnished hereunder and against all other claims arising out of any act or omission of the customer in connection with facilities provided by the Telephone Company.

C. The customer indemnifies and saves the Telephone Company harmless against claims or suits for damages arising where the connection between the calling end user and a local emergency agency is in some way faulty or impaired, due in whole or in part to the negligent mistake or delay of the Telephone Company. Examples of this may include, but are not limited to, instances in which the Telephone Company, through negligent mistake or delay, may provide an incorrect local emergency agency number, delay in locating a local emergency agency number or disconnect an in-progress call between a calling end user and a local emergency agency.

17.4 Obligations of the Customer

In addition to the general regulations as set forth in Section 2, preceding, the following also applies.

A. The customer shall provide the necessary on-hook, off-hook, answer supervision and disconnect supervision at the customer's premises.

B. Jurisdictional reporting will apply as required in Section 2, Paragraph 2.3.13, for determining the Percent Interstate Usage (PIU).

ACCESS SERVICES

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ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation

17.5.1 Description and Application of Rates and Charges

(CT) A. Reserved for Future Use

(RT)

(RT)

B. Inward Assistance

The Inward Assistance flat-rate charges are specific to the operator function performed and are applied per attempt. In addition to including all operator work time and equipment necessary to perform the requested operator function, these charges also include the recurring traffic-sensitive usage costs associated with premium Switched Access Service. The specific charges for Inward Assistance shown below:

(1) Operator Assistance - applicable per Operator Assistance attempt.

Recurring Switched Access rates including CCL charges are not applicable for Inward Assistance. Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.10 and 6.11, preceding.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation

17.5.1 Description and Application of Rates and Charges

A. Operator Transfer

The Operator Transfer charge is a flat-rate charge applicable per call transferred.

In addition to the Operator Transfer charge, recurring Switched Access premium rates apply as set forth in Section 6, Paragraph 6.11, preceding, for usage originating from all end offices served by the OSS Tandem. Carrier Common Line (CCL) charges as set forth in Section 3, Paragraph 3.8, preceding, also will apply for originating
Operator Transfer usage.

Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.10 and 6.11, preceding.

B. Inward Assistance

The Inward Assistance flat-rate charges are specific to the operator function performed and are applied per attempt. In addition to including all operator work time and equipment necessary to perform the requested operator function, these charges also include the recurring traffic-sensitive usage costs associated with premium Switched Access Service. The specific charges for Inward Assistance shown below:

(RT)

(RT)

(RT)

(AT) (1) Operator Assistance - applicable per Operator Assistance attempt.

Recurring Switched Access rates including CCL charges are not applicable for Inward Assistance. Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.10 and 6.11, preceding.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation

17.5.1 Description and Application of Rates and Charges

(CT) A. Operator Transfer

(CT) The Operator Transfer charge is a flat-rate charge applicable per call transferred.

(CT) In addition to the Operator Transfer charge, recurring Switched Access premium rates apply as set forth in Section 6, Paragraph 6.11, preceding, for usage originating from all end offices served by the OSS Tandem. Carrier Common Line (CCL) charges as set forth in Section 3, Paragraph 3.8, preceding, also will apply for originating
(CT) Operator Transfer usage.

Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.10 and 6.11, preceding.

B. Inward Assistance

The Inward Assistance flat-rate charges are specific to the operator function performed and are applied per attempt. In addition to including all operator work time and equipment necessary to perform the requested operator function, these charges also include the recurring traffic-sensitive usage costs associated with premium Switched Access Service. The specific charges for Inward Assistance are shown below:

(1) Busy Line Verification - applicable per busy line verify attempt.

(2) Call Interrupt with Verification - applicable per busy line verify/call interrupt attempt.

(3) Operator Assistance - applicable per Operator Assistance attempt.

Recurring Switched Access rates including CCL charges are not applicable for Inward Assistance. Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.10 and 6.11, preceding.

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation

17.5.1 Description and Application of Rates and Charges

A. 0- Transfer

The 0- Transfer charge is a flat-rate charge applicable per call transferred.

(FC) In addition to the 0- Transfer charge, recurring Switched Access premium rates apply as set forth in Section 6, Paragraph 6.11, preceding, for usage originating from all end offices served by the OSS Tandem. Carrier Common Line (CCL) charges as set forth in Section 3, Paragraph 3.8, preceding, also will apply for originating 0- Transfer usage.

(FC) Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.10 and 6.11, preceding.

B. Inward Assistance

The Inward Assistance flat-rate charges are specific to the operator function performed and are applied per attempt. In addition to including all operator work time and equipment necessary to perform the requested operator function, these charges also include the recurring traffic-sensitive usage costs associated with premium Switched Access Service. The specific charges for Inward Assistance are shown below:

(1) Busy Line Verification - applicable per busy line verify attempt.

(2) Call Interrupt with Verification - applicable per busy line verify/call interrupt attempt.

(3) Operator Assistance - applicable per Operator Assistance attempt.

(FC) Recurring Switched Access rates including CCL charges are not applicable for Inward Assistance. Nonrecurring Switched Access
(FC) charges are applicable as specified in Section 6, Paragraphs 6.10 and 6.11, preceding.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 17
Original Sheet 7

ACCESS SERVICES

(NR) 17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation

17.5.1 Description and Application of Rates and Charges

A. 0- Transfer

The 0- Transfer charge is a flat-rate charge applicable per call transferred.

In addition to the 0- Transfer charge, recurring Switched Access premium rates apply as set forth in Section 6, Paragraph 6.8, preceding for usage originating from all end offices served by the OSS Tandem. Carrier Common Line (CCL) charges asset forth in Section 3, Paragraph 3.8, preceding, also will apply for originating 0- Transfer usage.

Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.7 and 6.8, preceding.

B. Inward Assistance

The Inward Assistance flat-rate charges are specific to the operator function performed and are applied per attempt. In addition to including all operator work time and equipment necessary to perform the requested operator function, these charges also include the recurring traffic-sensitive usage costs associated with premium Switched Access Service. The specific charges for Inward Assistance are shown below:

(1) Busy Line Verification - applicable per busy line verify attempt.

(2) Call Interrupt with Verification - applicable per busy line verify/call interrupt attempt.

(3) Operator Assistance - applicable per Operator Assistance attempt.

Recurring Switched Access rates including CCL charges are not applicable for Inward Assistance. Nonrecurring Switched Access charges are applicable as specified in Section 6, Paragraphs 6.7 and 6.8, preceding.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT)

(RT)

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation-(Continued)

17.5.2 Rates and Charges

		USOC	Recurring Rate
(CT) (RT)	(A) Reserved for Future Use		
	(B) Inward Assistance Per Attempt		
	(1) Operator Assistance	ZZUOH	$0.22

(RT)

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation-(Continued)

17.5.2 Rates and Charges

		USOC	Recurring Rate
(A)	Operator Transfer per call transferred(1)	ZZUOP	$0.30
(B)	Inward Assistance Per Attempt		
(RT)			
(RT)			
(AT)	(1) Operator Assistance	ZZUOH	$0.22

(1) In addition, Switched Access charges are applicable as detailed in Section 17, Paragraph 17.5.1, preceding.

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 17
1st Revised Sheet 8
Replacing Original Sheet 8

ACCESS SERVICES

17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation-(Continued)

17.5.2 Rates and Charges

		USOC	Recurring Rate
(CT)	(A) Operator Transfer per call transferred(1)	ZZUOP	$0.30
	(B) Inward Assistance Per Attempt		
	(1) Busy Line Verification	ZZUBV	$0.75
	(2) Verification with Call Interrupt	ZZUBN	$1.50
	(3) Operator Assistance	ZZUOH	$0.22

(1) In addition, Switched Access charges are applicable as detailed in Section 17, Paragraph 17.5.1, preceding.

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Southwestern Bell Telephone Company
St. Louis, Missouri

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Access Services Tariff
Section 17
Original Sheet 8

ACCESS SERVICES

(NR) 17. OPERATOR SERVICES-(Continued)

17.5 Rate Regulation-(Continued)

17.5.2 Rates and Charges

		USOC	Recurring Rate
(A)	0- Transfer per call transferred(1)	ZZUOP	$0.30
(B)	Inward Assistance Per Attempt		
	(1) Busy Line Verification	ZZUBV	$0.75
	(2) Verification with Call Interrupt	ZZUBN	$1.50
	(3) Operator Assistance	ZZUOH	$0.22

(1) In addition, Switched Access charges are applicable as detailed in Section 17, Paragraph 17.5.1, preceding.

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

18. RESERVED FOR FUTURE USE

(RT)

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 18
2nd Revised Sheet 1
Replacing 1st Revised Sheet 1

ACCESS SERVICES

18. DIRECTLINE-CUSTOM[sm]

The Telephone Company will provide DirectLine-Custom service to ICs and end users from the DirectLine-Custom database location.

18.1 General Description

The Telephone Company will provision DirectLine-Custom to allow direct on-line electronic access to the Telephone Company's directory database without a directory assistance operator being involved.

(AT) The DirectLine-Custom database is accessed through the Telephone Company's MicroLink II packet network utilizing the X.25 protocol or through a direct dial-up access utilizing either a Microsoft\ Windows~*
(AT) based software package or the customer's communication software.

The database provided will include listing details when a name search is initiated. The detail for both residential and business published listings includes the name, address, and telephone number.

The capability to make additions, deletions, modifications, or to enhance the listing information within the DirectLine-Custom database will not be provided.

The DirectLine-Custom database compilation is and shall remain the sole property of Southwestern Bell Telephone Company. Nothing in this tariff nor in the offering of this service shall grant a license or other property interest in use of this database.

18.2 Undertaking of the Telephone Company

A. The Telephone Company will provide a directory database that will be updated daily.

(AT) B. When access to the DirectLine-Custom database is via the Telephone
(AT) Company's MicroLink II\ Service, the MICROLINK II\ packet network software will be provided to make the X.25 logical connections to the host computer.

C. The host computer software will provide the capability to obtain detailed listing information when a name search is initiated.

[sm] Service Mark of Southwestern Bell Telephone Company
®Registered Service Mark of Southwestern Bell Telephone Company
(AT) *Microsoft is a registered trademark and Windows is a trademark of Microsoft
(AT) Corporation.

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By HORACE WILKINS, JR., President-Missouri
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 18
1st Revised Sheet 1
Replacing Original Sheet 1

ACCESS SERVICES

18. DIRECTLINE-CUSTOM[SM]

(CP) The Telephone Company will provide DirectLine-Custom[sm] service to ICs and end users from the DirectLine-Custom database location.

18.1 General Description

The Telephone Company will provision DirectLine-Custom to allow direct on-line electronic access to the Telephone Company's directory database without a directory assistance operator being involved.

The database provided will include listing details when a name search is initiated. The detail for both residential and business published listings includes the name, address, and telephone number.

The capability to make additions, deletions, modifications, or to enhance the listing information within the DirectLine-Custom database will not be provided.

The DirectLine-Custom database compilation is and shall remain the sole property of Southwestern Bell Telephone Company. Nothing in this tariff nor in the offering of this service shall grant a license or other property interest in use of this database.

18.2 Undertaking of the Telephone Company

A. The Telephone Company will provide a directory database that will be updated daily.

B. The MICROLINK II® packet network software will be provided to make the X.25 logical connections to the host computer.

C. The host computer software will provide the capability to obtain detailed listing information when a name search is initiated.

[SM] Service Mark of Southwestern Bell Telephone Company
® Registered Service Mark of Southwestern Bell Telephone Company

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 18
Original Sheet 1

ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM[SM]

The Telephone Company will provide DirectLine-Custom service to a customer from the DirectLine-Custom host computer database location.

18.1 General Description

The Telephone Company will provision DirectLine-Custom to allow direct on-line electronic access to the Telephone Company's directory database without a directory assistance operator being involved.

The database provided will include listing details when a name search is initiated. The detail for both residential and business published listings includes the name, address, and telephone number.

The capability to make additions, deletions, modifications, or to enhance the listing information within the DirectLine-Custom database will not be provided.

The DirectLine-Custom database compilation is and shall remain the sole property of Southwestern Bell Telephone Company. Nothing in this tariff nor in the offering of this service shall grant a license or other property interest in use of this database.

18.2 Undertaking of the Telephone Company

A. The Telephone Company will provide a directory database that will be updated daily.

B. The MICROLINK II[®] packet network software will be provided to make the X.25 logical connections to the host computer.

C. The host computer software will provide the capability to obtain detailed listing information when a name search is initiated.

SM Service Mark of Southwestern Bell Telephone Company
R Registered Service Mark of Southwestern Bell Telephone Company

Issued: JUL 17 1990 Effective: AUG 17 1990

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

ACCESS SERVICES

18. DIRECTLINE-CUSTOM[sm]-(Continued)

18.2 Undertaking of the Telephone Company-(Continued)

D. The Telephone Company will provide the customer with access to all Numbering Plan Areas (NPAs) within the Telephone Company's territory.

E. The Telephone Company's host computer will validate the user ID to determine which NPAs are authorized for access.

F. Telephone numbers which are not listed in the Directory Assistance operator's records will not be available.

(AT) (RT) (AT) (AT) G. The Telephone Company will provision access to the DirectLine-Custom host computer through the Telephone Company's MICROLINK II packet network utilizing the X.25 protocol or through a direct dial-up access where the customer will utilize either a Microsoft\ Windows~* based software package which is available through a license agreement with the Telephone Company or a customer communication software.

(RT) (RT)

(FC) H. The DirectLine-Custom host computer software will collect billing data which can be compiled into two reports; a summary report of all DirectLine-Custom activity that occurred during a specified period, and a full detailed report for each user ID activity during the same period.

(FC) I. The Telephone Company will provide the following DirectLine-Custom user support functions to ensure host database integrity and coordinate customer billing:

1. Establish initial user ID on the host computer and change the user ID at the customer's request.

2. Add/Remove users through individual account maintenance records.

(AT) *Microsoft is a registered trademark and Windows is a trademark of Microsoft
(AT) Corporation.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 18
1st Revised Sheet 2
Replacing Original Sheet 2

ACCESS SERVICES

18. DIRECTLINE-CUSTOM-(Continued)

18.2 Undertaking of the Telephone Company-(Continued)

D. The Telephone Company will provide the customer with access to all Numbering Plan Areas (NPAs) within the Telephone Company's territory.

(RT)

E. The Telephone Company's host computer will validate the user ID to determine which NPAs are authorized for access.

F. Telephone numbers which are not listed in the Directory Assistance operator's records will not be available.

G. DirectLine-Custom host computer access will be provisioned through the Telephone Company's MICROLINK II packet network with an X.25 protocol.

H. A circuit connection will be established between the DirectLine-Custom database and the Telephone Company MICROLINK II packet network.

I. The Telephone Company will provide the circuit connection termination hardware at the Telephone Company's MICROLINK II packet network and at the DirectLine-Custom host computer.

J. The Telephone Company will provide a host computer that consists of a communication interface processor, central processor unit, and mass storage units.

K. The DirectLine-Custom host computer software will collect billing data which can be compiled into two reports; a summary report of all DirectLine-Custom activity that occurred during a specified period, and a full detailed report for each user ID activity during the same period.

L. The Telephone Company will provide the following DirectLine-Custom user support functions to ensure host database integrity and coordinate customer billing:

1. Establish initial user ID on the host computer and change the user ID at the customer's request.

2. Add/Remove users through individual account maintenance records.

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Effective: APR 0 8 1991

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM-(Continued)

18.2 Undertaking of the Telephone Company-(Continued)

D. The Telephone Company will provide the customer with access to all Numbering Plan Areas (NPAs) within the Telephone Company's territory except for home NPAs for users with Identification Numbers (IDs) that correspond to that home NPA.

E. The Telephone Company's host computer will validate the user ID to determine which NPAs are authorized for access.

F. Telephone numbers which are not listed in the Directory Assistance operator's records will not be available.

G. DirectLine-Custom host computer access will be provisioned through the Telephone Company's MICROLINK II packet network with an X.25 protocol.

H. A circuit connection will be established between the DirectLine-Custom database and the Telephone Company MICROLINK II packet network.

I. The Telephone Company will provide the circuit connection termination hardware at the Telephone Company's MICROLINK II packet network and at the DirectLine-Custom host computer.

J. The Telephone Company will provide a host computer that consists of a communication interface processor, central processor unit, and mass storage units.

K. The DirectLine-Custom host computer software will collect billing data which can be compiled into two reports; a summary report of all DirectLine-Custom activity that occurred during a specified period, and a full detailed report for each user ID activity during the same period.

L. The Telephone Company will provide the following DirectLine-Custom user support functions to ensure host database integrity and coordinate customer billing:

1. Establish initial user ID on the host computer and change the user ID at the customer's request.

2. Add/Remove users through individual account maintenance records.

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BY DHRS #2

Effective: AUG 17 1990

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

18. DIRECTLINE-CUSTOM[sm]-(Continued)

18.2 Undertaking of the Telephone Company-(Continued)

(FC) I. (Continued)

3. Maintain files on the host computer system, including modification of ID and passwords as necessary.

4. Perform daily backup of customer accounting files, and backup (i.e. daily, weekly) of the entire disc system.

5. Deliver user names and passwords to the DirectLine-Custom customer.

(FC) J. The Telephone Company will provide the MICROLINK II packet network to establish the link between the customer's network and the DirectLine-Custom host computer.

18.3 Obligations of the Customer

In addition to the regulations as set forth in Paragraph 18.2, preceding, the customer has certain specific obligations pertaining to the use of DirectLine-Custom service. These obligations are as follows:

(AT) A. When the customer chooses access to the DirectLine-Custom database
(AT) through the Telephone Company's MicroLink II packet network, the customer
(CT) must order MICROLINK II service as set forth in Section 16, preceding, of this tariff.

B. The customer's equipment must be compatible with the Telephone Company's
(CT) serving arrangement and utilize X.25 capability when accessing the DirectLine-Custom database through the MICROLINK II packet network.

(AT) C. The use of a standard packet network numbering plan name is required when
(AT) the customer utilizes the Telephone Company's MicroLink II Service.

D. A user ID and a password will be required to make the final connection to the DirectLine-Custom database at the DirectLine-Custom host computer
(AT) when the customer utilizes the Telephone Company's MicroLink II Service.

E. The customer shall provide to the Telephone Company a DirectLine-Custom Percent Interstate Usage (PIU) Report in accordance with the provisions specified in Paragraph 18.4 of this tariff.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
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1st Revised Sheet 3
Replacing Original Sheet 3

ACCESS SERVICES

18. DIRECTLINE-CUSTOM-(Continued)

18.2 Undertaking of the Telephone Company-(Continued)

L. (Continued)

3. Maintain files on the host computer system, including modification of ID and passwords as necessary.

4. Perform daily backup of customer accounting files, and backup (i.e. daily, weekly) of the entire disc system.

5. Deliver user names and passwords to the DirectLine-Custom customer.

M. The Telephone Company will provide the MICROLINK II packet network to establish the link between the customer's network and the DirectLine-Custom host computer.

18.3 Obligations of the Customer

In addition to the regulations as set forth in Paragraph 18.2, preceding, the customer has certain specific obligations pertaining to the use of DirectLine-Custom service. These obligations are as follows:

A. The customer will order MICROLINK II service as set forth in Section 16, preceding, of this tariff.

B. The customer's equipment must be compatible with the Telephone Company's serving arrangement and utilize X.25 capability to access the DirectLine-Custom database through the MICROLINK II packet network.

C. The use of a standard packet network numbering plan name is required.

D. A user ID and a password will be required to make the final connection to the DirectLine-Custom database at the DirectLine-Custom host computer.

(CT) E. The customer shall provide to the Telephone Company a DirectLine-Custom Percent Interstate Usage (PIU) Report in accordance with the provisions
(CT) specified in Paragraph 18.4 of this tariff.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 18
Original Sheet 3

ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM-(Continued)

18.2 Undertaking of the Telephone Company-(Continued)

L. (Continued)

3. Maintain files on the host computer system, including modification of ID and passwords as necessary.

4. Perform daily backup of customer accounting files, and backup (i.e. daily, weekly) of the entire disc system.

5. Deliver user names and passwords to the DirectLine-Custom customer.

M. The Telephone Company will provide the MICROLINK II packet network to establish the link between the customer's network and the DirectLine-Custom host computer.

18.3 Obligations of the Customer

In addition to the regulations as set forth in Paragraph 18.2, preceding, the customer has certain specific obligations pertaining to the use of DirectLine-Custom service. These obligations are as follows:

A. The customer will order MICROLINK II service as set forth in Section 16, preceding, of this tariff.

B. The customer's equipment must be compatible with the Telephone Company's serving arrangement and utilize X.25 capability to access the DirectLine-Custom database through the MICROLINK II packet network.

C. The use of a standard packet network numbering plan name is required.

D. A user ID and a password will be required to make the final connection to the DirectLine-Custom database at the DirectLine-Custom host computer.

E. The customer shall provide Jurisdictional Reports as specified in Paragraph 18.4 of this tariff.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

ACCESS SERVICES

18. DIRECTLINE-CUSTOM-(Continued)

18.4 Jurisdictional Report Requirements

When a customer orders DirectLine-Custom service or Directory Assistance service, the customer shall, when it places the order, provide the projected interstate percentage for terminating use in a whole number (a number of 0 through 100) for DirectLine-Custom service or for each Directory Access Service group ordered. (A method the customer may wish to adopt could be to use its terminating traffic from its premises to the involved Directory Assistance location and calculate the projected

(FC) interstate percentage as set forth in Section 2, Paragraph 2.3.13).
The Telephone Company will designate the number obtained by subtracting the projected interstate percentage furnished by the customer from 100 (100 - customer percentage = intrastate percentage) as the projected intrastate percentage of use.

In determining the interstate percentage of use, the customer should consider a DirectLine-Custom query for an NPA listing that is from the same NPA as the originator, home NPA, or a foreign NPA listing within the originator's state, as an intrastate query.

18.5 Optional Features

The customer has the option of receiving formatted or unformatted data.

A. Formatted Data

Data transmitted to the customer from the host computer which includes screen formatting characters which control the display of host computer prompt and response information.

B. Unformatted Data

Data transmitted to the customer from the host computer which does not include screen-formatting characters. The customer provides the software interface program to format the host computer information received by the customer.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 18
1st Revised Sheet 4
Replacing Original Sheet 4

ACCESS SERVICES

18. DIRECTLINE-CUSTOM-(Continued)

18.4 Jurisdictional Report Requirements

When a customer orders DirectLine-Custom service or Directory Assistance service the customer shall, when it places the order, provide the projected interstate percentage for terminating use in a whole number (a number of 0 through 100) for DirectLine-Custom service or for each Directory Access Service group ordered. (A method the customer may wish to adopt could be to use its terminating traffic from its premises to the involved Directory Assistance location and calculate the projected interstate percentage as set forth in Section 2, Paragraph 2.3.13, A.) The Telephone Company will designate the number obtained by subtracting the projected interstate percentage furnished by the customer from 100 (100 - customer percentage = intrastate percentage) as the projected intrastate percentage of use.

(AT)
|
AT)

In determining the interstate percentage of use, the customer should consider a DirectLine-Custom query for a NPA listing that is from the same NPA as the originator, home NPA, or a foreign NPA listing within the originator's state, as an intrastate query.

18.5 Optional Features

The customer has the option of receiving formatted or unformatted data.

A. Formatted Data

Data transmitted to the customer from the host computer which includes screen formatting characters which control the display of host computer prompt and response information.

B. Unformatted Data

Data transmitted to the customer from the host computer which does not include screen-formatting characters. The customer provides the software interface program to format the host computer information received by the customer.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM-(Continued)

18.4 Jurisdictional Report Requirements

When a customer orders DirectLine-Custom service or Directory Assistance service the customer shall, when it places the order, provide the projected interstate percentage for terminating use in a whole number (a number of 0 through 100) for DirectLine-Custom service or for each Directory Access Service group ordered. (A method the customer may wish to adopt could be to use its terminating traffic from its premises to the involved Directory Assistance location and calculate the projected interstate percentage as set forth in Section 2, Paragraph 2.3.13, A.) The Telephone Company will designate the number obtained by subtracting the projected interstate percentage furnished by the customer from 100 (100 - customer percentage = intrastate percentage) as the projected intrastate percentage of use.

18.5 Optional Features

The customer has the option of receiving formatted or unformatted data.

A. Formatted Data

Data transmitted to the customer from the host computer which includes screen formatting characters which control the display of host computer prompt and response information.

B. Unformatted Data

Data transmitted to the customer from the host computer which does not include screen-formatting characters. The customer provides the software interface program to format the host computer information received by the customer.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

ACCESS SERVICES

18. DIRECTLINE-CUSTOM[sm]-(Continued)

18.6 Minimum Period

(RT)(CP)
| |
| |
(RT)(CP)

DirectLine-Custom Service is provided for a minimum period of one month. When service is disconnected prior to or after the minimum period, the applicable charges will be the total of the actual usage charges incurred.

18.7 Credit Allowance for Service Interruptions

Credit allowance application provisions as specified in Section 2, Paragraph 2.4.4, B. and C., preceding, will also apply for DirectLine-Custom.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM (Continued)

18.6 Minimum Period

The minimum period for which DirectLine-Custom is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

If DirectLine-Custom service is discontinued prior to the end of each six month period, the charges that apply for the remaining months are the nonrecoverable costs. Such costs include the nonrecoverable cost of equipment and material ordered, provided or used, plus the nonrecoverable cost of installation and removal including the cost of engineering, labor, supervision, transportation, rights-of-way, and other associated costs less estimated net salvage.

18.7 Credit Allowance for Service Interruptions

Credit allowance application provisions as specified in Section 2, Paragraph 2.4.4, B. and C., preceding, will also apply for DirectLine-Custom.

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

ACCESS SERVICES

18. DIRECTLINE-CUSTOM[sm]-(Continued)

18.8 Rate Regulations

(RT) This section contains the specific regulations governing the rates and charges that apply for DirectLine-Custom.

(FC)(RT) In addition, when the customer utilizes the Telephone Company's MicroLink II packet network, the recurring and nonrecurring rates and charges for

(RT) MICROLINK II as set forth in Section 16, preceding, will apply.

(FC) A. DirectLine-Custom Rates and Charges

There are two types of rates and charges for DirectLine-Custom that will apply. These are recurring and nonrecurring charges.

1. Nonrecurring

These are one time charges specifically applicable to DirectLine-Custom:

The Service Establishment Charge, Initial Subsequent User ID Charge, and Subsequent User ID Charge.

No supplement to this tariff will be issued except for the purpose

Access Services Tariff
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ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM (Continued)

18.8 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for DirectLine-Custom. The two types of rates and charges that apply to this service are MICROLINK II and DirectLine-Custom specific.

A. MICROLINK II Rates and Charges

The recurring and nonrecurring rates and charges for MICROLINK II as set forth in Section 16, preceding, will apply for the provision of DirectLine-Custom.

B. DirectLine-Custom Rates and Charges

There are two types of rates and charges for DirectLine-Custom that will apply. These are recurring and nonrecurring charges.

1. Nonrecurring

These are one time charges specifically applicable to DirectLine-Custom:

The Service Establishment Charge, Initial Subsequent User ID Charge, and Subsequent User ID Charge.

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R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM (Continued)

18.8 Rate Regulations (Continued)

B. DirectLine-Custom Rates and Charges (Continued)

1. Nonrecurring (Continued)

A. Service Establishment Charge

This charge applies per request for the service. The rate element includes the activities associated with establishing the circuits to the database. This element also includes the establishment of the initial User ID. If the customer requires multiple User IDs with the establishment of service, an "additional" User ID charge applies to each additional User ID.

B. User ID Charge

A User ID charge is applicable on a first and additional User ID basis. If a customer orders multiple User IDs on a single request, the first User ID is assessed the "first" User ID charge (except at the time service is initially established, as specified in A., preceding) and each additional User ID is assessed the "additional" User ID charge.

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM (Continued)

18.8 Rate Regulations (Continued)

1. Nonrecurring (Continued)

The following are examples of the Service Establishment Charge and the User ID Charge applications.

Example 1:

If a customer requires only one User ID at the time service is established, the following charges apply:

- One Service Establishment Charge (includes initial User ID)

Example 2:

If a customer requires two User IDs at the time service is established, the following charges apply:

- One Service Establishment Charge (includes initial User ID)
- One "Additional" User ID Charge

Example 3:

If a customer requires three User IDs at the time service is established, the following charges apply:

- One Service Establishment Charge (includes initial User ID)
- Two "Additional" User ID Charges

If the same customer requires three additional User IDs after his service is established, the following charges apply:

- One "First" User ID Charge
- Two "Additional" User ID Charges

ACCESS SERVICES

(RT) 18. RESERVED FOR FUTURE USE

(RT)

ACCESS SERVICES

18. DIRECTLINE-CUSTOM[sm]-(Continued)

18.8 Rate Regulations (Continued)

2. Recurring

This charge applies specifically to the DirectLine-Custom service.

A. Screen Charge

(RT)(AT) (RT)(AT) (AT) This charge is applied per screen requested by the customer. A screen contains 1 to 11 detail listing records; i.e. name, address (when available), and telephone number or major business/government heading or sub-heading records. A screen charge applies whether or not the requested listing information was found.

18.9 Rates and Charges

(RT) (RT)

(FC) A. DirectLine-Custom Specific

	Nonrecurring Charge
1. Service Establishment Charge	
- Initial Charge	(CR) $ 205.00

	First User ID	Additional User ID
2. User ID Charge		
- Per User ID	$ 8.80	$ .30

	Recurring Charge
3. Screen Charge	
- Per Screen	(CR) $ .15

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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ACCESS SERVICES

(NR) 18. DIRECTLINE-CUSTOM (Continued)

18.8 Rate Regulations (Continued)

2. Recurring

This charge applies specifically to the DirectLine-Custom service.

A. Screen Charge

This charge is applied per screen requested by the customer. A screen contains from 1 to 11 lines of listing information including name, address, and telephone number. However, a screen charge applies whether or not the requested listing information was found.

18.9 Rates and Charges

A. Packet Access

MICROLINK II rates and charges will apply for DirectLine-Custom as set forth in Section 16, preceding.

B. DirectLine-Custom Specific

1. Service Establishment Charge	Nonrecurring Charge	
- Initial Charge	$ 4,152.45	
2. User ID Charge	First User ID	Additional User ID
- Per User ID	$ 8.80	$ .30
3. Screen Charge	Recurring Charge	
- Per Screen	$ .13	

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By: R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES

The following list matches the Telephone Company's Basic Service Element (BSE) names to the industry standard names for each BSE.

Telephone Company Names	Generic Name of ONA Service	
Network Reconfiguration(1)	Network Reconfiguration	(AT)

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

(CT) 19. NETWORK MANAGEMENT SERVICES

The following list matches the Telephone Company's Basic Service Element (BSE) names to the industry standard names for each BSE.

Telephone Company Names	Generic Name of ONA Service
Network Reconfiguration	Network Reconfiguration

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
1st Revised Sheet 1
Replacing Original Sheet 1

ACCESS SERVICES

(C) 19. NETWORK RECONFIGURATION SERVICE

(AT) The following list matches the Telephone Company's Basic Service Element (BSE) names to the industry standard names for each BSE.

Telephone Company Names	Generic Name of ONA Service
(AT) Network Reconfiguration	Network Reconfiguration

(MT)

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Effective: APR 11 1993

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
Original Sheet 1

ACCESS SERVICES

19. NETWORK CONFIGURATION SERVICE

19.1 General Description

Network Reconfiguration Service permits customers to access a database maintained by the Telephone Company to reconfigure their Special Access network. Customers gain database access through the use of a terminal on their premises without going through normal service order procedures.

19.2 Service Description

Network Reconfiguration Service allows customers direct access to, and control of, their DS1 channels and subtending channels without going through normal service order procedures. Network Reconfiguration utilizes a central office cross-connect system for the remote reconfiguration of these channels. The cross-connect devices currently utilized by the Telephone Company for Network Reconfiguration Service are Digital Cross-Connect Systems, (DCSs) which interface only with the DS1 (1.544 Mbps) signal and switch internally at the DS0 rate. Customers can reconfigure their Special Access Service network from their premises, or they can have the Telephone Company perform the reconfigurations.

Customers will access Network Reconfiguration Service by using a terminal on their premises in conjunction with dedicated lines provided for in Sections 7 and 16, preceding, a private line circuit provided for in P.S.C. Mo.-No. 29, Private Line Service Tariff, Digital Link Services Tariff, P.S.C. Mo.-No. 38, Section 3, or in conjunction with a local telephone line with a seven-digit telephone number.

Network Reconfiguration Service is available at those Hubs where Telephone Company cross-connect systems are located. Network Reconfiguration Hub designations are found in the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

Issued: JUN 0 4 1991 Effective: AUG 0 5 1991

By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)(RT)

19.1.1 General Description

Network Reconfiguration Service is a BSE that permits customers to access a database maintained by the Telephone Company to reconfigure their dedicated network. Customers gain database access through the use of a terminal on their premises without going through normal service order procedures.

Network Reconfiguration Service allows customers direct access to, and control of, their DS3 channels, DS1 channels, subtending channels and Internodal Facilities (the facilities that connect a Digital Cross-Connect System (DCS) in one central office with a Digital Cross-Connect System in another Central Office) without going through normal service order procedures. Network Reconfiguration utilizes a central office cross-connect system for the remote reconfiguration of these channels. Customers can reconfigure their dedicated service network from their premises, or they can have the Telephone Company perform the reconfigurations.

Customers will access Network Reconfiguration Service by using a terminal on their premises in conjunction with dedicated lines provided for in Sections 7 and 16, preceding, a private line circuit provided for in P.S.C. Mo.-No. 29, Private Line Service Tariff, Digital Link Services Tariff, P.S.C. Mo.-No. 38, Section 3, or in conjunction with a local telephone line with a seven-digit telephone number.

Network Reconfiguration Service is available at those Hubs where Telephone Company cross-connect systems are located. Network Reconfiguration Hub designations are found in the National Exchange Carrier Association, Inc. Tariff filed with the F.C.C.

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(FC) 19.1.1 General Description

Network Reconfiguration Service is a BSE that permits customers to access a database maintained by the Telephone Company to reconfigure their
(CT) dedicated network. Customers gain database access through the use of a terminal on their premises without going through normal service order procedures.

(RT)

Network Reconfiguration Service allows customers direct access to, and
(AT) control of, their DS3 channels, DS1 channels, subtending channels and
(AT) Internodal Facilities (the facilities that connect a Digital Cross-Connect System (DCS) in one central office with a Digital Cross-Connect System in
(AT) another Central Office) without going through normal service order procedures. Network Reconfiguration utilizes a central office cross-connect system for the remote reconfiguration of these channels.
(RT)(CT) Customers can reconfigure their dedicated service network from their premises, or they can have the Telephone Company perform the reconfigurations.

Customers will access Network Reconfiguration Service by using a terminal on their premises in conjunction with dedicated lines provided for in Sections 7 and 16, preceding, a private line circuit provided for in P.S.C. Mo.-No. 29, Private Line Service Tariff, Digital Link Services Tariff, P.S.C. Mo.-No. 38, Section 3, or in conjunction with a local telephone line with a seven-digit telephone number.

Network Reconfiguration Service is available at those Hubs where Telephone Company cross-connect systems are located. Network Reconfiguration Hub designations are found in the National Exchange Carrier Association, Inc.
Tariff filed with the F.C.C.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
Original Sheet 1.01

ACCESS SERVICES

(MT) 19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.1 General Description

(AT) Network Reconfiguration Service is a BSE that permits customers to access a database maintained by the Telephone Company to reconfigure their Special Access network. Customers gain database access through the use of a terminal on their premises without going through normal service order procedures.

19.2 Service Description

Network Reconfiguration Service allows customers direct access to, and control of, their DS1 channels and subtending channels without going through normal service order procedures. Network Reconfiguration utilizes a central office cross-connect system for the remote reconfiguration of these channels. The cross-connect devices currently utilized by the Telephone Company for Network Reconfiguration Service are Digital Cross-Connect Systems, (DCSs) which interface only with the DS1 (1.544 Mbps) signal and switch internally at the DS0 rate. Customers can reconfigure their Special Access Service network from their premises, or they can have the Telephone Company perform the reconfigurations.

Customers will access Network Reconfiguration Service by using a terminal on their premises in conjunction with dedicated lines provided for in Sections 7 and 16, preceding, a private line circuit provided for in P.S.C. Mo.-No. 29, Private Line Service Tariff, Digital Link Services Tariff, P.S.C. Mo.-No. 38, Section 3, or in conjunction with a local telephone line with a seven-digit telephone number.

Network Reconfiguration Service is available at those Hubs where Telephone Company cross-connect systems are located. Network Reconfiguration Hub designations are found in the National Exchange Carrier Association, Inc. (MT) Tariff filed with the F.C.C.

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.2 Network Reconfiguration Options

Two network reconfiguration options are available to Network Reconfiguration customers:

- On-demand
- Reservation

The on-demand option will make immediate changes to the network, while the reservation option will be executed at a specified time designated by the customer. Both types of reconfigurations are available whether the customer performs the reconfigurations or requests the Telephone Company to perform them.

19.1.3 Network Reconfiguration Functions

Network Reconfiguration Services provides the following functions:

A. Routing/Rerouting

The routing feature allows customers to select the routes that will be used to connect their circuits between DCSs. The route selection process can be controlled by various parameters according to the customer's needs. Rerouting of circuits off of a failed internodal facility to a working one is also available.

B. Renaming

Renaming permits customers to rename their network locations, circuits and facilities.

C. Special Day Definition

Special day definition gives customers the capability to specify circuit reconfiguration on special dates, e.g., payday, holidays.

D. Resource Verification

Resource verification allows customers to verify the resource availability for the reservation period in their reconfiguration request prior to the system's confirmation or denial of the request.

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(RT)

(FC) 19.1.2 Network Reconfiguration Options

Two network reconfiguration options are available to Network Reconfiguration customers:

- On-demand
- Reservation

The on-demand option will make immediate changes to the network, while the reservation option will be executed at a specified time designated by the customer. Both types of reconfigurations are available whether the customer performs the reconfigurations or requests the Telephone Company to perform them.

(FC) 19.1.3 Network Reconfiguration Functions

Network Reconfiguration Services provides the following functions:

(AT) A. Routing/Rerouting

(CT) The routing feature allows customers to select the routes that will be used to connect their circuits between DCSs. The route selection process can be controlled by various parameters according to the customer's needs. Rerouting of circuits off of a failed internodal facility to a
(CT) working one is also available.

B. Renaming

Renaming permits customers to rename their network locations, circuits and facilities.

C. Special Day Definition

Special day definition gives customers the capability to specify circuit reconfiguration on special dates, e.g., payday, holidays.

D. Resource Verification

Resource verification allows customers to verify the resource availability for the reservation period in their reconfiguration request prior to the system's confirmation or denial of the request.

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Access Services Tariff
Section 19
1st Revised Sheet 2
Replacing Original Sheet 2

ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.2 Service Description-(Continued)

19.2.1 Network Reconfiguration Options

Two network reconfiguration options are available to Network Reconfiguration customers:

- On-demand

- Reservation

The on-demand option will make immediate changes to the network, while the reservation option will be executed at a specified time designated by the customer. Both types of reconfigurations are available whether the customer performs the reconfigurations or requests the Telephone Company to perform them.

(CT) 19.2.2 Network Reconfiguration Functions

(CT) Network Reconfiguration Services provides the following functions:

(RT) A. Routing

(RT) Routing allows customers to reroute dedicated circuits to different locations at DS0 or DS1 bandwidth.

(RT) B. Renaming

(RT) Renaming permits customers to rename their network locations, circuits and facilities.

(RT) C. Special Day Definition

(RT) Special day definition gives customers the capability to specify circuit reconfiguration on special dates, e.g., payday, holidays.

(RT) D. Resource Verification

(RT) Resource verification allows customers to verify the resource availability for the reservation period in their reconfiguration request prior to the system's confirmation or denial of the request.

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Access Services Tariff
Section 19
Original Sheet 2

ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.2 Service Description-(Continued)

19.2.1 Network Reconfiguration Options

Two network reconfiguration options are available to Network Reconfiguration customers:

- On-demand

- Reservation

The on-demand option will make immediate changes to the network, while the reservation option will be executed at a specified time designated by the customer. Both types of reconfigurations are available whether the customer performs the reconfigurations or requests the Telephone Company to perform them.

19.2.2 Network Reconfiguration Features

Network Reconfiguration Services provides the following features:

A. Routing Feature

The routing feature allows customers to reroute dedicated circuits to different locations at DS0 or DS1 bandwidth.

B. Renaming Feature

The renaming feature permits customers to rename their network locations, circuits and facilities.

C. Special Day Definition Feature

The special day definition feature gives customers the capability to specify circuit reconfiguration on special dates, e.g., payday, holidays.

D. Resource Verification Feature

The resource verification feature allows customers to verify the resource availability for the reservation period in their reconfiguration request prior to the system's confirmation or denial of the request.

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.3 Network Reconfiguration Functions-(Continued)

E. Transaction Log

Transaction log provides customers a data base log that contains every transaction involving reconfigurations.

F. Multilevel Security

Multilevel security eliminates the outside entry into a customer's circuit network arrangement inventory.

G. Compatibility Table

Compatibility table permits customers to view the allowable access line combinations that can be used with Network Reconfiguration Service.

H. Path Priority

Path priority gives customers the ability to arrange their circuit paths in order of priority when multiple routes exist.

I. Reservation Summary Screen

Reservation summary screen allows customers to view the status of their reconfiguration reservations.

J. Simple Commands and Screens

Simple commands and screens permits customers to use simple commands on screens with easy to use menus.

K. MACRO Command/Network Modeling

MACRO command/network modeling gives customers the ability to initiate with one command, multiple two-point cross-connections. Customers can build separate network models, such as daytime models, nighttime models, and disaster recovery models and invoke their activation or switch from one to the other.

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(RT)

(FC) 19.1.3 Network Reconfiguration Functions-(Continued)

E. Transaction Log

Transaction log provides customers a data base log that contains every transaction involving reconfigurations.

F. Multilevel Security

Multilevel security eliminates the outside entry into a customer's circuit network arrangement inventory.

G. Compatibility Table

Compatibility table permits customers to view the allowable access line combinations that can be used with Network Reconfiguration Service.

H. Path Priority

Path priority gives customers the ability to arrange their circuit paths in order of priority when multiple routes exist.

I. Reservation Summary Screen

Reservation summary screen allows customers to view the status of their reconfiguration reservations.

J. Simple Commands and Screens

Simple commands and screens permits customers to use simple commands on screens with easy to use menus.

K. MACRO Command/Network Modeling

MACRO command/network modeling gives customers the ability to initiate with one command, multiple two-point cross-connections. Customers can build separate network models, such as daytime models, nighttime models, and disaster recovery models and invoke their activation or switch from one to the other.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
1st Revised Sheet 3
Replacing Original Sheet 3

ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.2 Service Description-(Continued)

(CT) 19.2.2 Network Reconfiguration Functions-(Continued)

(RT) E. Transaction Log

(RT) Transaction log provides customers a data base log that contains every transaction involving reconfigurations.

(RT) F. Multilevel Security

(RT) Multilevel security eliminates the outside entry into a customer's circuit network arrangement inventory.

(RT) G. Compatibility Table

(RT) Compatibility table permits customers to view the allowable access line combinations that can be used with Network Reconfiguration Service.

(RT) H. Path Priority

(RT) Path priority gives customers the ability to arrange their circuit paths in order of priority when multiple routes exist.

(RT) I. Reservation Summary Screen

(RT) Reservation summary screen allows customers to view the status of their reconfiguration reservations.

(RT) J. Simple Commands and Screens

(RT) Simple commands and screens permits customers to use simple commands on screens with easy to use menus.

(RT) K. MACRO Command/Network Modeling

(RT) MACRO command/network modeling gives customers the ability to initiate with one command, multiple two-point cross-connections. Customers can build separate network models, such as daytime models, nighttime models, and disaster recovery models and invoke their activation or switch from one to the other.

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ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.2 Service Description-(Continued)

19.2.2 Network Reconfiguration Features-(Continued)

E. Transaction Log Feature

The transaction log feature provides customers a data base log that contains every transaction involving reconfigurations.

F. Multilevel Security Feature

The multilevel security feature eliminates the outside entry into a customer's circuit network arrangement inventory.

G. Compatibility Table Feature

The compatibility table feature permits customers to view the allowable access line combinations that can be used with Network Reconfiguration Service.

H. Path Priority Feature

The path priority feature gives customers the ability to arrange their circuit paths in order of priority when multiple routes exist.

I. Reservation Summary Screen Feature

The reservation summary screen feature allows customers to view the status of their reconfiguration reservations.

J. Simple Commands and Screens Feature

The simple commands and screens feature permits customers to use simple commands on screens with easy to use menus.

K. MACRO Command/Network Modeling Feature

The MACRO command/network modeling feature gives customers the ability to initiate with one command, multiple two-point cross-connections. Customers can build separate network models, such as daytime models, nighttime models, and disaster recovery models and invoke their activation or switch from one to the other.

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.3 Network Reconfiguration Functions-(Continued)

L. Variable Bandwidth

Variable bandwidth supports scheduled reconfiguration which allows for the interchangeable use of a DS1 as either a full DS1 or one or more subtending channels.

19.1.4 Technical Specifications

Services that are cross-connected by Network Reconfiguration Service must have identical technical characteristics to ensure compatibility and proper operation, e.g., Data-to-Data, Voice-to-Voice.

Network Reconfiguration Service specifications are delineated in Technical Reference TR-TSY-000366.

19.1.5 Rate Regulations

This section contains a description of the rate elements applicable to Network Reconfiguration Service. Rate applications specific to this service are also included.

A. Rate Element Descriptions

1. Service Establishment

The Service Establishment charge applies per customer database setup. The customer database setup is a grid, built by the Telephone Company, that contains all the circuits the customer will be able to control and reconfigure. Security, as well as circuit inventory, is built into the grid, permitting the customer control of its own circuits. Also included is the provisioning of customer training. This charge includes the connection of the initial circuits.

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(RT)

(FC) 19.1.3 Network Reconfiguration Functions-(Continued)

L. Variable Bandwidth

Variable bandwidth supports scheduled reconfiguration which allows for the interchangeable use of a DS1 as either a full DS1 or one or more subtending channels.

(FC) 19.1.4 Technical Specifications

Services that are cross-connected by Network Reconfiguration Service must have identical technical characteristics to ensure compatibility and proper operation, e.g., Data-to-Data, Voice-to-Voice.

Network Reconfiguration Service specifications are delineated in Technical Reference TR-TSY-000366.

(FC) 19.1.5 Rate Regulations

This section contains a description of the rate elements applicable to Network Reconfiguration Service. Rate applications specific to this service are also included.

(FC) A. Rate Element Descriptions

(FC) 1. Service Establishment

The Service Establishment charge applies per customer database setup. The customer database setup is a grid, built by the Telephone Company, that contains all the circuits the customer will be able to control and reconfigure. Security, as well as circuit inventory, is built into the grid, permitting the customer control of its own circuits. Also
(AT) included is the provisioning of customer training. This charge
(AT) includes the connection of the initial circuits.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
1st Revised Sheet 4
Replacing Original Sheet 4

ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.2 Service Description-(Continued)

(CT) 19.2.2 Network Reconfiguration Functions-(Continued)

(RT) L. Variable Bandwidth

(RT) Variable bandwidth supports scheduled reconfiguration which allows for the interchangeable use of a DS1 as either a full DS1 or one or more subtending channels.

19.3 Technical Specifications

Services that are cross-connected by Network Reconfiguration Service must have identical technical characteristics to ensure compatibility and proper operation, e.g., Data-to-Data, Voice-to-Voice.

Network Reconfiguration Service specifications are delineated in Technical Reference TR-TSY-000366.

19.4 Rate Regulations

This section contains a description of the rate elements applicable to Network Reconfiguration Service. Rate applications specific to this service are also included.

19.4.1. Rate Element Descriptions

A. Service Establishment

The Service Establishment charge applies per customer database setup. The customer database setup is a grid, built by the Telephone Company, that contains all the circuits the customer will be able to control and reconfigure. Security, as well as circuit inventory, is built into the grid, permitting the customer control of its own circuits. Also included is the provisioning of customer training.

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ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.2 Service Description-(Continued)

19.2.2 Network Reconfiguration Features-(Continued)

L. Variable Bandwidth Feature

The variable bandwidth feature supports scheduled reconfiguration which allows for the interchangeable use of a DS1 as either a full DS1 or one or more subtending channels.

19.3 Technical Specifications

Services that are cross-connected by Network Reconfiguration Service must have identical technical characteristics to ensure compatibility and proper operation, e.g., Data-to-Data, Voice-to-Voice.

Network Reconfiguration Service specifications are delineated in Technical Reference TR-TSY-000366.

19.4 Rate Regulations

This section contains a description of the rate elements applicable to Network Reconfiguration Service. Rate applications specific to this service are also included.

19.4.1. Rate Element Descriptions

A. Service Establishment

The Service Establishment charge applies per customer database setup. The customer database setup is a grid, built by the Telephone Company, that contains all the circuits the customer will be able to control and reconfigure. Security, as well as circuit inventory, is built into the grid, permitting the customer control of its own circuits. Also included is the provisioning of customer training.

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.5 Rate Regulations-(Continued)

A. Rate Element Descriptions-(Continued)

2. Database Modification

This charge applies (per customer contact, or request) each time the customer requests a subsequent modification of its database grid. A modification can be an addition or deletion of circuits terminating on the cross-connect system, or a rearrangement of the database grid, e.g., an outside move, the rearrangement of the customer's routing priority, or change in application of a DS1 (from all data to all voice).

3. Port Charges

Port Charges apply per port termination on the cross-connect system.
There are three types of charges:

- DSO Port Charge - applies per channel port termination for all Special Access Services (other than High Capacity Service or DS3 Service) per circuit on the cross-connect system.

- DS1 Port Charge - applies for 1.544 Mbps channel port termination per circuit on the cross-connect system.

- DS3 Port Charge - applies for 45 Mbps channel port termination per circuit on the cross-connect system.

4. Reconfiguration Charges

Full DS3 or DS1 bandwidth, sub DS3 or DS1 bandwidth, contiguous DS0 groupings (up to and including all 24 DS0s within a DS1), contiguous DS1 groupings (up to and including all 28 DS1s within a DS3), or individual DS0 or DS1 arrangements are as specified by the customer at the time NRS service is established. This specification limits the parameters within which the service can be reconfigured and defines how the reconfiguration charges will apply. If reconfiguration is at the DS0, DS1, or DS3 level, one reconfiguration charges applies per DS0, DS1, or DS3 circuit reconfigured; if reconfiguration is for a previously defined contiguous group of DS0s, one reconfiguration charges applies per group of DS0s reconfigured; etc.

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(FC) 19.1.5 Rate Regulations-(Continued)

(FC) A. Rate Element Descriptions-(Continued)

(FC) 2. Database Modification

This charge applies (per customer contact, or request) each time the customer requests a subsequent modification of its database grid. A modification can be an addition or deletion of circuits terminating on the cross-connect system, or a rearrangement of the database grid, e.g., an outside move, the rearrangement of the customer's routing priority, or change in application of a DS1 (from all data to all voice).

(FC) 3. Port Charges

Port Charges apply per port termination on the cross-connect system.
(CT) There are three types of charges:

(CT) - DSO Port Charge - applies per channel port termination for all Special Access Services (other than High
(AT) Capacity Service or DS3 Service) per circuit on
(AT) the cross-connect system.

(AT) - DS1 Port Charge - applies for 1.544 Mbps channel port termination
(AT) per circuit on the cross-connect system.

(AT) - DS3 Port Charge - applies for 45 Mbps channel port termination per
(AT) circuit on the cross-connect system.

(FC) 4. Reconfiguration Charges

(AT) Full DS3 or DS1 bandwidth, sub DS3 or DS1 bandwidth, contiguous DS0 groupings (up to and including all 24 DS0s within a DS1), contiguous DS1 groupings (up to and including all 28 DS1s within a DS3), or individual DS0 or DS1 arrangements are as specified by the customer at the time NRS service is established. This specification limits the parameters within which the service can be reconfigured and defines how the reconfiguration charges will apply. If reconfiguration is at the DS0, DS1, or DS3 level, one reconfiguration charges applies per DS0, DS1, or DS3 circuit reconfigured; if reconfiguration is for a previously defined contiguous group of DS0s, one reconfiguration
(AT) charges applies per group of DS0s reconfigured; etc.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.4 Rate Regulations-(Continued)

19.4.1 Rate Element Descriptions-(Continued)

B. Database Modification

This charge applies (per customer contact, or request) each time the customer requests a subsequent modification of its database grid. A modification can be an addition or deletion of circuits terminating on the cross-connect system, or a rearrangement of the database grid, e.g., an outside move, the rearrangement of the customer's routing priority, or change in application of a DS1 (from all data to all voice).

C. Port Charges

Port Charges apply per port termination on the cross-connect system. There are two types of charges:

- Channel Port Charge - channel port termination for all Special Access Services other than High Capacity Service

- DS1 Port Charge - 1.544 Mbps channel port termination

D. Reconfiguration Charges

A reconfiguration charge applies per cross-connect and/or disconnect successfully completed in a DCS per request. There are two types of reconfiguration charges:

- For individual reservation or demand requests performed by the customer, or for each segment of a model request performed by the customer or Telephone Company.

- For individual reservation or demand requests performed by the Telephone Company at the customer's request.

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.5 Rate Regulations-(Continued)

A. Rate Element Descriptions-(Continued) (AT)

4. Reconfiguration Charges-(Continued)

One reconfiguration charge applies per cross-connect and/or disconnect successfully completed in a DCS per request. There are two types of reconfiguration charges:

- For individual reservation or demand requests performed by the customer, or for each segment of a model request performed by the customer or Telephone Company.

- For individual reservation or demand requests performed by the Telephone Company at the customer's request.

For example, if a customer wishes to reconfigure a circuit that is routed through two NRS Hub offices (the existing circuit being routed between customer premises A through the two NRS Hub offices to customer premises B, and the customer wishes to reconfigure the circuit to be rerouted between customer premises A through the two NRS Hub offices to customer premises C), two transactions would occur: one transaction to disconnect the circuit between premises A and B, and one transaction to reconnect the circuit between premises A and C. The customer would be billed four NRS charges: two for disconnecting the circuit (one for each disconnect at each NRS Hub), and two for reconnecting the circuit (one for each reconnect at each NRS Hub).

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)

19.1.5 Rate Regulations-(Continued)

(AT) 4. Reconfiguration Charges-(Continued)

(MT) One reconfiguration charge applies per cross-connect and/or disconnect successfully completed in a DCS per request. There are two types of reconfiguration charges:

- For individual reservation or demand requests performed by the customer, or for each segment of a model request performed by the customer or Telephone Company.

- For individual reservation or demand requests performed by the
(MT) Telephone Company at the customer's request.

(AT) For example, if a customer wishes to reconfigure a circuit that is routed through two NRS Hub offices (the existing circuit being routed between customer premises A through the two NRS Hub offices to customer premises B, and the customer wishes to reconfigure the circuit to be rerouted between customer premises A through the two NRS Hub offices to customer premises C), two transactions would occur: one transaction to disconnect the circuit between premises A and B, and one transaction to reconnect the circuit between premises A and C. The customer would be billed four NRS charges: two for disconnecting the circuit (one for each disconnect at each NRS Hub), and two for reconnecting the circuit (one for each reconnect at each
(AT) NRS Hub).

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.5 Rate Regulations-(Continued)

B. Rate Applications

When Network Reconfiguration Service is used in conjunction with Special Access Services, the applicable rate elements per circuit are set forth in Section 7, Paragraph 7.5, preceding:

- One Channel Termination (CT) applies between the customer premises and service wire center.

- Channel Mileage, if applicable, applies between the serving wire center and the Telephone Company Network Reconfiguration Hub, or between two Network Reconfiguration Hubs.

Nonrecurring charges, as set forth in Section 7, Paragraph 7.4.1, preceding, are also applicable when existing channels must be reterminated in a Network Reconfiguration Port to provide Network Reconfiguration Service.

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(FC) 19.1.5 Rate Regulations-(Continued)

(FC) B. Rate Applications

When Network Reconfiguration Service is used in conjunction with Special Access Services, the applicable rate elements per circuit are set forth in Section 7, Paragraph 7.5, preceding:

- One Channel Termination (CT) applies between the customer premises and service wire center.

- Channel Mileage, if applicable, applies between the serving wire center and the Telephone Company Network Reconfiguration Hub, or between two Network Reconfiguration Hubs. (RT)

Nonrecurring charges, as set forth in Section 7, Paragraph 7.4.1, preceding, are also applicable when existing channels must be reterminated in a Network Reconfiguration Port to provide Network Reconfiguration Service.

(RT)
|
|
(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.4 State Regulations-(Continued)

19.4.2 Rate Applications

When Network Reconfiguration Service is used in conjunction with Special Access Services, the applicable rate elements per circuit are set forth in Section 7, Paragraph 7.5, preceding:

- One Channel Termination (CT) applies between the customer premises and service wire center.

- Channel Mileage, if applicable, applies between the serving wire center and the Telephone Company Network Reconfiguration Hub, or between two Network Reconfiguration Hubs.(1)

Nonrecurring charges, as set forth in Section 7, Paragraph 7.4.1, preceding, are also applicable when existing channels must be reterminated in a Network Reconfiguration Port to provide Network Reconfiguration Service.

One Network Reconfiguration Port Charge applies per circuit at the Network Reconfiguration Hub. In addition, two Port Charges apply per DS1 circuit connecting the Hubs, one port charge at each termination of the DS1.

(1) The Channel Mileage between two Network Reconfiguration Hubs must be at 1.544 Mbps.

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

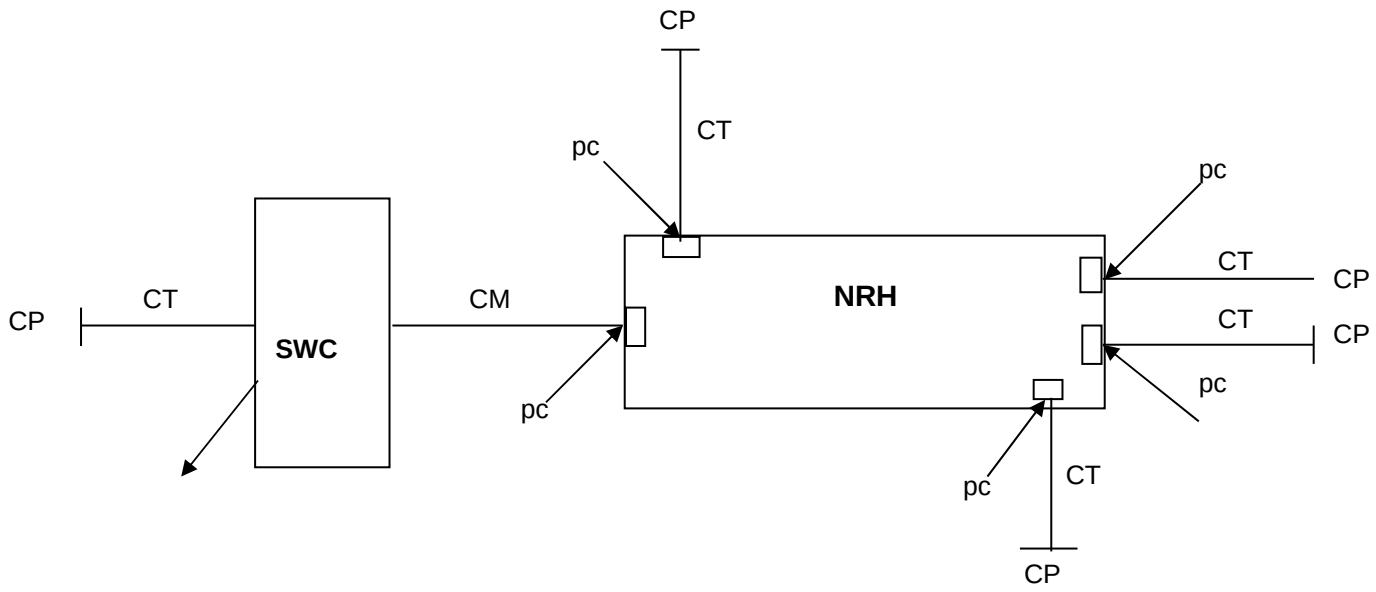
19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.5 Rate Regulations-(Continued)

C. Service Configurations

The following diagram depicts a typical Network Reconfiguration Network with its applicable rate elements:



CM = Channel Mileage
CP = Customer Premises
CT = Channel Termination
NRH = Network Reconfiguration Hub
PC = Port Charge
SWC = Serving Wire Center

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

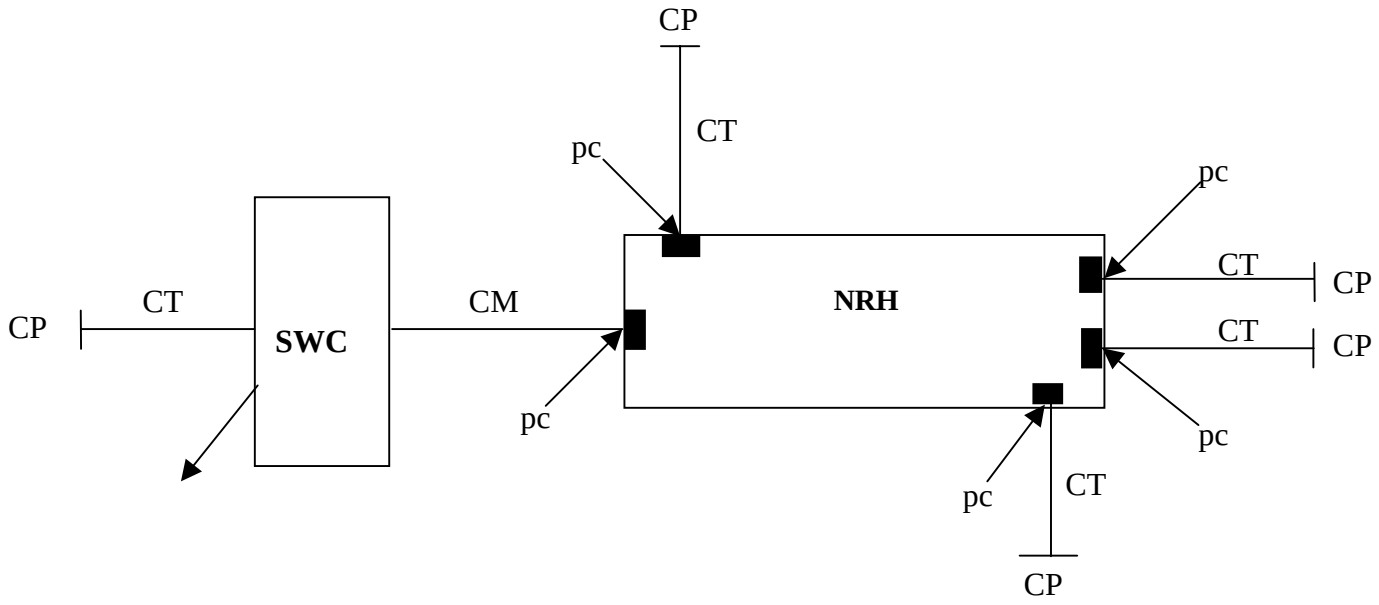
(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(FC) 19.1.5 Rate Regulations-(Continued)

(FC) C. Service Configurations

The following diagram depicts a typical Network Reconfiguration Network with its applicable rate elements:



CM	=	Channel Mileage
CP	=	Customer Premises
CT	=	Channel Termination
NRH	=	Network Reconfiguration Hub
PC	=	Port Charge
SWC	=	Serving Wire Center

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

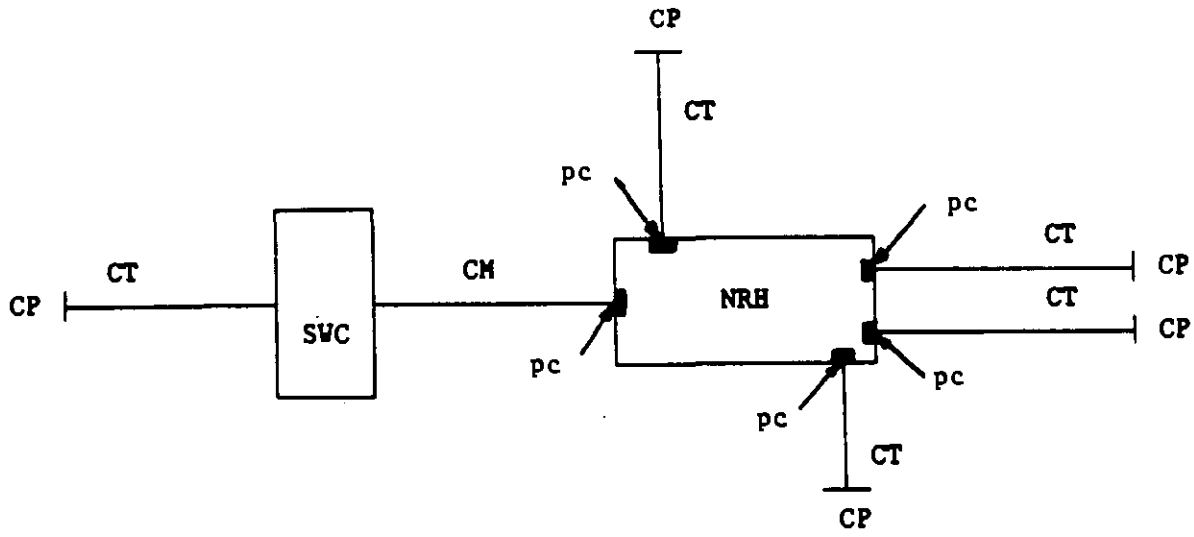
ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.4 Rate Regulations-(Continued)

19.4.3 Service Configurations

The following diagram depicts a typical Network Reconfiguration Network with its applicable rate elements:



CM = Channel Mileage
CP = Customer Premises
CT = Channel Termination
NRH = Network Reconfiguration Hub
PC = Port Charge
SWC = Serving Wire Center

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ACCESS SERVICES

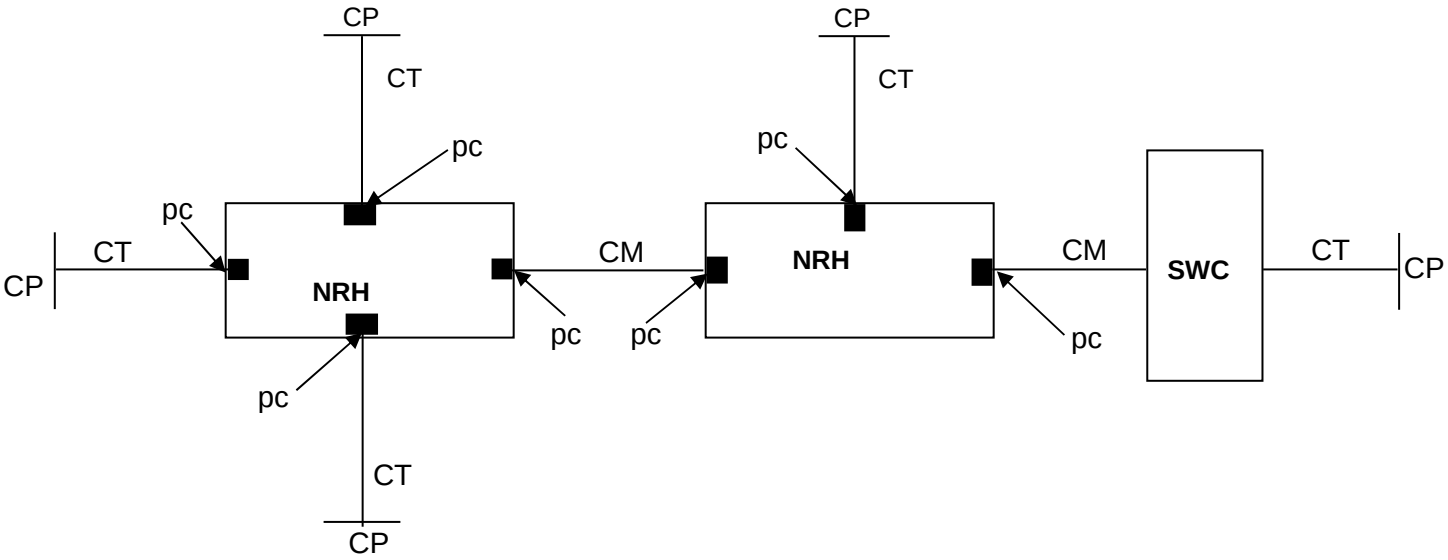
19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.5 Rate Regulations-(Continued)

C. Service Configurations-(Continued) (AT)

The following diagram depicts a Network Reconfiguration Network utilizing two Network Reconfiguration Hubs:



CM	=	Channel Mileage
CP	=	Customer Premises
CT	=	Channel Termination
NRH	=	Network Reconfiguration Hub
PC	=	Port Charge
SWC	=	Serving Wire Center

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

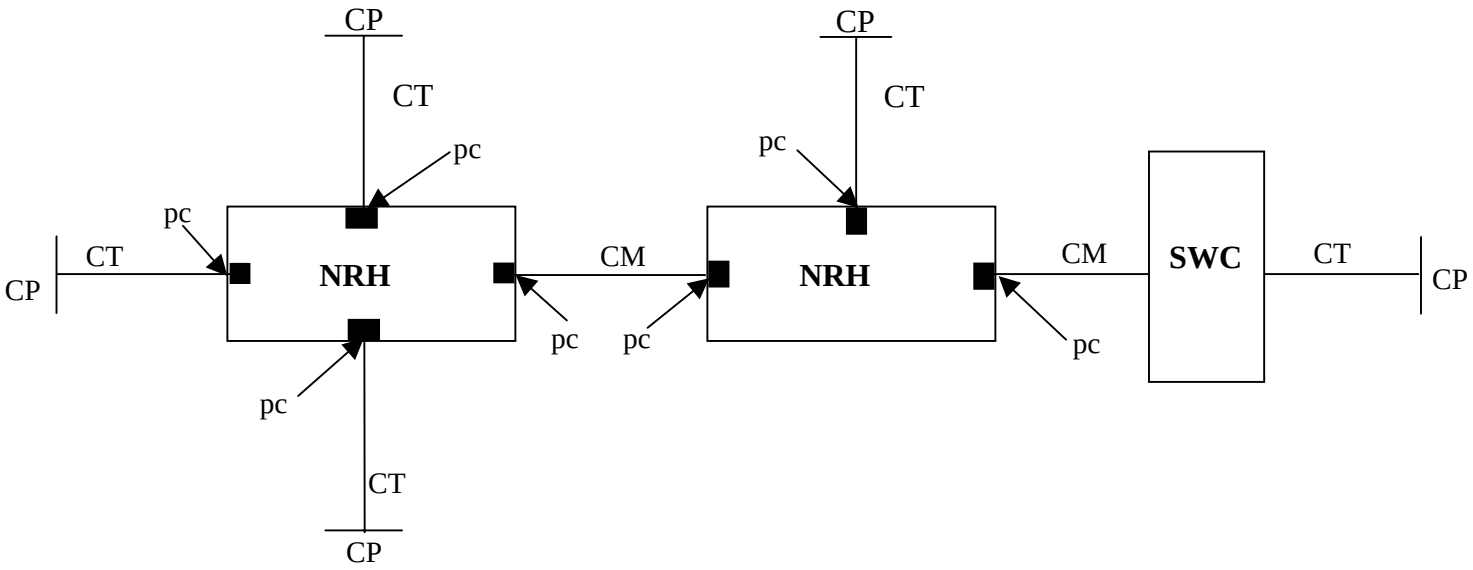
(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(FC) 19.1.5 Rate Regulations-(Continued)

(FC) C. Service Configurations

The following diagram depicts a Network Reconfiguration Network utilizing two Network Reconfiguration Hubs:



CM	=	Channel Mileage
CP	=	Customer Premises
CT	=	Channel Termination
NRH	=	Network Reconfiguration Hub
PC	=	Port Charge
SWC	=	Serving Wire Center

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Access Services Tariff
Section 19
Original Sheet 8

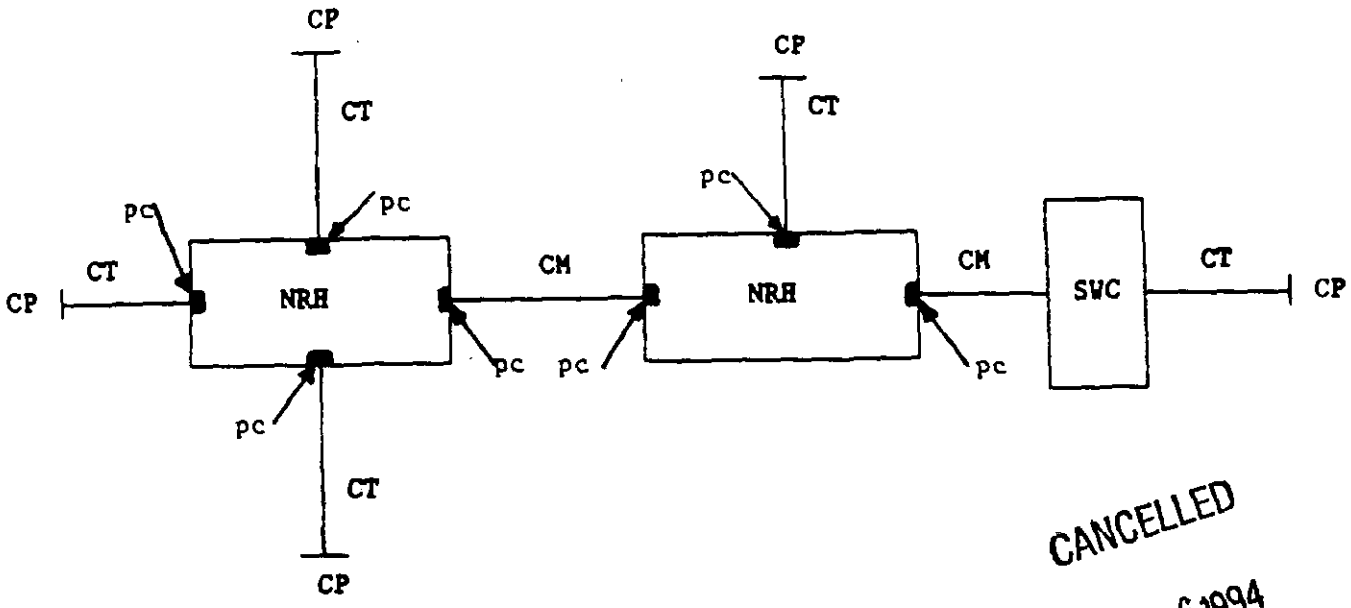
ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.4 Rate Regulations-(Continued)

19.4.3 Service Configurations-(Continued)

The following diagram depicts a Network Reconfiguration Network utilizing two Network Reconfiguration Hubs:



CM = Channel Mileage
CP = Customer Premises
CT = Channel Termination
NRH = Network Reconfiguration Hub
PC = Port Charge
SWC = Serving Wire Center

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Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.1 Network Reconfiguration Service-(Continued)(1) (AT)

19.1.6 Rates and Charges

	USOC	Monthly Rates	Nonrecurring Charges
A. Service Establishment			
- Per Database Setup	FN6DD	None	$1,722.00
B. Database Modification, - per request	FN6DC	None	$80.00
C. Port Charges			
- DS0 Port	PT5	$11.03	$20.00
- DS1 Port	PT6	$45.14	$43.00
- DS3 Port	D3D	$500.00	$32.00
D. Reconfiguration Charges			
Per Cross-Connect and/or Disconnect Successfully Completed			
- Per Reconfiguration Performed by Customer; or Each Segment of a Model Request Performed by Customer or Telephone Company		None	$1.25
- Per Reconfiguration Performed by the Telephone Company at Customer Request		None	$8.00

(1) Effective December 15, 2018, Network Reconfiguration Service (NRS) will no longer be available for purchase by new or existing customers, and NRS service agreements may no longer be renewed. Effective July 31, 2022, the Telephone Company will no longer accept new requests for physical changes to existing service arrangements including the upgrade or downgrade of access/port speed, installation of new service, or moves to different service addresses. (AT) (AT)

ACCESS SERVICES

(AT) 19. NETWORK MANAGEMENT SERVICES-(Continued)

(FC) 19.1 Network Reconfiguration Service-(Continued)

(FC) 19.1.6 Rates and Charges

(RT)

		USOC	Monthly Rates	Nonrecurring Charges
	A. Service Establishment			
(AT)	- Per Database Setup	FN6DD	None	(CR)$1,722.00
(AT)	B. Database Modification, - per request	FN6DC	None	(CR)$ 80.00
	C. Port Charges			
(CT)(AT)	- DS0 Port	PT5	(CR)$ 11.03	(CR)$ 20.00
(AT)	- DS1 Port	PT6	(CR)$ 45.14	(CR)$ 43.00
(AT)	- DS3 Port	D3D	(NR)$500.00	(NR)$ 32.00
	D. Reconfiguration Charges			
(AT) | (AT)	Per Cross-Connect and/or Disconnect Successfully Completed			
(AT) | | | (AT)	- Per Reconfiguration Performed by Customer; or Each Segment of a Model Request Performed by Customer or Telephone Company		None	(CR)$ 1.25
	- Per Reconfiguration Performed by the Telephone Company at Customer Request		None	(CR)$ 8.00

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By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
Original Sheet 9

ACCESS SERVICES

19. NETWORK RECONFIGURATION SERVICE-(Continued)

19.5 Rates and Charges

19.5.1 Network Reconfiguration Service Rate Elements

	USOC	Monthly Rates	Nonrecurring Charges
A. Service Establishment			
- Per Database Setup		None	$1,851.00
B. Database Modification, - per request		None	$ 64.00
C. Port Charges			
- Channel Port		$ 7.55	$ 8.00
- DS1 Port		$33.25	$ 26.00
D. Reconfiguration Charges			
- Per Reconfiguration Performed by Customer		None	$ 2.00
- Per Reconfiguration Performed by the Telephone Company at Customer Request		None	$ 5.00

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By R. D. BARRON, President-Missouri Division
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
1st Revised Sheet 10
Replacing Original Sheet 10

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service

19.2.1 General

Transport Resource Management (TRM) is a bandwidth management service that provides integrated data, voice, and video multiplexing with subrate multiplexing, voice compression, voice and data bridging, fault tolerance, and advanced customer network management capability. TRM interfaces with the following access services: Voice Grade, MegaLink Data and High Capacity. These access services are found in Section 7 of this tariff. (RT)

Customers may elect to manage their TRM service via a workstation on their premises, or may order Network Modifications from the Telephone Company.

TRM is provided at those TRM Service Hub designations listed in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

19.2.2 Standard Features

A. Intelligent Bandwidth Management

TRM manages bandwidth at 44.764 Mbps (DS3), 1.544 Mbps (DS1), NX64 kbps and 64 kbps (DS0). Subrate multiplexing is an optional feature and is available as set forth in Section 19.2.3(A). Integrated voice, data and video multiplexing are provided with drop, insert and bypass multiplexing capabilities. Circuit level switching is supported between all interfacing services at the DS0 level with very low transit delay. Non-contiguous bandwidth can be allocated in support of transmission rates above DS0.

B. Fault Tolerance

TRM monitors network occurrences and provides recovery from service-affecting network faults. In the event of a network disruption between TRM Service Hubs, TRM isolates the fault to the lowest network element possible and automatically reroutes traffic around any failed network elements.

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By KAREN E. JENNINGS, President-Missouri
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St. Louis, Missouri

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service

19.2.1 General

Transport Resource Management (TRM) is a bandwidth management service that provides integrated data, voice, and video multiplexing with subrate multiplexing, voice compression, voice and data bridging, fault tolerance, and advanced customer network management capability. TRM interfaces with the following access services: Voice Grade, MegaLink Data, Business Video I, Business Video II and High Capacity. These access services are found in Section 7 of this tariff.

Customers may elect to manage their TRM service via a workstation on their premises, or may order Network Modifications from the Telephone Company.

TRM is provided at those TRM Service Hub designations listed in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

19.2.2 Standard Features

A. Intelligent Bandwidth Management

TRM manages bandwidth at 44.764 Mbps (DS3), 1.544 Mbps (DS1), Nx64 kbps and 64 kbps (DS0). Subrate multiplexing is an optional feature and is available as set forth in Section 19.2.3(A). Integrated voice, data and video multiplexing are provided with drop, insert and bypass multiplexing capabilities. Circuit level switching is supported between all interfacing services at the DS0 level with very low transit delay. Non-contiguous bandwidth can be allocated in support of transmission rates above DS0.

B. Fault Tolerance

TRM monitors network occurrences and provides recovery from service-affecting network faults. In the event of a network disruption between TRM Service Hubs, TRM isolates the fault to the lowest network element possible and automatically reroutes traffic around any failed network elements.

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By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone
St. Louis, Missouri

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.2 Standard Features-(Continued)

B. Fault Tolerance-(Continued)

Services may be rerouted along a customer predefined alternate path, or may be automatically rerouted based upon service priorities and routing attributes associated with the individual services. Service priority and routing attributes are established by the customer. Service priority controls the order in which services are re-established. Routing attributes allow services to be biased toward or away from specific alternate paths.

C. Customer Network Management

TRM customer network management enables the customer to configure, operate, and monitor their TRM network. Specific management capabilities include reconfiguration of routing and bandwidth, view of the customer's traffic data, time-of-day event handling, alarms and trouble isolation.

Customers may elect to manage TRM services via a workstation on their premises. An extensive graphical user interface is available to simplify the network management process for the customer.

Customers must allocate a DS0 channel between TRM Service Hubs in support of these network management capabilities.

19.2.3 Optional Features

A. Subrate Multiplexing

Subrate multiplexing permits customers to switch digital data services in increments below DS0. Full multiplexing flexibility, including drop and insertion, is provided for 2.4, 4.8, and 9.6 kbps MegaLink Data services and other data rates such as 14.4 and 19.2 kbps (1). Subrate multiplexing of Analog/Voice Grade data services is not supported. Non-contiguous bandwidth can be assigned to individual subrate channels for maximum bandwidth usage.

(1) For data rates not supported in Section 7 of this tariff, those data rates must be transported via a non-channelized DS1.

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.3 Optional Features-(Continued)

B. Voice Compression

Adaptive Differential Pulse Code Modulation (ADPCM) provides a two-to-one (2:1) compression of voice channels with minimal reduction in voice quality. Based on the customer's network configuration, up to 44 compressed voice channels can be accommodated on a single DS1 channel across the transport network.

C. Voice and Data Bridging

Voice and data bridging supports voice conference bridging, multipoint bridging of Analog/Voice Grade data services, and multidrop data bridging of digital data services. Voice and data bridging permits many services to share the same transport bandwidth.

D. Frame Relay

With the Frame Relay option, TRM provides frame routing, dynamic bandwidth allocation, congestion control and frame error checking for up to 30 Frame Relay-compatible data streams. DS1, NX64 kbps and DS0 Frame Relay data channels can be accommodated.

19.2.4 Rate Regulations

This section contains information related to the rate elements applicable to TRM. Rates and charges associated with the rate elements are listed in 19.2.5.

A. Rate Element Description

1. Service Arrangement Charge

A Service Arrangement Charge applies at each TRM Service Hub where service is requested. Service Arrangements are provided on a month-to-month basis or for fixed service periods of 1, 3 or 5 years. Fixed service period agreements allow the customer to order TRM service with the assurance that during the fixed service period, the monthly rates for the service will not exceed the levels in effect at the time the service was established.

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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Section 19
Original Sheet 13

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

A. Rate Element Description-(Continued)

1. Service Arrangement Charge-(Continued)

A customer's initial order for a Service Arrangement must be for a 1, 3 or 5 year fixed service period. At the end of the fixed service period, the customer may elect to continue service under the month-to-month option, contract for another 1, 3 or 5 year period, or terminate the service.

Each Service Arrangement has the capacity to manage a fixed number of access services. If a customer exceeds the capacity of a Service Arrangement, additional Services Arrangements may be ordered, up to a maximum of eight (8) Service Arrangements per TRM Service Hub. These Service Arrangements will interoperate as a single higher capacity Service Arrangement. No interworking or switching restrictions will be encountered between Service Arrangements at the same TRM Service Hub.

There are two types of Service Arrangements available as described below:

(a) Standard Arrangement

The Standard Arrangement supports up to 30 DS1 access services, or up to 720 DS0 access services, or any combination of these access services that do not together exceed the capacity of the arrangement.

Use of subrate multiplexing, voice and data bridging or frame relay optional features (as set forth in 19.2.4(A)(4)) each consume resources of the Standard Arrangement, thereby reducing the capacity for access services. Each optional feature reduces the Standard Arrangement capacity by 2 DS1 access services or 48 DS0 access services.

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By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone
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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
1st Revised Sheet 14
Replacing Original Sheet 14

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

A. Rate Element Description-(Continued)

1. Service Arrangement Charge-(Continued)

b. DS3 Arrangement

A DS3 Arrangement supports a single 44.736 Mbps High Capacity (DS3) access service interface. The DS3 Arrangement interfaces to the Standard Arrangement for use with DS1, DS0 and subrate access services.

2. Network Modification Charge

This charge applies each time the customer requests the Telephone Company to modify their service.

This charge is not applicable if the customer makes changes directly through their TRM network management workstation.

3. Service Interface Charges

(RT) A Service Interface Charge applies per access service interfaced at a TRM Service Hub. There are separate rate elements for DS1 (High Capacity), DS0 (MegaLink Data and Voice Grade services), and Network Management as set forth in 19.2.5(C). The Service Interface Charge is provided on a month-to-month basis only.

a. DS1 Service Interface

(RT) A DS1 Service Interface Charge is applied for each High Capacity (DS1) access service that is interfaced to a TRM Standard Arrangement.

b. DS0 Service Interface

A DS0 Service Interface Charge is applied for each MegaLink Data or Voice Grade access service interfaced to a TRM Standard Arrangement.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
Original Sheet 14

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

A. Rate Element Description-(Continued)

1. Service Arrangement Charge-(Continued)

b. DS3 Arrangement

A DS3 Arrangement supports a single 44.736 Mbps High Capacity (DS3) access service interface. The DS3 Arrangement interfaces to the Standard Arrangement for use with DS1, DS0 and subrate access services.

2. Network Modification Charge

This charge applies each time the customer requests the Telephone Company to modify their service.

This charge is not applicable if the customer makes changes directly through their TRM network management workstation.

3. Service Interface Charges

A Service Interface Charge applies per access service interfaced at a TRM Service Hub. There are separate rate elements for DS1 (High Capacity, Business Video I and Business Video II services), DS0 (MegaLink Data and Voice Grade services), and Network Management as set forth in 19.2.5(C). The Service Interface Charge is provided on a month-to-month basis only.

a. DS1 Service Interface

A DS1 Service Interface Charge is applied for each High Capacity (DS1), Business Video I, or Business Video II access service that is interfaced to a TRM Standard Arrangement.

b. DS0 Service Interface

A DS0 Service Interface Charge is applied for each MegaLink Data or Voice Grade access service interfaced to a TRM Standard Arrangement.

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Southwestern Bell Telephone
St. Louis, Missouri

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

A. Rate Element Description-(Continued)

3. Service Interface Charges-(Continued)

c. Network Management Service Interface

The Network Management Service Interface Charge supports a TRM network management interface to the customer's premises for use in managing the customer's TRM network. Provisioning of a network management interface permits the customer to have control of its TRM network, and to make configuration changes without incurring the TRM Network Modification Charge. The customer is responsible for providing a 56 kbps Channel Service Unit (CSU), and a workstation at its premises.

4. Optional Features

Customers may purchase optional features for Subrate Multiplexing, Voice Compression, Voice and Data Bridging, or Frame Relay services. Optional feature rate elements are applied at each TRM Service Hub where the feature is requested. Multiple optional features may be ordered at a single TRM Service Hub.

Each optional feature, with the exception of Voice Compression, reduces the capacity of the Standard Arrangement by 2 DS1 access services or 48 DS0 access services.

a. Subrate Multiplexing

Each Subrate Multiplexing optional feature supports subrate multiplexing of up to 40 subrate channels at a single TRM Service Hub.

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Southwestern Bell Telephone
St. Louis, Missouri

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

4. Optional Features-(continued)

b. Voice Compression

Each Voice Compression optional feature supports, based on the customer's network configuration, ADPCM 2:1 voice compression on up to two (2) High Capacity (DS1) access services, or a group of up to 48 Voice Grade (DS0) access services, or a single High Capacity (DS1) access service and a group of up to 24 Voice Grade access services at a TRM Service Hub.

c. Voice and Data Bridging

Each Voice and Data Bridging optional feature supports voice conferencing of up to 48 conferees on up to 24 conference bridges, or analog data bridging of up to 48 data services on up to 12 bridged circuits, or digital data bridging of up to 18 digital data services on up to 18 bridged circuits, or any combination of voice, digital data and analog data bridging that does not exceed the capacity of the feature, at a single TRM Service Hub.

d. Frame Relay

Each Frame Relay optional feature supports Frame Relay switching of up to 30 Frame Relay data streams or up to 1.9 Mbps of total Frame Relay switched bandwidth at a single TRM Service Hub.

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By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone
St. Louis, Missouri

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
1st Revised Sheet 17
Replacing Original Sheet 17

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

B. Nonrecurring Charges

Nonrecurring Charges for Service Arrangements, Service Interfaces and Optional Features will be applied on a First and Additional basis. The First Nonrecurring Charge will be applied to the first service ordered on an access order; the Additional Nonrecurring Charge will be applied to additional services ordered on the same access order. In order to receive the benefits associated with ordering multiple services, the following criteria must be met:

- Same Access Service Order
- Same Application for Service Date
- Same Due Date
- Identical Services
- Same Billing Account Number (BAN)
- Same TRM Service Hub.

Nonrecurring Charges, as set forth in Section 7, are also applicable when existing access services must be reterminated at a TRM Service Hub.

C. Rate Application

(RT) When TRM is used in conjunction with Voice Grade, MegaLink Data or High Capacity services, the appropriate regulations, rates and charges as set forth in Section 7 will apply in addition to charges as set forth in 19.2.5:

- One Channel Termination (CT) applies between the customer designated premises and serving wire center.

- Channel Mileage, if applicable, applies between the serving wire center and the Telephone Company TRM Hub, or between the CO Multiplexing Hub and the TRM Service Hub, or between the NRS HUB and the TRM Service Hub, or between two TRM Service Hubs.

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By KAREN E. JENNINGS, President-Missouri
Southwestern Bell Telephone
St. Louis, Missouri

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
Original Sheet 17

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

B. Nonrecurring Charges

Nonrecurring Charges for Service Arrangements, Service Interfaces and Optional Features will be applied on a First and Additional basis. The First Nonrecurring Charge will be applied to the first service ordered on an access order; the Additional Nonrecurring Charge will be applied to additional services ordered on the same access order. In order to receive the benefits associated with ordering multiple services, the following criteria must be met:

- Same Access Service Order
- Same Application for Service Date
- Same Due Date
- Identical Services
- Same Billing Account Number (BAN)
- Same TRM Service Hub.

Nonrecurring Charges, as set forth in Section 7, are also applicable when existing access services must be reterminated at a TRM Service Hub.

C. Rate Application

When TRM is used in conjunction with Voice Grade, MegaLink Data, Business Video I, Business Video II or High Capacity services, the appropriate regulations, rates and charges as set forth in Section 7 will apply in addition to charges as set forth in 19.2.5:

- One Channel Termination (CT) applies between the customer designated premises and serving wire center.

- Channel Mileage, if applicable, applies between the serving wire center and the Telephone Company TRM Hub, or between the CO Multiplexing Hub and the TRM Service Hub, or between the NRS HUB and the TRM Service Hub, or between two TRM Service Hubs.

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By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone
St. Louis, Missouri

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
Original Sheet 18

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

D. Termination of Service

Customers requesting the termination of a Service Arrangement prior to the expiration of the 1 year, 3 year or 5 year fixed service period agreement will be charged as indicated below:

Number of Years in Arrangement	Termination Percentage
1, 3 or 5 years	60%

The termination charge will be calculated as follows:

Service Arrangement billed monthly rate	X	Months remaining in Arrangement	X	Termination Percentage.

Example: A customer with a 3 year Service Arrangement decides to terminate service after 12 months. The Service Arrangement billed monthly rate is $1,800.00. The termination charge applied will be as follows:

$1,800.00 X 24 X .60 = $25,920.00.

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By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone
St. Louis, Missouri

No Supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
1st Revised Sheet 19
Replacing Original Sheet 19

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 19
Original Sheet 19

ACCESS SERVICES

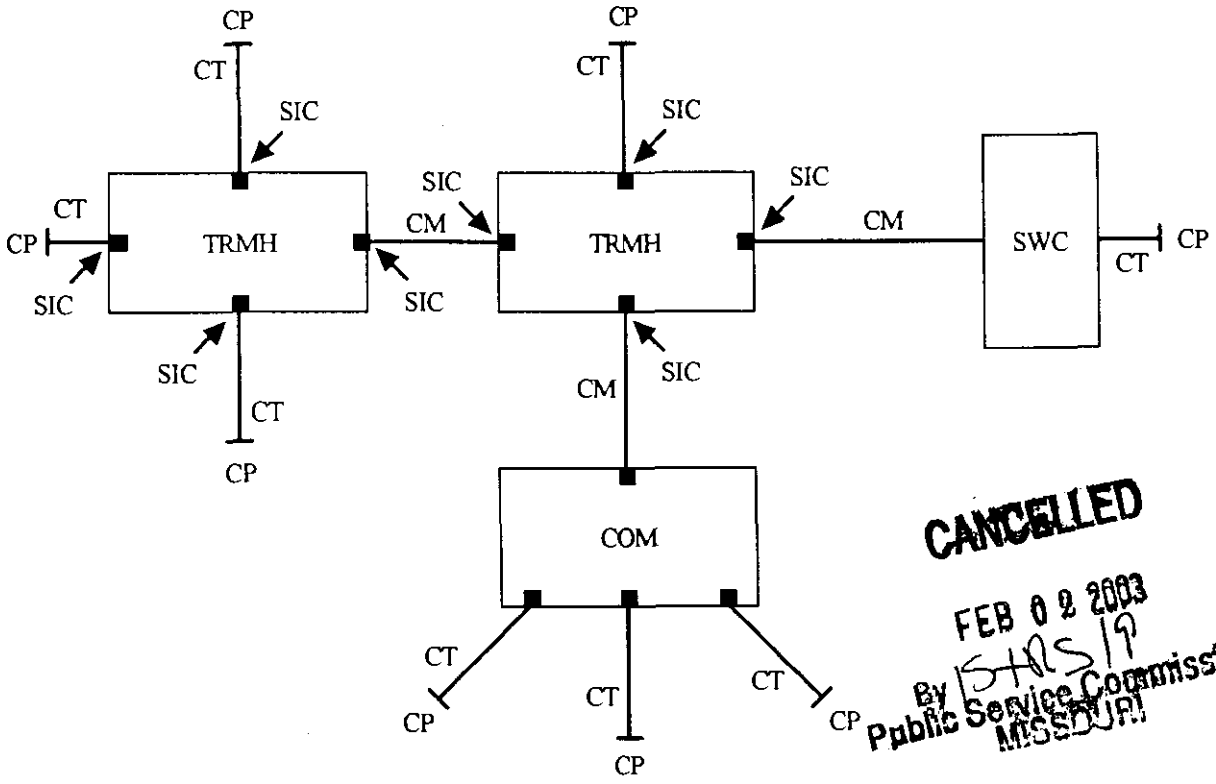
19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.4 Rate Regulations-(Continued)

E. Service Configuration

The following diagram depicts a typical TRM Network with its applicable rate elements:



CM	=	Channel Mileage
COM	=	Central Office Multiplexing Hub
CP	=	Customer Premises
CT	=	Channel Termination
SIC	=	Service Interface Charge
SWC	=	Serving Wire Center
TRMH	=	Transport Resource Management Service Hub

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By M. H. SCHULTEIS, Executive Director-External Affairs
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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

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ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.5 Rates and Charges

A. Service Arrangement Charges

	Month-to -Month Rate	1 Year Monthly Rate	3 Year Monthly Rate	5 Year Monthly Rate	Nonrecurring Charges 1st Arr	Addl Arr
1. Standard Arrangement (BWMSX)	$1,900.00	$1,810.00	$1,650.00	$1,600.00	$303.00	$63.00
2. DS3 Arrangement (BWM3X)	$2,250.00	$2,050.00	$1,950.00	$1,860.00	$ 98.00	$45.00

B. Network Modification Charge (NRBNM)

	Nonrecurring Charge
Per request per access service	$4.00

C. Service Interface Charges

	Monthly Rate	Nonrecurring 1st Svc	Charges Addl Svc
1. DS1 Service Interface (BW11X)	$45.00	$48.00	$45.00
2. DS0 Service Interface			
- MegaLink Data (BW10P)	12.00	61.00	53.00
- Voice Grade (BW10V)	12.00	61.00	53.00
3. Network Management Service Interface (BW1NX)	210.00	332.00	271.00

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Southwestern Bell Telephone
St. Louis, Missouri

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES (cont'd)

(RT)

(RT)

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

19. NETWORK MANAGEMENT SERVICES-(Continued)

19.2 Transport Resource Management (TRM) Service-(Continued)

19.2.5 Rates and Charges-(Continued)

	Monthly Rate	Nonrecurring 1st Svc	Charges Addl Svc
D. Optional Features			
1. Subrate Multiplexing (BWFSX)	$132.00	$48.00	$48.00
2. Voice Compression (BWFVX)	96.00	39.00	39.00
3. Voice and Data Bridging (BWFBX)	133.00	51.00	51.00
4. Frame Relay (BWFFX)	215.00	76.00	76.00

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By M. H. SCHULTEIS, Executive Director-External Affairs
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ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE

20.1 General

20.1.1 General Description

Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service, provides a dedicated two-way signaling path between the customer-designated premises and a Telephone Company interconnecting Signal Transfer Point (STP). The customer's designated premises and the Telephone Company's STP must be in the same LATA. CCS/SS7 Interconnection Service provides interconnection with the Telephone Company's CCS/SS7 network and can be used to access Telephone Company services as they become available and as facilities permit.

CCS/SS7 Interconnection Service utilizes an STP Access Connection, an STPAccess Link and an STP Port Termination. The STP Access Connection provides for the DS1 (1.544 Mbps) transmission facility between the serving wire center of the customer designated premises and the Telephone Company hub, where multiplexing from 1.544 Mbps to 56 kbps will occur. The STP Access Link provides for the 56 kbps digital transmission facility between the Telephone Company hub and the Telephone Company STP. The STP Port Termination provides for the physical termination of the customer's 56 kbps circuit into the telephone Company STP, where access to the Telephone Company's CCS/SS7 network will occur.

(RT)

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE

20.1 General

20.1.1 General Description

Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service, provides a dedicated two-way signaling path between the customer-designated premises and a Telephone Company interconnecting Signal Transfer Point (STP). The customer's designated premises and the Telephone Company's STP must be in the same LATA. CCS/SS7 Interconnection Service provides interconnection with the Telephone Company's CCS/SS7 network and can be used to access Telephone Company services as they become available and as facilities permit.

CCS/SS7 Interconnection Service utilizes an STP Access Connection, an STPAccess Link and an STP Port Termination. The STP Access Connection provides for the DS1 (1.544 Mbps) transmission facility between the serving wire center of the customer designated premises and the Telephone Company hub, where multiplexing from 1.544 Mbps to 56 kbps will occur. The STP Access Link provides for the 56 kbps digital transmission facility between the Telephone Company hub and the Telephone Company STP. The STP Port Termination provides for the physical termination of the customer's 56 kbps circuit into the telephone Company STP, where access to the Telephone Company's CCS/SS7 network will occur.

(AT) This service is competitively classified.

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE

20.1 General

(CT) 20.1.1 General Description

Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service, provides a dedicated two-way signaling path between the customer-designated premises and a Telephone Company interconnecting Signal Transfer Point (STP). The customer's designated premises and the Telephone Company's STP must be in the same LATA. CCS/SS7 Interconnection Service provides interconnection with the Telephone Company's CCS/SS7 network and can be used to access Telephone Company services as they become available and as facilities permit.

(AT) CCS/SS7 Interconnection Service utilizes an STP Access Connection, an STP Access Link and an STP Port Termination. The STP Access Connection provides for the DS1 (1.544 Mbps) transmission facility between the serving wire center of the customer designated premises and the Telephone Company hub, where multiplexing from 1.544 Mbps to 56 kbps will occur. The STP Access Link provides for the 56 kbps digital transmission facility between the Telephone Company hub and the Telephone Company STP. The STP Port Termination provides for the physical termination of the customer's 56 kbps circuit into the telephone Company STP, where access to the Telephone Company's (AT) CCS/SS7 network will occur.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE

20.1 General

20.1.1 Service Description

Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service, provides a dedicated two-way signaling path between the customer-designated premises and a Telephone Company interconnecting Signal Transfer Point (STP). The customer's designated premises and the Telephone Company's STP must be in the same LATA. CCS/SS7 Interconnection Service provides interconnection with the Telephone Company's CCS/SS7 network and can be used to access Telephone Company services as they become available and as facilities permit.

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By A. D. ROBERTSON, Assistant Vice President-External Affairs
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.1 General-(Continued)

20.1.2 Manner of Provisioning

The customer may utilize an existing DS1 (1.544 Mbps) facility for CCS/SS7 Interconnection Service. If the customer does not have existing DS1 facilities available for use with CCS/SS7 Interconnection Service, and does not want to order a DS1 Channel, the Telephone Company will provide an STP Access Connection between
(AT) the serving wire center of the customer-designated premises and the Telephone Company Hub. When a DS1 Channel or an STP Access Connection is utilized by the customer, multiplexing from 1.544 Mbps
(AT) to 56 kbps will occur at the designated Telephone Company Hub. A Customer
| Signaling Point Code will also be installed at the Telephone Company
| interconnecting STP. STP locations are set forth
(AT) in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

One STP Port Termination is required for each 56 kbps access link utilized for CCS/SS7 Interconnection Service and will be installed at
(AT) the Telephone Company interconnecting STP. A customer signaling
| point code will also be translated at the Telephone Company
(AT) interconnecting STP. STP locations are set forth in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

(AT) CCS/SS7 Interconnection Service is provisioned in A-Link pairs (multiples of 2)
| or B/D Link Quads (multiples of 4). Either of two architecture configurations
| may be used:
|
| A Links connect a customer's Signaling Point with a Telephone Company mated
| Signaling Transfer Point pair per LATA.
|
| B/D Links connect a customer's mated STP pair to a Telephone
(AT) Company mated STP pair per LATA.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.1 General-(Continued)

20.1.2 Manner of Provisioning

The customer may utilize an existing DS1 (1.544 Mbps) facility for CCS/SS7 Interconnection Service. If the customer does not have existing DS1 facilities available for use with CCS/SS7 Interconnection Service, and does not want to order a DS1 Channel, the Telephone Company will provide an STP Access Connection between the customer-designated premises and the Telephone Company Hub. When a DS1 Channel or an STP Access Connection is utilized by the customer, multiplexing from 1.544 Mbps to 56 kbps will occur at the designated Telephone Company Hub.

One STP Port Termination is required for each 56 kbps access link utilized for CCS/SS7 Interconnection Service and will be installed at the Telephone Company interconnecting STP. STP locations are set forth in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.1 General-(Continued)

20.1.3 Rate Elements

The following Switched Access rate elements apply to CCS/SS7 Interconnection Service:

A. STP Access Connection

The STP Access Connection rate element provides the transmission facilities between the customer-designated premises and the Telephone Company Hub.

The STP Access Connection charges are calculated according to mileage band. There are two rates that may apply per band, i.e., a fixed monthly rate per mileage band and a monthly rate per mile.

A nonrecurring charge also applies per STP Access Connection. This charge applies on a first and additional basis.

B. STP Access Mileage

The STP Access Mileage rate element provides the 56 kbps transmission facilities between a designated Telephone Company Hub and the Telephone Company interconnecting STP.

STP Access Mileage is calculated according to mileage band. There are two rates that apply per band, i.e., a fixed monthly rate per mileage band and a monthly rate per mile.

C. STP Port Termination

The STP Port Termination rate element provides for the termination of the customer's 56 kbps circuit. One STP Port Termination must be installed at the Telephone Company interconnecting STP for each 56 kbps circuit.

There are two charges that apply to the STP Port Termination, i.e., a fixed recurring monthly rate per port termination and a nonrecurring installation charge per port.

(AT) D. Customer Signaling Point Code

(AT) The Customer Signaling Point Code rate element provides for the installation of the customer's CCS network signaling point (address) code. A nonrecurring charge applies per Customer Signaling Point Code.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.1 General-(Continued)

20.1.3 Rate Elements

The following Switched Access rate elements apply to CCS/SS7 Interconnection Service:

A. STP Access Connection

The STP Access Connection rate element provides the transmission facilities between the customer-designated premises and the Telephone Company Hub.

The STP Access Connection charges are calculated according to mileage band. There are two rates that may apply per band, i.e., a fixed monthly rate per mileage band and a monthly rate per mile.

A nonrecurring charge also applies per STP Access Connection. This charge applies on a first and additional basis.

B. STP Access Mileage

The STP Access Mileage rate element provides the 56 kbps transmission facilities between a designated Telephone Company Hub and the Telephone Company interconnecting STP.

STP Access Mileage is calculated according to mileage band. There are two rates that apply per band, i.e., a fixed monthly rate per mileage band and a monthly rate per mile.

C. STP Port Termination

The STP Port Termination rate element provides for the termination of the customer's 56 kbps circuit. One STP Port Termination must be installed at the Telephone Company interconnecting STP for each 56 kbps circuit.

There are two charges that apply to the STP Port Termination, i.e., a fixed recurring monthly rate per port termination and a nonrecurring installation charge per port.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.1 General-(Continued)

20.1.4 Ordering Options and Conditions

CCS/SS7 Interconnection Service is ordered under the Access Order provisions set forth in Section 5. The Access Order Charge applicable for Switched Access will apply per Access Order for the installation, addition, change or rearrangement of CCS/SS7 Interconnection Service. Other charges associated with the ordering of CCS/SS7 Interconnection Service are applicable as specified in Section 5.

20.2 Transmission Specifications

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to the effective date of this tariff except that service configurations having performance specifications exceeding the standards listed in this provision will be maintained at performance levels specified in the appropriate Technical Reference Publication.

20.3 Acceptance Testing

At the customer's request, the Telephone Company will, at no additional charge, cooperatively test at the time of installation.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.4 Obligations of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2, the Telephone Company has certain other obligations pertaining to the provision of CCS/SS7 Interconnection Service. These obligations are as follows:

20.4.1 Network Management

The Telephone Company will administer its network to ensure the provision of acceptable service levels to all telecommunication users of the Telephone Company's network services. The Telephone Company maintains the right to apply protective controls which would generally be applied as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone 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 Section 2.

20.4.2 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may be made available to the customer. This data provides information on STP Port availability. This data does not include service performance data which is provided under other tariff sections, e.g., testing service results. If the data is to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.5 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2, the customer has certain other obligations pertaining to the use of CCS/SS7 Interconnection Service. These obligations are as follows:

20.5.1 Forecast Report

The customer shall furnish to the Telephone Company, at the time CCS/SS7 Interconnection is ordered and annually thereafter, an updated three-year forecast of usage for the STP Access Connection, the STP Access Link and the STP Port Termination. The forecast shall include total annual volume and busy hour busy month volume. The Telephone Company will utilize the forecast in its own efforts to project further facility requirements.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.6 Rate Regulations

This section contains specific regulations governing the rates and charges that apply for CCS/SS7 Interconnection Service.

20.6.1 Description of Rates and Charges

There are two types of rates and charges which apply to CCS/SS7 Interconnection Service. They are monthly recurring rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth below. For billing purposes, each month is considered to have 30 days.

A. Monthly Rates

Monthly rates are fixed recurring rates that apply each month, or fraction thereof, that a specific rate element is provided.

B. Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation of a service or rearrangement of an existing service.)

Charges for the rearrangement of CCS/SS7 Interconnection Service are set forth in Section 6.

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.6 Rate Regulations-(Continued)

20.6.2 Application of Rates and Charges

STP Access Mileage and the STP Access Connection are Local Transport monthly rated Switched Access Service rate elements are not subject to the usage (i.e., Local Transport, Local Switching and Carrier Common Line) rate categories as set forth in Sections 3 and 6.

(CT) Rates and charges for the STP Access Connection, STP Access Link, STP
(CT) Port Termination and the Customer Signaling Point Code apply as follows:

A. STP Access Connection

A fixed monthly rate applies for each STP Access Connection between the Telephone Company Hub and the customer-designated premises.

A monthly rate per mile applies to each airline mile between the Telephone Company Hub and the Serving Wire Center of the customer-designated premises.

A nonrecurring charge applies for the installation of each STP Access Connection. This charge is applied on a first and additional basis.

(CT) B. STP Access Link

A fixed monthly rate applies, per mileage band, for each 56 kbps access link between the Telephone Company Hub, where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company interconnecting STP.

A monthly rate per mile applies to each airline mile between the Telephone Company Hub, where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company interconnecting STP.

C. STP Port Termination

A monthly rate applies for each STP Port Termination installed at the Telephone Company interconnecting STP.

A nonrecurring charge applies for the installation of each STP Port Termination at the Telephone Company interconnecting STP.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.6 Rate Regulations-(Continued)

20.6.2 Application of Rates and Charges

STP Access Mileage and the STP Access Connection are Local Transport monthly rated Switched Access Service rate elements are are not subject to the usage (i.e., Local Transport, Local Switching and Carrier Common Line) rate categories as set forth in Sections 3 and 6.

Rates and charges for STP Access Mileage, the STP Access Connection and STP Port Termination apply as follows:

A. STP Access Connection

A fixed monthly rate applies for each STP Access Connection between the Telephone Company Hub and the customer-designated premises.

A monthly rate per mile applies to each airline mile between the Telephone Company Hub and the Serving Wire Center of the customer-designated premises.

A nonrecurring charge applies for the installation of each STP Access Connection. This charge is applied on a first and additional basis.

B. STP Access Mileage

A fixed monthly rate applies, per mileage band, for each 56 kbps access link between the Telephone Company Hub, where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company interconnecting STP.

A monthly rate per mile applies to each airline mile between the Telephone Company Hub, where multiplexing from DS1 (1.544 Mbps) to a 56 kbps circuit occurs, and the Telephone Company interconnecting STP.

C. STP Port Termination

A monthly rate applies for each STP Port Termination installed at the Telephone Company interconnecting STP.

A nonrecurring charge applies for the installation of each STP Port Termination at the Telephone Company interconnecting STP.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.6 Rate Regulations-(Continued)

20.6.2 Application of Rates and Charges-(Continued)

(AT) D. Customer Signaling Point Code

A nonrecurring charge applies for the installation of each Customer Signaling Point Code installed at the Telephone Company
(AT) interconnecting STP.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.6 Rate Regulations-(Continued)

20.6.3 Minimum Period

CCS/SS7 Interconnection Service is provided for a minimum period of one month. When service is disconnected prior to the expiration of the minimum period, monthly charges are applicable for the balance of the minimum period. If service is disconnected after the minimum period, monthly charges will be based on the actual number of days the service is furnished, as set forth following. For the purpose of administering this regulation, with respect to the determination of charges for a fractional part of a month, every month is considered to have 30 days.

20.6.4 Moves

The regulations for moves and application of charges are set forth in Section 6.

20.6.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the STP Access Connection and the STP Access Mileage is calculated on the airline distance between the locations involved, i.e., the Telephone Company Hub and the customer-designated premises, or the Telephone Company Hub and the Telephone Company interconnecting STP.

Mileage is shown in Paragraph 20.7, in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4, then find the band into which the computed mileage falls and apply the rate shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.7 Rates and Charges

A. STP Access Connection	USOC	Monthly Rate Fixed	Monthly Rate Per Mile
Mileage Bands			
0	CCAX8	$340.54	---
Over 0 to 4	CCAX8	403.73	$26.45
Over 4 to 8	CCAX8	403.73	26.45
Over 8 to 25	CCAX8	403.73	26.45
Over 50	CCAX8	403.73	26.45

	USOC	Nonrecurring Charge First	Nonrecurring Charge Additional
Per STP Access Connection	NRBSB	$569.00	$368.00

(CT) (RT)

B. STP Access Link	USOC	Monthly Rate Fixed	Monthly Rate Per Mile
Mileage Bands			
0	1J5FX	---	---
Over 0 to 4	1J5FX	$100.16	$ .91
Over 4 to 8	1J5FX	$100.16	.91
Over 8 to 25	1J5FX	$100.16	.91
Over 25 to 50	1J5FX	$100.16	.91
Over 50	1J5FX	$100.16	.91

C. STP Port Termination	USOC	Monthly Rate	Nonrecurring Charge
Per Port Termination	PT8SX	$318.87	$214.00

(AT)

D. Customer Signaling Point Code	USOC		Nonrecurring Charge
	NRBSF	NA (NR)	$ 41.00

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By M. H. SCHULTEIS, Division Manager-Regulatory & Industry Relations
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

20. COMMON CHANNEL SIGNALING/SIGNALING SYSTEM 7 (CCS/SS7) INTERCONNECTION SERVICE-(Continued)

20.7 Rates and Charges

A. STP Access Connection	USOC	Monthly Rate Fixed	Monthly Rate Per Mile
Mileage Bands			
0	CCAX8	(NR)$340.54	---
Over 0 to 4	CCAX8	403.73	(NR)$26.45
Over 4 to 8	CCAX8	403.73	26.45
Over 8 to 25	CCAX8	403.73	26.45
Over 25 to 50	CCAX8	403.73	26.45
Over 50	CCAX8	(NR) 403.73	(NR) 26.45

	USOC	Nonrecurring Charge First	Nonrecurring Charge Additional
Per STP Access Connection	NRBSB	(NR)$569.00	(NR)$368.00

B. STP Access Mileage	USOC	Monthly Rate Fixed	Monthly Rate Per Mile
56 kbps Access Link			
Mileage Bands			
0	1J5FX	---	---
Over 0 to 4	1J5FX	(NR)$100.16	(NR)$ .91
Over 4 to 8	1J5FX	100.16	.91
Over 8 to 25	1J5FX	100.16	.91
Over 25 to 50	1J5FX	100.16	.91
Over 50	1J5FX	(NR) 100.16	(NR) .91

C. STP Port Termination	USOC	Monthly Rate	Nonrecurring Charge
Per Port Termination	PT8SX	(NR)$318.87	(NR)$214.00

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE

21.1 General Description

(RT) Line Information Data Base (LIDB) Validation Service provides the customer the ability to query billing validation data contained in the Telephone Company's LIDB. Access to the Telephone Company's LIDB provides customers with potential toll fraud detection by validating toll billing exception data and performing public telephone checks.

The Telephone Company's LIDB is accessed through the Telephone Company's Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service which utilizes American National Standards Institute (ANSI) signaling protocol. LIDB Validation Service customers must arrange for the Telephone Company's CCS/SS7 Interconnection Service, as specified in Section 20, for themselves or through another CCS/SS7 signaling transport service provider.

There is one rate category, LIDB Query, that applies to LIDB Validation Service. The LIDB Query rate category consists of two rate elements; LIDB Query Transport and LIDB Validation Query. The LIDB Query Transport provides for the transport of the LIDB query from the Signaling Transfer Points (STPs) to the Service Control Point (SCP) and back. The LIDB Validation Query provides for the actual validation of the LIDB information. In addition, other service specific charges and nonrecurring charges may apply as specified in Section 6, Paragraphs 6.7 and 6.8.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE

21.1 General Description

Line Information Data Base (LIDB) Validation Service provides the customer the ability to query billing validation data contained in the Telephone Company's LIDB. Access to the Telephone Company's LIDB provides customers with potential toll fraud detection by validating calling card and toll billing exception data and performing public telephone checks.

The Telephone Company's LIDB is accessed through the Telephone Company's Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service which utilizes American National Standards Institute (ANSI) signaling protocol. LIDB Validation Service customers must arrange for the Telephone Company's CCS/SS7 Interconnection Service, as specified in Section 20, for themselves or through another CCS/SS7 signaling transport service provider.

There is one rate category, LIDB Query, that applies to LIDB Validation Service. The LIDB Query rate category consists of two rate elements; LIDB Query Transport and LIDB Validation Query. The LIDB Query Transport provides for the transport of the LIDB query from the Signaling Transfer Points (STPs) to the Service Control Point (SCP) and back. The LIDB Validation Query provides for the actual validation of the LIDB information. In addition, other service specific charges and nonrecurring charges may apply as specified in Section 6, Paragraphs 6.7 and 6.8.

(RT)

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE

21.1 General Description

Line Information Data Base (LIDB) Validation Service provides the customer the ability to query billing validation data contained in the Telephone Company's LIDB. Access to the Telephone Company's LIDB provides customers with potential toll fraud detection by validating calling card and toll billing exception data and performing public telephone checks.

The Telephone Company's LIDB is accessed through the Telephone Company's Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service which utilizes American National Standards Institute (ANSI) signaling protocol. LIDB Validation Service customers must arrange for the Telephone Company's CCS/SS7 Interconnection Service, as specified in Section 20, for themselves or through another CCS/SS7 signaling transport service provider.

There is one rate category, LIDB Query, that applies to LIDB Validation Service. The LIDB Query rate category consists of two rate elements; LIDB Query Transport and LIDB Validation Query. The LIDB Query Transport provides for the transport of the LIDB query from the Signaling Transfer Points (STPs) to the Service Control Point (SCP) and back. The LIDB Validation Query provides for the actual validation of the LIDB information. In addition, other service specific charges and nonrecurring charges may apply as specified in Section 6, Paragraphs 6.7 and 6.8.

(AT) This service is competitively classified.

No supplement to this tariff will be issued except for the purpose of canceling this tariff.

Access Services Tariff
Section 21
Original Sheet 1

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE

21.1 General Description

Line Information Data Base (LIDB) Validation Service provides the customer the ability to query billing validation data contained in the Telephone Company's LIDB. Access to the Telephone Company's LIDB provides customers with potential toll fraud detection by validating calling card and toll billing exception data and performing public telephone checks. This service is a non-competitive service.

The Telephone Company's LIDB is accessed through the Telephone Company's Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service which utilizes American National Standards Institute (ANSI) signaling protocol. LIDB Validation Service customers must arrange for the Telephone Company's CCS/SS7 Interconnection Service, as specified in Section 20, for themselves or through another CCS/SS7 signaling transport service provider.

There is one rate category, LIDB Query, that applies to LIDB Validation Service. The LIDB Query rate category consists of two rate elements; LIDB Query Transport and LIDB Validation Query. The LIDB Query Transport provides for the transport of the LIDB query from the Signaling Transfer Points (STPs) to the Service Control Point (SCP) and back. The LIDB Validation Query provides for the actual validation of the LIDB information. In addition, other service specific charges and nonrecurring charges may apply as specified in Section 6, Paragraphs 6.7 and 6.8.

Issued: AUG 18 1993 Effective: SEP 20 1993

By A. D. ROBERTSON, Assistant Vice President-External Affairs
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.2 Service Description

LIDB Validation Service is provided by the Telephone Company to its customers in support of alternate billing services. LIDB Validation Service provides access to billing validation data which resides in the Telephone Company data base for use with alternate billing services. Alternate billing services allow customers' end users the ability to bill calls to an account not necessarily associated with the originating line. LIDB Validation Service supports alternate billing services such as Collect Calls and Third Number Billing. (RT)

Customers participating in LIDB Validation Service, for purposes of obtaining billing validation data that resides in the Telephone Company data base, originate queries to the LIDB from an Operator Services System (OSS) identified by an originating point code (OPC). The LIDB query is routed through one of two Telephone Company interconnecting STPs, as designated by the Telephone Company, to the Telephone Company Regional SCP where the LIDB resides. The requested billing validation data, in the form of signaling information, is passed back via either one of the two Telephone Company interconnecting STPs to the customer's designated OSS where the LIDB query was originated. The STPs locations are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No. 4.

The Telephone Company LIDB will receive and respond to all Billed Number Screening queries, including the Telephone Company's queries. These procedures will be applied uniformly to all users of the Telephone Company's LIDB Validation Service. (RT)

LIDB Validation Service will provide the following functions on a per query basis: (RT)

- Determination of whether the billed line has decided in advance to reject certain calls billed as collect or to a third number.

- Determination of billed line as a public (including those classified as semi-public) or nonworking telephone number.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.2 Service Description

LIDB Validation Service is provided by the Telephone Company to its customers in support of alternate billing services. LIDB Validation Service provides access to billing validation data which resides in the Telephone Company data base for use with alternate billing services. Alternate billing services allow customers' end users the ability to bill calls to an account not necessarily associated with the originating line. LIDB Validation Service supports alternate billing services such as Calling Card, Collect Calls, and Third Number Billing.

Customers participating in LIDB Validation Service, for purposes of obtaining billing validation data that resides in the Telephone Company data base, originate queries to the LIDB from an Operator Services System (OSS) identified by an originating point code (OPC). The LIDB query is routed through one of two Telephone Company interconnecting STPs, as designated by the Telephone Company, to the Telephone Company Regional SCP where the LIDB resides. The requested billing validation data, in the form of signaling information, is passed back via either one of the two Telephone Company interconnecting STPs to the customer's designated OSS where the LIDB query was originated. The STPs locations are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No. 4.

The Telephone Company LIDB will receive and respond to all Calling Card Service and Billed Number Screening queries, including the Telephone Company's queries. These procedures will be applied uniformly to all users of the Telephone Company's LIDB Validation Service.

LIDB Validation Service will provide the following functions on a per query basis:

- Validation of a telecommunications calling card account number stored in LIDB.

- Determination of whether the billed line has decided in advance to reject certain calls billed as collect or to a third number.

- Determination of billed line as a public (including those classified as semi-public) or nonworking telephone number.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.3 Service Provisioning

21.3.1 Manner of Provisioning

A. All access to the Telephone Company's LIDB will occur through two Telephone Company interconnecting STPs as designated by the Telephone Company. The Telephone Company will provide customer interconnection to the Telephone Company interconnecting STPs through its CCS/SS7 Interconnection Service provided in Section 20. LIDB Validation Service customers must arrange for the Telephone Company's CCS/SS7 Interconnection Service for themselves or through another CCS/SS7 signaling transport service provider.

B. LIDB Validation Service is ordered under the provisions specified in Section 5. Also included in that section, are other charges which may be associated with ordering LIDB Validation Service (e.g., Service Date Change Charge).

21.3.2 Limitations

Unless expressly authorized in writing by the customer and the Telephone Company, LIDB Validation Service is not to be used for purposes other than those LIDB functions described in Section 21, Paragraph 21.2, preceding. LIDB Validation Service is used for those functions only on a call-by-call basis or for limited purpose of validating billing information by a Billing Clearing House. Data accessed on LIDB may not be stored elsewhere for future use.

Proprietary information residing in the Telephone Company LIDB is protected from unauthorized access and may not be stored in a customer's data base for any reason. All information related to alternate billing services is proprietary. Examples of proprietary information are as follows:

- Billed (Line/Regional Accounting Office (RAO)) Number (resides in the Telephone Company LIDB)
- PIN Number(s) (resides in the Telephone Company LIDB)
- Billed Number Screening (BNS) indicators (resides in the Telephone Company LIDB)
- Class of Service (resides in the Telephone Company LIDB)
- Reports on LIDB usage
- Information related to billing for LIDB usage
- LIDB usage statistics

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.3 Service Provisioning-(Continued)

21.3.3 LIDB Data Specifications

The Telephone Company's LIDB will contain a record for every working line number and Billed Number Group. Other exchange carriers who may store their data in the Telephone Company LIDB are requested to provide this data as well.

The Telephone Company will update the LIDB information; e.g., add, delete, and modify customer accounts as customers move, become delinquent on their account, or order new service, on a daily basis.

The Telephone Company has procedures in place to deactivate billing validation data in the event that it is being used fraudulently. (RT) (RT)

21.3.4 Provision Against Fraudulent Use of Service

End user information, pertinent to the investigation, may be shared with LIDB Validation Service customers when validation queries for the specific customer reaches the Telephone Company established fraud threshold level. This fraud threshold level will be applied uniformly to all customers.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.3 Service Provisioning-(Continued)

21.3.3 LIDB Data Specifications

The Telephone Company's LIDB will contain a record for every working line number and Billed Number Group. Other exchange carriers who may store their data in the Telephone Company LIDB are requested to provide this data as well.

The Telephone Company will update the LIDB information; e.g., add, delete, and modify customer accounts as customers move, become delinquent on their account, or order new service, on a daily basis.

The Telephone Company has procedures in place to deactivate billing validation data in the event that it is being used fraudulently. Calling cards identified or suspected of being fraudulently used will be updated 7 days a week, 21 hours a day.

21.3.4 Provision Against Fraudulent Use of Service

End user information, pertinent to the investigation, may be shared with LIDB Validation Service customers when validation queries for the specific customer reaches the Telephone Company established fraud threshold level. This fraud threshold level will be applied uniformly to all customers.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.3 Service Provisioning-(Continued)

21.3.5 Provision of Billing Information

When a LIDB query is received at the Telephone Company's SCP, a search is performed for the requested validation data. The Telephone Company SCP formulates a response and tallies the LIDB query for billing.

The LIDB queries are accumulated and records are generated identifying the number of queries routed to and from the SCP and processed by the OPC of the customer's OSS location. This information is delivered to the accounting office via tape or by teleprocessing for processing and billing. The query charges will be accumulated per OPC and billed to the LIDB Validation Service customer each month.

The Telephone Company will provide sufficient information with the bill to enable the customer to determine how the billed amount was calculated. Other reports may be provided as mutually agreed upon. Such agreements may involve additional charges or conditions which will be filed on an individual case basis as specified in Section 12.

21.3.6 Testing

The Telephone Company will perform testing of the LIDB Validation Service in conjunction with CCS/SS7 Interconnection Service.

21.3.7 CCS/SS7 Network Performance

The Telephone Company supports the performance standards as defined in Section 7 of TR-TSV-000905. The overall end-to-end CCS/SS7 network objective is less than ten minutes unavailability per year from any Signal Point (SP) to any other SP. The performance objective for any single SP, including an SCP, is less than three minutes unavailability per year. The combined link set from the SCP to the STP has a performance objective of less than two minutes unavailability per year.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.3 Service Provisioning-(Continued)

21.3.8 LIDB Validation System Performance

LIDB Validation Service system downtime will be less than twelve hours per year. The LIDB validation system is capable of processing up to 100 queries per second. The response time for a query, from switch transmission to reception, should not exceed one second for 99 percent of all queries.

21.3.9 LIDB System Management

The Telephone Company will administer its LIDB to ensure the provision of acceptable service levels to all customers of the Telephone Company's LIDB Validation Service. During periods of LIDB Validation Service system congestion, an automatic call gapping procedure will be utilized to control such congestion. The automatic call gapping procedure will tell the switch the gap (how long the switch should wait before sending another query) and the duration (how long the switch should continue to perform gapping). For example, during an overload condition, the automatic call gapping procedure will tell the LIDB when to begin to drop one out of three of the queries received. This call gapping procedure will be applied uniformly to all users of the Telephone Company's LIDB Validation Service.

The Telephone Company maintains the right to invoke manual intervention of the automatic call gapping procedure to preserve the integrity of the network.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for LIDB Validation Service.

There are two types of rates and charges which apply to LIDB Validation Service. These are usage rates and nonrecurring charges.

Specific rates and charges are set forth in Section 21, Paragraph, 21.5, following. Jurisdictional report requirements are set forth in Section 2, Paragraph 2.3.13, A.

21.4.1 Rate Elements

The following rate elements apply to LIDB Validation Service:

- LIDB Query Transport (described in (A) following)

- LIDB Validation Query (described in (B) following)

A. LIDB Query Transport

The LIDB Query Transport rate element provides for the routing of the LIDB query through one of two Telephone Company interconnecting STPs, as designated by the Telephone Company, to the Telephone Company Regional SCP where the LIDB resides, and back. The SCP and STPs locations are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No 4.

B. LIDB Validation Query

(RT) The LIDB Validation Query rate element provides for the validation of toll billing exception data and performance of public telephone checks; i.e., determining if a billed line is a public (including those classified as semi- public) telephone number. For these validation purposes, LIDB Validation Service customers will query the LIDB located in the Telephone Company SCP via the Telephone Company CCS/SS7 network. The LIDB will respond with a verification signal message back to the LIDB Validation Service customer via the Telephone Company CCS/SS7 network.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for LIDB Validation Service.

There are two types of rates and charges which apply to LIDB Validation Service. These are usage rates and nonrecurring charges.

Specific rates and charges are set forth in Section 21, Paragraph, 21.5, following. Jurisdictional report requirements are set forth in Section 2, Paragraph 2.3.13, A.

21.4.1 Rate Elements

The following rate elements apply to LIDB Validation Service:

- LIDB Query Transport (described in (A) following)

- LIDB Validation Query (described in (B) following)

A. LIDB Query Transport

The LIDB Query Transport rate element provides for the routing of the LIDB query through one of two Telephone Company interconnecting STPs, as designated by the Telephone Company, to the Telephone Company Regional SCP where the LIDB resides, and back. The SCP and STPs locations are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No 4.

B. LIDB Validation Query

The LIDB Validation Query rate element provides for the validation of calling card and toll billing exception data and performance of public telephone checks; i.e., determining if a billed line is a public (including those classified as semi- public) telephone number. For these validation purposes, LIDB Validation Service customers will query the LIDB located in the Telephone Company SCP via the Telephone Company CCS/SS7 network. The LIDB will respond with a verification signal message back to the LIDB Validation Service customer via the Telephone Company CCS/SS7 network.

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.4 Rate Regulations-(Continued)

21.4.2 Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). Nonrecurring charges are applicable for the establishment of LIDB Validation Service and service rearrangements. In addition, an Access Order Charge may be applicable as specified in Section 5, Paragraph 5.2.

A. Nonrecurring Charge for Establishment of Service

A nonrecurring charge applies for each request for establishment or change of existing LIDB Validation Service. The LIDB Validation Service Establishment Charge applies per OPC per request.

The nonrecurring charge for the establishment of LIDB Validation Service is set forth in Section 21, Paragraph 21.5, following.

B. Nonrecurring Charges for Service Rearrangements

Service Rearrangements are changes to existing services which do not result in changes to previously established OPCs.

Changes in previously established OPCs are treated as a discontinuance of the existing service and establishment of a new service and all applicable nonrecurring charges will apply.

Certain service rearrangements which are administrative in nature as specified in Section 6, Paragraph 6.7 will be made without charge except as noted. Provisions for service rearrangements for which nonrecurring charges will apply are also set forth in Section 6, Paragraph 6.7.

Nonrecurring charges specified in Section 6, Paragraph 6.8 will apply on a per service order basis.

Issued: August 18, 1993 Effective: September 20, 1993

By A. D. ROBERTSON, Assistant Vice President-External Affairs
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ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.4 Rate Regulations-(Continued)

21.4.3 Usage Rates

Usage rates are rates that apply on a per unit basis, e.g., per query, when a specific rate element is used. Usage charges are accumulated over a monthly period. For billing purposes, each month is considered to have thirty (30) days.

A. LIDB Query Transport

A LIDB Query Transport usage rate applies to each LIDB query that is routed through one of two Telephone Company's interconnecting STPs to the Telephone Company's Regional SCP where the LIDB resides and back. LIDB Query Transport charges are accumulated for each LIDB query and billed to the customer on a monthly basis.

B. LIDB Validation Query

A LIDB Validation Query usage rate applies to each LIDB query received at the Telephone Company's SCP. Query charges are accumulated for each OPC and billed to the customer on a monthly basis.

21.5 Rates and Charges

21.5.1 LIDB Query	Rate Per Query
A. Per LIDB Query Transport	$ .0045
B. Per LIDB Validation Query	.0260
- Billed Number Screening	

(RT)

21.5.2 Service Establishment Charge	Nonrecurring Charge
Per Originating Point Code (OPC) (NRBLA)	$ 11.00

ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.4 Rate Regulations-(Continued)

21.4.3 Usage Rates

Usage rates are rates that apply on a per unit basis, e.g., per query, when a specific rate element is used. Usage charges are accumulated over a monthly period. For billing purposes, each month is considered to have thirty (30) days.

A. LIDB Query Transport

A LIDB Query Transport usage rate applies to each LIDB query that is routed through one of two Telephone Company's interconnecting STPs to the Telephone Company's Regional SCP where the LIDB resides and back. LIDB Query Transport charges are accumulated for each LIDB query and billed to the customer on a monthly basis.

B. LIDB Validation Query

A LIDB Validation Query usage rate applies to each LIDB query received at the Telephone Company's SCP. Query charges are accumulated for each OPC and billed to the customer on a monthly basis.

21.5 Rates and Charges

21.5.1 LIDB Query	Rate Per Query
A. Per LIDB Query Transport	$ .0045
B. Per LIDB Validation Query	.0260
- Billed Number Screening	
- Calling Card Count	

21.5.2 Service Establishment Charge	Nonrecurring Charge
Per Originating Point Code (OPC) (NRBLA)	$ 11.00

ACCESS SERVICES

22. COIN SERVICES

22.1 General Description

This section provides rules and regulations pertaining to equal access for handling 1+ interLATA sent-paid traffic from the Telephone Company's public pay telephones.

The Telephone Company will provide, in conjunction with Switched Access Service as set forth in Section 6 of this tariff, originating communications from its public pay telephone stations where end users pay the appropriate charges by inserting coins into the coin station equipment (i.e., sent-paid).

Easy Access Dialing from these coin stations will be provided as set forth in Section 13.

22.2 Service Description

22.2.1 1+ InterLATA Routing

1+ interLATA sent-paid access provides the customer with three options for the routing of interLATA 1+ sent-paid calls. The customer is solely responsible for all 0+ and 1+ interLATA calls originating from the Telephone Company pay telephone station when it utilizes either Option (1) or (2).

Option 1: To have both 0+ and 1+ interLATA calls directly routed to the customer (i.e., the presubscribed Interexchange Carrier).

Option 2: To receive the 0+ interLATA calls directly and select one secondary service provider per LATA to receive the 1+ interLATA sent-paid traffic. The Telephone Company must receive written authorization from the customer prior to initiating such routing.

Option 3: To receive the 0+ interLATA calls directly and continue to default the 1+ interLATA sent-paid calls. This default option will expire when the default carrier ceases to accept such traffic or when the provider is able to handle traffic as set forth in either Option 1 or 2 preceding, whichever comes first.

22. COIN SERVICES-(Continued)

22.2 Service Description

22.2.1 1+ InterLATA Routing-(Continued)

Option 3: Default carrier denotes the provider of MTS and WATS which will provide for interLATA originating sent-paid coin calls from the Telephone Company's public pay telephones until the presubscribed "0+" carrier assumes this responsibility.

(CT) 22.2.2 101XXXX Routing

(CT) When the customer participates in handling 1+ interLATA sent-paid calls in an equal access end office (EAEO), the Telephone Company will route 101XXXX 1+ interLATA sent-paid traffic as set forth in paragraph 22.2.1.

(CT) When the customer does not participate in the handling of such calls, the Telephone Company will route such 101XXXX calls in accordance with the customer's routing instructions.

22.3 Service Provisioning

22.3.1 Call Set Up Signaling

The Telephone Company will provide, where available, two types of call set up signaling from its pay telephones.

A. Modified Operator Services Signaling (MOSS), as described in Bellcore's Operator Service System Generic Requirements (OSSGR), Document No. TR-NWT-001-144.

B. Exchange Access Operator Services Signaling (EAOSS), as described in Bellcore's LATA Switching System Generic Requirements (LSSGR), Document No. TR-NWT-000-692.

22.3.2 Equal Access End Office (EAEO) Provisioning

The Telephone Company will provide 1+ interLATA sent-paid access from EAEOs to the customer's Point of Presence (POP) or its designated secondary service provider's POP via one of the following methods:

A. Via direct routed trunks from the EAEO. The customer will be required to order Operator Trunk Functionality with coin control signaling (i.e., In Band or Expanded In Band)

ACCESS SERVICES

22. COIN SERVICES-(Continued)

22.2 Service Description

22.2.1 1+ InterLATA Routing-(Continued)

Option 3: Default carrier denotes the provider of MTS and WATS which will provide for interLATA originating sent-paid coin calls from the Telephone Company's public pay telephones until the presubscribed "0+" carrier assumes this responsibility.

22.2.2 10XXX Routing

When the customer participates in handling 1+ interLATA sent-paid calls in an equal access end office (EAEO), the Telephone Company will route 10XXX 1+ interLATA sent-paid traffic as set forth in paragraph 22.2.1.

When the customer does not participate in the handling of such calls, the Telephone Company will route such 10XXX calls in accordance with the customer's routing instructions.

22.3 Service Provisioning

22.3.1 Call Set Up Signaling

The Telephone Company will provide, where available, the following call set up signaling from its pay telephones.

A. Modified Operator Services Signaling (MOSS), as described in Bellcore's Operator Service System Generic Requirements (OSSGR), Document No. TR-NWT-001-144.

B. Exchange Access Operator Services Signaling (EAOSS), as described in Bellcore's LATA Switching System Generic Requirements (LSSGR), Document No. TR-NWT-000-692.

22.3.2 Equal Access End Office (EAEO) Provisioning

The Telephone Company will provide 1+ interLATA sent-paid access from EAEOs to the customer's Point of Presence (POP) or its designated secondary service provider's POP via one of the following methods:

A. Via direct routed trunks from the EAEO. The customer will be required to order Operator Trunk Functionality with coin control signaling (i.e., In Band or Expanded In Band)

ACCESS SERVICES

22. COIN SERVICES-(Continued)

22.3 Service Provisioning-(Continued)

22.3.2 Equal Access End Office (EAEO) Provisioning-(Continued)

If the EAEO is equipped with MOSS functionality, only MOSS will be provided.

If the EAEO is equipped with EAOSS functionality, either MOSS or EAOSS can be provided at the customer's option.

B. Via the Traffic Operator Position System (TOPS) tandems.

When ordering MOSS between a TOPS tandem and the customer's POP, the customer must order a separate and final trunk group for each Numbering Plan Area (NPA) within a LATA in order to identify the coin originating NPA.

For access from the TOPS tandem to the customer's POP, the customer must order a separate trunk group for each type of coin control signaling that is utilized among the EAEOs subtending a TOPS tandem.

22.3.3 Testing

The Telephone Company will perform normal acceptance testing for Coin Services as set forth in Section 6. In addition, the Telephone Company will perform testing for coin control and operator functionality features (i.e., coin collect, coin return, 1+ person-to-person, operator recall, overtime, international direct distance dialing and information calls).

The Telephone Company will provide optional testing, at the request of the customer, as set forth in Section 13.

22.3.4 Ordering

Service ordering or modification provisions will apply as set forth in Section 5.

ACCESS SERVICES

22. COIN SERVICES-(Continued)

22.4 Rate Regulations

For customers who choose Option 1 (i.e., receives both 0+ and 1+ interLATA calls directly) or Option 2 (i.e., receives 0+ interLATA calls directly and a secondary service provider receives 1+ interLATA sent-paid traffic), all applicable Switched Access rates and charges in Section 6 and the appropriate Carrier Common Line Access charges in Section 3 will be billed to the customer, whether incurred by the customer or by the secondary service provider on behalf of the customer.

For customers who choose Option 3 (i.e., receives 0+ interLATA calls directly and defaults 1+ interLATA sent-paid traffic), the following charges will be applicable:

The customer will be billed all appropriate Switched Access rates and charges in Section 6 and the Carrier Common Line Access charges as set forth in Section 3 for the 0+ interLATA calls.

The default carrier will be billed all appropriate Switched Access rates and charges as set forth in Section 6 and Carrier Common Line Access charges as set forth in Section 3 for the 1+ interLATA sent-paid traffic.

22.4.1 Liability

Where a customer selects Option 2 (i.e., to receive 0+ interLATA calls directly and a secondary service provider receives 1+ interLATA sent-paid traffic), it shall be the sole duty and obligation of the customer to make any and all arrangements for access billing and settlement with the secondary service provider.

The Telephone Company shall be indemnified, defended and held harmless by the customer and the secondary service provider for any and all claims arising out of any act or omission of the customer and/or secondary service provider relating to access billing, settlement of arrangements and any other issue concerning the relationship between the customer and its authorized secondary service provider.

Issued: June 24, 1994 Effective: August 17, 1994

By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

22. COIN SERVICES-(Continued)

22.4 Rate Regulations-(Continued)

22.4.2 Provision of Message Call Detail Concerning Station Monies

Where Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid pay telephone access is utilized by the customer or default carrier and the customer or default carrier wishes to receive the monies it is due from the monies collected by the Telephone Company from its pay telephone stations, the customer or default carrier shall furnish to the Telephone Company, at a location specified by the Telephone Company, message call detail for the sent-paid pay telephone calls by the customer, selected secondary service provider or default carrier.

The customer, selected secondary service provider or the default carrier will be required to provide call detail messages in accordance with the industry standard Exchange Message Interface (EMI) format guidelines. If a change to the industry standard format is required, the Telephone Company will provide notification to the involved customer or default carrier six months prior to the change. The message call detail records must be submitted to the Telephone Company on a daily or weekly basis, but in no case, later than 30 days from the message date.

22.4.3 Payment of Sent-Paid Monies

The Telephone Company will collect the monies from coin pay telephone stations and will determine and remit amounts due to a customer or default carrier which is provided Operator Trunk-Coin or Combined Coin and Non-Coin or Operator Trunk-Full Feature Optional Features for sent-paid telephone access as set forth in Section 6 as follows:

A. Bill Period Coin Revenue

The Telephone Company will establish a collection schedule for each of its coin pay telephone stations and will collect the monies from the coin pay stations. The Telephone Company will use trending techniques to develop the optimum coin collection schedule associated with each public telephone account. The Telephone Company's collection schedule may vary for each public telephone account. The monies collected during each bill period established by the Telephone Company will be identified by coin pay telephone station and used to develop Bill Period Coin Revenue for each coin record day (the day a record is prepared and dated to show the amount due the customer or default carrier).

ACCESS SERVICES

22. COIN SERVICES-(Continued)

22.4 Rate Regulations-(Continued)

22.4.3 Payment of Sent-Paid Monies-(Continued)

B. Total Customer or Default Carrier Coin Revenue

The total customer or default carrier coin revenue will be determined by the Telephone Company based on:

1. The message call detail records received from the customer, its selected secondary service provider or default carrier, as set forth in 22.4.2 for each bill period, and

2. The Telephone Company collection process associated with each public telephone account for sent-paid coin calls.

C. Recourse Adjustments

For each coin record day, the Telephone Company will subtract from the Total Customer or Default Carrier Coin Revenue an amount for coin station shortages. Coin station shortages are amounts resulting from unauthorized calling at coin pay telephone stations, use of unauthorized coins (e.g., foreign coins, slugs and improper use of U.S. pennies), unauthorized removal of coins from coin pay telephone stations and coin refunds beyond the Telephone Company's control.

Such amount for coin station shortages will be developed by the Telephone Company by multiplying the Total Customer or Default Carrier Coin Revenue for each coin record day by a shortage factor. Such amount will be rounded to the nearest penny. The shortage factor will be determined by dividing the yearly total coin shortage amount by the yearly total coin revenue amount (i.e., total coin revenue equals the coin revenue collected under exchange tariffs, state toll tariffs, and interstate toll tariffs). The total coin shortage amount and the total revenue amount will be determined by the Telephone Company through an annual study.

Issued: June 24, 1994 Effective: August 17, 1994

By M. H. SCHULTEIS, Executive Director-External Affairs
Southwestern Bell Telephone Company
St. Louis, Missouri

ACCESS SERVICES

22. COIN SERVICES-(Continued)

22.4 Rate Regulations-(Continued)

22.4.3 Payment of Sent-Paid Monies-(Continued)

D. Payment of Net Customer or Default Carrier Coin Revenue

The Telephone Company will determine the Net Customer or Default Carrier Coin Revenue for each coin record day by subtracting the amount for coin station shortages determined as set forth in C preceding from the Total Customer or Default Carrier Coin Revenue determined as set forth in B preceding.

E. Refund of Monies from Coin Pay Telephone Stations

When the customer does not choose to receive the 1+ interLATA sent-paid traffic, the secondary service provider or the default carrier will be responsible for processing coin refunds to its end user customers.

22.4.4 Audit Provisions

Upon 30-day written notice by the Telephone Company, the customer or the default carrier shall have the right to audit and examine all records and accounts, as may be deemed necessary under recognized accounting practices, which contain information relevant to the determination of the jurisdiction of monies associated with the pay telephones. It shall be the sole responsibility of the customer to obtain all such necessary information from its selected secondary service provider. The Telephone Company, the customer and the default carrier shall have the following audit rights for Coin Services:

A. The Telephone Company or its authorized representative may, once per year during normal business hours, audit the call message detail records, including any supporting documentation, of the customer, its selected secondary service provider or the default carrier.

B. The customer, the default carrier or their authorized representative, may once per year during normal business hours, audit the Telephone Company's records and accounts, including any supporting documentation, to determine the amounts payable to the customer or the default carrier.

ACCESS SERVICES

22. COIN SERVICES-(Continued)

22.4 Rate Regulations-(Continued)

22.4.4 Audit Provisions-(Continued)

C. If the parties involved mutually agree upon an independent auditor, the Telephone Company and the customer or the default carrier shall agree upon the audit period and make available documentation as set forth in A and B preceding during normal business hours at an agreed upon location.

D. Adjustment shall be made by the proper party to compensate for any errors or omissions disclosed by such examination or audit. Neither such right to examine and audit nor the right to receive such adjustment shall be affected by any statement to the contrary, appearing on checks or otherwise, unless such statement expressly waiving such right appears in a letter signed by the authorized representative of the party having such right and delivered to the other party.

E. All information received or reviewed by the Telephone Company, the customer, the default carrier or their authorized representative is to be considered confidential and is not to be distributed, provided or disclosed in any form to any party not involved in the audit, nor is such information to be used for any other purpose.

ACCESS SERVICE

23. ETHERNET SERVICE

23.1 AT&T SWITCHED ETHERNET SERVICE[SM]

For service description, terms and conditions, and pricing, please see AT&T Switched Ethernet Service described in the AT&T Ethernet Service Guide found at the following website: (RT)

https://cpr.att.com/pdf/commonEthServGuide.html (CT)

Material from page 2 through page 35 is hereby deleted in its entirety and the pages are withdrawn from this Tariff.

ACCESS SERVICE

23. ETHERNET SERVICE

23.1 AT&T SWITCHED ETHERNET SERVICE[SM]

For service description, terms and conditions, and pricing, please see AT&T Switched Ethernet Service described in the AT&T Switched Ethernet Service Guide found at the following website: (AT)

http://cpr.att.com/pdf/commonEthServGuide.html

Material from page 2 through page 35 is hereby deleted in its entirety and the pages are withdrawn from this Tariff. (AT)

(RT)

(AT) **ACCESS SERVICE**

23. ETHERNET SERVICE

23.1 AT&T SWITCHED ETHERNET SERVICE[SM]

The Telephone Company will provide AT&T Switched Ethernet Service to ICs and end users.

23.1.1 Service Description

(A) AT&T Switched Ethernet Service[SM] is a switched Ethernet transport service providing Ethernet transport functionality using fiber and copper access facilities and a switched Ethernet core network.

(B) AT&T Switched Ethernet Service[SM] provides full duplex transport of data signals between a Customer's premises [(1)] and an Ethernet switch in a Telephone Company central office.

(C) AT&T Switched Ethernet Service[SM] supports point-to-point, point-to-multipoint or multipoint-to-multipoint configurations. Point-to-point service provides a connection between two ports. Point-to-multipoint service provides multiple point-to-point connections to multiple ports in the network. Multipoint-to-multipoint service provides a connection between three or more designated ports on the AT&T Switched Ethernet Service[SM] network.

(D) The Telephone Company shall determine the interface specifications for AT&T Switched Ethernet Service[SM] in its sole discretion. Customers may obtain the interface specifications from their account representatives.

(E) AT&T Switched Ethernet Service[SM] provides intraLATA transport service where suitable equipment and facilities are available in selected areas.

Where facilities are not available, facilities may be constructed, subject to certain conditions as determined by the Telephone Company. Special Construction charges may apply.

(F) The minimum period for AT&T Switched Ethernet Service[SM] is 12 months.

(G) Unless otherwise specified in this section, the general terms and conditions of this Intrastate Access Tariff apply to AT&T Switched Ethernet Service[SM] (e.g., Section 2).

(H) AT&T Switched Ethernet Service[SM] will be provisioned using the service components described below. Rates and charges for these components are provided in 23.6, following. AT&T Switched Ethernet Service[SM] is available in two serving arrangements and two types of Customer Port Connections - the Basic Service Arrangement and Basic Ports described in subsection (1), below, and the Per Packet Class of Service Arrangement and PPCOS Ports described in subsection (2), below. Unless specifically stated otherwise, all references to Customer Port Connections or ports in Subsections (1) and (2), below, shall be deemed to refer to Basic Ports and PPCOS Ports, respectively, and all references to Customer Port Connections or ports in other sections of this tariff shall be deemed to refer to both Basic Ports and PPCOS Ports.

(1) Basic Service Arrangement
This type of service provides transport of data using a fixed class of service for each Ethernet virtual connection.

(a) Basic Customer Port Connection (Basic port)

This component provides the physical transport facilities from the Customer's premises to an Ethernet switch at the Telephone Company central office. The Customer Port Connection is available at transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(AT) [(1)] Hereinafter, the phrase "Customer's premises" and "Customer location" (or similar terms) shall be construed to include an end user's premises, as appropriate in the context, where the Customer is a Wholesale Customer and service is terminated at the premises of an end user that is not the Customer of record of the Telephone Company.

ACCESS SERVICE

(RT)

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(b) Committed Information Rate (CIR) and Class of Service (CoS)

CIR, sometimes referred to as the "Logical Channel" of the port, provides the bandwidth available on a Customer Port Connection. CIR is available per Customer Port Connection in increments ranging from 2 Mbps to 10,000 Mbps. CIR is offered with multiple choices for CoS. CoS establishes the performance characteristics of the network that are suitable for certain applications. Each Customer Port Connection (port) has a single CIR and COS associated with it. CoS options are listed as a hierarchy, from "highest" to "lowest" based on network prioritization and performance as follows:

- Real-Time: Supports applications that require minimal loss, are latency-sensitive and require low latency variation (jitter), including voice and video. The service parameters associated with Real-Time CoS are Packet Delivery Rate (PDR), Latency, Jitter, and Network Availability.

- Interactive: Supports high-priority business data applications or jitter-sensitive applications such as voice and video. The service parameters associated with Interactive CoS are PDR, Latency, Jitter, and Network Availability.

- Business Critical-High: Supports most business data applications with moderate tolerance for delay and which are more sensitive to jitter, and have a higher priority than Business Critical-Medium. The service parameters associated with Business Critical-High CoS are PDR, Latency, and Network Availability.

- Business Critical-Medium: Supports most business data applications with moderate tolerance for delay and which are less sensitive to jitter. The service parameters associated with Business Critical-Medium CoS are PDR, Latency, and Network Availability.

- Non-Critical High: Supports low priority business applications with more tolerance for delay and availability. The service parameters associated with Non-Critical High CoS are PDR, Latency, and Network Availability.

(AT)

ACCESS SERVICE

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ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(c) Ethernet Virtual Circuits (EVC)

An EVC provides a logical connection to enable the flow of Ethernet traffic for point-to-point and multipoint Customer configurations. Standard EVCs are not billed to the Customer as a separate rate element. Each EVC is assigned a CIR and CoS that must be equal to or lower than the CIR and CoS of the Port.

Point-to-point EVCs can be set in 1 Mbps increments from 1 Mbps to 2000 Mbps. Multipoint EVCs can be set in 1 Mbps increments from 1 Mbps to 1000 Mbps. Requests for EVC CIR above these limits will be evaluated on an Individual Case Basis, taking into consideration factors such as facility conditions and the impact of the requested configuration on network performance.

The total assigned bandwidth (sum of the CIR for all EVCs) on a single port cannot exceed the selected CIR of that port.

Point-to-point EVCs must be symmetrical; the EVC CIR at each port must be the same.

For multipoint EVCs, the CIR for any EVC may be set according to the bandwidth needed at that port and does not need to be the same at all ports. Ports that do not meet SLA objectives due to overloading of traffic in a multipoint arrangement will not be eligible for the PDR SLA.

The aggregate assigned CIR for all EVCs between any two Customer Port Connections cannot exceed 2000 Mbps (for point-to-point EVCs) or
1000 Mbps (for multipoint EVCs), except when approved on an Individual Case Basis.

The following chart provides the maximum number of EVCs supported for point-to-point and multipoint configurations on each Customer Port Connection:

Per Customer Port Connection	EVCs
100 Mbps	Up to 8 EVCs
1 Gbps	Up to 64 EVCs
10 Gbps	Up to 508 EVCs

(AT)

ACCESS SERVICE

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ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(c) Ethernet Virtual Circuits (EVC) (Cont'd)

Customers may configure EVCs as point-to-point (connecting two locations) or as multipoint (connecting three or more locations), as defined above. Point-to-point EVCs (i.e. EVCs between two ports) can be associated with an unlimited number of MAC addresses. Multipoint EVCs (i.e., EVCs between three or more ports) will be limited to 250 MAC addresses per multipoint EVC on each port, unless the Customer purchases the Additional MAC Addresses optional feature. MAC addresses associated with point-to-point EVCs do no count against this limit. For example, a port that is provisioned with 3 separate multipoint EVCs may have up to 250 MAC addresses associated with each of those EVCs, for a total of 750 MAC addresses in use on that port, but each EVC is still limited to a maximum of 250 MAC addresses.

(d) Frame Size

(CT)
(AT) AT&T Switched Ethernet Service[SM] will be configured to support Ethernet frame sizes up to 9126 bytes on 100 Mbps, 1 Gbps and 10 Gbps port. Frame sizes on 100 Mbps[1] and 1 Gbps ports may be restricted to less than 9126 bytes when the port is provisioned with a CIR speed of 10 Mbps or less but will allow at least 1526 bytes.

(2) Per Packet Class of Service Arrangement

This service arrangement provides transport of data with variable Classes of Service within an Ethernet virtual connection, using a feature called "Per Packet Class of Service" or "PPCoS." With this serving arrangement, the Customer applies a priority identifier to each Ethernet frame (packet) within an EVC, and the packet is given the associated CoS priority level within the AT&T network.

PPCoS Service Arrangement is offered where suitable PPCoS facilities exist, and may not be available at all locations for which the Basic Service Arrangement is available.

(a) PPCoS Customer Port Connection (PPCoS port)

This component provides the physical transport facilities from the Customer's premises to an Ethernet switch at the Telephone Company central office. The Customer Port Connection is available at transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Committed Information Rate (CIR) and Class of Service (CoS) Packages

CIR, sometimes referred to as the "Logical Channel" of the port, provides the bandwidth available on a Customer Port Connection. CIR is available per Customer Port Connection in increments ranging from 2 Mbps to 10,000 Mbps.

Under the PPCoS Service Arrangement, CIR is offered in "packages" that specify the maximum percentage of traffic that may be assigned a given Class of Service in a variety of combinations. Each PPCoS port will be ordered with one PPCoS CIR package. Customers may select a PPCoS CIR package that best matches the characteristics of their data and its associated priority levels.

(AT) [1] 100 Mbps ports installed prior to August 1, 2013, may be limited to 1526 bytes.

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(c) Ethernet Virtual Circuits (EVC) (Cont'd)

Customers may configure EVCs as point-to-point (connecting two locations) or as multipoint (connecting three or more locations), as defined above. Point-to-point EVCs (i.e. EVCs between two ports) can be associated with an unlimited number of MAC addresses. Multipoint EVCs (i.e., EVCs between three or more ports) will be limited to 250 MAC addresses per multipoint EVC on each port, unless the Customer purchases the Additional MAC Addresses optional feature. MAC addresses associated with point-to-point EVCs do no count against this limit. For example, a port that is provisioned with 3 separate multipoint EVCs may have up to 250 MAC addresses associated with each of those EVCs, for a total of 750 MAC addresses in use on that port, but each EVC is still limited to a maximum of 250 MAC addresses.

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(d) Frame Size

AT&T Switched Ethernet Service℠ will be configured to support Ethernet frame sizes up to 1526 bytes on a 100 Mbps port. For service provisioned on 1 Gbps and 10 Gbps ports the maximum frame size will be 9126 bytes. Frame sizes on 1 Gbps ports may be restricted to less than 9126 bytes when the port is provisioned with a CIR speed of 10 Mbps or less but will allow at least 1526 bytes.

(2) Per Packet Class of Service Arrangement

This service arrangement provides transport of data with variable Classes of Service within an Ethernet virtual connection, using a feature called "Per Packet Class of Service" or "PPCoS." With this serving arrangement, the Customer applies a priority identifier to each Ethernet frame (packet) within an EVC, and the packet is given the associated CoS priority level within the AT&T network.

PPCoS Service Arrangement is offered where suitable PPCoS facilities exist, and may not be available at all locations for which the Basic Service Arrangement is available.

(a) PPCoS Customer Port Connection (PPCoS port)

This component provides the physical transport facilities from the Customer's premises to an Ethernet switch at the Telephone Company central office. The Customer Port Connection is available at transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Committed Information Rate (CIR) and Class of Service (CoS) Packages

CIR, sometimes referred to as the "Logical Channel" of the port, provides the bandwidth available on a Customer Port Connection. CIR is available per Customer Port Connection in increments ranging from 2 Mbps to 10,000 Mbps.

Under the PPCoS Service Arrangement, CIR is offered in "packages" that specify the maximum percentage of traffic that may be assigned a given Class of Service in a variety of combinations. Each PPCoS port will be ordered with one PPCoS CIR package. Customers may select a PPCoS CIR package that best matches the characteristics of their data and its associated priority levels.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(c) Ethernet Virtual Circuits (EVC) (Cont'd)

Customers may configure EVCs as point-to-point (connecting two locations) or as multipoint (connecting three or more locations), as defined above. Point-to-point EVCs (i.e. EVCs between two ports) can be associated with an unlimited number of MAC addresses. Multipoint EVCs (i.e., EVCs between three or more ports) will be limited to 50 MAC addresses per multipoint EVC on each port, unless the Customer purchases the Additional MAC Addresses optional feature. MAC addresses associated with point-to-point EVCs do no count against this limit. For example, a port that is provisioned with 3 separate multipoint EVCs may have up to 50 MAC addresses associated with each of those EVCs, for a total of 150 MAC addresses in use on that port, but each EVC is still limited to a maximum of 50 MAC addresses.

(d) Frame Size

AT&T Switched Ethernet Service[SM] will be configured to support Ethernet frame sizes up to 1526 bytes on a 100 Mbps port. For service provisioned on 1 Gbps and 10 Gbps ports the maximum frame size will be 9126 bytes. Frame sizes on 1 Gbps ports may be restricted to less than 9126 bytes when the port is provisioned with a CIR speed of 10 Mbps or less but will allow at least 1526 bytes.

(2) Per Packet Class of Service Arrangement

This service arrangement provides transport of data with variable Classes of Service within an Ethernet virtual connection, using a feature called "Per Packet Class of Service" or "PPCoS." With this serving arrangement, the Customer applies a priority identifier to each Ethernet frame (packet) within an EVC, and the packet is given the associated CoS priority level within the AT&T network.

PPCoS Service Arrangement is offered where suitable PPCoS facilities exist, and may not be available at all locations for which the Basic Service Arrangement is available.

(a) PPCoS Customer Port Connection (PPCoS port)

This component provides the physical transport facilities from the Customer's premises to an Ethernet switch at the Telephone Company central office. The Customer Port Connection is available at transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Committed Information Rate (CIR) and Class of Service (CoS) Packages

CIR, sometimes referred to as the "Logical Channel" of the port, provides the bandwidth available on a Customer Port Connection. CIR is available per Customer Port Connection in increments ranging from 2 Mbps to 10,000 Mbps.

Under the PPCoS Service Arrangement, CIR is offered in "packages" that specify the maximum percentage of traffic that may be assigned a given Class of Service in a variety of combinations. Each PPCoS port will be ordered with one PPCoS CIR package. Customers may select a PPCoS CIR package that best matches the characteristics of their data and its associated priority levels.

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ACCESS SERVICE

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ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)

(b) Committed Information Rate (CIR) and Class of Service (CoS) Packages (Cont'd)

PPCoS Packages (listed in hierarchical order from highest priority to lowest priority):

1. **Multimedia High** - Allows Customer to designate up to 100% of port CIR as "Real Time" and remaining percentage (if any)can be divided among any/all CoS (below Real Time) as ordered.[1]
2. **Multimedia Standard** - Allows Customer to designate up to 50% of port CIR as "Real Time" and the remaining percentage can be divided among any/all CoS (below Real Time) as ordered.[1]
3. **Critical Data** - Allows Customer to designate up to 80% of port CIR as "Business Critical - High" and the remaining percentage can be divided among any/all CoS (below Business Critical - High) as ordered.[1]
4. **Business Data** - Allows Customer to designate up to 90% of port CIR as "–Business Critical - Medium" and the remaining percentage can be divided among any/all CoS (below Business Critical - Medium) as ordered.[1]

(c) Per Packet Class of Service - Classes of Service

The PPCoS CIR packages are provisioned on PPCoS ports and allow the customer to apply a CoS priority indicator to each Ethernet frame (packet) and AT&T will route the packet with the assigned CoS priority. The customer-assigned priority will signify which of the following six Classes of Service AT&T will apply to that frame. PPCoS Ports support the same Classes of Service as are supported by the Basic Service Arrangement, plus an additional Class of Service (Non-Critical - Low) as described below. CoS options are listed as a hierarchy, from "highest" to "lowest" based on network prioritization and performance as follows:

- Real-Time
- Interactive
- Business Critical-High
- Business Critical-Medium
- Non-Critical High
- Non-Critical Low: Supports the lowest priority traffic.

(d) PPCoS Scheduling Method

PPCoS ports can be ordered in one of two available configurations in order to support different "scheduling methods." The AT&T Switched Ethernet Service[SM] network components will create a separate queue for each CoS served according to its weight/priority to ensure that higher CoS packets are prioritized over lower, but that even the lowest CoS is not "starved". (AT)

[1] These CoS settings may be ordered in 5% increments (between 5% and 30%) and in 10% increments (from 40% to 100%).

ACCESS SERVICE

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(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)

(d) PPCoS Scheduling Method (Cont'd)

Port-Level Scheduling: Under this method, AT&T will prioritize all traffic on the port using a single queue schedule, so that the specified percentages of each priority are allowed to transit the network. This is the only option applicable to "port-based" service. This method can also be used for VLAN-based ports if the Customer desires CoS priority to be applied as a single queue at the port level.

VLAN Level Scheduling: Under this method, there are individual scheduling queues for each VLAN on the port and the priority or volume of packets on one VLAN have no impact on another VLAN. This may be appropriate when the Customer needs each VLAN to have its own prioritization schedule without impacting other VLANs on the port.

Requests to change the type of PPCoS Scheduling Method of an existing port may require a new port to be ordered

(e) Ethernet Virtual Circuits (EVC)

An EVC provides a logical connection to enable the flow of Ethernet traffic for point-to-point and multipoint Customer configurations. Standard EVCs are not billed to the Customer as a separate rate element. Each EVC is assigned a CIR that must be equal to or lower than the CIR of the Port. Under the PPCoS serving arrangement, each EVC must also be given a CoS profile specifying the proportion of each desired CoS (% of each CoS) on that EVC. The CoS allocation must be within the limits of the CIR package subscribed on that PPCoS port.

Point-to-point EVCs can be set in 1 Mbps increments from 1 Mbps to 2000 Mbps. Multipoint EVCs can be set in 1 Mbps increments from 1 Mbps to 1000 Mbps. Requests for EVC CIR above these limits will be evaluated on an Individual Case Basis, taking into consideration factors such as facility conditions and the impact of the requested configuration on network performance.

The total assigned bandwidth (sum of the CIR for all EVCs) on a single port cannot exceed the selected CIR of that port.

Point-to-point EVCs must be symmetrical; the EVC CIR at each port must be the same.

For multipoint EVCs, the CIR for any EVC may be set according to the bandwidth needed at that port and does not need to be the same at all ports. Ports that do not meet SLA objectives due to overloading of traffic in a multipoint arrangement will not be eligible for the PDR SLA.

The aggregate assigned CIR for all EVCs between any two Customer Port Connections cannot exceed 2000 Mbps (for point-to-point EVCs) or 1000 Mbps (for multipoint EVCs), except when approved on an Individual Case Basis.

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ACCESS SERVICE

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ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)

(e) Ethernet Virtual Circuits (EVC) (Cont'd)

The following chart provides the maximum number of EVCs supported for point-to-point and multipoint configurations on each Customer Port Connection:

Per Customer Port Connection	EVCs
100 Mbps	Up to 8 EVCs
1 Gbps	Up to 64 EVCs
10 Gbps	Up to 508 EVCs

(CT) Customers may configure EVCs as point-to-point (connecting two locations) or as multipoint (connecting three or more locations), as defined above. Point-to-point EVCs (i.e., EVCs between two ports) can be associated with an unlimited number of MAC addresses. Multipoint EVCs (i.e., EVCs between three or more ports) will be limited to 250 MAC addresses per multipoint EVC on each port, unless the Customer purchases the Additional MAC Addresses optional feature. MAC addresses associated with point-to-point EVCs do no count against this limit. For example, a port that is provisioned with 3 separate multipoint EVCs may have up to (CT) 250 MAC addresses associated with each of those EVCs, for a total of 750 MAC addresses in (CT) use on that port, but each EVC is still limited to a maximum of 250 MAC addresses.

(f) Frame Size

(CT) AT&T Switched Ethernet Service[SM] will be configured to support Ethernet frame sizes up to 9126 bytes on a 100 Mbps, 1 Gbps and 10 Gbps port. Frame sizes on 100 Mbps[1] and 1 Gbps ports may be restricted to less than 9126 bytes when the port is provisioned with a CIR speed of 10 Mbps or less but will allow at least 1526 bytes.

(AT) [1] 100 Mbps ports installed prior to August 1, 2013, may be limited to 1526 bytes.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(2) Per Packet Class of Service Arrangement (Cont'd)

(e) Ethernet Virtual Circuits (EVC) (Cont'd)

The following chart provides the maximum number of EVCs supported for point-to-point and multipoint configurations on each Customer Port Connection:

Per Customer Port Connection	EVCs
100 Mbps	Up to 8 EVCs
1 Gbps	Up to 64 EVCs
10 Gbps	Up to 508 EVCs

Customers may configure EVCs as point-to-point (connecting two locations) or as multipoint (connecting three or more locations), as defined above. Point-to-point EVCs (i.e., EVCs between two ports) can be associated with an unlimited number of MAC addresses. Multipoint EVCs (i.e., EVCs between three or more ports) will be limited to 50 MAC addresses per multipoint EVC on each port, unless the Customer purchases the Additional MAC Addresses optional feature. MAC addresses associated with point-to-point EVCs do no count against this limit. For example, a port that is provisioned with 3 separate multipoint EVCs may have up to 50 MAC addresses associated with each of those EVCs, for a total of 150 MAC addresses in use on that port, but each EVC is still limited to a maximum of 50 MAC addresses.

(f) Frame Size

AT&T Switched Ethernet Service[SM] will be configured to support Ethernet frame sizes up to 1526 bytes on a 100 Mbps port. For service provisioned on 1 Gbps and 10 Gbps ports, the maximum frame size will be 9126 bytes. Frame sizes on 1 Gbps ports may be restricted to less than 9126 bytes when the port is provisioned with a CIR speed of 10 Mbps or less but will allow at least 1526 bytes.

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ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions

(a) Regenerator

Regenerators provide detection and retransmission of Ethernet signals and are used to provide service when the distance to an Ethernet switch exceeds otherwise applicable design limits. The Telephone Company will determine whether regenerators are needed and what transport medium and equipment will be used to provide regeneration. Regenerators are available on a per-port basis and are available for 100 Mbps, 1 Gbps and 10 Gbps ports.

(b) Additional MAC Addresses

The Additional MAC Address feature is offered on a per port basis. When a Customer subscribes to this feature, the MAC address limit associated with multipoint EVCs (as shown in 23.1(1)(c), preceding) shall be increased from 250 to 500 for each multipoint EVC present on that port. (CT)

(c) AT&T BusinessDirect® Customer Network Management

The AT&T BusinessDirect® web portal offers a Customer network management feature to all Customers subscribing to AT&T Switched Ethernet Service℠ at no additional charge. Available functions include network inventory map, alarm surveillance, SLA reporting, performance reporting, maintenance trouble reporting and status updates, and the ability to request credit for SLA conditions. Customers must have a web interface to access and monitor their network using the AT&T BusinessDirect® web portal. SLA reporting does not include traffic to or from any ICO NNI Trunking Arrangement.

(d) Alternate Serving Switch

The Alternate Serving Switch option allows Customers to order AT&T Switched Ethernet Service℠ from an AT&T Switched Ethernet Service℠ switch that is different from the AT&T Switched Ethernet Service℠ switch that would normally serve the Customer's premises. The Alternate Serving Switch charges apply for mileage measured between the AT&T Switched Ethernet Service℠ alternate switch wire center and the Customer's premises serving wire center.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions

(a) Regenerator

Regenerators provide detection and retransmission of Ethernet signals and are used to provide service when the distance to an Ethernet switch exceeds otherwise applicable design limits. The Telephone Company will determine whether regenerators are needed and what transport medium and equipment will be used to provide regeneration. Regenerators are available on a per-port basis and are available for 100 Mbps, 1 Gbps and 10 Gbps ports.

(b) Additional MAC Addresses

The Additional MAC Address feature is offered on a per port basis. When a Customer subscribes to this feature, the MAC address limit associated with multipoint EVCs (as shown in 23.1(1)(c), preceding) shall be increased from 50 to 100 for each multipoint EVC present on that port.

(c) AT&T BusinessDirect® Customer Network Management

The AT&T BusinessDirect® web portal offers a Customer network management feature to all Customers subscribing to AT&T Switched Ethernet Service℠ at no additional charge. Available functions include network inventory map, alarm surveillance, SLA reporting, performance reporting, maintenance trouble reporting and status updates, and the ability to request credit for SLA conditions. Customers must have a web interface to access and monitor their network using the AT&T BusinessDirect® web portal. SLA reporting does not include traffic to or from any ICO NNI Trunking Arrangement.

(d) Alternate Serving Switch

The Alternate Serving Switch option allows Customers to order AT&T Switched Ethernet Service℠ from an AT&T Switched Ethernet Service℠ switch that is different from the AT&T Switched Ethernet Service℠ switch that would normally serve the Customer's premises. The Alternate Serving Switch charges apply for mileage measured between the AT&T Switched Ethernet Service℠ alternate switch wire center and the Customer's premises serving wire center.

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ACCESS SERVICE

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ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions (Cont'd)

(e) Diverse Access

Diverse Access is a feature that provides transmission paths, which are diverse from each other as provided in this Section, between two designated AT&T Switched Ethernet Service℠ Port Connections at the same Customer premises and an AT&T Switched Ethernet Service℠ switch. These two designated Port Connections must be purchased by the same Customer of record, and must be either 1 Gbps or 10 Gbps. Customers purchasing Diverse Access will be charged a Diverse Access feature charge associated with each of the two designated Port Connections.

Each designated Port Connection will be provisioned on different Network Terminating Equipment (NTE). The fiber path from each designated Port Connection to the AT&T Switched Ethernet Service℠ serving switch will be diverse from the path for the other designated Port Connection, from the closest available point of divergence (e.g., the closest manhole to the Customer premises or the closest Serving Wire Center to the Customer premises) and, where alternate switches are available, will be terminated on a different AT&T Switched Ethernet Service℠ switch. In the event of an outage affecting one of the designated Port Connections, the Customer will be responsible for re-routing their traffic to the other designated Port Connection.

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

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ACCESS SERVICE

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ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions (Cont'd)

(f) Advanced Access Failover

Advanced Access Failover (AAF) is designed to provide automatic failover to a redundant facility in the event of a failure of a protected facility. (CT)

When a port is ordered with an AAF serving arrangement, it will be constructed with a single Customer interface, but with additional facilities within the network. There will be two fiber pairs (instead of the normal (single pair) connecting the Network Terminating Equipment (NTE) to two different core Ethernet switches in the AT&T Switched Ethernet core network. These two fiber pairs will be diverse from each other from the closest available point of divergence (e.g., the closest manhole to the Customer premises or the closest Serving Wire Center to the Customer premises). The two facilities will operate in a "hot/standby" arrangement where "hot" represents the actively used transmission path and "standby" represents an alternate path that is unused until needed. In the event the AT&T Switched Ethernet Service network senses a disruption to a diverse portion of the facilities, it will automatically fail over from the hot path to the standby path, and the Ethernet Virtual Connections (EVCs) associated with that port will continue to operate over the standby path. (CT)

Notwithstanding the previous paragraph, under certain circumstances, the standby path may become unavailable, preventing AAF from functioning properly. AT&T's monitoring of AAF arrangements may not detect all potential failures of standby paths, and AT&T does not guarantee standby path availability in case of a disruption of a hot path. Customers may use AT&T Express Ticketing (available at https://expressticketing.acss.att.com/expressticketing/) to check the status of an AAF arrangement, including the availability of standby paths. If AT&T Express Ticketing identifies an issue with an AAF arrangement, the system will generate a trouble ticket regarding the issue. AT&T recommends that Customers use AT&T Express Ticketing to check their AAF arrangements periodically, and Customers may do so as often as they wish. AT&T is not liable for any service disruptions due to the unavailability of a standby path. (AT) (AT)

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

AAF is available only for 1 Gbps or 10 Gbps Customer Port Connections and is ordered on a per port basis. (MT)

(AT)

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions (Cont'd)

(f) Advanced Access Failover

Advanced Access Failover ("AAF") provides automatic failover to a redundant facility in the event of a failure of a protected facility.

When a port is ordered with an AAF serving arrangement, it will be constructed with a single Customer interface, but with additional facilities within the network. There will be two fiber pairs (instead of the normal single pair) connecting the Network Terminating Equipment (NTE) to two different routers in the AT&T Switched Ethernet core network. These two fiber pairs will be diverse from each other from the closest available point of divergence (e.g., the closest manhole to the Customer premises or the closest Serving Wire Center to the Customer premises). The two facilities will operate in a "hot/standby" arrangement where "hot" represents the actively used transmission path and "standby" represents an alternate path that is unused until needed. In the event the AT&T Switched Ethernet Service℠ network senses a disruption to a diverse portion of the facilities, it will automatically failover from the hot path to the standby path and the Ethernet Virtual Circuits (EVCs) associated with that port will continue to operate over the standby path. AAF does not include construction of dual entrance facilities. If a Customer desires dual entrance facilities and they do not currently exist, arrangements must be made for constructing dual entrance facilities at the Customer's expense.

AAF is available only for 1Gbps or 10Gbps Customer Port Connections and is ordered on a per port basis.

(g) Enhanced Multicast

The Enhanced Multicast feature allows the broadcast/multicast/unknownunicast (BUM) traffic limit associated with multipoint EVCs to be increased from 2 Mbps up to 30 Mbps per EVC. The Enhanced Multicast feature is offered on a per port basis. Once the feature is ordered on a port, each multipoint EVC on that port may be provisioned to allow up to 30 Mbps of combined BUM traffic, orderable in 1 Mbps increments. EVC orders for such ports that do not specify a higher limit as allowed under this feature will be limited to the standard default of 2 Mbps BUM limit.

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Southwestern Bell Telephone
Company d/b/a AT&T Missouri

ACCESS SERVICE

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ACCESS SERVICE (AT)

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(3) Optional Features and Functions (Cont'd) (AT)

(g) Enhanced Multicast (MT)

The Enhanced Multicast feature allows the broadcast/multicast/unknown unicast (BUM) traffic limit associated with multipoint EVCs to be increased from 2 Mbps up to 30 Mbps per EVC. The Enhanced Multicast feature is offered on a per port basis. Once the feature is ordered on a port, each multipoint EVC on that port may be provisioned to allow up to 30 Mbps of combined BUM traffic, orderable in 1 Mbps increments. EVC orders for such ports that do not specify a higher limit as allowed under this feature will be limited to the standard default of 2 Mbps BUM limit. (MT)

ACCESS SERVICE

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ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.1 Service Description (Cont'd)

(H) (Cont'd)

(4) Incumbent Local Exchange Carrier Meet Point Arrangement

In some cases, the Telephone Company and another Incumbent Local Exchange Carrier (ILEC, sometimes also referred to as an Independent Company or ICO) may agree to jointly provide an Ethernet service where such service will be provided to locations in both the Telephone Company's and the other ILEC's serving territories within the same LATA. In such cases, the Telephone Company and the other ILEC may mutually agree to meet at a location (i.e., meet point) within the LATA utilizing facilities suitable for delivery of AT&T Switched Ethernet Service℠. The rates and charges for AT&T Switched Ethernet Service℠ are applicable for the Telephone Company provided portion of such service. The Telephone Company is responsible for the ordering, provisioning, billing and maintenance of such AT&T Switched Ethernet Service℠ up to the meet point.

Service Level Agreement (SLA) credits in 23.2, following, will apply for the portion of the service the Telephone Company provides. Such SLA credits are applicable for missed commitments determined to be the fault of the Telephone Company.

Ordering and provisioning procedures may vary and, therefore meet point rate elements and charges may not be applicable, when the other ILEC involved in the meet point arrangement is an AT&T ILEC.

Meet point arrangements, where available, may be offered in two configurations:

Direct LEC is a dedicated AT&T Switched Ethernet Service℠ port connection that provides connectivity from a Telephone Company Ethernet switch to a meet point with the other ILEC. In addition to port, CIR and any other rates and charges applicable to the AT&T Switched Ethernet Service℠, Direct LEC Additional Mileage charges will apply based on the airline distance measured from the meet point to the wire center in which the Ethernet switch for AT&T Switched Ethernet Service℠ is located.

ICO NNI Arrangement (ICO Trunking Arrangement) provides a shared trunk connection from the AT&T Switched Ethernet Service℠ switch to the meet-point that is then connected to the ILEC (ICO) Ethernet switch, for purposes of providing multiple Ethernet Virtual Connections (EVCs) for the same or different customers over this shared facility. The ICO Trunk Connection charge is applied to each EVC that is transported on the ICO Trunking Arrangement. The Additional Mileage charge is based on the distance measured from the AT&T Switched Ethernet Service℠ switch to the meet point for mileage that exceeds 10 miles and is applicable to each ICO Trunking Arrangement EVC transported across the shared facility.

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(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.2 Service Level Agreement (SLA)

(A) Class of Service (CoS) SLA

CoS SLA credits will be granted for AT&T Switched Ethernet Service[SM] if the Telephone Company fails to meet service parameters (i.e., Latency, Packet Delivery Rate (PDR) and Jitter) defined for each CoS, subject to the following terms and conditions:

(1) The Customer must notify the Telephone Company when the service parameters within any calendar month fail to meet the committed level.

(2) The Customer must request a service credit within 45 days after the end of the month when the failure occurred.

(3) Upon verification by the Telephone Company that the actual service performance for that parameter failed to meet the committed level, the Telephone Company has one month to correct the problem.

(4) If after one month, the service performance for that parameter is still failing to meet the committed level, the Customer will be provided a service credit equal to 25% of the monthly recurring charge for all affected ports (for each of the SLAs other than Network Availability). Only one such credit, per port, shall be applied per calendar month.

(5) Latency may vary on ports with Real Time CIR of 10 Mbps or below and Real Time EVCs on such ports are excluded from calculations that determine whether the latency SLA is met.

(6) Real Time EVCs between ports that are connected with an inter-Central Office facilities path extending more than 200 miles or those with EVC CIRs in excess of 1000 Mbps and/or using a PPCoS serving arrangement with a package exceeding 1000 Mbps Real Time are not subject to the Real Time Latency SLA and are excluded from calculations that determine whether the Latency SLA is met.

(7) Latency, Jitter, and Packet Delivery Rate (PDR) SLA

Latency, Jitter and Packet Delivery Rate (PDR) are measured by averaging sample measurements taken during a calendar month between the NTE to which the Customer ports are attached (i.e., end to end), when the AT&T Switched Ethernet Service[SM] network is available for use by the Customer. The SLA service parameters are based on a LATA-wide average of the Customer's one-way traffic traversing the NTE and the network. The SLA target for Latency and Jitter is to be not more than, and for PDR is to be not less than, the applicable amount set forth in the table below. Notwithstanding the foregoing, these SLA measurements do not include traffic to or from any ICO NNI Trunking Arrangement.

The following table displays the CoS SLA service parameters:

Class of Service	**Service Measurement**		
	Latency (one-way)	Jitter	Packet Delivery Rate (PDR)
Real Time	5 ms	3 ms	99.995%
Interactive	13 ms	10 ms	99.95%
Business Critical – High	20 ms	n/a	99.9%
Business Critical – Medium	30 ms	n/a	99.9%
Non-Critical High	50 ms	n/a	99.5%
Non-Critical Low[1]	n/a	n/a	n/a

(AT) [1]This CoS is only offered as part of the PPCoS Package.

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(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE^{SM} (CONT'D)

23.1.2 Service Level Agreement (SLA) (Cont'd)

(B) Network Availability SLA

The SLA service parameter for Network Availability is to be not less than 99.99% for all ports regardless of Class of Service. Network Availability is calculated as the percentage of time during a month that the network is capable of accepting and delivering Customer data during the measurement period. Network Availability includes the Ethernet core network and the local loop, and the calculation excludes maintenance windows. The calculation for Network Availability for a given month is as follows:

Network Availability = [(24 hours x days in the month x 60 minutes x number of Customer ports in the LATA) – network outage time] / (24 hours x days in the month x 60 minutes x number of Customer ports in the LATA).

The Customer is responsible for (1) notifying AT&T within 45 days after the end of the month when the Network Availability within the calendar month falls below the committed level, and (2) requesting a service credit.

Upon verification by AT&T that the actual service performance for Network Availability was less than the committed level, the Customer will be provided a service credit equal to 10 percent of the Monthly Recurring Charge (MRC) for all affected ports.

(C) Credit Allowance for Service Interruptions

Service is considered to be interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this Tariff. The interruption must result in the complete loss of service by the customer. An interruption period starts when an inoperative service is reported to the Telephone Company and ends when the service is operative.

The credit allowance for an interruption or for a series of interruptions shall be calculated based on the applicable monthly rate for the port (or ports) which were interrupted, including the other rate elements associated with that port (CIR, repeater, etc.). No credit shall be applicable to other ports on the network that were uninterrupted, even if they were unable to connect to an interrupted port.

No credit shall be allowed for an interruption period of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or fraction thereof that the interruption continues after the initial 30 minute interruption.

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23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.2 Service Level Agreement (SLA) (Cont'd)

(D) SLA Exclusions

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

(1) Any cause beyond the Telephone Company's reasonable control (force majeure events) including, but not limited to, acts of war, civil disturbances, acts of civil or military authorities or public enemies, earthquakes, hurricanes, floods, fires, storms, tornadoes, explosions, lightning, power surges or failures, fiber cuts, strikes or labor disputes;

(2) Failures of any structures, facilities or equipment provided by the Customer or its contractors, equipment vendors, or by any carrier or service provider other than the Telephone Company;

(3) Interruptions caused by the negligence of the customer.

(4) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.

(5) When the Telephone Company and the Customer negotiate the release of the service for (1) maintenance purposes, (2) to make rearrangements or (3) to implement an order for a change in the service, a credit does not apply during the negotiated time of release.

(6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis.

(7) Data loss during the Telephone Company's scheduled maintenance windows;

(8) Data exceeding subscribed CIR;

(9) Failures of any structures, facilities or equipment on the Customer's side of the demarcation point.

The total credit amount of any allowances for interruptions and SLA credits applicable in a given month shall not exceed 100% of the monthly recurring charge for the port and associated rate elements.

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(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.3 Limitations and Provisioning

(A) A Customer shall not be permitted to temporarily suspend service.

(B) The Telephone Company may use controls to limit the amount of multicast, broadcast, and unknown unicast traffic to protect the AT&T Switched Ethernet network against traffic storms. The maximum throughput of combined multicast / broadcast / unknown unicast traffic will be set at 2 Mbps per EVC on multipoint EVCs, unless the Customer purchases the Enhanced Multicast optional feature in Section 23.1(H)(3)(g), above. There is no restriction on point-to-point or point-to-multipoint multicast traffic. Packets dropped by traffic controls are not included in SLA calculations. The Telephone Company recommends that Customers enable controls for multicast, broadcast, and unknown unicast traffic within the Customer network(s).

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(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.4 Ethernet Payment Plan (EPP)

(A) To subscribe to AT&T Switched Ethernet Service[SM], the Customer must select one of the EPP options below. The service is not available to be subscribed to on a month-to-month basis.

Ethernet Payment Plan Options				
12 Months	24 Months	36 Months	48 months	60 months

(B) Nonrecurring charges shown in 23.6, following, will be waived for Customers subscribing to new service under an EPP, or for Customers subscribing to a new EPP for an existing service, subject to (F), below. For moves of service and service reconfigurations, nonrecurring charges will apply as specified in (G) and (H), following.

(C) During the Customer's EPP term, Telephone Company initiated recurring rate changes (i.e., rate increases or decreases) will be automatically applied to the Customer's EPP rates for the months remaining in the Customer's EPP term. However, at no time during the Customer's EPP term will rates exceed the Customer's initial EPP rates.

(D) When an EPP term expires, the Customer may select a new EPP term from among any EPP options which are then available to new Customers hereunder. EPP rates in effect at the time the new EPP term starts will apply. If the Customer selects such new EPP term at least 90 days in advance of the existing EPP term expiration date, the new EPP term will begin immediately upon the expiration of the existing EPP term. If the Customer selects such new EPP term, but does not do so at least 90 days in advance of the existing EPP term expiration date, the Term Extension Month-to-Month Rates will apply between the expiration of the existing EPP term and the date upon which the Telephone Company implements the new EPP term in its billing system.

(E) The Term Extension Month-to-Month (MTM) rates in 23.6, following will apply when a Customer's EPP term expires. The Customer will be billed the MTM rates in effect from time to time until such time as the Customer selects a new EPP or the Service is terminated.

(F) Termination Liability will apply if the Customer disconnects service prior to the end of the selected EPP. Termination Liability will be determined based on the number of months remaining in the EPP term times 50% of the applicable EPP monthly rates, calculated as follows:

[(EPP Monthly Rates) X (Months Remaining in EPP Term)] X 50%

In addition, the Customer must pay all nonrecurring charges that were waived, as specified in (B), above.

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23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.4 Ethernet Payment Plan (EPP) (Cont'd)

(G) Moves

Moves involve a change in the physical location of one of the following:

- Point of service demarcation in the same building; or
- Change of Customer premises to a new building

(1) When the move is to a different location within the same building (i.e., results in a different point of service demarcation in the same building, such as a move to a different floor), previously waived nonrecurring charges associated with the existing service (if still under term) will be charged for all service components affected.

A new EPP term is not required (if still under EPP term) and Termination Liability will not apply for such a move. For move requests from customers who have completed an EPP term and are currently being billed Term Extension MTM rates, a new EPP is required for the service at the new location.

(2) When the move is to a different building (i.e., a different Customer premises), such a move is treated as a discontinuance of service and activation of new service. The previously waived non-recurring charges at the disconnecting location will be billed (if EPP term has not expired).

The Customer must select an EPP term for the new service at the new location. The new EPP term will be subject to the rates in effect at the time of the move. Termination liability will also apply for such a move except where all of the following conditions apply:

(a) The existing and new service locations must be served by the same serving wire center.

(b) The Customer's existing service must have been in place for at least 12 months.

(c) The Customer must select a new EPP with a term that is greater than or equal to the remainder of the existing EPP.

(d) Orders from the Customer to disconnect the existing service and reestablish service at the new location must be placed by the Customer and received by the Telephone Company on the same date.

(e) No lapse in billing will occur for moves of service under an EPP. If the Customer requests that both the existing AT&T Switched Ethernet Service℠ and the new AT&T Switched Ethernet Service℠ be in service at same time, such "overlapping" service shall be provided for no more than 30 days, and all applicable charges will be billed for both services during the period of overlapping service.

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(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.4 Ethernet Payment Plan (EPP) (Cont'd)

(H) Service Reconfigurations

The Customer may reconfigure service, subject to the conditions below.

(1) Reconfigurations Involving Changes to the Customer Port Connection:

(a) For reconfigurations to a higher-capacity Customer Port Connection, or from a Basic Port to a PPCoS Port, previously waived nonrecurring charges associated with the existing service will be charged for all service components affected if such reconfiguration occurs prior to the expiration of the EPP term. An example of such upgrade would be a change from a 1 Gbps to a 10 Gbps Customer Port Connection. The Customer must select a new EPP term for the new configuration. The new EPP term will be subject to the rates in effect at the time of the reconfiguration.

EPP Termination Liability will not apply, subject to the following conditions:

– The upgraded service must be at a higher capacity than the existing service; and

– The new and existing services must be billed to the same Customer of record at the same Customer location; and

– The new EPP term selected is equal to or greater than the remainder of the EPP term of the disconnected service.

(b) For reconfigurations to a lower capacity of the Customer Port Connection, or from a PPCoS Port to a Basic Port, EPP Termination Liability and nonrecurring charges will apply as set forth in (F), preceding, to all service components affected. An example of such a downgrade would be a change from a 1 Gbps to 100 Mbps Customer Port Connection. The Customer must select a new EPP term for the reconfigured service. The new EPP term will be subject to the rates in effect at the time of the reconfiguration

(2) Reconfigurations Involving Changes to the CoS and CIR

Reconfigurations that require changes to the CoS, PPCoS Package, or CIR are subject to the nonrecurring charges associated with the new CoS, PPCoS Package, or CIR service components. EPP Termination Liability will not apply to such reconfigurations. The term effective dates associated with the Customer Port Connection shall apply to the associated CIR/CoS. For example, a customer with a 60-month term on original port and CIR configuration may change the CIR in month 48, while still keeping the original EPP expiration date associated with both port and CIR.

(3) Other Reconfigurations

(a) For reconfigurations not defined in (1) or (2), preceding, the nonrecurring charge associated with the Customer Port Connection will apply. An example of such change would be a Customer-requested change from a multi-mode fiber interface to a single-mode fiber interface. EPP Termination Liability will not apply to such reconfiguration changes.

(4) For any of the reconfigurations described above, any Customer that has completed an EPP term and is being billed at Term Extension MTM rates must select a new EPP term for the reconfigured service. (AT)

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23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.4 Ethernet Payment Plan (EPP) (Cont'd)

(l) Upgrades to a Higher Level of Service

A Customer may upgrade from AT&T Switched Ethernet Service℠ to a different service provided by the Telephone Company, as provided herein. EPP Termination Liability will not apply, if all of the following conditions are met:

(a) Either:

– The new service as requested by the Customer must be at a transport speed or capacity greater than the speed or capacity of AT&T Switched Ethernet Service℠, or

– The new service must offer the same transport speed or capacity as available with AT&T Switched Ethernet Service℠ and include technology or functionality not available with AT&T Switched Ethernet Service℠.

(b) The new service and existing AT&T Switched Ethernet Service℠ must be billed to the same Customer of record at the same Customer location.

(c) The Customer's existing AT&T Switched Ethernet Service℠ must have been in place for at least 12 months.

(d) The minimum term for the new service must be equal to or greater than the remainder of the Customer's existing EPP term.

(e) The order for the new service and the disconnect order for the existing service must be placed by the Customer and received by the Telephone Company on the same date.

(f) If the Customer requests that both the existing AT&T Switched Ethernet Service℠ and the new higher level service be in service at the same time, such "overlapping" service shall be provided for no more than 90 days, and all applicable charges will be billed for both services during the period of overlapping service.

(g) Nothing in this section shall prohibit upgrades within the AT&T Switched Ethernet Service℠ as allowed under the terms contained elsewhere in this Tariff.

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23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.5 Rate Conditions

(A) AT&T Switched Ethernet Service[SM] components and associated charges are set forth in (B), below.

(B) Rate Elements

(1) Basic Service Arrangement

(a) Customer Port Connection (Basic Port)

EPP monthly rates apply, per port, for transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Class of Service (CoS), Committed Information Rate (CIR)

The Customer must select a CIR for each Basic Port. The CIR for the Basic Service Arrangement has five choices for fixed CoS. The CIR selected cannot exceed the Customer Port Connection capacity. Table A, below, shows the CIR available for each Customer Port Connection.

Table A

Customer Port Connection	CIR Bandwidth Supported
100 Mbps	2 Mbps – 100 Mbps
1 Gbps	2 Mbps – 1000 Mbps
10 Gbps	1000 Mbps – 10,000 Mbps

(2) PPCOS Service Arrangement

(a) Customer Port Connection (PPCOS Port)

EPP monthly rates apply, per port, for transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Class of Service (CoS), Committed Information Rate (CIR)

The Customer must select a CIR for each PPCoS Port. The CIR for the PPCoS Service Arrangement has 4 "packages" that specify the maximum percentage of traffic that may be assigned a given Class of Service in a variety of combinations. Customers may select a PPCoS CIR package that best matches the characteristics of their data and its associated priority levels. The CIR selected cannot exceed the Customer Port Connection capacity. Table B, below, shows the CIR available for each Customer Port Connection.

Table B

Customer Port Connection	CIR Bandwidth Support
100 Mbps	2 Mbps – 100 Mbps
1 Gbps	2 Mbps – 1000 Mbps
10 Gbps	1000 Mbps – 10,000 Mbps

(3) Optional Features and Functions

(a) Additional MAC Addresses

(CT) A nonrecurring charge and monthly charge apply, per port, for increasing the MAC address limit to 500 MAC addresses per Multipoint EVC.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.5 Rate Conditions

(A) AT&T Switched Ethernet Service[SM] components and associated charges are set forth in (B), below.

(B) Rate Elements

(1) Basic Service Arrangement

(a) Customer Port Connection (Basic Port)

EPP monthly rates apply, per port, for transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Class of Service (CoS), Committed Information Rate (CIR)

The Customer must select a CIR for each Basic Port. The CIR for the Basic Service Arrangement has five choices for fixed CoS. The CIR selected cannot exceed the Customer Port Connection capacity. Table A, below, shows the CIR available for each Customer Port Connection.

Table A

Customer Port Connection	CIR Bandwidth Supported
100 Mbps	2 Mbps – 100 Mbps
1 Gbps	2 Mbps – 1000 Mbps
10 Gbps	1000 Mbps – 10,000 Mbps

(2) PPCOS Service Arrangement

(a) Customer Port Connection (PPCOS Port)

EPP monthly rates apply, per port, for transmission speeds of 100 Mbps, 1 Gbps and 10 Gbps.

(b) Class of Service (CoS), Committed Information Rate (CIR)

The Customer must select a CIR for each PPCoS Port. The CIR for the PPCoS Service Arrangement has 4 "packages" that specify the maximum percentage of traffic that may be assigned a given Class of Service in a variety of combinations. Customers may select a PPCoS CIR package that best matches the characteristics of their data and its associated priority levels. The CIR selected cannot exceed the Customer Port Connection capacity. Table B, below, shows the CIR available for each Customer Port Connection.

Table B

Customer Port Connection	CIR Bandwidth Support
100 Mbps	2 Mbps – 100 Mbps
1 Gbps	2 Mbps – 1000 Mbps
10 Gbps	1000 Mbps – 10,000 Mbps

(3) Optional Features and Functions

(a) Additional MAC Addresses

(AT) A nonrecurring charge and monthly charge apply, per port, for increasing the MAC address limit to 100 MAC addresses per Multipoint EVC.

ACCESS SERVICE

(RT)

(AT)

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.5 Rate Conditions (Cont'd)

(B) Rate Elements (Cont'd)

(3) Optional Features and Functions (Cont'd)

(b) Regenerator

EPP monthly rates, non-recurring charges and Term Extension MTM Rates apply to Regenerators, as applicable.

(c) Alternate Serving Switch

EPP monthly rates apply for mileage from the alternate AT&T Switched Ethernet Service℠ switch to the Customer's premises serving wire center. Mileage is provided in four mileage bands up to 50 miles, as shown in 23.1.6(3).

(d) Direct LEC Additional Mileage

EPP monthly rates apply for mileage from the AT&T Switched Ethernet Service℠ switch to the Meet Point providing connection to another ILEC. Mileage is provided in four mileage bands up to 50 miles, as shown in 23.1.6(3).

(e) ICO NNI Arrangement

EPP monthly rates apply for each EVC provisioned on the ICO NNI Arrangement. Charge for Additional Mileage is applied based on EVC size and mileage distance from the AT&T Switched Ethernet Service℠ switch to the Meet Point providing connection to another ILEC as shown in 23.1.6(3).

(f) Enhanced Multicast

EPP monthly rates apply to each port provisioned with the feature. An Administrative Charge will apply for adding or removing the Enhanced Multicast Feature on an existing port. Rates are set forth in Section 23.1.6(3).

(4) Administrative Charge

The Administrative Charge is a non-recurring charge that applies for each Access Order. The Administrative Charge will be waived for all orders requesting new service. Administrative Charges for AT&T Switched Ethernet Service℠ are set forth in 23.1.6(3), following.

(AT)

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges

(1) Basic Service Arrangement

(A) Customer Port Connection Basic Port

Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
Customer Port Connection								
100 Mbps Port	EYQEX	$1,925.00	$624.00 (CR)	$600.00(CR)	$390.00(CR)	$366.00(CR)	$345.00(CR)	$925.00
1 Gbps Port	EYQFX	$2,100.00	$960.00(CR)	$920.00(CR)	$600.00(CR)	$590.00(CR)	$580.00(CR)	$1,400.00
10 Gbps Port	EYQGX	$15,750.00	$8,000.00(CR)	$7,600.00(CR)	$4,500.00(CR)	$3,900.00 (CR)	$3,450.00(CR)	$10,500.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.6 Rates and Charges

(1) Basic Service Arrangement

(A) Customer Port Connection Basic Port

Rate Element[(2)]	USOC	Nonrecurring Charges[(1)]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
Customer Port Connection								
100 Mbps Port	EYQEX	$1,925.00	$780 .00	$750.00	$650.00	$610.00	$575.00	$925.00
1 Gbps Port	EYQFX	$2,100.00	$1,200.00	$1,150.00	$1,000.00	$925.00	$850.00	$1,400.00
10 Gbps Port	EYQGX	$15,750.00	$10,000.00	$9,500.00	$7,500.00	$6,500.00	$5,750.00	$10,500.00

(1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) (2) Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(B) Real Time Class of Service Committed Information Rate

Real Time Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$920.00 (CR)	$408.00(CR)	$312.00(CR)	$312.00(CR)	$312.00(CR)	$1,200.00
4 Mbps CIR	R6E4X	$150.00	$940.00(CR)	$440.00(CR)	$345.00(CR)	$345.00(CR)	$345.00(CR)	$1,275.00
5 Mbps CIR	R6EAX	$150.00	$1,000.00(CR)	$520.00(CR)	$382.00(CR)	$382.00(CR)	$382.00(CR)	$1,350.00
8 Mbps CIR	R6E8X	$150.00	$1,020.00(CR)	$600.00(CR)	$408.00(CR)	$408.00(CR)	$408.00(CR)	$1,375.00
10 Mbps CIR	R6EBX	$150.00	$1,076.00(CR)	$808.00(CR)	$546.00(CR)	$546.00(CR)	$546.00(CR)	$1,475.00
20 Mbps CIR	R6EDX	$150.00	$1,504.00(CR)	$1,040.00(CR)	$708.00(CR)	$708.00(CR)	$708.00(CR)	$2,070.00
50 Mbps CIR	R6EHX	$150.00	$1,672.00(CR)	$1,168.00(CR)	$792.00(CR)	$792.00(CR)	$792.00(CR)	$2,300.00
100 Mbps CIR	R6ELX	$150.00	$1,896.00(CR)	$1,320.00(CR)	$900.00(CR)	$900.00(CR)	$900.00(CR)	$2,620.00
150 Mbps CIR	R6ENX	$150.00	$2,416.00(CR)	$1,507.00(CR)	$980.00(CR)	$980.00(CR)	$980.00(CR)	$3,330.00
250 Mbps CIR	R6EQX	$150.00	$2,680.00(CR)	$1,950.00(CR)	$1,285.00(CR)	$1,285.00(CR)	$1,285.00(CR)	$3,700.00
400 Mbps CIR	R6ESX	$150.00	$2,940.00(CR)	$2,105.00(CR)	$1,398.00(CR)	$1,398.00(CR)	$1,398.00(CR)	$4,050.00
500 Mbps CIR	R6ETX	$150.00	$3,112.00(CR)	$2,198.00(CR)	$1,482.00(CR)	$1,482.00(CR)	$1,482.00(CR)	$4,280.00
600 Mbps CIR	R6EUX	$150.00	$3,544.00(CR)	$2,480.00(CR)	$1,686.00(CR)	$1,686.00(CR)	$1,686.00(CR)	$4,880.00
1000 Mbps CIR	R6EZX	$150.00	$4,032.00(CR)	$2,808.00(CR)	$1,914.00(CR)	$1,914.00(CR)	$1,914.00(CR)	$5,550.00
2000 Mbps CIR	R61BX	$150.00	$5,694.00(CR)	$4,840.00(CR)	$3,300.00(CR)	$3,300.00(CR)	$3,300.00(CR)	$7,909.00
2500 Mbps CIR	R61CX	$150.00	$6,834.00(CR)	$5,808.00(CR)	$3,960.00(CR)	$3,960.00(CR)	$3,960.00(CR)	$9,491.00
4000 Mbps CIR	R61FX	$150.00	$8,066.00(CR)	$6,856.00(CR)	$4,674.00(CR)	$4,674.00(CR)	$4,674.00(CR)	$11,203.00
5000 Mbps CIR	R61HX	$150.00	$9,487.00(CR)	$8,064.00(CR)	$5,496.00(CR)	$5,496.00(CR)	$5,496.00(CR)	$13,177.00
7500 Mbps CIR	R61NX	$150.00	$12,462.00(CR)	$10,592.00(CR)	$7,218.00(CR)	$7,218.00(CR)	$7,218.00(CR)	$17,308.00
9500 Mbps CIR	R61RX	$150.00	$14,834.00(CR)	$12,608.00(CR)	$8,592.00(CR)	$8,592.00(CR)	$8,592.00(CR)	$20,602.00
10000 Mbps CIR	R61SX	$150.00	$15,417.00(CR)	$13,104.00(CR)	$8,934.00(CR)	$8,934.00(CR)	$8,934.00(CR)	$21,412.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(B) Real Time Class of Service Committed Information Rate

Real Time Class of Service Committed Information Rate

Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,150.00	$510.00	$460.00	$460.00	$460.00	$1,200.00
4 Mbps CIR	R6E4X	$150.00	$1,175.00	$550.00	$500.00	$500.00	$500.00	$1,275.00
5 Mbps CIR	R6EAX	$150.00	$1,250.00	$650.00	$590.00	$590.00	$590.00	$1,350.00
8 Mbps CIR	R6E8X	$150.00	$1,275.00	$750.00	$680.00	$680.00	$680.00	$1,375.00
10 Mbps CIR	R6EBX	$150.00	$1,345.00	$1,010.00	$910.00	$910.00	$910.00	$1,475.00
20 Mbps CIR	R6EDX	$150.00	$1,880.00	$1,300.00	$1,180.00	$1,180.00	$1,180.00	$2,070.00
50 Mbps CIR	R6EHX	$150.00	$2,090.00	$1,460.00	$1,320.00	$1,320.00	$1,320.00	$2,300.00
100 Mbps CIR	R6ELX	$150.00	$2,370.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,620.00
150 Mbps CIR	R6ENX	$150.00	$3,020.00	$1,780.00	$1,610.00	$1,610.00	$1,610.00	$3,330.00
250 Mbps CIR	R6EQX	$150.00	$3,350.00	$2,340.00	$2,120.00	$2,120.00	$2,120.00	$3,700.00
400 Mbps CIR	R6ESX	$150.00	$3675.00	$2,570.00	$2,330.00	$2,330.00	$2,330.00	$4,050.00
500 Mbps CIR	R6ETX	$150.00	$3,890.00	$2,720.00	$2,470.00	$2,470.00	$2,470.00	$4,280.00
600 Mbps CIR	R6EUX	$150.00	$4,430.00	$3,100.00	$2,810.00	$2,810.00	$2,810.00	$4,880.00
1000 Mbps CIR	R6EZX	$150.00	$5,040.00	$3,510.00	$3,190.00	$3,190.00	$3,190.00	$5,550.00
2000 Mbps CIR	R61BX	$150.00	$7,118.00	$6,050.00	$5,500.00	$5,500.00	$5,500.00	$7,909.00
2500 Mbps CIR	R61CX	$150.00	$8,542.00	$7,260.00	$6,600.00	$6,600.00	$6,600.00	$9,491.00
4000 Mbps CIR	R61FX	$150.00	$10,083.00	$8,570.00	$7,790.00	$7,790.00	$7,790.00	$11,203.00
5000 Mbps CIR	R61HX	$150.00	$11,859.00	$10,080.00	$9,160.00	$9,160.00	$9,160.00	$13,177.00
7500 Mbps CIR	R61NX	$150.00	$15,577.00	$13,240.00	$12,030.00	$12,030.00	$12,030.00	$17,308.00
9500 Mbps CIR	R61RX	$150.00	$18,542.00	$15,760.00	$14,320.00	$14,320.00	$14,320.00	$20,602.00
10000 Mbps CIR	R61SX	$150.00	$19,271.00	$16,380.00	$14,890.00	$14,890.00	$14,890.00	$21,412.00

(AT)

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(B) Real Time Class of Service Committed Information Rate

Real Time Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,150.00	$510.00	$460.00	$460.00	$460.00	$1,200.00
4 Mbps CIR	R6E4X	$150.00	$1,175.00	$550.00	$500.00	$500.00	$500.00	$1,275.00
5 Mbps CIR	R6EAX	$150.00	$1,250.00	$650.00	$590.00	$590.00	$590.00	$1,350.00
8 Mbps CIR	R6E8X	$150.00	$1,275.00	$750.00	$680.00	$680.00	$680.00	$1,375.00
10 Mbps CIR	R6EBX	$150.00	$1,345.00	$1,010.00	$910.00	$910.00	$910.00	$1,475.00
20 Mbps CIR	R6EDX	$150.00	$1,880.00	$1,300.00	$1,180.00	$1,180.00	$1,180.00	$2,070.00
50 Mbps CIR	R6EHX	$150.00	$2,090.00	$1,460.00	$1,320.00	$1,320.00	$1,320.00	$2,300.00
100 Mbps CIR	R6ELX	$150.00	$2,370.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,620.00
150 Mbps CIR	R6ENX	$150.00	$3,020.00	$1,780.00	$1,610.00	$1,610.00	$1,610.00	$3,330.00
250 Mbps CIR	R6EQX	$150.00	$3,350.00	$2,340.00	$2,120.00	$2,120.00	$2,120.00	$3,700.00
500 Mbps CIR	R6ETX	$150.00	$3,890.00	$2,720.00	$2,470.00	$2,470.00	$2,470.00	$4,280.00
600 Mbps CIR	R6EUX	$150.00	$4,430.00	$3,100.00	$2,810.00	$2,810.00	$2,810.00	$4,880.00
1000 Mbps CIR	R6EZX	$150.00	$5,040.00	$3,510.00	$3,190.00	$3,190.00	$3,190.00	$5,550.00
2000 Mbps CIR	R61BX	$150.00	$7,118.00	$6,050.00	$5,500.00	$5,500.00	$5,500.00	$7,909.00
2500 Mbps CIR	R61CX	$150.00	$8,542.00	$7,260.00	$6,600.00	$6,600.00	$6,600.00	$9,491.00
4000 Mbps CIR	R61FX	$150.00	$10,083.00	$8,570.00	$7,790.00	$7,790.00	$7,790.00	$11,203.00
5000 Mbps CIR	R61HX	$150.00	$11,859.00	$10,080.00	$9,160.00	$9,160.00	$9,160.00	$13,177.00
7500 Mbps CIR	R61NX	$150.00	$15,577.00	$13,240.00	$12,030.00	$12,030.00	$12,030.00	$17,308.00
9500 Mbps CIR	R61RX	$150.00	$18,542.00	$15,760.00	$14,320.00	$14,320.00	$14,320.00	$20,602.00
10000 Mbps CIR	R61SX	$150.00	$19,271.00	$16,380.00	$14,890.00	$14,890.00	$14,890.00	$21,412.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) [2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(C) Interactive Class of Service Committed Information Rate

Interactive Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$860.00(CR)	$376.00(CR)	$288.00(CR)	$288.00(CR)	$288.00(CR)	$1,100.00
4 Mbps CIR	R6E4X	$150.00	$880.00(CR)	$416.00(CR)	$320.00(CR)	$320.00(CR)	$320.00(CR)	$1,175.00
5 Mbps CIR	R6EAX	$150.00	$940.00(CR)	$488.00(CR)	$356.00(CR)	$356.00(CR)	$356.00(CR)	$1,250.00
8 Mbps CIR	R6E8X	$150.00	$960.00(CR)	$560.00(CR)	$381.00(CR)	$381.00(CR)	$381.00(CR)	$1,275.00
10 Mbps CIR	R6EBX	$150.00	$1,016.00(CR)	$752.00(CR)	$510.00(CR)	$510.00(CR)	$510.00(CR)	$1,375.00
20 Mbps CIR	R6EDX	$150.00	$1,304.00(CR)	$968.00(CR)	$660.00(CR)	$660.00(CR)	$660.00(CR)	$1,800.00
50 Mbps CIR	R6EHX	$150.00	$1,448.00(CR)	$1,080.00(CR)	$735.00(CR)	$735.00(CR)	$735.00(CR)	$2,000.00
100 Mbps CIR	R6ELX	$150.00	$1,648.00(CR)	$1,232.00(CR)	$840.00(CR)	$840.00(CR)	$840.00(CR)	$2,270.00
150 Mbps CIR	R6ENX	$150.00	$2,096.00(CR)	$1,397.00(CR)	$915.00(CR)	$915.00(CR)	$915.00(CR)	$2,890.00
250 Mbps CIR	R6EQX	$150.00	$2,328.00(CR)	$1,815.00(CR)	$1,195.00(CR)	$1,195.00(CR)	$1,195.00(CR)	$3,210.00
400 Mbps CIR	R6ESX	$150.00	$2,556.00(CR)	$1,955.00(CR)	$1,302.00(CR)	$1,302.00(CR)	$1,302.00(CR)	$3,520.00
500 Mbps CIR	R6ETX	$150.00	$2,704.00(CR)	$2,045.00(CR)	$1,380.00(CR)	$1,380.00(CR)	$1,380.00(CR)	$3,720.00
600 Mbps CIR	R6EUX	$150.00	$3,080.00(CR)	$2,312.00(CR)	$1,575.00(CR)	$1,575.00(CR)	$1,575.00(CR)	$4,240.00
1000 Mbps CIR	R6EZX	$150.00	$3,504.00(CR)	$2,624.00(CR)	$1,785.00(CR)	$1,785.00(CR)	$1,785.00(CR)	$4,820.00
2000 Mbps CIR	R61BX	$150.00	$5,327.00(CR)	$4,528.00(CR)	$3,084.00(CR)	$3,084.00(CR)	$3,084.00(CR)	$7,399.00
2500 Mbps CIR	R61CX	$150.00	$6,382.00(CR)	$5,424.00(CR)	$3,696.00(CR)	$3,696.00(CR)	$3,696.00(CR)	$8,863.00
4000 Mbps CIR	R61FX	$150.00	$7,539.00(CR)	$6,408.00(CR)	$4,368.00(CR)	$4,368.00(CR)	$4,368.00(CR)	$10,471.00
5000 Mbps CIR	R61HX	$150.00	$8,866.00(CR)	$7,536.00(CR)	$5,136.00(CR)	$5,136.00(CR)	$5,136.00(CR)	$12,314.00
7500 Mbps CIR	R61NX	$150.00	$11,642.00(CR)	$9,896.00(CR)	$6,744.00(CR)	$6,744.00(CR)	$6,744.00(CR)	$16,170.00
9500 Mbps CIR	R61RX	$150.00	$13,854.00(CR)	$11,776.00(CR)	$8,028.00(CR)	$8,028.00(CR)	$8,028.00(CR)	$19,242.00
10000 Mbps CIR	R61SX	$150.00	$14,410.00(CR)	$12,248.00(CR)	$8,346.00(CR)	$8,346.00(CR)	$8,346.00(CR)	$20,014.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection. May 1, 2016

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(C) Interactive Class of Service Committed Information Rate

Interactive Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,075.00	$470.00	$425.00	$425.00	$425.00	$1,100.00
4 Mbps CIR	R6E4X	$150.00	$1,100.00	$520.00	$465.00	$465.00	$465.00	$1,175.00
5 Mbps CIR	R6EAX	$150.00	$1,175.00	$610.00	$550.00	$550.00	$550.00	$1,250.00
8 Mbps CIR	R6E8X	$150.00	$1,200.00	$700.00	$635.00	$635.00	$635.00	$1,275.00
10 Mbps CIR	R6EBX	$150.00	$1,270.00	$940.00	$850.00	$850.00	$850.00	$1,375.00
20 Mbps CIR	R6EDX	$150.00	$1,630.00	$1,210.00	$1,100.00	$1,100.00	$1,100.00	$1,800.00
50 Mbps CIR	R6EHX	$150.00	$1,810.00	$1,350.00	$1,225.00	$1,225.00	$1,225.00	$2,000.00
100 Mbps CIR	R6ELX	$150.00	$2,060.00	$1,540.00	$1,400.00	$1,400.00	$1,400.00	$2,270.00
150 Mbps CIR	R6ENX	$150.00	$2,620.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,890.00
250 Mbps CIR	R6EQX	$150.00	$2,910.00	$2,180.00	$1,975.00	$1,975.00	$1,975.00	$3,210.00
400 Mbps CIR	R6ESX	$150.00	$3,195.00	$2,390.00	$2,170.00	$2,170.00	$2,170.00	$3,520.00
500 Mbps CIR	R6ETX	$150.00	$3,380.00	$2,530.00	$2,300.00	$2,300.00	$2,300.00	$3,720.00
600 Mbps CIR	R6EUX	$150.00	$3,850.00	$2,890.00	$2,625.00	$2,625.00	$2,625.00	$4,240.00
1000 Mbps CIR	R6EZX	$150.00	$4,380.00	$3,280.00	$2,975.00	$2,975.00	$2,975.00	$4,820.00
2000 Mbps CIR	R61BX	$150.00	$6,659.00	$5,660.00	$5,140.00	$5,140.00	$5,140.00	$7,399.00
2500 Mbps CIR	R61CX	$150.00	$7,977.00	$6,780.00	$6,160.00	$6,160.00	$6,160.00	$8,863.00
4000 Mbps CIR	R61FX	$150.00	$9,424.00	$8,010.00	$7,280.00	$7,280.00	$7,280.00	$10,471.00
5000 Mbps CIR	R61HX	$150.00	$11,083.00	$9,420.00	$8,560.00	$8,560.00	$8,560.00	$12,314.00
7500 Mbps CIR	R61NX	$150.00	$14,553.00	$12,370.00	$11,240.00	$11,240.00	$11,240.00	$16,170.00
9500 Mbps CIR	R61RX	$150.00	$17,318.00	$14,720.00	$13,380.00	$13,380.00	$13,380.00	$19,242.00
10000 Mbps CIR	R61SX	$150.00	$18,012.00	$15,310.00	$13,910.00	$13,910.00	$13,910.00	$20,014.00

(AT)

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT)

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(C) Interactive Class of Service Committed Information Rate

Interactive Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,075.00	$470.00	$425.00	$425.00	$425.00	$1,100.00
4 Mbps CIR	R6E4X	$150.00	$1,100.00	$520.00	$465.00	$465.00	$465.00	$1,175.00
5 Mbps CIR	R6EAX	$150.00	$1,175.00	$610.00	$550.00	$550.00	$550.00	$1,250.00
8 Mbps CIR	R6E8X	$150.00	$1,200.00	$700.00	$635.00	$635.00	$635.00	$1,275.00
10 Mbps CIR	R6EBX	$150.00	$1,270.00	$940.00	$850.00	$850.00	$850.00	$1,375.00
20 Mbps CIR	R6EDX	$150.00	$1,630.00	$1,210.00	$1,100.00	$1,100.00	$1,100.00	$1,800.00
50 Mbps CIR	R6EHX	$150.00	$1,810.00	$1,350.00	$1,225.00	$1,225.00	$1,225.00	$2,000.00
100 Mbps CIR	R6ELX	$150.00	$2,060.00	$1,540.00	$1,400.00	$1,400.00	$1,400.00	$2,270.00
150 Mbps CIR	R6ENX	$150.00	$2,620.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,890.00
250 Mbps CIR	R6EQX	$150.00	$2,910.00	$2,180.00	$1,975.00	$1,975.00	$1,975.00	$3,210.00
500 Mbps CIR	R6ETX	$150.00	$3,380.00	$2,530.00	$2,300.00	$2,300.00	$2,300.00	$3,720.00
600 Mbps CIR	R6EUX	$150.00	$3,850.00	$2,890.00	$2,625.00	$2,625.00	$2,625.00	$4,240.00
1000 Mbps CIR	R6EZX	$150.00	$4,380.00	$3,280.00	$2,975.00	$2,975.00	$2,975.00	$4,820.00
2000 Mbps CIR	R61BX	$150.00	$6,659.00	$5,660.00	$5,140.00	$5,140.00	$5,140.00	$7,399.00
2500 Mbps CIR	R61CX	$150.00	$7,977.00	$6,780.00	$6,160.00	$6,160.00	$6,160.00	$8,863.00
4000 Mbps CIR	R61FX	$150.00	$9,424.00	$8,010.00	$7,280.00	$7,280.00	$7,280.00	$10,471.00
5000 Mbps CIR	R61HX	$150.00	$11,083.00	$9,420.00	$8,560.00	$8,560.00	$8,560.00	$12,314.00
7500 Mbps CIR	R61NX	$150.00	$14,553.00	$12,370.00	$11,240.00	$11,240.00	$11,240.00	$16,170.00
9500 Mbps CIR	R61RX	$150.00	$17,318.00	$14,720.00	$13,380.00	$13,380.00	$13,380.00	$19,242.00
10000 Mbps CIR	R61SX	$150.00	$18,012.00	$15,310.00	$13,910.00	$13,910.00	$13,910.00	$20,014.00

(AT)

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(D) Business Critical-High Class of Service Committed Information Rate

Business Critical High Class of Service Committed Information Rate								
Rate Element(2)	USOC	Nonrecurring Charges(1)	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$830.00(CR)	$320.00(CR)	$245.00(CR)	$245.00(CR)	$245.00(CR)	$1,075.00
4 Mbps CIR	R6E4X	$150.00	$850.00(CR)	$364.00(CR)	$282.00(CR)	$282.00(CR)	$282.00(CR)	$1,125.00
5 Mbps CIR	R6EAX	$150.00	$910.00(CR)	$444.00(CR)	$318.00(CR)	$318.00(CR)	$318.00(CR)	$1,200.00
8 Mbps CIR	R6E8X	$150.00	$930.00(CR)	$524.00(CR)	$357.00(CR)	$357.00(CR)	$357.00(CR)	$1,225.00
10 Mbps CIR	R6EBX	$150.00	$986.00(CR)	$664.00(CR)	$450.00(CR)	$450.00(CR)	$450.00(CR)	$1,325.00
20 Mbps CIR	R6EDX	$150.00	$1,180.00(CR)	$880.00(CR)	$600.00(CR)	$600.00(CR)	$600.00(CR)	$1,630.00
50 Mbps CIR	R6EHX	$150.00	$1,332.00(CR)	$992.00(CR)	$675.00(CR)	$675.00(CR)	$675.00(CR)	$1,840.00
100 Mbps CIR	R6ELX	$150.00	$1,536.00(CR)	$1,144.00(CR)	$780.00(CR)	$780.00(CR)	$780.00(CR)	$2,115.00
150 Mbps CIR	R6ENX	$150.00	$1,864.00(CR)	$1,342.00(CR)	$1,016.00(CR)	$1,016.00(CR)	$1,016.00(CR)	$2,570.00
250 Mbps CIR	R6EQX	$150.00	$2,100.00(CR)	$1,632.00(CR)	$1,075.00(CR)	$1,075.00(CR)	$1,075.00(CR)	$2,895.00
400 Mbps CIR	R6ESX	$150.00	$2,320.00(CR)	$1,775.00(CR)	$1,182.00(CR)	$1,182.00(CR)	$1,182.00(CR)	$3,195.00
500 Mbps CIR	R6ETX	$150.00	$2,468.00(CR)	$1,868.00(CR)	$1,474.00(CR)	$1,474.00(CR)	$1,474.00(CR)	$3,395.00
600 Mbps CIR	R6EUX	$150.00	$2,848.00(CR)	$2,136.00(CR)	$1,574.00(CR)	$1,574.00(CR)	$1,574.00(CR)	$3,920.00
1000 Mbps CIR	R6EZX	$150.00	$3,272.00(CR)	$2,400.00(CR)	$2,300.00(CR)	$2,300.00(CR)	$2,300.00(CR)	$4,500.00
2000 Mbps CIR	R61BX	$150.00	$5,149.00(CR)	$4,376.00(CR)	$2,982.00(CR)	$2,982.00(CR)	$2,982.00(CR)	$7,151.00
2500 Mbps CIR	R61CX	$150.00	$6,170.00(CR)	$5,244.00(CR)	$3,573.00(CR)	$3,573.00(CR)	$3,573.00(CR)	$8,569.00
4000 Mbps CIR	R61FX	$150.00	$7,290.00(CR)	$6,196.00(CR)	$4,224.00(CR)	$4,224.00(CR)	$4,224.00(CR)	$10,125.00
5000 Mbps CIR	R61HX	$150.00	$8,574.00(CR)	$7,288.00(CR)	$4,968.00(CR)	$4,968.00(CR)	$4,968.00(CR)	$11,909.00
7500 Mbps CIR	R61NX	$150.00	$11,257.00(CR)	$9,568.00(CR)	$6,522.00(CR)	$6,522.00(CR)	$6,522.00(CR)	$15,634.00
9500 Mbps CIR	R61RX	$150.00	$13,398.00(CR)	$11,388.00(CR)	$7,764.00(CR)	$7,764.00(CR)	$7,764.00(CR)	$18,608.00
10000 Mbps CIR	R61SX	$150.00	$13,934.00(CR)	$11,844.00(CR)	$8,073.00(CR)	$8,073.00(CR)	$8,073.00(CR)	$19,353.00

(1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(2) Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(D) Business Critical-High Class of Service Committed Information Rate

Business Critical High Class of Service Committed Information Rate								
Rate Element(2)	USOC	Nonrecurring Charges(1)	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,038.00	$400.00	$360.00	$360.00	$360.00	$1,075.00
4 Mbps CIR	R6E4X	$150.00	$1,063.00	$455.00	$410.00	$410.00	$410.00	$1,125.00
5 Mbps CIR	R6EAX	$150.00	$1,138.00	$555.00	$500.00	$500.00	$500.00	$1,200.00
8 Mbps CIR	R6E8X	$150.00	$1,163.00	$655.00	$595.00	$595.00	$595.00	$1,225.00
10 Mbps CIR	R6EBX	$150.00	$1,233.00	$830.00	$750.00	$750.00	$750.00	$1,325.00
20 Mbps CIR	R6EDX	$150.00	$1,475.00	$1,100.00	$1,000.00	$1,000.00	$1,000.00	$1,630.00
50 Mbps CIR	R6EHX	$150.00	$1,665.00	$1,240.00	$1,125.00	$1,125.00	$1,125.00	$1,840.00
100 Mbps CIR	R6ELX	$150.00	$1,920.00	$1,430.00	$1,300.00	$1,300.00	$1,300.00	$2,115.00
150 Mbps CIR	R6ENX	$150.00	$2,330.00	$1,585.00	$1,438.00	$1,438.00	$1,438.00	$2,570.00
250 Mbps CIR	R6EQX	$150.00	$2,625.00	$1,960.00	$1,775.00	$1,775.00	$1,775.00	$2,895.00
400 Mbps CIR	R6ESX	$150.00	$2,900.00	$2,170.00	$1,970.00	$1,970.00	$1,970.00	$3,195.00
500 Mbps CIR	R6ETX	$150.00	$3,085.00	$2,310.00	$2,100.00	$2,100.00	$2,100.00	$3,395.00
600 Mbps CIR	R6EUX	$150.00	$3,560.00	$2,670.00	$2,460.00	$2,460.00	$2,460.00	$3,920.00
1000 Mbps CIR	R6EZX	$150.00	$4,090.00	$3,060.00	$2,775.00	$2,775.00	$2,775.00	$4,500.00
2000 Mbps CIR	R61BX	$150.00	$6,436.00	$5,470.00	$4,970.00	$4,970.00	$4,970.00	$7,151.00
2500 Mbps CIR	R61CX	$150.00	$7,712.00	$6,555.00	$5,955.00	$5,955.00	$5,955.00	$8,569.00
4000 Mbps CIR	R61FX	$150.00	$9,112.00	$7,745.00	$7,040.00	$7,040.00	$7,040.00	$10,125.00
5000 Mbps CIR	R61HX	$150.00	$10,718.00	$9,110.00	$8,280.00	$8,280.00	$8,280.00	$11,909.00
7500 Mbps CIR	R61NX	$150.00	$14,071.00	$11,960.00	$10,870.00	$10,870.00	$10,870.00	$15,634.00
9500 Mbps CIR	R61RX	$150.00	$16,748.00	$14,235.00	$12,940.00	$12,940.00	$12,940.00	$18,608.00
10000 Mbps CIR	R61SX	$150.00	$17,418.00	$14,805.00	$13,455.00	$13,455.00	$13,455.00	$19,353.00

(AT)

(1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(2) Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT)

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(D) Business Critical-High Class of Service Committed Information Rate

Business Critical High Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,038.00	$400.00	$360.00	$360.00	$360.00	$1,075.00
4 Mbps CIR	R6E4X	$150.00	$1,063.00	$455.00	$410.00	$410.00	$410.00	$1,125.00
5 Mbps CIR	R6EAX	$150.00	$1,138.00	$555.00	$500.00	$500.00	$500.00	$1,200.00
8 Mbps CIR	R6E8X	$150.00	$1,163.00	$655.00	$595.00	$595.00	$595.00	$1,225.00
10 Mbps CIR	R6EBX	$150.00	$1,233.00	$830.00	$750.00	$750.00	$750.00	$1,325.00
20 Mbps CIR	R6EDX	$150.00	$1,475.00	$1,100.00	$1,000.00	$1,000.00	$1,000.00	$1,630.00
50 Mbps CIR	R6EHX	$150.00	$1,665.00	$1,240.00	$1,125.00	$1,125.00	$1,125.00	$1,840.00
100 Mbps CIR	R6ELX	$150.00	$1,920.00	$1,430.00	$1,300.00	$1,300.00	$1,300.00	$2,115.00
150 Mbps CIR	R6ENX	$150.00	$2,330.00	$1,585.00	$1,438.00	$1,438.00	$1,438.00	$2,570.00
250 Mbps CIR	R6EQX	$150.00	$2,625.00	$1,960.00	$1,775.00	$1,775.00	$1,775.00	$2,895.00
500 Mbps CIR	R6ETX	$150.00	$3,085.00	$2,310.00	$2,100.00	$2,100.00	$2,100.00	$3,395.00
600 Mbps CIR	R6EUX	$150.00	$3,560.00	$2,670.00	$2,460.00	$2,460.00	$2,460.00	$3,920.00
1000 Mbps CIR	R6EZX	$150.00	$4,090.00	$3,060.00	$2,775.00	$2,775.00	$2,775.00	$4,500.00
2000 Mbps CIR	R61BX	$150.00	$6,436.00	$5,470.00	$4,970.00	$4,970.00	$4,970.00	$7,151.00
2500 Mbps CIR	R61CX	$150.00	$7,712.00	$6,555.00	$5,955.00	$5,955.00	$5,955.00	$8,569.00
4000 Mbps CIR	R61FX	$150.00	$9,112.00	$7,745.00	$7,040.00	$7,040.00	$7,040.00	$10,125.00
5000 Mbps CIR	R61HX	$150.00	$10,718.00	$9,110.00	$8,280.00	$8,280.00	$8,280.00	$11,909.00
7500 Mbps CIR	R61NX	$150.00	$14,071.00	$11,960.00	$10,870.00	$10,870.00	$10,870.00	$15,634.00
9500 Mbps CIR	R61RX	$150.00	$16,748.00	$14,235.00	$12,940.00	$12,940.00	$12,940.00	$18,608.00
10000 Mbps CIR	R61SX	$150.00	$17,418.00	$14,805.00	$13,455.00	$13,455.00	$13,455.00	$19,353.00

(1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(2) Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

(AT)

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(E) Business Critical-Medium Class of Service Committed Information Rate

Business Critical-Medium Class of Service Committed Information Rate								
Rate Element[(2)]	USOC	Nonrecurring Charges[(1)]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$800.00(CR)	$264.00(CR)	$204.00(CR)	$204.00(CR)	$204.00(CR)	$1,050.00
4 Mbps CIR	R6E4X	$150.00	$820.00(CR)	$312.00(CR)	$242.00(CR)	$242.00(CR)	$242.00(CR)	$1,075.00
5 Mbps CIR	R6EAX	$150.00	$880.00(CR)	$400.00(CR)	$280.00(CR)	$280.00(CR)	$280.00(CR)	$1,150.00
8 Mbps CIR	R6E8X	$150.00	$900.00(CR)	$488.00(CR)	$330.00(CR)	$330.00(CR)	$330.00(CR)	$1,175.00
10 Mbps CIR	R6EBX	$150.00	$956.00(CR)	$576.00(CR)	$390.00(CR)	$390.00(CR)	$390.00(CR)	$1,275.00
20 Mbps CIR	R6EDX	$150.00	$1,056.00(CR)	$792.00(CR)	$540.00(CR)	$540.00(CR)	$540.00(CR)	$1,460.00
50 Mbps CIR	R6EHX	$150.00	$1,216.00(CR)	$904.00(CR)	$615.00(CR)	$615.00(CR)	$615.00(CR)	$1,680.00
100 Mbps CIR	R6ELX	$150.00	$1,424.00(CR)	$1,056.00(CR)	$720.00(CR)	$720.00(CR)	$720.00(CR)	$1,960.00
150 Mbps CIR	R6ENX	$150.00	$1,632.00(CR)	$1,330.00(CR)	$838.00(CR)	$838.00(CR)	$838.00(CR)	$2,250.00
250 Mbps CIR	R6EQX	$150.00	$1,872.00(CR)	$1,450.00(CR)	$955.00(CR)	$955.00(CR)	$955.00(CR)	$2,580.00
400 Mbps CIR	R6ESX	$150.00	$2,088.00(CR)	$1,595.00(CR)	$1,062.00(CR)	$1,062.00(CR)	$1,062.00(CR)	$2,875.00
500 Mbps CIR	R6ETX	$150.00	$2,232.00(CR)	$1,689.00(CR)	$1,140.00(CR)	$1,140.00(CR)	$1,140.00(CR)	$3,070.00
600 Mbps CIR	R6EUX	$150.00	$2,616.00(CR)	$1,960.00(CR)	$1,335.00(CR)	$1,335.00(CR)	$1,335.00(CR)	$3,600.00
1000 Mbps CIR	R6EZX	$150.00	$3,040.00(CR)	$2,272.00(CR)	$1,545.00(CR)	$1,545.00(CR)	$1,545.00(CR)	$4,180.00
2000 Mbps CIR	R61BX	$150.00	$4,970.00(CR)	$4,224.00(CR)	$2,880.00(CR)	$2,880.00(CR)	$2,880.00(CR)	$6,902.00
2500 Mbps CIR	R61CX	$150.00	$5,958.00(CR)	$5,064.00(CR)	$3,450.00(CR)	$3,450.00(CR)	$3,450.00(CR)	$8,275.00
4000 Mbps CIR	R61FX	$150.00	$7,040.00(CR)	$5,984.00(CR)	$4,080.00(CR)	$4,080.00(CR)	$4,080.00(CR)	$9,778.00
5000 Mbps CIR	R61HX	$150.00	$8,282.00(CR)	$7,040.00(CR)	$4,800.00(CR)	$4,800.00(CR)	$4,800.00(CR)	$11,504.00
7500 Mbps CIR	R61NX	$150.00	$10,871.00(CR)	$9,240.00(CR)	$6,300.00(CR)	$6,300.00(CR)	$6,300.00(CR)	$15,099.00
9500 Mbps CIR	R61RX	$150.00	$12,942.00(CR)	$11,000.00(CR)	$7,500.00(CR)	$7,500.00(CR)	$7,500.00(CR)	$17,974.00
10000 Mbps CIR	R61SX	$150.00	$13,459.00(CR)	$11,440.00(CR)	$7,800.00(CR)	$7,800.00(CR)	$7,800.00(CR)	$18,693.00

(1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(2) Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

May 1, 2016

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(E) Business Critical-Medium Class of Service Committed Information Rate

Business Critical-Medium Class of Service Committed Information Rate								
Rate Element[(2)]	USOC	Nonrecurring Charges[(1)]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,000.00	$330.00	$300.00	$300.00	$300.00	$1,050.00
4 Mbps CIR	R6E4X	$150.00	$1,025.00	$390.00	$350.00	$350.00	$350.00	$1,075.00
5 Mbps CIR	R6EAX	$150.00	$1,100.00	$500.00	$450.00	$450.00	$450.00	$1,150.00
8 Mbps CIR	R6E8X	$150.00	$1,125.00	$610.00	$550.00	$550.00	$550.00	$1,175.00
10 Mbps CIR	R6EBX	$150.00	$1,195.00	$720.00	$650.00	$650.00	$650.00	$1,275.00
20 Mbps CIR	R6EDX	$150.00	$1,320.00	$990.00	$900.00	$900.00	$900.00	$1,460.00
50 Mbps CIR	R6EHX	$150.00	$1,520.00	$1,130.00	$1,025.00	$1,025.00	$1,025.00	$1,680.00
100 Mbps CIR	R6ELX	$150.00	$1,780.00	$1,320.00	$1,200.00	$1,200.00	$1,200.00	$1,960.00
150 Mbps CIR	R6ENX	$150.00	$2,040.00	$1,520.00	$1,375.00	$1,375.00	$1,375.00	$2,250.00
250 Mbps CIR	R6EQX	$150.00	$2,340.00	$1,740.00	$1,575.00	$1,575.00	$1,575.00	$2,580.00
400 Mbps CIR	R6ESX	$150.00	$2,610.00	$1,950.00	$1,770.00	$1,770.00	$1,770.00	$2,875.00
500 Mbps CIR	R6ETX	$150.00	$2,790.00	$2,090.00	$1,900.00	$1,900.00	$1,900.00	$3,070.00
600 Mbps CIR	R6EUX	$150.00	$3,270.00	$2,450.00	$2,225.00	$2,225.00	$2,225.00	$3,600.00
1000 Mbps CIR	R6EZX	$150.00	$3,800.00	$2,840.00	$2,575.00	$2,575.00	$2,575.00	$4,180.00
2000 Mbps CIR	R61BX	$150.00	$6,212.00	$5,280.00	$4,800.00	$4,800.00	$4,800.00	$6,902.00
2500 Mbps CIR	R61CX	$150.00	$7,448.00	$6,330.00	$5,750.00	$5,750.00	$5,750.00	$8,275.00
4000 Mbps CIR	R61FX	$150.00	$8,800.00	$7,480.00	$6,800.00	$6,800.00	$6,800.00	$9,778.00
5000 Mbps CIR	R61HX	$150.00	$10,353.00	$8,800.00	$8,000.00	$8,000.00	$8,000.00	$11,504.00
7500 Mbps CIR	R61NX	$150.00	$13,589.00	$11,550.00	$10,500.00	$10,500.00	$10,500.00	$15,099.00
9500 Mbps CIR	R61RX	$150.00	$16,177.00	$13,750.00	$12,500.00	$12,500.00	$12,500.00	$17,974.00
10000 Mbps CIR	R61SX	$150.00	$16,824.00	$14,300.00	$13,000.00	$13,000.00	$13,000.00	$18,693.00

(AT)

[(1)] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[(2)] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(E) Business Critical-Medium Class of Service Committed Information Rate

Business Critical-Medium Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,000.00	$330.00	$300.00	$300.00	$300.00	$1,050.00
4 Mbps CIR	R6E4X	$150.00	$1,025.00	$390.00	$350.00	$350.00	$350.00	$1,075.00
5 Mbps CIR	R6EAX	$150.00	$1,100.00	$500.00	$450.00	$450.00	$450.00	$1,150.00
8 Mbps CIR	R6E8X	$150.00	$1,125.00	$610.00	$550.00	$550.00	$550.00	$1,175.00
10 Mbps CIR	R6EBX	$150.00	$1,195.00	$720.00	$650.00	$650.00	$650.00	$1,275.00
20 Mbps CIR	R6EDX	$150.00	$1,320.00	$990.00	$900.00	$900.00	$900.00	$1,460.00
50 Mbps CIR	R6EHX	$150.00	$1,520.00	$1,130.00	$1,025.00	$1,025.00	$1,025.00	$1,680.00
100 Mbps CIR	R6ELX	$150.00	$1,780.00	$1,320.00	$1,200.00	$1,200.00	$1,200.00	$1,960.00
150 Mbps CIR	R6ENX	$150.00	$2,040.00	$1,520.00	$1,375.00	$1,375.00	$1,375.00	$2,250.00
250 Mbps CIR	R6EQX	$150.00	$2,340.00	$1,740.00	$1,575.00	$1,575.00	$1,575.00	$2,580.00
500 Mbps CIR	R6ETX	$150.00	$2,790.00	$2,090.00	$1,900.00	$1,900.00	$1,900.00	$3,070.00
600 Mbps CIR	R6EUX	$150.00	$3,270.00	$2,450.00	$2,225.00	$2,225.00	$2,225.00	$3,600.00
1000 Mbps CIR	R6EZX	$150.00	$3,800.00	$2,840.00	$2,575.00	$2,575.00	$2,575.00	$4,180.00
2000 Mbps CIR	R61BX	$150.00	$6,212.00	$5,280.00	$4,800.00	$4,800.00	$4,800.00	$6,902.00
2500 Mbps CIR	R61CX	$150.00	$7,448.00	$6,330.00	$5,750.00	$5,750.00	$5,750.00	$8,275.00
4000 Mbps CIR	R61FX	$150.00	$8,800.00	$7,480.00	$6,800.00	$6,800.00	$6,800.00	$9,778.00
5000 Mbps CIR	R61HX	$150.00	$10,353.00	$8,800.00	$8,000.00	$8,000.00	$8,000.00	$11,504.00
7500 Mbps CIR	R61NX	$150.00	$13,589.00	$11,550.00	$10,500.00	$10,500.00	$10,500.00	$15,099.00
9500 Mbps CIR	R61RX	$150.00	$16,177.00	$13,750.00	$12,500.00	$12,500.00	$12,500.00	$17,974.00
10000 Mbps CIR	R61SX	$150.00	$16,824.00	$14,300.00	$13,000.00	$13,000.00	$13,000.00	$18,693.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) [2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(F) Non-Critical High Class of Service Committed Information Rate

Non-Critical High Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$740.00(CR)	$248.00(CR)	$197.00(CR)	$197.00(CR)	$197.00(CR)	$950.00
4 Mbps CIR	R6E4X	$150.00	$760.00(CR)	$296.00(CR)	$235.00(CR)	$235.00(CR)	$235.00(CR)	$975.00
5 Mbps CIR	R6EAX	$150.00	$820.00(CR)	$372.00(CR)	$268.00(CR)	$268.00(CR)	$268.00(CR)	$1,050.00
8 Mbps CIR	R6E8X	$150.00	$840.00(CR)	$456.00(CR)	$318.00(CR)	$318.00(CR)	$318.00(CR)	$1,075.00
10 Mbps CIR	R6EBX	$150.00	$896.00(CR)	$536.00(CR)	$372.00(CR)	$372.00(CR)	$372.00(CR)	$1,175.00
20 Mbps CIR	R6EDX	$150.00	$1,008.00(CR)	$740.00(CR)	$516.00(CR)	$516.00(CR)	$516.00(CR)	$1,390.00
50 Mbps CIR	R6EHX	$150.00	$1,160.00(CR)	$844.00(CR)	$588.00(CR)	$588.00(CR)	$588.00(CR)	$1,600.00
100 Mbps CIR	R6ELX	$150.00	$1,360.00(CR)	$984.00(CR)	$684.00(CR)	$684.00(CR)	$684.00(CR)	$1,870.00
150 Mbps CIR	R6ENX	$150.00	$1,552.00(CR)	$1,195.00(CR)	$797.00(CR)	$797.00(CR)	$797.00(CR)	$2,140.00
250 Mbps CIR	R6EQX	$150.00	$1,784.00(CR)	$1,345.00(CR)	$910.00(CR)	$910.00(CR)	$910.00(CR)	$2,460.00
400 Mbps CIR	R6ESX	$150.00	$1,992.00(CR)	$1,485.00(CR)	$1,011.00(CR)	$1,011.00(CR)	$1,011.00(CR)	$2,735.00
500 Mbps CIR	R6ETX	$150.00	$2,128.00(CR)	$1,572.00(CR)	$1,086.00(CR)	$1,086.00(CR)	$1,086.00(CR)	$2,920.00
600 Mbps CIR	R6EUX	$150.00	$2,488.00(CR)	$1,824.00(CR)	$1,272.00(CR)	$1,272.00(CR)	$1,272.00(CR)	$3,420.00
1000 Mbps CIR	R6EZX	$150.00	$2,888.00(CR)	$2,112.00(CR)	$1,470.00(CR)	$1,470.00(CR)	$1,470.00(CR)	$3,980.00
2000 Mbps CIR	R61BX	$150.00	$4,728.00(CR)	$3,936.00(CR)	$2,736.00(CR)	$2,736.00(CR)	$2,736.00(CR)	$6,560.00
2500 Mbps CIR	R61CX	$150.00	$5,664.00(CR)	$4,720.00(CR)	$3,282.00(CR)	$3,282.00(CR)	$3,282.00(CR)	$7,870.00
4000 Mbps CIR	R61FX	$150.00	$6,688.00(CR)	$5,576.00(CR)	$3,876.00(CR)	$3,876.00(CR)	$3,876.00(CR)	$9,290.00
5000 Mbps CIR	R61HX	$150.00	$7,872.00(CR)	$6,560.00(CR)	$4,560.00(CR)	$4,560.00(CR)	$4,560.00(CR)	$10,930.00
7500 Mbps CIR	R61NX	$150.00	$10,328.00(CR)	$8,612.00(CR)	$5,988.00(CR)	$5,988.00(CR)	$5,988.00(CR)	$14,350.00
9500 Mbps CIR	R61RX	$150.00	$12,296.00(CR)	$10,252.00(CR)	$7,128.00(CR)	$7,128.00(CR)	$7,128.00(CR)	$17,080.00
10000 Mbps CIR	R61SX	$150.00	$12,792.00(CR)	$10,660.00(CR)	$7,410.00(CR)	$7,410.00(CR)	$7,410.00(CR)	$17,760.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection. May 1, 2016

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(F) Non-Critical High Class of Service Committed Information Rate

Non-Critical High Class of Service Committed Information Rate

Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$925.00	$310.00	$290.00	$290.00	$290.00	$950.00
4 Mbps CIR	R6E4X	$150.00	$950.00	$370.00	$340.00	$340.00	$340.00	$975.00
5 Mbps CIR	R6EAX	$150.00	$1,025.00	$465.00	$430.00	$430.00	$430.00	$1,050.00
8 Mbps CIR	R6E8X	$150.00	$1,050.00	$570.00	$530.00	$530.00	$530.00	$1,075.00
10 Mbps CIR	R6EBX	$150.00	$1,120.00	$670.00	$620.00	$620.00	$620.00	$1,175.00
20 Mbps CIR	R6EDX	$150.00	$1,260.00	$925.00	$860.00	$860.00	$860.00	$1,390.00
50 Mbps CIR	R6EHX	$150.00	$1,450.00	$1,055.00	$980.00	$980.00	$980.00	$1,600.00
100 Mbps CIR	R6ELX	$150.00	$1,700.00	$1,230.00	$1,140.00	$1,140.00	$1,140.00	$1,870.00
150 Mbps CIR	R6ENX	$150.00	$1,940.00	$1,410.00	$1,310.00	$1,310.00	$1,310.00	$2,140.00
250 Mbps CIR	R6EQX	$150.00	$2,230.00	$1,615.00	$1,500.00	$1,500.00	$1,500.00	$2,460.00
400 Mbps CIR	R6ESX	$150.00	$2,490.00	$1,815.00	$1,685.00	$1,685.00	$1,685.00	$2,735.00
500 Mbps CIR	R6ETX	$150.00	$2,660.00	$1,945.00	$1,810.00	$1,810.00	$1,810.00	$2,920.00
600 Mbps CIR	R6EUX	$150.00	$3,110.00	$2,280.00	$2,120.00	$2,120.00	$2,120.00	$3,420.00
1000 Mbps CIR	R6EZX	$150.00	$3,610.00	$2,640.00	$2,450.00	$2,450.00	$2,450.00	$3,980.00
2000 Mbps CIR	R61BX	$150.00	$5,910.00	$4,920.00	$4,560.00	$4,560.00	$4,560.00	$6,560.00
2500 Mbps CIR	R61CX	$150.00	$7,080.00	$5,900.00	$5,470.00	$5,470.00	$5,470.00	$7,870.00
4000 Mbps CIR	R61FX	$150.00	$8,360.00	$6,970.00	$6,460.00	$6,460.00	$6,460.00	$9,290.00
5000 Mbps CIR	R61HX	$150.00	$9,840.00	$8,200.00	$7,600.00	$7,600.00	$7,600.00	$10,930.00
7500 Mbps CIR	R61NX	$150.00	$12,910.00	$10,765.00	$9,980.00	$9,980.00	$9,980.00	$14,350.00
9500 Mbps CIR	R61RX	$150.00	$15,370.00	$12,815.00	$11,880.00	$11,880.00	$11,880.00	$17,080.00
10000 Mbps CIR	R61SX	$150.00	$15,990.00	$13,325.00	$12,350.00	$12,350.00	$12,350.00	$17,760.00

(AT)

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE^{SM} (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(1) Basic Service Arrangement (Cont'd)

(F) Non-Critical High Class of Service Committed Information Rate

Non-Critical High Class of Service Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$925.00	$310.00	$290.00	$290.00	$290.00	$950.00
4 Mbps CIR	R6E4X	$150.00	$950.00	$370.00	$340.00	$340.00	$340.00	$975.00
5 Mbps CIR	R6EAX	$150.00	$1,025.00	$465.00	$430.00	$430.00	$430.00	$1,050.00
8 Mbps CIR	R6E8X	$150.00	$1,050.00	$570.00	$530.00	$530.00	$530.00	$1,075.00
10 Mbps CIR	R6EBX	$150.00	$1,120.00	$670.00	$620.00	$620.00	$620.00	$1,175.00
20 Mbps CIR	R6EDX	$150.00	$1,260.00	$925.00	$860.00	$860.00	$860.00	$1,390.00
50 Mbps CIR	R6EHX	$150.00	$1,450.00	$1,055.00	$980.00	$980.00	$980.00	$1,600.00
100 Mbps CIR	R6ELX	$150.00	$1,700.00	$1,230.00	$1,140.00	$1,140.00	$1,140.00	$1,870.00
150 Mbps CIR	R6ENX	$150.00	$1,940.00	$1,410.00	$1,310.00	$1,310.00	$1,310.00	$2,140.00
250 Mbps CIR	R6EQX	$150.00	$2,230.00	$1,615.00	$1,500.00	$1,500.00	$1,500.00	$2,460.00
500 Mbps CIR	R6ETX	$150.00	$2,660.00	$1,945.00	$1,810.00	$1,810.00	$1,810.00	$2,920.00
600 Mbps CIR	R6EUX	$150.00	$3,110.00	$2,280.00	$2,120.00	$2,120.00	$2,120.00	$3,420.00
1000 Mbps CIR	R6EZX	$150.00	$3,610.00	$2,640.00	$2,450.00	$2,450.00	$2,450.00	$3,980.00
2000 Mbps CIR	R61BX	$150.00	$5,910.00	$4,920.00	$4,560.00	$4,560.00	$4,560.00	$6,560.00
2500 Mbps CIR	R61CX	$150.00	$7,080.00	$5,900.00	$5,470.00	$5,470.00	$5,470.00	$7,870.00
4000 Mbps CIR	R61FX	$150.00	$8,360.00	$6,970.00	$6,460.00	$6,460.00	$6,460.00	$9,290.00
5000 Mbps CIR	R61HX	$150.00	$9,840.00	$8,200.00	$7,600.00	$7,600.00	$7,600.00	$10,930.00
7500 Mbps CIR	R61NX	$150.00	$12,910.00	$10,765.00	$9,980.00	$9,980.00	$9,980.00	$14,350.00
9500 Mbps CIR	R61RX	$150.00	$15,370.00	$12,815.00	$11,880.00	$11,880.00	$11,880.00	$17,080.00
10000 Mbps CIR	R61SX	$150.00	$15,990.00	$13,325.00	$12,350.00	$12,350.00	$12,350.00	$17,760.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) [2] Table A in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement

(A) PPCOS Customer Port Connection

Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
PPCOS Customer Port Connection								
100 Mbps Port	EYQLX	$1,925.00	$880.00(CR)	$784.00(CR)	$468.00(CR)	$438.00(CR)	$414.00(CR)	$1295.00
1 Gbps Port	EYQMX	$2,100.00	$1,344.00(CR)	$1,104.00(CR)	$820.00(CR)	$666.00(CR)	$612.00(CR)	$1,960.00
10 Gbps Port	EYQNX	$15,750.00	$9,600.00(CR)	$9,120.00(CR)	$5,400.00(CR)	$4,680.00(CR)	$4,140.00(CR)	$12,600.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement

(A) PPCOS Customer Port Connection

Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
PPCOS Customer Port Connection								
100 Mbps Port	EYQLX	$1,925.00	$1,100.00	$980.00	$780.00	$730.00	$690.00	$1295.00
1 Gbps Port	EYQMX	$2,100.00	$1,680.00	$1,380.00	$1,200.00	$1110.00	$1020.00	$1,960.00
10 Gbps Port	EYQNX	$15,750.00	$12,000.00	$11,400.00	$9,000.00	$7,800.00	$6,900.00	$12,600.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) [2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(B) MultiMedia High Committed Information Rate

MultiMedia High Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$920.00(CR)	$408.00(CR)	$312.00(CR)	$312.00(CR)	$312.00(CR)	$1,200.00
4 Mbps CIR	R6E4X	$150.00	$940.00(CR)	$440.00(CR)	$345.00(CR)	$345.00(CR)	$345.00(CR)	$1,275.00
5 Mbps CIR	R6EAX	$150.00	$1,000.00(CR)	$520.00(CR)	$382.00(CR)	$382.00(CR)	$382.00(CR)	$1,350.00
8 Mbps CIR	R6E8X	$150.00	$1,020.00(CR)	$600.00(CR)	$408.00(CR)	$408.00(CR)	$408.00(CR)	$1,375.00
10 Mbps CIR	R6EBX	$150.00	$1,076.00(CR)	$808.00(CR)	$546.00(CR)	$546.00(CR)	$546.00(CR)	$1,475.00
20 Mbps CIR	R6EDX	$150.00	$1,504.00(CR)	$1,040.00(CR)	$708.00(CR)	$708.00(CR)	$708.00(CR)	$2,070.00
50 Mbps CIR	R6EHX	$150.00	$1,672.00(CR)	$1,168.00(CR)	$792.00(CR)	$792.00(CR)	$792.00(CR)	$2,300.00
100 Mbps CIR	R6ELX	$150.00	$1,896.00(CR)	$1,320.00(CR)	$900.00(CR)	$900.00(CR)	$900.00(CR)	$2,620.00
150 Mbps CIR	R6ENX	$150.00	$2,416.00(CR)	$1,507.00(CR)	$980.00(CR)	$980.00(CR)	$980.00(CR)	$3,330.00
250 Mbps CIR	R6EQX	$150.00	$2,680.00(CR)	$1,950.00(CR)	$1,285.00(CR)	$1,285.00(CR)	$1,285.00(CR)	$3,700.00
400 Mbps CIR	R6ESX	$150.00	$2,940.00(CR)	$2,105.00(CR)	$1,398.00(CR)	$1,398.00(CR)	$1,398.00(CR)	$4,050.00
500 Mbps CIR	R6ETX	$150.00	$3,112.00(CR)	$2,198.00(CR)	$1,482.00(CR)	$1,482.00(CR)	$1,482.00(CR)	$4,280.00
600 Mbps CIR	R6EUX	$150.00	$3,544.00(CR)	$2,480.00(CR)	$1,686.00(CR)	$1,686.00(CR)	$1,686.00(CR)	$4,880.00
1000 Mbps CIR	R6EZX	$150.00	$4,032.00(CR)	$2,808.00(CR)	$1,914.00(CR)	$1,914.00(CR)	$1,914.00(CR)	$5,550.00
2000 Mbps CIR	R61BX	$150.00	$5,694.00(CR)	$4,840.00(CR)	$3,300.00(CR)	$3,300.00(CR)	$3,300.00(CR)	$7,909.00
2500 Mbps CIR	R61CX	$150.00	$6,834.00(CR)	$5,808.00(CR)	$3,960.00(CR)	$3,960.00(CR)	$3,960.00(CR)	$9,491.00
4000 Mbps CIR	R61FX	$150.00	$8,066.00(CR)	$6,856.00(CR)	$4,674.00(CR)	$4,674.00(CR)	$4,674.00(CR)	$11,203.00
5000 Mbps CIR	R61HX	$150.00	$9,487.00(CR)	$8,064.00(CR)	$5,496.00(CR)	$5,496.00(CR)	$5,496.00(CR)	$13,177.00
7500 Mbps CIR	R61NX	$150.00	$12,462.00(CR)	$10,592.00(CR)	$7,218.00(CR)	$7,218.00(CR)	$7,218.00(CR)	$17,308.00
9500 Mbps CIR	R61RX	$150.00	$14,834.00(CR)	$12,608.00(CR)	$8,592.00(CR)	$8,592.00(CR)	$8,592.00(CR)	$20,602.00
10000 Mbps CIR	R61SX	$150.00	$15,417.00(CR)	$13,104.00(CR)	$8,934.00(CR)	$8,934.00(CR)	$8,934.00(CR)	$21,412.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(B) MultiMedia High Committed Information Rate

MultiMedia High Committed Information Rate

Rate Element[(2)]	USOC	Nonrecurring Charges[(1)]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,150.00	$510.00	$460.00	$460.00	$460.00	$1,200.00
4 Mbps CIR	R6E4X	$150.00	$1,175.00	$550.00	$500.00	$500.00	$500.00	$1,275.00
5 Mbps CIR	R6EAX	$150.00	$1,250.00	$650.00	$590.00	$590.00	$590.00	$1,350.00
8 Mbps CIR	R6E8X	$150.00	$1,275.00	$750.00	$680.00	$680.00	$680.00	$1,375.00
10 Mbps CIR	R6EBX	$150.00	$1,345.00	$1,010.00	$910.00	$910.00	$910.00	$1,475.00
20 Mbps CIR	R6EDX	$150.00	$1,880.00	$1,300.00	$1,180.00	$1,180.00	$1,180.00	$2,070.00
50 Mbps CIR	R6EHX	$150.00	$2,090.00	$1,460.00	$1,320.00	$1,320.00	$1,320.00	$2,300.00
100 Mbps CIR	R6ELX	$150.00	$2,370.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,620.00
150 Mbps CIR	R6ENX	$150.00	$3,020.00	$1,780.00	$1,610.00	$1,610.00	$1,610.00	$3,330.00
250 Mbps CIR	R6EQX	$150.00	$3,350.00	$2,340.00	$2,120.00	$2,120.00	$2,120.00	$3,700.00
400 Mbps CIR	R6ESX	$150.00	$3,675.00	$2,570.00	$2,330.00	$2,330.00	$2,330.00	$4,050.00
500 Mbps CIR	R6ETX	$150.00	$3,890.00	$2,720.00	$2,470.00	$2,470.00	$2,470.00	$4,280.00
600 Mbps CIR	R6EUX	$150.00	$4,430.00	$3,100.00	$2,810.00	$2,810.00	$2,810.00	$4,880.00
1000 Mbps CIR	R6EZX	$150.00	$5,040.00	$3,510.00	$3,190.00	$3,190.00	$3,190.00	$5,550.00
2000 Mbps CIR	R61BX	$150.00	$7,118.00	$6,050.00	$5,500.00	$5,500.00	$5,500.00	$7,909.00
2500 Mbps CIR	R61CX	$150.00	$8,542.00	$7,260.00	$6,600.00	$6,600.00	$6,600.00	$9,491.00
4000 Mbps CIR	R61FX	$150.00	$10,083.00	$8,570.00	$7,790.00	$7,790.00	$7,790.00	$11,203.00
5000 Mbps CIR	R61HX	$150.00	$11,859.00	$10,080.00	$9,160.00	$9,160.00	$9,160.00	$13,177.00
7500 Mbps CIR	R61NX	$150.00	$15,577.00	$13,240.00	$12,030.00	$12,030.00	$12,030.00	$17,308.00
9500 Mbps CIR	R61RX	$150.00	$18,542.00	$15,760.00	$14,320.00	$14,320.00	$14,320.00	$20,602.00
10000 Mbps CIR	R61SX	$150.00	$19,271.00	$16,380.00	$14,890.00	$14,890.00	$14,890.00	$21,412.00

(AT)

[(1)] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[(2)] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(B) MultiMedia High Committed Information Rate

MultiMedia High Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,150.00	$510.00	$460.00	$460.00	$460.00	$1,200.00
4 Mbps CIR	R6E4X	$150.00	$1,175.00	$550.00	$500.00	$500.00	$500.00	$1,275.00
5 Mbps CIR	R6EAX	$150.00	$1,250.00	$650.00	$590.00	$590.00	$590.00	$1,350.00
8 Mbps CIR	R6E8X	$150.00	$1,275.00	$750.00	$680.00	$680.00	$680.00	$1,375.00
10 Mbps CIR	R6EBX	$150.00	$1,345.00	$1,010.00	$910.00	$910.00	$910.00	$1,475.00
20 Mbps CIR	R6EDX	$150.00	$1,880.00	$1,300.00	$1,180.00	$1,180.00	$1,180.00	$2,070.00
50 Mbps CIR	R6EHX	$150.00	$2,090.00	$1,460.00	$1,320.00	$1,320.00	$1,320.00	$2,300.00
100 Mbps CIR	R6ELX	$150.00	$2,370.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,620.00
150 Mbps CIR	R6ENX	$150.00	$3,020.00	$1,780.00	$1,610.00	$1,610.00	$1,610.00	$3,330.00
250 Mbps CIR	R6EQX	$150.00	$3,350.00	$2,340.00	$2,120.00	$2,120.00	$2,120.00	$3,700.00
500 Mbps CIR	R6ETX	$150.00	$3,890.00	$2,720.00	$2,470.00	$2,470.00	$2,470.00	$4,280.00
600 Mbps CIR	R6EUX	$150.00	$4,430.00	$3,100.00	$2,810.00	$2,810.00	$2,810.00	$4,880.00
1000 Mbps CIR	R6EZX	$150.00	$5,040.00	$3,510.00	$3,190.00	$3,190.00	$3,190.00	$5,550.00
2000 Mbps CIR	R61BX	$150.00	$7,118.00	$6,050.00	$5,500.00	$5,500.00	$5,500.00	$7,909.00
2500 Mbps CIR	R61CX	$150.00	$8,542.00	$7,260.00	$6,600.00	$6,600.00	$6,600.00	$9,491.00
4000 Mbps CIR	R61FX	$150.00	$10,083.00	$8,570.00	$7,790.00	$7,790.00	$7,790.00	$11,203.00
5000 Mbps CIR	R61HX	$150.00	$11,859.00	$10,080.00	$9,160.00	$9,160.00	$9,160.00	$13,177.00
7500 Mbps CIR	R61NX	$150.00	$15,577.00	$13,240.00	$12,030.00	$12,030.00	$12,030.00	$17,308.00
9500 Mbps CIR	R61RX	$150.00	$18,542.00	$15,760.00	$14,320.00	$14,320.00	$14,320.00	$20,602.00
10000 Mbps CIR	R61SX	$150.00	$19,271.00	$16,380.00	$14,890.00	$14,890.00	$14,890.00	$21,412.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) [2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(C) MultiMedia Standard Committed Information Rate

MultiMedia Standard Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$860.00(CR)	$376.00(CR)	$288.00(CR)	$288.00(CR)	$288.00(CR)	$1,100.00
4 Mbps CIR	R6E4X	$150.00	$880.00(CR)	$416.00(CR)	$320.00(CR)	$320.00(CR)	$320.00(CR)	$1,175.00
5 Mbps CIR	R6EAX	$150.00	$940.00(CR)	$488.00(CR)	$356.00(CR)	$356.00(CR)	$356.00(CR)	$1,250.00
8 Mbps CIR	R6E8X	$150.00	$960.00(CR)	$560.00(CR)	$381.00(CR)	$381.00(CR)	$381.00(CR)	$1,275.00
10 Mbps CIR	R6EBX	$150.00	$1,016.00(CR)	$752.00(CR)	$510.00(CR)	$510.00(CR)	$510.00(CR)	$1,375.00
20 Mbps CIR	R6EDX	$150.00	$1,304.00(CR)	$968.00(CR)	$660.00(CR)	$660.00(CR)	$660.00(CR)	$1,800.00
50 Mbps CIR	R6EHX	$150.00	$1,448.00(CR)	$1,080.00(CR)	$735.00(CR)	$735.00(CR)	$735.00(CR)	$2,000.00
100 Mbps CIR	R6ELX	$150.00	$1,648.00(CR)	$1,232.00(CR)	$840.00(CR)	$840.00(CR)	$840.00(CR)	$2,270.00
150 Mbps CIR	R6ENX	$150.00	$2,096.00(CR)	$1,397.00(CR)	$915.00(CR)	$915.00(CR)	$915.00(CR)	$2,890.00
250 Mbps CIR	R6EQX	$150.00	$2,328.00(CR)	$1,815.00(CR)	$1,195.00(CR)	$1,195.00(CR)	$1,195.00(CR)	$3,210.00
400 Mbps CIR	R6ESX	$150.00	$2,556.00(CR)	$1,955.00(CR)	$1,302.00(CR)	$1,302.00(CR)	$1,302.00(CR)	$3,520.00
500 Mbps CIR	R6ETX	$150.00	$2,704.00(CR)	$2,045.00(CR)	$1,380.00(CR)	$1,380.00(CR)	$1,380.00(CR)	$3,720.00
600 Mbps CIR	R6EUX	$150.00	$3,080.00(CR)	$2,312.00(CR)	$1,575.00(CR)	$1,575.00(CR)	$1,575.00(CR)	$4,240.00
1000 Mbps CIR	R6EZX	$150.00	$3,504.00(CR)	$2,624.00(CR)	$1,785.00(CR)	$1,785.00(CR)	$1,785.00(CR)	$4,820.00
2000 Mbps CIR	R61BX	$150.00	$5,327.00(CR)	$4,528.00(CR)	$3,084.00(CR)	$3,084.00(CR)	$3,084.00(CR)	$7,399.00
2500 Mbps CIR	R61CX	$150.00	$6,382.00(CR)	$5,424.00(CR)	$3,696.00(CR)	$3,696.00(CR)	$3,696.00(CR)	$8,863.00
4000 Mbps CIR	R61FX	$150.00	$7,539.00(CR)	$6,408.00(CR)	$4,368.00(CR)	$4,368.00(CR)	$4,368.00(CR)	$10,471.00
5000 Mbps CIR	R61HX	$150.00	$8,866.00(CR)	$7,536.00(CR)	$5,136.00(CR)	$5,136.00(CR)	$5,136.00(CR)	$12,314.00
7500 Mbps CIR	R61NX	$150.00	$11,642.00(CR)	$9,896.00(CR)	$6,744.00(CR)	$6,744.00(CR)	$6,744.00(CR)	$16,170.00
9500 Mbps CIR	R61RX	$150.00	$13,854.00(CR)	$11,776.00(CR)	$8,028.00(CR)	$8,028.00(CR)	$8,028.00(CR)	$19,242.00
10000 Mbps CIR	R61SX	$150.00	$14,410.00(CR)	$12,248.00(CR)	$8,346.00(CR)	$8,346.00(CR)	$8,346.00(CR)	$20,014.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(C) MultiMedia Standard Committed Information Rate

MultiMedia Standard Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,075.00	$470.00	$425.00	$425.00	$425.00	$1,100.00
4 Mbps CIR	R6E4X	$150.00	$1,100.00	$520.00	$465.00	$465.00	$465.00	$1,175.00
5 Mbps CIR	R6EAX	$150.00	$1,175.00	$610.00	$550.00	$550.00	$550.00	$1,250.00
8 Mbps CIR	R6E8X	$150.00	$1,200.00	$700.00	$635.00	$635.00	$635.00	$1,275.00
10 Mbps CIR	R6EBX	$150.00	$1,270.00	$940.00	$850.00	$850.00	$850.00	$1,375.00
20 Mbps CIR	R6EDX	$150.00	$1,630.00	$1,210.00	$1,100.00	$1,100.00	$1,100.00	$1,800.00
50 Mbps CIR	R6EHX	$150.00	$1,810.00	$1,350.00	$1,225.00	$1,225.00	$1,225.00	$2,000.00
100 Mbps CIR	R6ELX	$150.00	$2,060.00	$1,540.00	$1,400.00	$1,400.00	$1,400.00	$2,270.00
150 Mbps CIR	R6ENX	$150.00	$2,620.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,890.00
250 Mbps CIR	R6EQX	$150.00	$2,910.00	$2,180.00	$1,975.00	$1,975.00	$1,975.00	$3,210.00
400 Mbps CIR	R6ESX	$150.00	$3,195.00	$2,390.00	$2,170.00	$2,170.00	$2,170.00	$3,520.00
500 Mbps CIR	R6ETX	$150.00	$3,380.00	$2,530.00	$2,300.00	$2,300.00	$2,300.00	$3,720.00
600 Mbps CIR	R6EUX	$150.00	$3,850.00	$2,890.00	$2,625.00	$2,625.00	$2,625.00	$4,240.00
1000 Mbps CIR	R6EZX	$150.00	$4,380.00	$3,280.00	$2,975.00	$2,975.00	$2,975.00	$4,820.00
2000 Mbps CIR	R61BX	$150.00	$6,659.00	$5,660.00	$5,140.00	$5,140.00	$5,140.00	$7,399.00
2500 Mbps CIR	R61CX	$150.00	$7,977.00	$6,780.00	$6,160.00	$6,160.00	$6,160.00	$8,863.00
4000 Mbps CIR	R61FX	$150.00	$9,424.00	$8,010.00	$7,280.00	$7,280.00	$7,280.00	$10,471.00
5000 Mbps CIR	R61HX	$150.00	$11,083.00	$9,420.00	$8,560.00	$8,560.00	$8,560.00	$12,314.00
7500 Mbps CIR	R61NX	$150.00	$14,553.00	$12,370.00	$11,240.00	$11,240.00	$11,240.00	$16,170.00
9500 Mbps CIR	R61RX	$150.00	$17,318.00	$14,720.00	$13,380.00	$13,380.00	$13,380.00	$19,242.00
10000 Mbps CIR	R61SX	$150.00	$18,012.00	$15,310.00	$13,910.00	$13,910.00	$13,910.00	$20,014.00

(AT)

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(C) MultiMedia Standard Committed Information Rate

MultiMedia Standard Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,075.00	$470.00	$425.00	$425.00	$425.00	$1,100.00
4 Mbps CIR	R6E4X	$150.00	$1,100.00	$520.00	$465.00	$465.00	$465.00	$1,175.00
5 Mbps CIR	R6EAX	$150.00	$1,175.00	$610.00	$550.00	$550.00	$550.00	$1,250.00
8 Mbps CIR	R6E8X	$150.00	$1,200.00	$700.00	$635.00	$635.00	$635.00	$1,275.00
10 Mbps CIR	R6EBX	$150.00	$1,270.00	$940.00	$850.00	$850.00	$850.00	$1,375.00
20 Mbps CIR	R6EDX	$150.00	$1,630.00	$1,210.00	$1,100.00	$1,100.00	$1,100.00	$1,800.00
50 Mbps CIR	R6EHX	$150.00	$1,810.00	$1,350.00	$1,225.00	$1,225.00	$1,225.00	$2,000.00
100 Mbps CIR	R6ELX	$150.00	$2,060.00	$1,540.00	$1,400.00	$1,400.00	$1,400.00	$2,270.00
150 Mbps CIR	R6ENX	$150.00	$2,620.00	$1,650.00	$1,500.00	$1,500.00	$1,500.00	$2,890.00
250 Mbps CIR	R6EQX	$150.00	$2,910.00	$2,180.00	$1,975.00	$1,975.00	$1,975.00	$3,210.00
500 Mbps CIR	R6ETX	$150.00	$3,380.00	$2,530.00	$2,300.00	$2,300.00	$2,300.00	$3,720.00
600 Mbps CIR	R6EUX	$150.00	$3,850.00	$2,890.00	$2,625.00	$2,625.00	$2,625.00	$4,240.00
1000 Mbps CIR	R6EZX	$150.00	$4,380.00	$3,280.00	$2,975.00	$2,975.00	$2,975.00	$4,820.00
2000 Mbps CIR	R61BX	$150.00	$6,659.00	$5,660.00	$5,140.00	$5,140.00	$5,140.00	$7,399.00
2500 Mbps CIR	R61CX	$150.00	$7,977.00	$6,780.00	$6,160.00	$6,160.00	$6,160.00	$8,863.00
4000 Mbps CIR	R61FX	$150.00	$9,424.00	$8,010.00	$7,280.00	$7,280.00	$7,280.00	$10,471.00
5000 Mbps CIR	R61HX	$150.00	$11,083.00	$9,420.00	$8,560.00	$8,560.00	$8,560.00	$12,314.00
7500 Mbps CIR	R61NX	$150.00	$14,553.00	$12,370.00	$11,240.00	$11,240.00	$11,240.00	$16,170.00
9500 Mbps CIR	R61RX	$150.00	$17,318.00	$14,720.00	$13,380.00	$13,380.00	$13,380.00	$19,242.00
10000 Mbps CIR	R61SX	$150.00	$18,012.00	$15,310.00	$13,910.00	$13,910.00	$13,910.00	$20,014.00

(1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) (2) Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(D) Critical Data Committed Information Rate

Critical Data Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$800.00(CR)	$260.00(CR)	$252.00(CR)	$252.00(CR)	$252.00(CR)	$1,050.00
4 Mbps CIR	R6E4X	$150.00	$820.00(CR)	$312.00(CR)	$263.00(CR)	$263.00(CR)	$263.00(CR)	$1,075.00
5 Mbps CIR	R6EAX	$150.00	$880.00(CR)	$400.00(CR)	$270.00(CR)	$270.00(CR)	$270.00(CR)	$1,150.00
8 Mbps CIR	R6E8X	$150.00	$900.00(CR)	$488.00(CR)	$330.00(CR)	$330.00(CR)	$330.00(CR)	$1,175.00
10 Mbps CIR	R6EBX	$150.00	$956.00(CR)	$576.00(CR)	$390.00(CR)	$390.00(CR)	$390.00(CR)	$1,275.00
20 Mbps CIR	R6EDX	$150.00	$1,056.00(CR)	$792.00(CR)	$540.00(CR)	$540.00(CR)	$540.00(CR)	$1,460.00
50 Mbps CIR	R6EHX	$150.00	$1,216.00(CR)	$904.00(CR)	$615.00(CR)	$615.00(CR)	$615.00(CR)	$1,680.00
100 Mbps CIR	R6ELX	$150.00	$1,424.00(CR)	$1,056.00(CR)	$720.00(CR)	$720.00(CR)	$720.00(CR)	$1,960.00
150 Mbps CIR	R6ENX	$150.00	$1,632.00(CR)	$1,216.00(CR)	$825.00(CR)	$825.00(CR)	$825.00(CR)	$2,250.00
250 Mbps CIR	R6EQX	$150.00	$1,872.00(CR)	$1,392.00(CR)	$945.00(CR)	$945.00(CR)	$945.00(CR)	$2,580.00
400 Mbps CIR	R6ESX	$150.00	$2,088.00(CR)	$1,560.00(CR)	$1,062.00(CR)	$1,062.00(CR)	$1,062.00(CR)	$2,875.00
500 Mbps CIR	R6ETX	$150.00	$2,232.00(CR)	$1,672.00(CR)	$1,140.00(CR)	$1,140.00(CR)	$1,140.00(CR)	$3,070.00
600 Mbps CIR	R6EUX	$150.00	$2,616.00(CR)	$1,960.00(CR)	$1,335.00(CR)	$1,335.00(CR)	$1,335.00(CR)	$3,600.00
1000 Mbps CIR	R6EZX	$150.00	$3,040.00(CR)	$2,272.00(CR)	$1,545.00(CR)	$1,545.00(CR)	$1,545.00(CR)	$4,180.00
2000 Mbps CIR	R61BX	$150.00	$4,970.00(CR)	$4,224.00(CR)	$2,880.00(CR)	$2,880.00(CR)	$2,880.00(CR)	$6,902.00
2500 Mbps CIR	R61CX	$150.00	$5,958.00(CR)	$5,064.00(CR)	$3,450.00(CR)	$3,450.00(CR)	$3,450.00(CR)	$8,275.00
4000 Mbps CIR	R61FX	$150.00	$7,040.00(CR)	$5,984.00(CR)	$4,080.00(CR)	$4,080.00(CR)	$4,080.00(CR)	$9,778.00
5000 Mbps CIR	R61HX	$150.00	$8,282.00(CR)	$7,040.00(CR)	$4,800.00(CR)	$4,800.00(CR)	$4,800.00(CR)	$11,504.00
7500 Mbps CIR	R61NX	$150.00	$10,871.00(CR)	$9,240.00(CR)	$6,300.00(CR)	$6,300.00(CR)	$6,300.00(CR)	$15,099.00
9500 Mbps CIR	R61RX	$150.00	$12,942.00(CR)	$11,000.00(CR)	$7,500.00(CR)	$7,500.00(CR)	$7,500.00(CR)	$17,974.00
10000 Mbps CIR	R61SX	$150.00	$13,459.00(CR)	$11,440.00(CR)	$7,800.00(CR)	$7,800.00(CR)	$7,800.00(CR)	$18,693.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(D) Critical Data Committed Information Rate

Critical Data Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,000.00	$330.00	$300.00	$300.00	$300.00	$1,050.00
4 Mbps CIR	R6E4X	$150.00	$1,025.00	$390.00	$350.00	$350.00	$350.00	$1,075.00
5 Mbps CIR	R6EAX	$150.00	$1,100.00	$500.00	$450.00	$450.00	$450.00	$1,150.00
8 Mbps CIR	R6E8X	$150.00	$1,125.00	$610.00	$550.00	$550.00	$550.00	$1,175.00
10 Mbps CIR	R6EBX	$150.00	$1,195.00	$720.00	$650.00	$650.00	$650.00	$1,275.00
20 Mbps CIR	R6EDX	$150.00	$1,320.00	$990.00	$900.00	$900.00	$900.00	$1,460.00
50 Mbps CIR	R6EHX	$150.00	$1,520.00	$1,130.00	$1,025.00	$1,025.00	$1,025.00	$1,680.00
100 Mbps CIR	R6ELX	$150.00	$1,780.00	$1,320.00	$1,200.00	$1,200.00	$1,200.00	$1,960.00
150 Mbps CIR	R6ENX	$150.00	$2,040.00	$1,520.00	$1,375.00	$1,375.00	$1,375.00	$2,250.00
250 Mbps CIR	R6EQX	$150.00	$2,340.00	$1,740.00	$1,575.00	$1,575.00	$1,575.00	$2,580.00
(AT) 400 Mbps CIR	R6ESX	$150.00	$2,610.00	$1,950.00	$1,770.00	$1,770.00	$1,770.00	$2,875.00
500 Mbps CIR	R6ETX	$150.00	$2,790.00	$2,090.00	$1,900.00	$1,900.00	$1,900.00	$3,070.00
600 Mbps CIR	R6EUX	$150.00	$3,270.00	$2,450.00	$2,225.00	$2,225.00	$2,225.00	$3,600.00
1000 Mbps CIR	R6EZX	$150.00	$3,800.00	$2,840.00	$2,575.00	$2,575.00	$2,575.00	$4,180.00
2000 Mbps CIR	R61BX	$150.00	$6,212.00	$5,280.00	$4,800.00	$4,800.00	$4,800.00	$6,902.00
2500 Mbps CIR	R61CX	$150.00	$7,448.00	$6,330.00	$5,750.00	$5,750.00	$5,750.00	$8,275.00
4000 Mbps CIR	R61FX	$150.00	$8,800.00	$7,480.00	$6,800.00	$6,800.00	$6,800.00	$9,778.00
5000 Mbps CIR	R61HX	$150.00	$10,353.00	$8,800.00	$8,000.00	$8,000.00	$8,000.00	$11,504.00
7500 Mbps CIR	R61NX	$150.00	$13,589.00	$11,550.00	$10,500.00	$10,500.00	$10,500.00	$15,099.00
9500 Mbps CIR	R61RX	$150.00	$16,177.00	$13,750.00	$12,500.00	$12,500.00	$12,500.00	$17,974.00
10000 Mbps CIR	R61SX	$150.00	$16,824.00	$14,300.00	$13,000.00	$13,000.00	$13,000.00	$18,693.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(D) Critical Data Committed Information Rate

Critical Data Committed Information Rate								
Rate Element[2]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$1,000.00	$330.00	$300.00	$300.00	$300.00	$1,050.00
4 Mbps CIR	R6E4X	$150.00	$1,025.00	$390.00	$350.00	$350.00	$350.00	$1,075.00
5 Mbps CIR	R6EAX	$150.00	$1,100.00	$500.00	$450.00	$450.00	$450.00	$1,150.00
8 Mbps CIR	R6E8X	$150.00	$1,125.00	$610.00	$550.00	$550.00	$550.00	$1,175.00
10 Mbps CIR	R6EBX	$150.00	$1,195.00	$720.00	$650.00	$650.00	$650.00	$1,275.00
20 Mbps CIR	R6EDX	$150.00	$1,320.00	$990.00	$900.00	$900.00	$900.00	$1,460.00
50 Mbps CIR	R6EHX	$150.00	$1,520.00	$1,130.00	$1,025.00	$1,025.00	$1,025.00	$1,680.00
100 Mbps CIR	R6ELX	$150.00	$1,780.00	$1,320.00	$1,200.00	$1,200.00	$1,200.00	$1,960.00
150 Mbps CIR	R6ENX	$150.00	$2,040.00	$1,520.00	$1,375.00	$1,375.00	$1,375.00	$2,250.00
250 Mbps CIR	R6EQX	$150.00	$2,340.00	$1,740.00	$1,575.00	$1,575.00	$1,575.00	$2,580.00
500 Mbps CIR	R6ETX	$150.00	$2,790.00	$2,090.00	$1,900.00	$1,900.00	$1,900.00	$3,070.00
600 Mbps CIR	R6EUX	$150.00	$3,270.00	$2,450.00	$2,225.00	$2,225.00	$2,225.00	$3,600.00
1000 Mbps CIR	R6EZX	$150.00	$3,800.00	$2,840.00	$2,575.00	$2,575.00	$2,575.00	$4,180.00
2000 Mbps CIR	R61BX	$150.00	$6,212.00	$5,280.00	$4,800.00	$4,800.00	$4,800.00	$6,902.00
2500 Mbps CIR	R61CX	$150.00	$7,448.00	$6,330.00	$5,750.00	$5,750.00	$5,750.00	$8,275.00
4000 Mbps CIR	R61FX	$150.00	$8,800.00	$7,480.00	$6,800.00	$6,800.00	$6,800.00	$9,778.00
5000 Mbps CIR	R61HX	$150.00	$10,353.00	$8,800.00	$8,000.00	$8,000.00	$8,000.00	$11,504.00
7500 Mbps CIR	R61NX	$150.00	$13,589.00	$11,550.00	$10,500.00	$10,500.00	$10,500.00	$15,099.00
9500 Mbps CIR	R61RX	$150.00	$16,177.00	$13,750.00	$12,500.00	$12,500.00	$12,500.00	$17,974.00
10000 Mbps CIR	R61SX	$150.00	$16,824.00	$14,300.00	$13,000.00	$13,000.00	$13,000.00	$18,693.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) [2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(E) Business Data Committed Information Rate

Business Data Committed Information Rate								
Rate Element[3]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$740.00(CR)	$250.00(CR)	$240.00(CR)	$240.00(CR)	$240.00(CR)	$950.00
4 Mbps CIR	R6E4X	$150.00	$760.00(CR)	$296.00(CR)	$245.00(CR)	$245.00(CR)	$245.00(CR)	$975.00
5 Mbps CIR	R6EAX	$150.00	$820.00(CR)	$372.00(CR)	$258.00(CR)	$258.00(CR)	$258.00(CR)	$1,050.00
8 Mbps CIR	R6E8X	$150.00	$840.00(CR)	$456.00(CR)	$318.00(CR)	$318.00(CR)	$318.00(CR)	$1,075.00
10 Mbps CIR	R6EBX	$150.00	$896.00(CR)	$536.00(CR)	$372.00(CR)	$372.00(CR)	$372.00(CR)	$1,175.00
20 Mbps CIR	R6EDX	$150.00	$1,008.00(CR)	$740.00(CR)	$516.00(CR)	$516.00(CR)	$516.00(CR)	$1,390.00
50 Mbps CIR	R6EHX	$150.00	$1,160.00(CR)	$844.00(CR)	$588.00(CR)	$588.00(CR)	$588.00(CR)	$1,600.00
100 Mbps CIR	R6ELX	$150.00	$1,360.00(CR)	$984.00(CR)	$684.00(CR)	$684.00(CR)	$684.00(CR)	$1,870.00
150 Mbps CIR	R6ENX	$150.00	$1,552.00(CR)	$1,128.00(CR)	$786.00(CR)	$786.00(CR)	$786.00(CR)	$2,140.00
250 Mbps CIR	R6EQX	$150.00	$1,784.00(CR)	$1,292.00(CR)	$900.00(CR)	$900.00(CR)	$900.00(CR)	$2,460.00
400 Mbps CIR	R6ESX	$150.00	$1,992.00(CR)	$1,452.00(CR)	$1,011.00(CR)	$1,011.00(CR)	$1,011.00(CR)	$2,735.00
500 Mbps CIR	R6ETX	$150.00	$2,128.00(CR)	$1,556.00(CR)	$1,086.00(CR)	$1,086.00(CR)	$1,086.00(CR)	$2,920.00
600 Mbps CIR	R6EUX	$150.00	$2,488.00(CR)	$1,824.00(CR)	$1,272.00(CR)	$1,272.00(CR)	$1,272.00(CR)	$3,420.00
1000 Mbps CIR	R6EZX	$150.00	$2,888.00(CR)	$2,112.00(CR)	$1,470.00(CR)	$1,470.00(CR)	$1,470.00(CR)	$3,980.00
2000 Mbps CIR	R61BX	$150.00	$4,728.00(CR)	$3,936.00(CR)	$2,736.00(CR)	$2,736.00(CR)	$2,736.00(CR)	$6,560.00
2500 Mbps CIR	R61CX	$150.00	$5,664.00(CR)	$4,720.00(CR)	$3,282.00(CR)	$3,282.00(CR)	$3,282.00(CR)	$7,870.00
4000 Mbps CIR	R61FX	$150.00	$6,688.00(CR)	$5,576.00(CR)	$3,876.00(CR)	$3,876.00(CR)	$3,876.00(CR)	$9,290.00
5000 Mbps CIR	R61HX	$150.00	$7,872.00(CR)	$6,560.00(CR)	$4,560.00(CR)	$4,560.00(CR)	$4,560.00(CR)	$10,930.00
7500 Mbps CIR	R61NX	$150.00	$10,328.00(CR)	$8,612.00(CR)	$5,988.00(CR)	$5,988.00(CR)	$5,988.00(CR)	$14,350.00
9500 Mbps CIR	R61RX	$150.00	$12,296.00(CR)	$10,252.00(CR)	$7,128.00(CR)	$7,128.00(CR)	$7,128.00(CR)	$17,080.00
10000 Mbps CIR	R61SX	$150.00	$12,792.00(CR)	$10,660.00(CR)	$7,410.00(CR)	$7,410.00(CR)	$7,410.00(CR)	$17,760.00

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

23. ETHERNET SERVICE (CONT'D)

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(E) Business Data Committed Information Rate

Business Data Committed Information Rate								
Rate Element[3]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$925.00	$310.00	$290.00	$290.00	$290.00	$950.00
4 Mbps CIR	R6E4X	$150.00	$950.00	$370.00	$340.00	$340.00	$340.00	$975.00
5 Mbps CIR	R6EAX	$150.00	$1,025.00	$465.00	$430.00	$430.00	$430.00	$1,050.00
8 Mbps CIR	R6E8X	$150.00	$1,050.00	$570.00	$530.00	$530.00	$530.00	$1,075.00
10 Mbps CIR	R6EBX	$150.00	$1,120.00	$670.00	$620.00	$620.00	$620.00	$1,175.00
20 Mbps CIR	R6EDX	$150.00	$1,260.00	$925.00	$860.00	$860.00	$860.00	$1,390.00
50 Mbps CIR	R6EHX	$150.00	$1,450.00	$1,055.00	$980.00	$980.00	$980.00	$1,600.00
100 Mbps CIR	R6ELX	$150.00	$1,700.00	$1,230.00	$1,140.00	$1,140.00	$1,140.00	$1,870.00
150 Mbps CIR	R6ENX	$150.00	$1,940.00	$1,410.00	$1,310.00	$1,310.00	$1,310.00	$2,140.00
250 Mbps CIR	R6EQX	$150.00	$2,230.00	$1,615.00	$1,500.00	$1,500.00	$1,500.00	$2,460.00
400 Mbps CIR	R6ESX	$150.00	$2,490.00	$1,815.00	$1,685.00	$1,685.00	$1,685.00	$2,735.00
500 Mbps CIR	R6ETX	$150.00	$2,660.00	$1,945.00	$1,810.00	$1,810.00	$1,810.00	$2,920.00
600 Mbps CIR	R6EUX	$150.00	$3,110.00	$2,280.00	$2,120.00	$2,120.00	$2,120.00	$3,420.00
1000 Mbps CIR	R6EZX	$150.00	$3,610.00	$2,640.00	$2,450.00	$2,450.00	$2,450.00	$3,980.00
2000 Mbps CIR	R61BX	$150.00	$5,910.00	$4,920.00	$4,560.00	$4,560.00	$4,560.00	$6,560.00
2500 Mbps CIR	R61CX	$150.00	$7,080.00	$5,900.00	$5,470.00	$5,470.00	$5,470.00	$7,870.00
4000 Mbps CIR	R61FX	$150.00	$8,360.00	$6,970.00	$6,460.00	$6,460.00	$6,460.00	$9,290.00
5000 Mbps CIR	R61HX	$150.00	$9,840.00	$8,200.00	$7,600.00	$7,600.00	$7,600.00	$10,930.00
7500 Mbps CIR	R61NX	$150.00	$12,910.00	$10,765.00	$9,980.00	$9,980.00	$9,980.00	$14,350.00
9500 Mbps CIR	R61RX	$150.00	$15,370.00	$12,815.00	$11,880.00	$11,880.00	$11,880.00	$17,080.00
10000 Mbps CIR	R61SX	$150.00	$15,990.00	$13,325.00	$12,350.00	$12,350.00	$12,350.00	$17,760.00

(AT)

[1] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
[2] Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(2) PPCOS Service Arrangement (Cont'd)

(E) Business Data Committed Information Rate

Business Data Committed Information Rate								
Rate Element[3]	USOC	Nonrecurring Charges[1]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
2 Mbps CIR	R6E2X	$150.00	$925.00	$310.00	$290.00	$290.00	$290.00	$950.00
4 Mbps CIR	R6E4X	$150.00	$950.00	$370.00	$340.00	$340.00	$340.00	$975.00
5 Mbps CIR	R6EAX	$150.00	$1,025.00	$465.00	$430.00	$430.00	$430.00	$1,050.00
8 Mbps CIR	R6E8X	$150.00	$1,050.00	$570.00	$530.00	$530.00	$530.00	$1,075.00
10 Mbps CIR	R6EBX	$150.00	$1,120.00	$670.00	$620.00	$620.00	$620.00	$1,175.00
20 Mbps CIR	R6EDX	$150.00	$1,260.00	$925.00	$860.00	$860.00	$860.00	$1,390.00
50 Mbps CIR	R6EHX	$150.00	$1,450.00	$1,055.00	$980.00	$980.00	$980.00	$1,600.00
100 Mbps CIR	R6ELX	$150.00	$1,700.00	$1,230.00	$1,140.00	$1,140.00	$1,140.00	$1,870.00
150 Mbps CIR	R6ENX	$150.00	$1,940.00	$1,410.00	$1,310.00	$1,310.00	$1,310.00	$2,140.00
250 Mbps CIR	R6EQX	$150.00	$2,230.00	$1,615.00	$1,500.00	$1,500.00	$1,500.00	$2,460.00
500 Mbps CIR	R6ETX	$150.00	$2,660.00	$1,945.00	$1,810.00	$1,810.00	$1,810.00	$2,920.00
600 Mbps CIR	R6EUX	$150.00	$3,110.00	$2,280.00	$2,120.00	$2,120.00	$2,120.00	$3,420.00
1000 Mbps CIR	R6EZX	$150.00	$3,610.00	$2,640.00	$2,450.00	$2,450.00	$2,450.00	$3,980.00
2000 Mbps CIR	R61BX	$150.00	$5,910.00	$4,920.00	$4,560.00	$4,560.00	$4,560.00	$6,560.00
2500 Mbps CIR	R61CX	$150.00	$7,080.00	$5,900.00	$5,470.00	$5,470.00	$5,470.00	$7,870.00
4000 Mbps CIR	R61FX	$150.00	$8,360.00	$6,970.00	$6,460.00	$6,460.00	$6,460.00	$9,290.00
5000 Mbps CIR	R61HX	$150.00	$9,840.00	$8,200.00	$7,600.00	$7,600.00	$7,600.00	$10,930.00
7500 Mbps CIR	R61NX	$150.00	$12,910.00	$10,765.00	$9,980.00	$9,980.00	$9,980.00	$14,350.00
9500 Mbps CIR	R61RX	$150.00	$15,370.00	$12,815.00	$11,880.00	$11,880.00	$11,880.00	$17,080.00
10000 Mbps CIR	R61SX	$150.00	$15,990.00	$13,325.00	$12,350.00	$12,350.00	$12,350.00	$17,760.00

(1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).
(AT) (2) Table B in 23.1.5 shows the CIR bandwidth supported on each Customer Port Connection.

ACCESS SERVICE

(RT)

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(3) Optional Features

Optional Features								
Rate Element	USOC	Nonrecurring Charges[(1)]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
Regenerator (per port)								
100 Mbps	EYQHX	$250.00	$3,250.00	$1,630.00	$1,090.00	$820.00	$650.00	$3,400.00
1 Gbps	EYQJX	$250.00	$3,250.00	$1,630.00	$1,090.00	$820.00	$650.00	$3,400.00
10 Gbps	EYQKX	$1,500.00	$6,000.00	$4,800.00	$4,400.00	$4,200.00	$3,900.00	$7,200.00
Alternate Serving Switch								
0 – 10 miles	1HHEK	$1,200.00	$970.00	$485.00	$325.00	$245.00	$195.00	$1,165.00
11 – 25 miles	1HHEL	$1,200.00	$1,940.00	$970.00	$650.00	$490.00	$390.00	$2,330.00
26 – 35 miles	1HHEM	$1,200.00	$6,500.00	$3,300.00	$2,200.00	$1,700.00	$1,300.00	$8,120.00
36 – 50 miles	1HHEN	$1,200.00	$7,200.00	$4,300.00	$3,000.00	$2,500.00	$2,200.00	$8,700.00
Diverse Access	EY7AD	$600.00	$750.00	$450.00	$250.00	$250.00	$250.00	$1,000.00
Advanced Access Failover (Per Port)								
1 Gbps	EY7AA	$1,200.00	$4,000.00	$2,500.00	$2,120.00	$2,120.00	$2,120.00	$4,200.00
10 Gbps	EY7AB	$1,200.00	$22,000.00	$15,000.00	$9,000.00	$9,000.00	$9,000.00	$23,000.00
Direct LEC Additional Mileage								
2 through 20 Mbps								
0 – 10 miles	1HHDO	$1,200.00	$1,520.00	$980.00	$750.00	$600.00	$500.00	$1,980.00
11 – 25 miles	1HHDA	$1,200.00	$3,030.00	$1,950.00	$1,500.00	$1,200.00	$1,000.00	$3,940.00
26 – 35 miles	1HHDB	$1,200.00	$4,550.00	$2,930.00	$2,250.00	$1,800.00	$1,500.00	$5,920.00
36 – 50 miles	1HHDC	$1,200.00	$7,570.00	$4,880.00	$3,750.00	$3,000.00	$2,500.00	$9,850.00
50 through 150 Mbps								
0 – 10 miles	1HHDP	$1,200.00	$1,520.00	$980.00	$750.00	$600.00	$500.00	$1,980.00
11 – 25 miles	1HHDD	$1,200.00	$3,030.00	$1,950.00	$1,500.00	$1,200.00	$1,000.00	$3,940.00
26 – 35 miles	1HHDE	$1,200.00	$4,550.00	$2,930.00	$2,250.00	$1,800.00	$1,500.00	$5,920.00
36 – 50 miles	1HHDF	$1,200.00	$7,570.00	$4,880.00	$3,750.00	$3,000.00	$2,500.00	$9,850.00
250 Mbps through 1Gbps								
0 – 10 miles	1HHDQ	$1,200.00	$1,520.00	$980.00	$750.00	$600.00	$500.00	$1,980.00
11 – 25 miles	1HHDG	$1,200.00	$3,030.00	$1,950.00	$1,500.00	$1,200.00	$1,000.00	$3,940.00
26 – 35 miles	1HHDH	$1,200.00	$4,550.00	$2,930.00	$2,250.00	$1,800.00	$1,500.00	$5,920.00
36 – 50 miles	1HHDJ	$1,200.00	$7,570.00	$4,880.00	$3,750.00	$3,000.00	$2,500.00	$9,850.00

(AT) [(1)] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).

ACCESS SERVICE

(RT)

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE[SM] (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(3) Optional Features (Cont'd)

Rate Element	USOC	Nonrecurring Charges[(1)]	12 Months	24 Months	36 Months	48 Months	60 Months	Term Extension MTM Rates
ICO NNI Arrangement (ICO Trunking Arrangement)								
ICO Trunk Connection Charge, per EVC								
2 Mbps	LYTOA	$300.00	$350.00	$290.00	$250.00	$235.00	$220.00	$420.00
4 Mbps	LYTOB	$345.00	$400.00	$330.00	$285.00	$268.00	$250.00	$480.00
5 Mbps	LYTOC	$400.00	$450.00	$370.00	$315.00	$293.00	$270.00	$540.00
8 Mbps	LYTOD	$460.00	$510.00	$420.00	$360.00	$335.00	$310.00	$620.00
10 Mbps	LYTOE	$525.00	$590.00	$490.00	$420.00	$390.00	$360.00	$710.00
20 Mbps	LYTOF	$600.00	$700.00	$580.00	$504.00	$467.00	$430.00	$840.00
50 Mbps	LYTOG	$700.00	$880.00	$730.00	$630.00	$585.00	$540.00	$1060.00
100 Mbps	LYTOH	$800.00	$1170.00	$970.00	$840.00	$780.00	$720.00	$1410.00
150 Mbps	LYTOJ	$925.00	$1740.00	$1450.00	$1260.00	$1170.00	$1080.00	$2090.00
200 Mbps	LYTOO	$1200.00	$2000.00	$1660.00	$1440.00	$1335.00	$1230.00	$2400.00
250 Mbps	LYTOK	$1200.00	$2250.00	$1870.00	$1620.00	$1500.00	$1380.00	$2700.00
300 Mbps	LYTOP	$1200.00	$2840.00	$2360.00	$2048.00	$1896.00	$1744.00	$3410.00
400 Mbps	LYTOQ	$1200.00	$4320.00	$3595.00	$3124.00	$2891.00	$2657.00	$5190.00
500 Mbps	LYTOL	$1200.00	$4840.00	$4030.00	$3500.00	$3240.00	$2980.00	$5810.00
600 Mbps	LYTOM	$1200.00	$5800.00	$4830.00	$4200.00	$3885.00	$3570.00	$6960.00
700 Mbps	LYTOR	$1200.00	$5840.00	$5000.00	$4420.00	4110.00	$3800.00	$7010.00
800 Mbps	LYTOS	$1200.00	$6000.00	$5140.00	$4540.00	$4220.00	$3900.00	$7200.00
900 Mbps	LYTOT	$1200.00	$6160.00	$5270.00	$4660.00	$4330.00	$4000.00	$7400.00
1000 Mbps	LYTON	$1200.00	$6600.00	$5500.00	$4830.00	$4465.00	$4100.00	$7920.00
ICO NNI Arrangement (ICO Trunking Arrangement) Additional Mileage								
2 through 20 Mbps								
0 – 10 miles	JZ49E	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
11 – 25 miles	JZXTE	$0.00	$260.00	$200.00	$170.00	$170.00	$170.00	$290.00
26 – 35 miles	JZXTH	$0.00	$420.00	$320.00	$270.00	$270.00	$270.00	$470.00
36 – 50 miles	JZXTL	$0.00	$630.00	$480.00	$410.00	$410.00	$410.00	$700.00
50 through 200 Mbps								
0 – 10 miles	JZ49E	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
11 – 25 miles	JZ49A	$0.00	$580.00	$440.00	$375.00	$375.00	$375.00	$640.00
26 – 35 miles	JZ49C	$0.00	$1020.00	$780.00	$675.00	$675.00	$675.00	$1130.00
36 – 50 miles	JZ49D	$0.00	$1660.00	$1270.00	$1100.00	$1100.00	$1100.00	$1830.00
250 through 1 Gbps								
0 – 10 miles	JZ49E	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
11 – 25 miles	JZ49B	$0.00	$2250.00	$1730.00	$1500.00	$1500.00	$1500.00	$2480.00
26 – 35 miles	JZXTK	$0.00	$2630.00	$2020.00	$1750.00	$1750.00	$1750.00	$2900.00
36 – 50 miles	JZXTO	$0.00	$2990.00	$2300.00	$2000.00	$2000.00	$2000.00	$3290.00

(AT) [(1)] Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).

ACCESS SERVICE

(RT)

ACCESS SERVICE

(AT) **23. ETHERNET SERVICE (CONT'D)**

23.1 AT&T SWITCHED ETHERNET SERVICE℠ (CONT'D)

23.1.6 Rates and Charges (Cont'd)

(3) Optional Features (Cont'd)

Additional Charges			
Rate Element	USOC	Nonrecurring Charges(1)	Monthly Recurring Charge
Additional MAC Addresses (per port)	M2CBX	$70.00	$5.00
Enhanced Multicast (per port)	EY7AE	$0.00	$140.00
Administrative Charge (per order)	ORCMX	$51.00	NA

(AT) (1) Nonrecurring Charges are waived for service ordered under an EPP as specified in 23.1.4(B).

ACCESS SERVICE

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

For service description, terms and conditions, and pricing, please see AT&T Dedicated Ethernet Service described in the AT&T Ethernet Service Guide found at the following website: (AT)

https://cpr.att.com/pdf/commonEthServGuide.html

Material from Page 37 through Page 52 is hereby deleted in its entirety. (AT)

(RT)

ACCESS SERVICE

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

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

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

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

(B) The Telephone reserves the right to make individualized decisions regarding the provision of AT&T Dedicated Ethernet to individual customers. The Telephone Company may negotiate the specific prices and terms for AT&T Dedicated Ethernet for each individual customer. Unless otherwise specified in this section, the general terms and conditions of this Intrastate Access Tariff apply to AT&T Dedicated Ethernet service (e.g., Section 2). (CT) (CT)

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

One Port Connection charge applies per Customer Site at which the Port Connection is terminated. This charge will apply even if the Customer Site and the serving wire center are both located in the same Telephone Company building (e.g., where the Customer Site is a collocation arrangement[(1)], Carrier Point-of-Presence, etc.).

Rates and charges for the Port Connection are provided in Section 23.2.5.

(1) In addition to a Port Connection charge, cross connect charges will also apply under the applicable tariffs for connecting AT&T Dedicated Ethernet Service to a collocation arrangement.

ACCESS SERVICE

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

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

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

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

(B) The Telephone Company offers AT&T Dedicated Ethernet on a private carriage basis and reserves the right to make individualized decisions regarding the provision of service to individual customers. The Telephone Company may negotiate the specific prices and terms for AT&T Dedicated Ethernet for each individual customer. Unless otherwise specified in this section, the general terms and conditions of this Intrastate Access Tariff apply to AT&T Dedicated Ethernet service (e.g. Section 2). (AT) (AT)

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

One Port Connection charge applies per Customer Site at which the Port Connection is terminated. This charge will apply even if the Customer Site and the serving wire center are both located in the same Telephone Company building (e.g., where the Customer Site is a collocation arrangement[(1)], Carrier Point-of-Presence, etc.).

Rates and charges for the Port Connection are provided in Section 23.2.5.

(1) In addition to a Port Connection charge, cross connect charges will also apply under the applicable tariffs for connecting AT&T Dedicated Ethernet Service to a collocation arrangement.

(AT) **23.2 AT&T DEDICATED ETHERNET SERVICE**

23.2.1 Service Description

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

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

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

(B) Unless otherwise specified in this section, the general terms and conditions of this Intrastate Access Tariff apply to AT&T Dedicated Ethernet service (e.g. Section 2).

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

One Port Connection charge applies per Customer Site at which the Port Connection is terminated. This charge will apply even if the Customer Site and the serving wire center are both located in the same Telephone Company building (e.g., where the Customer Site is a collocation arrangement[(1)], Carrier Point-of-Presence, etc.).

Rates and charges for the Port Connection are provided in Section 23.2.5.

(1) In addition to a Port Connection charge, cross connect charges will also apply under the applicable tariffs for (AT) connecting AT&T Dedicated Ethernet Service to a collocation arrangement.

ACCESS SERVICE

(RT)

(AT)

23.2 AT&T DEDICATED ETHERNET SERVICE

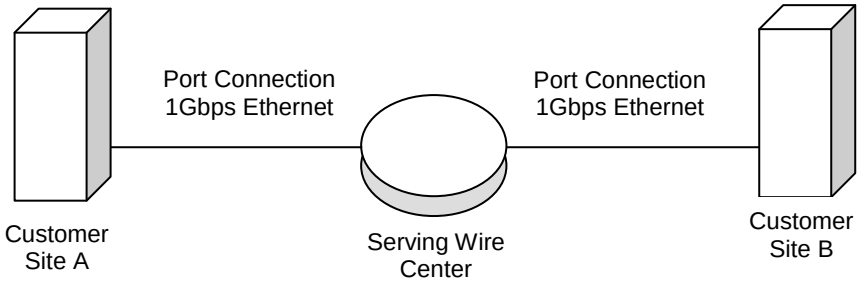
23.2.1 Service Description

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

(1) Same Speed / Same Format

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

Same Speed / Same Format Configuration

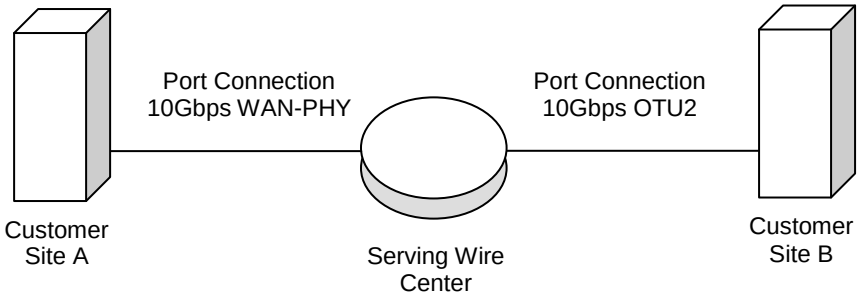


This example illustrates a 1Gbps Ethernet circuit from Customer Site A to Customer Site B for a same speed / same format arrangement. In this example, two – 1Gbps Ethernet Port Connection charges are applicable.

(2) Same Speed / Different Format

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

Same Speed / Different Format Configuration



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

(AT)

(RT)

(AT)

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(3) Higher Speed Aggregation

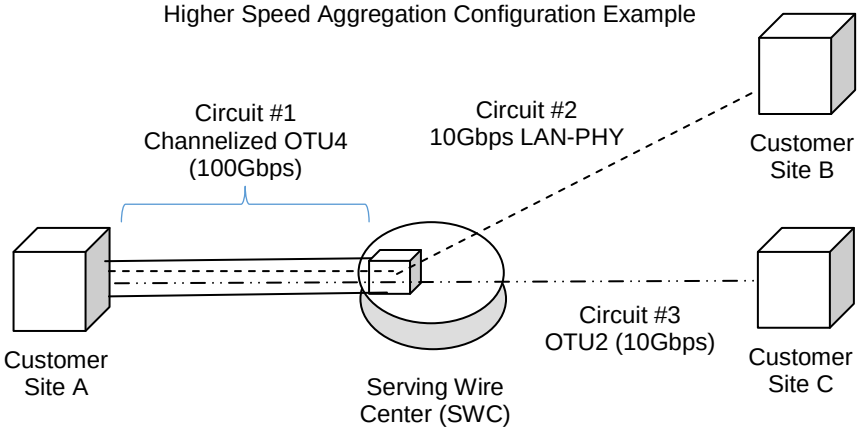
Higher Speed Aggregation permits Customers to connect a lower speed AT&T Dedicated Ethernet Port Connection to a channelized higher speed AT&T Dedicated Ethernet Port Connection.

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

A channelized OTU2 Port Connection can connect up to eight 1GE Port Connections or four OTU1 Port Connections, or any other combination of such Port Connections, up to the available capacity of the channelized OTU2 Port Connection.

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

Higher Speed Aggregation Configuration Example



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

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

   One OTU4 Port Connection monthly recurring charge applies for Circuit #1.

(AT)

ACCESS SERVICE

(RT)

(AT)

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

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

   One 10GE LAN-PHY Port Connection monthly recurring charge applies to Circuit #2 for the Port Connection at Customer Site B.

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

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

   One OTU2 Port Connection monthly recurring charge applies for Circuit #3 for the Port Connection at Customer Site C.

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

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ACCESS SERVICE

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(D) Protection and Diversity Options

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

Protection Option	Diversity Options
• Port Protection Plus	• Port Diversity • Alternate Wire Center Diversity • Inter-Wire Center Diversity

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

Protection and diversity options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, special construction charges may apply as set forth in Section 14 of this Guidebook.

(1) Protection

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

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

Limitations:

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

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(a) Port Protection Plus

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

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

Material previously appeared on this page now appears on 1st Revised Page 39.

(AT)

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(D) Protection and Diversity Options

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

Protection Option	Diversity Options
• Port Protection Plus	• Port Diversity • Alternate Wire Center Diversity • Inter-Wire Center Diversity

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

Protection and diversity options are available where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not permit, special construction charges may apply as set forth in Section 14 of this Guidebook.

(1) Protection

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

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

Limitations:
- Protection is not available for same speed / different format circuit configurations

(a) Port Protection Plus

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

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

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

- The circuit must be configured as a same speed / same format arrangement; and
- Neither end of the circuit can terminate at a collocation arrangement

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ACCESS SERVICE

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(1) Protection (Cont'd)

(a) Port Protection Plus (Cont'd)

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

- The circuit must be configured as a same speed / same format arrangement; and
- Neither end of the circuit can terminate at a collocation arrangement (MT)

(2) Diversity

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

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

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

Limitations:

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

Material appearing on this page previously appeared on Original Page 38.

ACCESS SERVICE

(AT)

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(2) Diversity

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

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

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

Limitations:

- Port Diversity and Alternate Wire Center Diversity cannot be selected at the same Customer Site location for the same AT&T Dedicated Ethernet Service Port Connection.

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ACCESS SERVICE

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ACCESS SERVICE

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(2) Diversity (Cont'd)

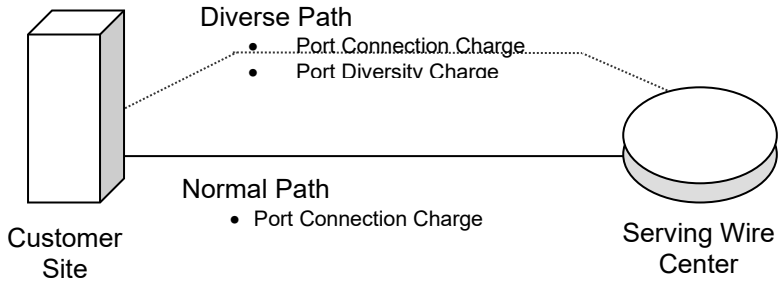
The following Diversity options are available for AT&T Dedicated Ethernet Service:

(a) Port Diversity

Port Diversity is provides transmission paths (a normal path and a diverse path), which are diverse from each other between two designated AT&T Dedicated Ethernet Service Port Connections from one or more Customer Sites to their serving wire centers. (CT)

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

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



ACCESS SERVICE

(AT) **23.2 AT&T DEDICATED ETHERNET SERVICE**

23.2.1 Service Description

(2) Diversity (Cont'd)

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

(a) Port Diversity

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

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

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

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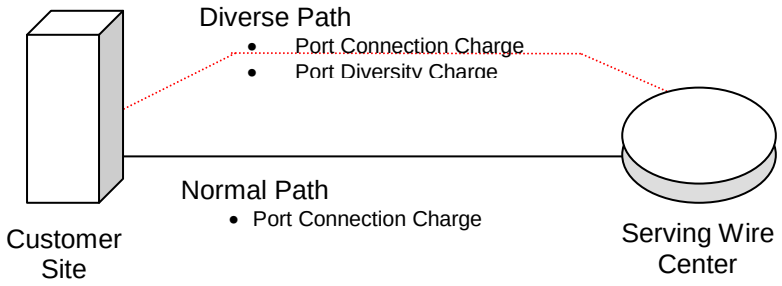

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(2) Diversity (Cont'd)

(b) Alternate Wire Center Diversity

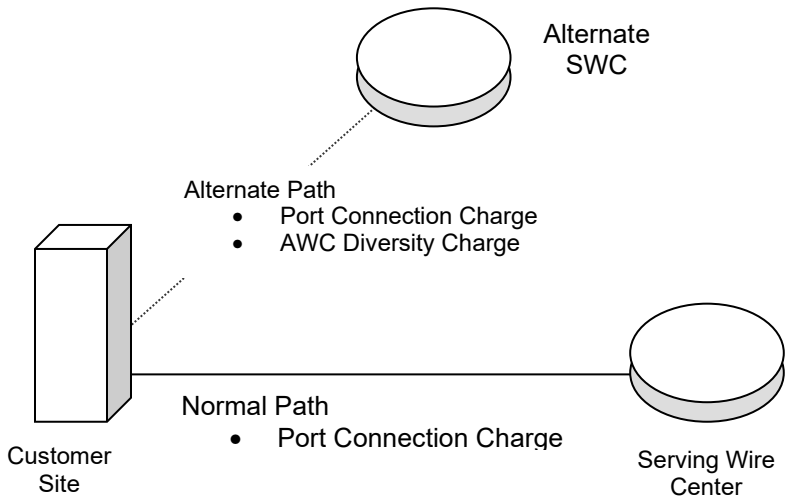
(i) Alternate Wire Center Diversity is a feature that provides transmission paths (a normal path and a diverse path), which are diverse from each other between two designated AT&T Dedicated Ethernet Service Port Connections. The normal path is routed to the normal serving wire center and the diverse path is routed to an alternate wire center. (CT)

The Telephone Company will designate the alternate wire center to which the diverse path will be routed. (CT)

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

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

Alternate Wire Center (AWC) Diversity Example



(AT) **23.2 AT&T DEDICATED ETHERNET SERVICE**

23.2.1 Service Description

(2) Diversity (Cont'd)

(b) Alternate Wire Center Diversity

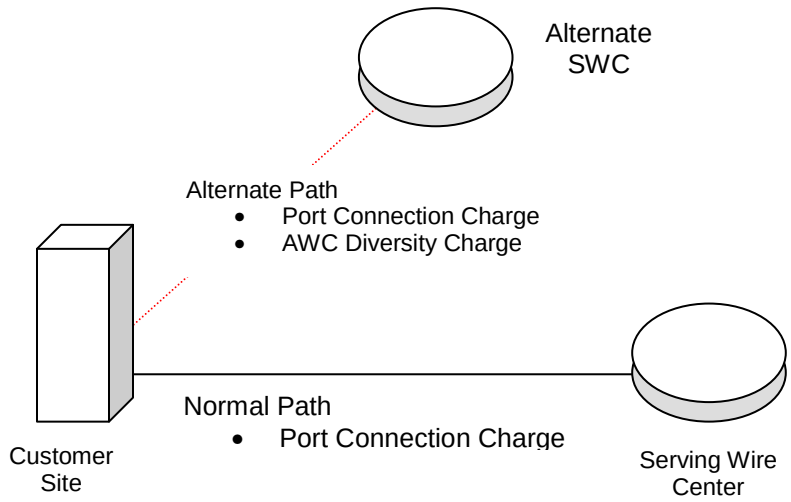
(i) Alternate Wire Center Diversity is a feature that provides transmission paths (a normal path and a diverse path), which are diverse from each other between two designated AT&T Dedicated Ethernet Service Port Connections at the same Customer Site whereby the normal path is routed to its normal serving wire center and the diverse path is routed to an alternate wire center.

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

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

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

Alternate Wire Center (AWC) Diversity Example



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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

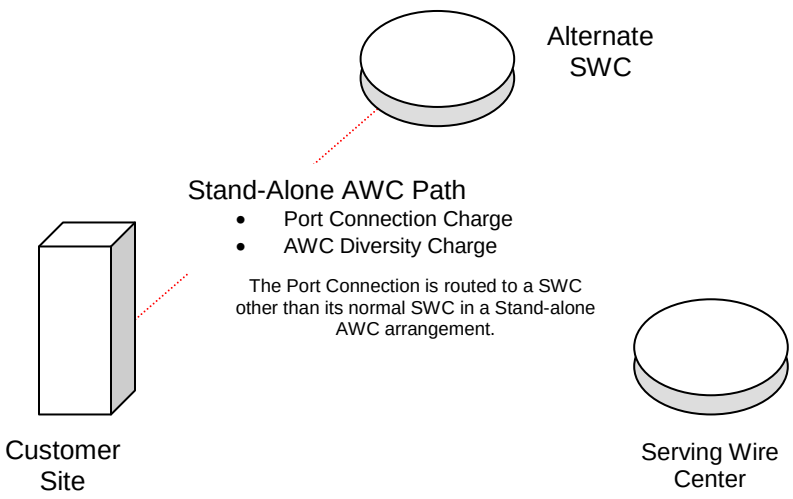
(2) Diversity (Cont'd)

(b) Alternate Wire Center Diversity (Cont'd)

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

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

Stand-Alone Alternate Wire Center (AWC) Example



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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

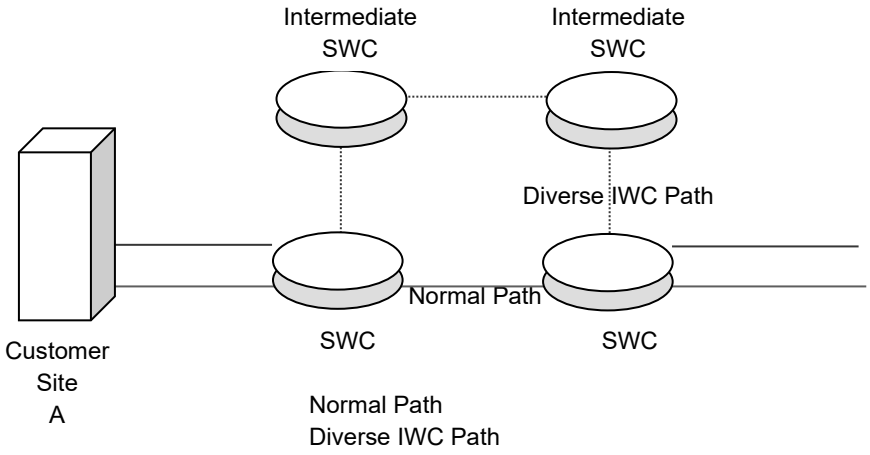
(c) Inter-Wire Center (IWC) Diversity

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

Inter-Wire Center (IWC) Diversity requires the Customer to purchase duplicate Port Connections. An Inter-Wire Center Diversity charge applies to the AT&T Dedicated Ethernet Service circuit designated with the diverse IWC path. These two designated Port Connections must be purchased by the same Customer. (RT) (AT)

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

Inter-Wire Center (IWC) Diversity Example



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

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

(AT)

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

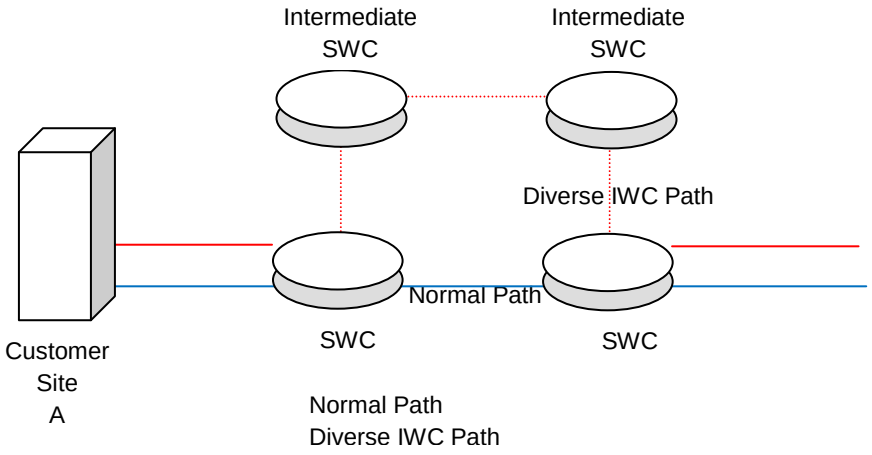
(c) Inter-Wire Center (IWC) Diversity

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

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

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

Inter-Wire Center (IWC) Diversity Example



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

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

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(E) Meet Point Arrangements

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

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

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

1. One Port Connection charge applies for the portion of the circuit provided by the Telephone Company.
2. The Administrative Charge applies in full per order received.
3. The Design and Central Office Connection Charge applies in full per AT&T Dedicated Ethernet circuit.
4. The Customer Connection Charge applies for the termination of the Port Connection provided by the Telephone Company.

23.2.2 Types of Rates and Charges

(A) Non-recurring Charges

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

(1) Installation of Service: Nonrecurring charges apply to each service installed.
(2) Installation of Optional Features and Functions: Nonrecurring charges apply for the installation of the optional features and functions available with AT&T Dedicated Ethernet Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.
(3) Service Rearrangements: Service rearrangements are changes to existing (installed) services which do not result in either:

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

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(E) Meet Point Arrangements

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

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

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

1. One Port Connection charge applies for the portion of the circuit provided by the Telephone Company.
2. The Administrative Charge applies in full per order received.
3. The Design and Central Office Connection Charge applies in full per AT&T Dedicated Ethernet circuit.
4. The Customer Connection Charge applies for the termination of the Port Connection provided by the Telephone Company.

23.2.2 Types of Rates and Charges

(A) Non-recurring Charges

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

(1) Installation of Service: Nonrecurring charges apply to each service installed.
(2) Installation of Optional Features and Functions: Nonrecurring charges apply for the installation of the optional features and functions available with AT&T Dedicated Ethernet Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.
(3) Service Rearrangements: Service rearrangements are changes to existing (installed) services which do not result in either:

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

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(E) Meet Point Arrangements

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

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

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

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

23.2.2 Types of Rates and Charges

(A) Non-recurring Charges

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

(1) Installation of Service: Nonrecurring charges apply to each service installed.
(2) Installation of Optional Features and Functions: Nonrecurring charges apply for the installation of the optional features and functions available with AT&T Dedicated Ethernet Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.
(3) Service Rearrangements: Service rearrangements are changes to existing (installed) services which do not result in either:

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

(AT)

23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.1 Service Description

(E) Meet Point Arrangements

Meet Point Arrangements are not currently supported for AT&T Dedicated Ethernet Service.

23.2.2 Types of Rates and Charges

(A) Non-recurring Charges

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

(1) Installation of Service: Nonrecurring charges apply to each service installed.
(2) Installation of Optional Features and Functions: Nonrecurring charges apply for the installation of the optional features and functions available with AT&T Dedicated Ethernet Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.
(3) Service Rearrangements: Service rearrangements are changes to existing (installed) services which do not result in either:

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

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.2 Types of Rates and Charges

(B) Recurring Charges

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

See Section 23.2.5 for Rates and Charges.

23.2.3 Ethernet Payment Plan (EPP)

(A) Standard Terms and Conditions

(1) To subscribe to AT&T Dedicated Ethernet Service, the Customer must select an EPP term of either 12, 24, 36 or 60 months. The AT&T Dedicated Ethernet Service is not available to be subscribed to on a month-to-month basis.

(2) During the Customer's EPP term, Telephone Company initiated recurring rate changes (i.e., rate increases or decreases) will be automatically applied to the Customer's EPP rates for the months remaining in the Customer's EPP term. However, at no time during the Customer's EPP term will rates exceed the Customer's initial EPP rates.

(4) Customers may subscribe to the EPP Auto Renewal option at any time prior to expiration of their EPP term plan. EPP Auto Renewal provides for a continuation of the rates under the EPP term the Customer last completed for additional consecutive 12-month periods, subject to termination as provided below.

For instance, a Customer that has subscribed to the EPP Auto Renewal option prior to completion of a 60 month EPP term will continue to receive the 60 month EPP rate during each subsequent 12-month extension period.

EPP Auto Renewal will continue to automatically extend the Customer's term every year for an additional 12-month period unless either party provides written notice of its intent not to renew at least 60 days prior to the expiration of the initial EPP term or any additional 12-month period.

An Administrative Charge is applicable when Customers add or remove the EPP Auto Renewal option, unless other changes for which an Administrative Charge is applicable are also being performed.

Termination Liability will apply, as described in (7) below, for service disconnected during any 12-month extension period, based upon the number of months remaining in that 12-month extension period.

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.3 Ethernet Payment Plan (EPP)

(A) Standard Terms and Conditions (Cont'd)

(5) When an EPP term or subsequent 12-month extension period expires (and the Customer's term is not extended pursuant to the Auto Renewal option above), the Customer may select a new EPP term from among any EPP options which are then available to new Customers hereunder. EPP rates in effect at the time the new EPP term starts will apply. An Administrative Charge is applicable when Customers select a new EPP term.

(6) The Monthly Extension Rates (MER) in Section 1.5 will apply when a Customer's EPP term or subsequent 12-month extension period expires (and the Customer's term is not extended pursuant to the Auto Renewal option above). The Customer will be billed the MER rates then in effect until such time as the Customer selects a new EPP term or the Service is terminated.

(7) Termination Liability will apply if the service is disconnected prior to the end of the selected EPP term. Termination Liability will be determined based on the number of months remaining in the EPP term times 50% of the applicable EPP monthly rates, calculated as follows:

(EPP Monthly Recurring Rate) X (Months Remaining in EPP term) X (50%) = Termination Liability Charge

Example:

An AT&T Dedicated Ethernet Service Customer with a $6,000.00 monthly rate terminates service after 24 months with 12 months remaining in a 36 month EPP term.
The termination liability charge would be calculated as:

$6,000 X 12 X .50 = $36,000.00 Termination Liability

(8) Conversions

During the Customer's EPP term, conversions may be made to a new EPP term of the same or greater length, from among any EPP options which are then available to new Customers hereunder. The expiration date of the new EPP term must be beyond the expiration date of the original EPP term. With the conversion to the new EPP term, the Customer incurs no liability for the remaining months on the original EPP term.

An Administrative Charge is applicable when Customers select a new EPP term or change the length of an existing EPP term.

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ACCESS SERVICES

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.3 Ethernet Payment Plan (EPP)

(B) Moves

Moves will be treated as a discontinuance of service and activation of new service. The previously waived non-recurring charges at the location(s) from which the circuit is being moved will be billed (if EPP term has not expired).

The Customer must select an EPP term for the new circuit. The new EPP term will be subject to the rates in effect at the time of the move. Termination Liability will apply for such a move except where all of the following conditions apply:

1. The move is limited to one end of the AT&T Dedicated Ethernet Service circuit moving to a different Customer Site. (RT, AT)
2. The Customer's existing service must have been in place for at least 12 months.
3. The Customer must select a new EPP with a term that is greater than or equal to the remainder of the existing EPP.
4. Orders from the Customer to disconnect the existing service and reestablish service at the new location must be placed by the same Customer and received by the Telephone Company on the same date.
5. No lapse in billing will occur for moves of service under an EPP. If the Customer requests that both the existing AT&T Dedicated Ethernet service and the new AT&T Dedicated Ethernet Service be in service at the same time, such "overlapping" service shall be provided for no more than 30 days, and all applicable charges will be billed for both services during the period of overlapping service.

(C) Upgrades

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

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

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.3 Ethernet Payment Plan (EPP)

(B) Moves

Moves will be treated as a discontinuance of service and activation of new service. The previously waived non-recurring charges at the location(s) from which the circuit is being moved will be billed (if EPP term has not expired).

The Customer must select an EPP term for the new circuit. The new EPP term will be subject to the rates in effect at the time of the move. Termination Liability will apply for such a move except where all of the following conditions apply:

1. The move is limited to one end of the AT&T Dedicated Ethernet Service circuit to a different Customer Site in the same LATA
2. The Customer's existing service must have been in place for at least 12 months.
3. The Customer must select a new EPP with a term that is greater than or equal to the remainder of the existing EPP.
4. Orders from the Customer to disconnect the existing service and reestablish service at the new location must be placed by the same Customer and received by the Telephone Company on the same date.
5. No lapse in billing will occur for moves of service under an EPP. If the Customer requests that both the existing AT&T Dedicated Ethernet service and the new AT&T Dedicated Ethernet Service be in service at the same time, such "overlapping" service shall be provided for no more than 30 days, and all applicable charges will be billed for both services during the period of overlapping service.

(C) Upgrades

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

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

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.3 Ethernet Payment Plan (EPP)

(C) Upgrades (Con'td)

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

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

1. The new and existing services must be billed to the same Customer at the same Customer location; and
2. The Customer's existing AT&T Dedicated Ethernet Service must have been in place for at least 12 months; and
3. The EPP term for the new service must be equal to or greater than the remainder of the Customer's existing EPP term; and
4. The order for the new service and the disconnect order for the existing service must be placed by the Customer and received by the Telephone Company on the same date; and
5. If the Customer requests that both the existing AT&T Dedicated Ethernet Service and the new higher level service be in service at the same time, such "overlapping" service shall be provided for no more than 90 days, and all applicable charges will be billed for both services during the period of overlapping service; and
6. No lapse in service occurs.

23.2.4 Service Level Agreements (SLA)

(A) Credit Allowance for Service Interruptions

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

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

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.4 Service Level Agreements (SLA)

(A) Credit Allowance for Service Interruptions (Cont'd)

The service interruption credits listed below are in lieu of, and not in addition to, the credit allowances for service interruptions provided for in the General Conditions Section of this Guidebook.

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

In case of an interruption to an unprotected AT&T Dedicated Ethernet Service circuit**,** an allowance for the period of interruption shall be calculated as follows: no credit shall be allowed for an interruption of less than 10 seconds. The Customer shall be credited for an interruption of 10 seconds or more as follows: the credit shall be at the rate of 10/8640 of the monthly charges for the affected AT&T Dedicated Ethernet Service circuit for each period of 5 minutes or major fraction thereof that the interruption continues.

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

(2) Credit Allowance for Service Interruptions (Fully Protected)

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

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

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

To qualify as a service interruption for the purposes of determining whether this Service Availability SLA has been met, any service interruption must be greater than ten (10) consecutive seconds and determined by the Telephone Company to be in its network.

The Customer is responsible for notifying the Telephone Company when the service parameter within the calendar month falls below the committed level. The Customer must request a service credit adjustment within 25 days after the end of the month when the failure occurred.

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23.2 AT&T DEDICATED ETHERNET SERVICE

23.2.4 Service Level Agreements (SLA)

(B) SLA Exclusions

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

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

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

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AT) **23.2 AT&T DEDICATED ETHERNET SERVICE**

23.2.5 Rates and Charges

(A) Port Connection

Port Connection	USOC	12 months	24 months	36 months	60 months	Monthly Extension Rate
1Gbps Ethernet (1GE)	EYFNX	$3,750.00	$3,500.00	$3,200.00	$2,750.00	$4,250.00
OTU1 (2.5Gbps)	EYFOX	$7,500.00	$7,000.00	$6,400.00	$5,500.00	$8,500.00
10Gbps Ethernet (10GE):						
LAN-PHY	EYFNX	$11,750.00	$11,000.00	$10,000.00	$8,500.00	$13,250.00
WAN-PHY	EYFNX	$11,750.00	$11,000.00	$10,000.00	$8,500.00	$13,250.00
OTU2/OTU2e (10Gbps)	EYFOX	$12,925.00	$12,100.00	$11,000.00	$9,350.00	$14,575.00
40Gbps Ethernet (40GE)	EYFNX	$29,375.00	$27,500.00	$25,000.00	$21,250.00	$33,125.00
OTU3 (40Gbps)	EYFOX	$29,375.00	$27,500.00	$25,000.00	$21,250.00	$33,125.00
100Gbps Ethernet (100GE)	EYFNX	$41,125.00	$38,500.00	$35,000.00	$29,750.00	$46,375.00
OTU4 (100Gbps)	EYFOX	$45,250.00	$42,350.00	$38,500.00	$32,725.00	$51,000.00

(B) Optional Features

(1) Port Protection Plus

Port Protection Plus	USOC	12 months	24 months	36 months	60 months	Monthly Extension Rate	NRC
1Gbps Ethernet (1GE)	DV9CX	$3,950.00	$3,675.00	$3,360.00	$2,900.00	$4,500.00	$1,000.00
10Gbps Ethernet (10GE) LAN-PHY / WAN-PHY:	DV9CX	$13,600.00	$12,700.00	$11,550.00	$9,825.00	$15,300.00	$1,000.00
OTU2/OTU2e (10Gbps)	DV9CX	$13,600.00	$12,700.00	$11,550.00	$9,825.00	$15,300.00	$1,000.00
40Gbps Ethernet (40GE)	DV9CX	$35,250.00	$33,000.00	$30,000.00	$25,500.00	$39,750.00	$1,000.00
OTU3 (40Gbps)	DV9CX	$35,250.00	$33,000.00	$30,000.00	$25,500.00	$39,750.00	$1,000.00
100Gbps Ethernet (100GE)	DV9CX	$54,300.00	$50,820.00	$46,200.00	$39,270.00	$61,200.00	$1,000.00
OTU4 (100Gbps)	DV9CX	$54,300.00	$50,820.00	$46,200.00	$39,270.00	$61,200.00	$1,000.00

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(AT) **23.2 AT&T DEDICATED ETHERNET SERVICE**

23.2.5 Rates and Charges

(B) Optional Features

(2) Reserved for Future Use

(3) Reserved for Future Use

(4) Port Diversity

Port Diversity	USOC	12 months	24 months	36 months	60 months	Monthly Extension Rate	NRC
All Speeds	DV9AX	$1,000.00	$875.00	$800.00	$700.00	$1,100.00	$450.00

(5) Alternate Wire Center (AWC) Diversity

Alternate Wire Center (AWC)Diversity	USOC	12 months	24 months	36 months	60 months	Monthly Extension Rate	NRC
All Speeds	CPAAX	$1,125.00	$1,000.00	$950.00	$825.00	$1,275.00	$625.00

(6) Inter-Wire Center (IWC) Diversity

Inter-Wire Center (IWC)Diversity	USOC	12 months	24 months	36 months	60 months	Monthly Extension Rate	NRC
All Speeds	DV9BX	$750.00	$700.00	$650.00	$550.00	$850.00	$450.00

(C) Installation and Rearrangement Charges

Non-Recurring Charges, all Speeds	USOC	NRC[(1)]
Administrative Charge (Per Order)	ORCMX	$60.00
Design & Central Office Connection Charge (Per Circuit)	NRBCL	$600.00
Customer Connection Charge (per Port Connection)	NRBBL	$1,500.00

(1) The Administrative Charge, Design & Central Office Connection Charge, and Customer Connection Charges will be waived for new service installations subscribing to 24, 36 and 60-month EPP terms.

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(AT) This section concurs in Southwestern Bell Telephone Company (SWBT's) Tariff FCC No. 73, Section 39, which can be accessed via the following hypertext link to AT&T Missouri's commercial website:

http://cpr.att.com//pdf/fcc-swbt/7339.pdf

Exceptions to this concurrence of Southwestern Bell Telephone Company's (SWBT's) Tariff FCC No. 73, Section 39, are as listed below. The following cited exceptions relate to that specific section in the interstate Tariff FCC No. 73.

39. Metropolitan Statistical Area Access Services
39.1 General Regulations
Special Access pricing flexibility is not available in the intrastate jurisdiction.

39.3 Services Available in an MSA
Special Access pricing flexibility is not available in the intrastate jurisdiction.

39.4 Rate Regulations
39.4(F) Term Pricing Plans
This section is not applicable to the intrastate jurisdiction.

39.5 Rates and Charges
39.5.2 Special Access
Special Access pricing flexibility is not available in the intrastate jurisdiction.

39.5.3 Access Order Charges
Pricing flexibility for Access Order Charges is not available in the intrastate jurisdiction.

39.5.4 Vintage Rates
(AT) Vintage Rates do not apply to the intrastate jurisdiction.