

ADVANCED SERVICES TARIFF

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**SBC ADVANCED SOLUTIONS, INC.**

Advanced Services are provided by means of wire, radio, fiber optics, satellite or any other suitable technology or combination thereof.

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By:

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SBC Advanced Solutions, Inc.  
300 Convent, 19<sup>th</sup> Floor  
San Antonio, Texas 78205

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ADVANCED SERVICES TARIFF

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RESERVED FOR FUTURE USE

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By:

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## ADVANCED SERVICES TARIFF

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**TARIFF USER'S GUIDE**

**Page Numbering** - Page numbers appear in the upper right corner of each page. Pages are numbered sequentially. New pages added between existing pages already in effect will have a decimal. For example, new pages added between pages 10 and 11 would be 10.1, 10.2, etc.

**Page Revision Numbers** - Revision numbers also appear in the upper right corner of each page. These numbers are used to determine the most current page version on file with the Commission. For example, the 2<sup>nd</sup> Revised Page 10 cancels and replaces the 1<sup>st</sup> Revised Page 10.

**Paragraph Numbering Sequence** - There are nine levels of paragraph coding. Each level of coding is subservient to its next higher level.

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**CONCURRING, CONNECTING, AND OTHER PARTICIPATING CARRIERS**

CONCURRING CARRIERS

No Concurring Carriers

CONNECTING CARRIERS

No Connecting Carriers

OTHER PARTICIPATING CARRIERS

No Other Participating Carriers

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**EXPLANATION OF SYMBOLS**

Changes to this Tariff shall be identified on the revised page(s) through the use of symbols. The following symbols are used for the purposes indicated below:

- (AT) - Addition to Text
- (C) - Correction
- (CP) - Change in Practice
- (CR) - Change in Rate
- (CT) - Change in Text
- (DR) - Discontinued rate
- (FC) - Change in format lettering or numbering
- (MT) - Moved text
- (NR) - New rate
- (RT) - Removal of text

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**REFERENCE TO OTHER TARIFFS**

No References to Other Tariffs

**REFERENCE TO OTHER PUBLICATIONS**

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**DEFINITION OF TERMS AND ABBREVIATIONS**

The following are definitions of generally used terms in this Tariff.

**CLEC** – Competitive Local Exchange Carrier

**COMMITTED INFORMATION RATE** – The bit rate that the network commits to transfer data under normal conditions. Each PVC is assigned a committed information rate (CIR).

**COMPANY** – SBC Advanced Solutions, Inc. or SBC-ASI.

**CUSTOMER** – Any person, firm, partnership, corporation or other entity who subscribes to Service under the terms and conditions of this Tariff.

**CUSTOMER DESIGNATED PREMISES** – A physical location where Company's facilities terminate to the Customer equipment or facilities.

**END USER** – An individual, association, corporation, government agency or entity that subscribes to the Service and does not resell the Service to others or use the Service as an input to provide an information Service to others.

**ILEC** – Incumbent Local Exchange Carrier

**IXC** – Interexchange Carrier

**LOGICAL CONNECTION** – Provides end-to-end information transfer capability from one port to another.

**PERMANENT VIRTUAL CONNECTION** – Software defined logical paths established between two or more points (point to point or point to multi-point). All cells, in all sessions between two end points, follow the same route. The PVC defines the logical path from the Customer's premises through Company's ATM network to the desired destination, typically another Customer premises location. The PVC is established with the Customer's desired bandwidth at the time the circuit is initially turned up for service, which will remain in place until the Customer decides to change the PVC path or bandwidth.

**VIRTUAL SESSION** – The active communications path between Company's ATM network and End User premises.

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**SECTION 1 - APPLICATION OF TARIFF**

This Tariff contains the regulations, rates and charges applicable to the provision of intrastate advanced telecommunications Services ("Services") by SBC Advanced Solutions, Inc. (hereinafter referred to as "Company") between domestic points within the State of Missouri, subject to the jurisdiction of the Commission.

This Tariff is available for public inspection during normal business hours at the Missouri Public Service Commission located at 200 Madison St., Suite 100, Jefferson City, MO 65101.

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ADVANCED SERVICES TARIFF

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**SECTION 2 - REGULATIONS****2.1 Undertaking of Company**

- 2.1.1 Service is furnished for intrastate advanced telecommunications Services originating or terminating at specified points within the state.
- 2.1.2 Company shall operate and maintain Service provided hereunder in accordance with the terms and conditions set forth in this Tariff.
- 2.1.3 Company may, when authorized by Customer, act as Customer's agent for ordering dedicated access lines, facilities or network elements provided by other carriers to allow connection of Customer's locations to Company's network or to the network of an underlying carrier or Service.
- 2.1.4 Company will pass on and bill to Customer any charges it incurs (including any applicable recurring and nonrecurring charges, time and material charges, or special construction charges) from other Service providers, such as ILECs, IXCs and CLECs, necessary to complete provision or maintenance of a Service offered in this Tariff to Customer's designated premises. This does not include charges incurred by Company from other Service providers to provide Services to Customer on an expedited basis.
- 2.1.5 Company will pass on and bill to Customer any charges it incurs (including any applicable cancellation or termination charges) from other Service providers, such as ILECs, IXCs and CLECs, if Customer cancels an order prior to the Company committed Service date.
- 2.1.6 Services are provided 24 hours daily, seven days per week except as set forth in other sections of this Tariff.
- 2.1.7 Company shall be responsible for the installation, operation and maintenance of the Services under this Tariff.
- 2.1.8 Company reserves the right to test its Services for purposes including, but not limited to, the installation, operation and maintenance of the Services provided under this Tariff. Invasive testing may result in interruptions of Service.
- 2.1.9 Facilities utilized by Company to provide Service under the provisions of this Tariff shall remain the property of the Company.
- 2.1.10 Company does not warrant that its facilities and Services meet standards other than those set forth in this Tariff, specifically referenced industry standards or in network change notifications issued in compliance with applicable Rules and Regulations.

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**SECTION 2 – REGULATIONS (Continued)**

**2.2 Limitations of Service**

- 2.2.1 Service is offered subject to the availability of the necessary facilities and equipment and subject to the provisions of this Tariff. Service may not be available in some locations or in some areas.
- 2.2.2 Company reserves the right to discontinue furnishing Service, or to limit the use of the Service, when necessitated by conditions beyond its control, when Customer is using Service in violation of the law or in violation of the provisions of this Tariff or for nonpayment by Customer.
- 2.2.3 Customer may not transfer or assign the use of Service, except with the prior written consent of Company. All regulations and conditions contained in this Tariff, as well as all conditions for Service, shall apply to all such permitted assignees or transferees. Except and to the extent that applicable laws or regulation require such notice, Company may assign its rights and obligations hereunder in whole or in part without notice to Customer.
- 2.2.4 Customer may not use Services contained herein for any unlawful purpose, however, Company is in no way obligated to monitor or police such activity.
- 2.2.5 Company may require Customer to sign an application form furnished by Company and to establish credit as provided in this Tariff, as a condition precedent to the initial establishment of Service. Company's acceptance of an order for Service to be provided to an applicant whose credit has not been duly established may be subject to the deposit provisions of this Tariff. Company may also require a signed authorization from Customer for additions to or changes in existing Service for such Customer.

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**SECTION 2 – REGULATIONS (Continued)****2.3 Limitations of Liability**

- 2.3.1 Company warrants that the Service will be installed and maintained in good working order and that the Service will perform substantially in accordance with the requirements of this Tariff.
- 2.3.2 Company's warranty does not cover repairs for damages caused by any negligence, gross negligence, or intentional acts or omissions of Customer, or its officers, agents or employees. Except as specifically provided for herein, Company expressly disclaims all other warranties with respect to the Service, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose.
- 2.3.3 Company's sole liability, whether in contract or in tort (including negligence, gross negligence or strict liability), for any failure, defect, error, loss, or omission in the provisioning of the Service ("Service Interruption") of any kind including, but not limited to, Service Interruption alleged to be caused by defective customer-owned or provided equipment or customer premises equipment ("Customer Equipment"), even if provided or installed by Company, is limited to refund of the proportionate charge for the period during which the Service was affected.
- 2.3.4 In no event will Company be liable to Customer, under any circumstances, for indirect, incidental, special or consequential damages of any kind whatsoever including, but not limited to, lost profits, lost revenue, failure to realize expected savings and loss of data, regardless of the form of action and whether or not such damages are foreseeable.
- 2.3.5 Company shall not be liable for unlawful use, or use by any unauthorized person, of its Service, or for any claim arising out of a breach in the privacy or security of communications transmitted by Company.
- 2.3.6 Company shall not be liable for any act or omission of other carriers whose facilities may be utilized in establishing connections to points not reached by Company's facilities. Customer shall indemnify and hold harmless Company from any third-party claims asserting such liability.
- 2.3.7 Company shall not be liable for any damages Customer may incur as a result of the unauthorized use of the Services provided under this Tariff. Customer is responsible for controlling access to, and the use of, the Services provided by Company.
- 2.3.8 Company shall not be liable for temporary interruptions of Service that may occur as normal events in the provision of Service. Company has no control over third party networks accessed in the course of Customer's use of Service, therefore, Company shall not be liable for any delays and disruption caused by other network transmissions beyond Company's control.

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**SECTION 2 – REGULATIONS (Continued)****2.4 Force Majeure**

Company will not be liable for any loss or damage resulting from any cause beyond Company's reasonable control, such as, but not limited to, fire, explosion, lightning, flood, earthquake, power surges or failures, strikes or labor disputes, floods, storms, tornadoes, acts of war, civil disturbances, acts of civil or military authorities or the public enemy, delays caused by Customer, Customer Equipment or Customer Service or equipment vendors or any other cause beyond Company's.

On the occurrence of any such event and to the extent such occurrence interferes with Company's obligation under this tariff, Company will be excused from such obligations during the period of such interference, provided that Company uses all reasonable efforts available to Company to avoid or remove such causes of inability to meet such obligation.

**2.5 Law Enforcement and Civil Process**

2.5.1 Intercept Devices. Local and federal law enforcement agencies periodically request information or assistance from telecommunications carriers. When Company receives a request associated with the Customer, Company will comply with any valid request, to the extent Company is able to do so. If such compliance requires the assistance of Company, such assistance will be provided.

2.5.2 Subpoenas. If Company receives a subpoena for information concerning an End User Company knows to be Customer's End User, Company will refer the subpoena to the requesting entity indicating that Customer is the responsible company. Provided, however, if the subpoena requests records for a period of time during which Company was the End User's Service provider, Company will respond to any valid request to the extent Company is able to do so. If response requires the assistance of Customer, such assistance shall be provided by Customer.

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**SECTION 2 – REGULATIONS (Continued)****2.6 Provision of Services**

- 2.6.1 Company will provide to the Customer the Services offered in this Tariff at the specified rates and charges, to the extent that such Services are or can be made available with reasonable effort. In the event that the Customer's request cannot be fulfilled with existing facilities and equipment or the request is not consistent with Company's filed Tariffs and technical references contained therein, alternative designs may be provided by Company. Additionally, Company will work with the Customer to reach an agreeable solution.
- 2.6.2 The Services provided under this Tariff are provided over such routes and facilities as Company may elect. Requests for special facilities or routing of Service may require special construction charges. Company reserves the right to refuse Service if such special facilities or routing is deemed by Company to be detrimental to its economic, operational, security or other such interest.

**2.7 Operation and Maintenance****2.7.1 Maintenance of Service**

Company shall maintain the Services provided under this Tariff. The Customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by Company, other than by connection or disconnection to any interface means used, except with the written consent of Company.

Company reserves the right to temporarily suspend Service to allow for maintenance.

**2.7.2 Availability of Testing**

The Services provided under this Tariff shall be available to Company at times agreed upon in order to permit Company to make tests and adjustments appropriate for maintaining the Services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit will be allowed for any interruptions involved during such tests and adjustments.

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**SECTION 2 – REGULATIONS (Continued)****2.7 Operation and Maintenance (Continued)****2.7.3 Interference or Impairment**

The characteristics and methods of operation of any circuits, facilities or equipment provided by other than Company and associated with the facilities utilized to provide Services under this Tariff shall not interfere with or impair Service over any facilities of Company, its affiliated companies or its connecting or concurring carriers involved in its Services, cause any damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public. Company will, where practicable, notify the Customer that temporary discontinuance of the use of a Service may be required. Where prior notice is not practicable, nothing contained herein shall be deemed to preclude Company's right to temporarily discontinue forthwith the use of a Service if such action is reasonable under the circumstances. In case of such temporary discontinuance, the Customer will be promptly notified and afforded the opportunity to correct the condition that gave rise to the temporary discontinuance. In such case the condition is not promptly or adequately corrected, Company shall immediately discontinue Service.

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**SECTION 2 – REGULATIONS (Continued)****2.8 Refusal and Discontinuance of Service**

- 2.8.1 Company may refuse additional applications for Service or discontinue the provision of Services as set forth below if a Customer fails to comply with the terms of the Tariff contained herein ("Non-complying Customer").

On thirty (30) calendar days written notice by Certified U.S. Mail (return receipt requested) to the person designated by that Customer to receive such notices of noncompliance, Company may:

- 2.8.1.A Refuse additional applications for Service and/or refuse to complete any pending orders for Service by the Non-complying Customer at anytime thereafter. If Company does not refuse additional applications for Service on the date specified in the thirty (30) calendar days' notice, and the Customer's noncompliance continues, nothing contained here shall preclude Company's right to refuse additional applications for Service to the Non-complying Customer without further notice; or
- 2.8.1.B Discontinue the provision of the Services to the Non-complying Customer at any time thereafter. In the case of such discontinuance, all applicable charges, including termination charges, shall become due. If Company does not discontinue the provision of Services involved on the date specified in the thirty (30) calendar days' notice and the Customer's noncompliance continues, nothing contained herein shall preclude Company's right to discontinue the provision of the Services to the Non-complying Customer without further notice.
- 2.8.2 When Service is provided by more than one company, the companies involved in providing the joint Service may individually or collectively deny Service to a Non-complying Customer. Where the companies affected by the Non-complying Customer are incapable of effecting discontinuance of Service without cooperation from the other joint providers of the Service, such other companies will, if technically feasible, assist in denying the joint Service to the Non-complying Customer. Service denial for such joint Service will only include transmission, which originate or terminate within or transit, the operating territory of the companies initiating the Service denial for the Non-complying Customer. When more than one of the joint Service providers must deny Service to effectuate termination for noncompliance, in cases where a conflict exists in the applicable Tariff provisions, the Tariff regulation of the company where the Customers end office is located shall prevail for joint Service discontinuance provisions.

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**SECTION 2 – REGULATIONS (Continued)****2.9 Use of Service****2.9.1 Assignment and Transfer of Facilities**

2.9.1.A The Customer may not assign, or transfer (e.g. through mergers, acquisitions, consolidations, etc.) the use of Services provided under this Tariff except, where there is no interruption of use or relocation of the Services, such assignment or transfer may be made to:

2.9.1.A.1 Another Customer, whether an individual, partnership, association or Corporation, provided the assignee or transferee assumes all outstanding indebtedness for such Services, the unexpired portion of the minimum period or Term Pricing Plan (TPP), the applicable charges associated with any name change on billing and Service records, and the termination liability applicable to such Services, if any; or,

2.9.1.A.2 A court appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period or TPP, the applicable charges associated with any name change on billing and Service records, and the termination liability applicable to such Services, if any.

2.9.1.B In all cases of assignment or transfer, the written acknowledgement of Company is required prior to such assignment or transfer and such acknowledgement shall be made within fifteen (15) calendar days from the receipt of notification. The assignee or transferee (new Customer) shall provide to Company the written release of the use of such Services from the assignor or transferor (former Customer). All regulation, conditions and applicable charges, as set forth in this Tariff, shall apply to such assignee or transferee.

2.9.1.C The assignment or transfer of Services does not relieve or discharge the assignor or transferor from remaining jointly and severally liable with the assignee or transferee for any obligations existing at the time of the assignment or transfer.

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**SECTION 2 – REGULATIONS (Continued)**

**2.9 Use of Service (Continued)**

**2.9.2 Unlawful and Abusive Use**

**2.9.2.A** The Services provided under this Tariff shall not be used for an unlawful purpose or used in an abusive manner. Abusive use includes:

**2.9.2.A.1** The use of the Service by Customer, anonymously or otherwise, in a manner reasonably expected to frighten, abuse, torment or harass another; or,

**2.9.2.A.2** The use of the Service in such a manner as to interfere unreasonably with the use of the Service by one or more Customers.

**2.9.2.B** Company shall, upon written request from a Customer, another telecommunications company or lawful authority, terminate Service to any subscriber or Customer identified as having utilized Service provided under this Tariff in the completion of abusive or unlawful transmissions.

**2.9.2.C** In such instances when termination occurs, Company shall be indemnified, defended and held harmless by the Customer or any other telecommunications company or party against any claim, loss or damage arising from Company's actions in terminating such Service, unless caused by the negligence of Company.

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**SECTION 2 – REGULATIONS (Continued)****2.10 Obligations of Customer****2.10.1 Equipment, Space and Power**

The Customer shall furnish, or arrange to have furnished, to Company, at no charge, an environment conducive to the operations of equipment, as well as the space and electrical power required by Company to provide Services under this Tariff at the points of termination of such Services. The selection of AC or DC power shall be mutually agreed to by the Customer and Company. The Customer shall also make necessary arrangements in order that Company may have access to such spaces at reasonable times for installing, testing, repairing or removing Services of Company.

**2.10.2 References to Company**

The Customer may advise End Users that certain Services are provided by Company in connection with the Service the Customer provides to End Users. However, the Customer shall not represent that Company jointly participates in the Customer's Services. Customer may not use any logo, trademark or other intellectual property right of Company without prior written permission.

**2.10.3 Damages**

The Customer shall reimburse Company for damages to Company facilities utilized to provide Services under this Tariff caused by the negligence, gross negligence or intentional act or omission of the Customer or resulting from the Customer's improper use of Company facilities, or due to malfunction of any facilities or equipment provided by other than the Company. Nothing in the foregoing provision shall be interpreted to hold one Customer liable for the actions of another Customer. Upon reimbursement for damages, Company will cooperate with the Customer in prosecuting a claim against the person causing such damage. The Customer shall be subrogated to the right of recovery by Company for the damages to the extent of such payment.

**2.10.4 Claims and Demands for Damages**

2.10.4.A With respect to claims of patent infringement made by third persons, the Customer shall defend, indemnify, protect and hold harmless Company from and against all claims arising out of combining with, or use in connection with, the Services provided under this Tariff, any circuit, apparatus, system or method provided by the Customer.

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**SECTION 2 – REGULATIONS (Continued)**

**2.10 Obligations of Customer (Continued)**

**2.10.4 Claims and Demands for Damages (Continued)**

2.10.4.B The Customer shall defend, indemnify and hold harmless Company from and against any suits, claims and losses or damages, including punitive damages, attorneys' fees and court costs by third persons, arising out of the construction, installation, operation, maintenance or removal of the Customer's circuits, facilities or equipment connected to Company's Services provided under this Tariff including, without limitation, Workmen's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the Customer's circuits, facilities or equipment, and proceedings to recover taxes, fines or penalties for failure of the Customer to obtain or maintain, in effect, any necessary certificates, permits, licenses or other authority to acquire or operate the Services provided under this Tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death or person injury unless such suits, claims or demands are based on the tortious conduct of the Customer, its officers, agents or employees.

**2.10.5 Certification of Service as Intrastate**

By ordering Services contained herein, Customer certifies Service will be used solely and exclusively for traffic that is intrastate in nature or for jurisdictionally mixed traffic which contains 10% or less interstate traffic.

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**SECTION 2 – REGULATIONS (Continued)****2.11 Payment and Billing**

- 2.11.1 Company or its billing agent will bill Customer (and not Customer's End User) and Customer will pay to Company or its billing agent on a monthly basis the charges set forth in this tariff. Charges will commence on the date Service is made available by Company under this tariff and will continue through the date Service is disconnected.
- 2.11.2 Charges are due on the date specified on the bill ("Payment Date").
- 2.11.3 Company or its billing agent may assess a late payment charge on any charges not received by the Payment Date. The late payment charge will be calculated according to the prevailing collections policy in place by Company or its billing agent, based on per month invoiced charges or portion thereof, for the period from the Payment Date until the payment is received. In no event will such charge exceed the maximum amount allowed by law.
- 2.11.4 Customer is responsible for payment of all charges for Service furnished to or used by Customer, or Customer's agents, servants, employees, or End Users. Customer is also responsible for payment of charges for all other third persons' use of Service to which Customer subscribes. All charges due from Customer are payable to Company or to Company's authorized billing agent in immediately available U.S. dollars. Any objections to billed charges must be reported to Company or its billing agent within thirty (30) calendar days after receipt of bill. Adjustments to Customer's bill shall be made to the extent that circumstances exist which reasonably indicate that such changes are appropriate.
- 2.11.5 If a billing dispute is resolved in favor of Customer, any billed charges and late payment charges collected on the disputed amount will be credited to Customer on Customer's bill.
- 2.11.6 If a billing dispute is resolved in favor of Company, any payments withheld pending settlement of the dispute shall be subject to the late penalty payment set forth above.
- 2.11.7 The security of Customer's authorization or access codes is the responsibility of Customer. Customer shall be responsible for payments of all charges applicable to the Service, including in cases where the Service was accessed in a manner not authorized by the Customer.

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ADVANCED SERVICES TARIFF

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**SECTION 2 – REGULATIONS (Continued)**

**2.12 Deposits, Advance Payments and Adjustments**

- 2.12.1 Company or its agent may require a deposit at the time of application to be held as a guarantee of payment of charges. In addition, an existing Customer may be required to make a deposit or increase a deposit currently held. Company shall pay interest on deposits pursuant to any applicable rules and regulations.
- 2.12.2 The fact that a security deposit has been made in no way relieves Customer from prompt payment of bills upon presentation.
- 2.12.3 Company may require or receive advance payment from Customer for purposes including, but not limited to, security deposit and prepayment of Service.
- 2.12.4 Company reserves the right to issue credits and adjustments to Customer.

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**SECTION 2 – REGULATIONS (Continued)****2.13 Taxes**

- 2.13.1 With respect to any purchase of Service under this tariff, if any Federal, state or local government tax, fee, surcharge, or other tax-like charge (a "Tax") is required or permitted by applicable law, ordinance or tariff to be collected from Customer by Company, then (i) Company will bill, as a separately stated item, Customer for such Tax, (ii) Customer will timely remit such Tax to Company, and (iii) Company will remit such collected Tax to the applicable taxing authority, to the extent applicable.
- 2.13.2 If Company does not collect a Tax because Customer asserts that it is not responsible for the Tax or is otherwise excepted from the obligation, which is later determined by formal action to be wrong then, as between Company and Customer, Customer will be liable for such uncollected Tax and any interest due and/or penalty assessed on the uncollected Tax by the applicable taxing authority or governmental entity.
- 2.13.3 If Company or Customer is audited by a taxing authority or other governmental entity both Company and Customer agree to reasonably cooperate with the other being audited in order to respond to any audit inquiries in a proper and timely manner so that the audit and/or any resulting controversy may be resolved expeditiously.
- 2.13.4 If applicable law excludes or exempts a purchase of Services under this Tariff from a Tax, and if such applicable law also provides an exemption procedure, such as an exemption certificate requirement, then, if Customer complies with such procedure, Company, subject to section 2.13.2 above, will not collect such Tax during the effective period of the exemption. Such exemption will be effective upon Company's receipt of the exemption certificate or affidavit.
- 2.13.5 If applicable law excludes or exempts a purchase of Services under this tariff from a Tax, but does not also provide an exemption procedure, then Company will not collect such Tax if Customer (i) furnishes Company with a letter signed by an officer of Customer claiming an exemption and identifying the applicable law which allows such exemption, and (ii) supplies Company with an indemnification agreement, reasonably acceptable to Company, which holds Company harmless on an after-tax basis with respect to forbearing to collect such Tax.

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ADVANCED SERVICES TARIFF

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**SECTION 2 – REGULATIONS (Continued)**

**2.13 Taxes (Continued)**

- 2.13.6 With respect to any Tax or Tax controversy covered by this section, Customer will be entitled to contest, pursuant to applicable law, and at its own expense, any Tax that it is ultimately obligated to pay. Customer will be entitled to the benefit of any refund or recovery resulting from such a contest.
- 2.13.7 Failure to include Taxes on an invoice or to state a Tax separately shall not impair the obligation of Customer to pay any Tax. Nothing shall prevent Company from paying any Tax to the appropriate taxing authority prior to the time: (1) it bills Customer for such Tax or (2) it collects the Tax Customer. Notwithstanding anything in this tariff to the contrary, Customer shall be liable for and Company may collect Taxes which were assessed by or paid to an appropriate taxing authority within the statute of limitations period but not included on an invoice within four (4) years after the Tax otherwise was owed or due.

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ADVANCED SERVICES TARIFF

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**SECTION 2 – REGULATIONS (Continued)****2.14 Customer Equipment**

Service may be used with or terminated in Customer Equipment. Such Customer Equipment shall be furnished by and maintained at the expense of Customer, except as otherwise provided. Customer is also responsible for all costs it incurs in the use of Service, including but not limited to Customer Equipment, wiring, electrical power, and personnel. When such Customer Equipment is used, it must be compatible with Company equipment and standards used to provide Service, and shall in all respects comply with the minimum protective standards of Company.

**2.15 Interconnection**

Service furnished by Company may be connected with the Services or facilities of other carriers. Customer is responsible for all charges billed by other carriers in connection with the use of Service. Any special equipment or facilities necessary to achieve compatibility between carriers are the sole responsibility of the Customer.

**2.16 Inspection, Testing and Adjustments**

- 2.16.1 Company may make such tests and inspection as may be necessary to determine whether Tariff requirements are being complied with in the installation, operation and maintenance of Customer Equipment or Company's equipment. Company may, without notice, interrupt Service at any time, as necessary, because of a departure from any of these requirements and may continue such interruption until its requirements have been satisfied.
- 2.16.2 The facilities provided by Company shall be made available to Company by Customer for such tests and adjustments as may be necessary for their maintenance to a condition satisfactory to Company.
- 2.16.3 Company shall not be liable to Customer for any damages for Service Interruption pursuant to this section.

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ADVANCED SERVICES TARIFF

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**SECTION 2 – REGULATIONS (Continued)**

**2.17 Provision of Service**

Services are provided only in those geographic areas where facilities exist, where Company in its discretion determined (subject to applicable law) to provide Service, and where Company is authorized to provide Services. Provision of Services offered under this Tariff is subject to availability.

**2.18 Contract or Agreement**

Company will offer Contract Service Arrangements to meet the diverse communications needs of Company's Customers. All terms and conditions as specified in the Tariff will apply unless otherwise specified in the contract between Company and the Customer.

**2.19 Other Rules**

Company reserves the right to discontinue Service, in whole or in part, limit Service or to impose requirements on Customers as required to meet changing regulations, rules or standards of the Commission.

Company also reserves the right to modify or change the network specifications without separate notice to Customer.

In the event terms of this Tariff are changed, Customer will be on constructive notice of the change through the filing of Tariff revisions.

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**SECTION 2 – REGULATIONS (Continued)****2.20 Standard Service Level Agreement (SLA)**

The Standard SLA applies to customers who purchase Asynchronous Transfer Mode (ATM) Service or Frame Relay Service. The Standard SLA is available at no additional cost to customer. The total amount of the Service credit customer receives for any Port or PVC for any month shall not exceed 100% of the monthly recurring charge associated with the Port or PVC. The Standard SLA will apply until Service is disconnected.

**2.20.1 Frame/Cell Delivery Ratio**

For ATM and Frame Relay Services provided to the customer, Company is committed to maintaining data throughput across the Company-provided, customer-specific network at a Frame/Cell Delivery Ratio of 99.99% per PVC from ingress switch port to egress switch port during each calendar month, under normal conditions.

2.20.1.A Frame/Cell Delivery Ratio is calculated as the percentage of customer-specific Frames/Cells offered to the network that successfully egress the network (ingress switch port to egress switch port) within the Committed Information Rate (CIR), and within a calendar month. The calculation for Frame/Cell Delivery Ratio for a given calendar month shall be as follows:

$$\text{Frame/Cell Delivery Ratio} = \frac{\text{Total customer-specific Frames/Cells that successfully egress the network}}{\text{Total number of customer-specific Frames/Cells offered to the network}}$$

The following will be excluded from any determination of Frame/Cell Delivery Ratio:

- Natural or man-made disasters that affect telecommunications services;
- Data lost during Company's scheduled maintenance window;
- Data exceeding the subscribed Committed Information Rate (CIR) for Frame Relay or Sustained Information Rate (SIR) for ATM;
- Failures attributed to facilities or equipment provided by another party or the customer;
- Failures attributed to unauthorized use of Service or inaccurate network specifications requested by customer;
- Failures attributed to negligence or willful misconduct by the customer;
- ATM Service with UBR Quality of Service;
- Access failures.

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ADVANCED SERVICES TARIFF

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**SECTION 2 – REGULATIONS (Continued)**

**2.20 Standard Service Level Agreement (SLA) (Continued)**

**2.20.1 Frame/Cell Delivery Ratio (Continued)**

2.20.1.B Customer is responsible for notifying Company when the customer-specific Frame/Cell Delivery Ratio falls below 99.99% for a PVC within the calendar month. Customer must request a service credit within 45 days after the end of the calendar month in which the failure occurred.

Upon verification by Company that the actual customer-specific Frame/Cell Delivery Ratio for a PVC was below 99.99%, Company has 30 days to correct the problem. If after 30 days the Frame/Cell Delivery Ratio is still below 99.99%, customer will be entitled to a service credit equal to:

- 50% of the monthly recurring charges for all affected Ports and/or PVCs for the subsequent month in which the customer-specific Frame/Cell Delivery Ratio was below 99.99%.

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ADVANCED SERVICES TARIFF

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**SECTION 2 – REGULATIONS (Continued)****2.20 Standard Service Level Agreement (SLA) (Continued)****2.20.2 Time to Repair**

For Services provided to customer, Company is committed to maintaining a 4-hour maximum repair time per PVC, Port or Port and Access outage (or an 8-hour maximum repair time if a technician is required to be dispatched). This includes the Access and equipment when provided by Company. This applies only to those troubles reported by customer to the Data Service Center (DSC).

2.20.2.A Elapsed time begins when the trouble call is received by the Data Service Center (DSC) and ends when the service is restored to normal operating performance.

The following shall be excluded from any determination of Time To Repair:

- Natural or man-made disasters that affect telecommunications services;
- Data lost during Company's scheduled maintenance window;
- Failures attributed to facilities or equipment provided by another party or the customer;
- Network Interface Device failures;
- Customer Equipment failures
- Customer "no access" time as defined below:
  - Customer not available;
  - Coordinated Vendor meeting;
  - Abeyance on customer request;
  - After hours testing because no customer daytime release; or
  - Tickets referred to another party.

2.20.2.B Customer is responsible for notifying Company of any outages that exceed the 4 or 8 hour maximum as described above. Customer must request a service credit within 45 days after the failure(s) occurred.

Upon verification by Company that the actual repair time for any PVC, Port or Port and Access exceeded the 4 or 8 hour maximum described above, customer will be entitled to a service credit equal to:

- 50% of the monthly recurring charges for all affected Ports and/or PVCs for month in which the outages occurred.

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ADVANCED SERVICES TARIFF

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**SECTION 2 – REGULATIONS (Continued)****2.20 Standard Service Level Agreement (SLA) (Continued)****2.20.3 Time to Provision**

For Services provided to customer, Company is committed to completing all service orders by the due date shown on the Firm Order Confirmation (FOC). In the event that customer requests a due date different from one shown on original order, a new FOC is issued and replaces the original FOC. Time to Provision includes Access and equipment when provided by Company.

**2.20.3.A The following shall be excluded from any determination of Time to Provision:**

- Natural or man-made disasters that affect telecommunications services;
- Inability by Company to test because of no-access by customer;
- Customer testing when Customer Equipment is not installed and the customer overall tests are not completed at due date;
- Due dates missed or rescheduled at customer's request;
- Inability by Company to test or complete the order because of failures or not-ready conditions attributed to facilities or equipment provided by another party or the customer.

**2.20.3.B Customer is responsible for notifying Company of any missed due dates. Customer must request a Service credit within 45 days after the missed due date occurred.**

Upon verification by Company that the due date was missed, the customer will be provided a Service credit equal to:

- 100% of the monthly recurring charges for one month of Service for each Port and/or PVC in which the FOC due date was missed.

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**SECTION 2 – REGULATIONS (Continued)****2.20 Standard Service Level Agreement (SLA) (Continued)****2.20.4 Latency**

For Services provided to the customer, Company is committed to maintaining Frame/Cell delay across the Company-provided customer-specific network according to the parameters below:

- Less than or equal to 110 milliseconds roundtrip for all Frame Relay Service;
- Less than or equal to 110 milliseconds roundtrip for ATM Service with VBR-nrt and VBR-rt Quality of Service; and
- Less than or equal to 100 milliseconds roundtrip for ATM Service with CBR Quality of Service.

Latency is measured from ingress switch port to egress switch port during each calendar month.

**2.20.4.A** Latency is calculated as the amount of time, in milliseconds, it takes for a Frame/Cell to travel roundtrip across a PVC.

The following shall be excluded from any determination of Latency:

- Natural or man-made disasters that affect telecommunications services;
- Data exceeding the subscribed Committed Information Rate (CIR) for Frame Relay or Sustained Information Rate (SIR) for ATM;
- Failures attributed to facilities or equipment provided by another party or the customer;
- Failures attributed to unauthorized use of Service or inaccurate network specifications requested by customer;
- Failures attributed to negligence or willful misconduct by the customer;
- ATM Service with UBR Quality of Service;
- Access failures.

**2.20.4.B** Customer is responsible for notifying Company when the customer-specific Frame/Cell delay falls below the committed level. Customer must request a Service credit within 45 days of the end of the calendar month when the excessive delay occurred.

Upon verification by Company that the customer-specific Frame/Cell delay did not meet the committed level, Company has 30 days to correct the problem. If after 30 days the Frame/Cell delay is still greater than the committed level, the customer will be entitled to a service credit equal to:

- 50% of the monthly recurring charges for all affected Ports and/or PVCs for the subsequent month in which the customer-specific Frame/Cell delay was below the committed level.

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**SECTION 2 – REGULATIONS (Continued)****2.20 Standard Service Level Agreement (SLA) (Continued)****2.20.5 Network Availability**

For Services provided to the customer, Company is committed to maintaining a Network Availability of 99.99% from ingress switch port to egress switch port each calendar month.

2.20.5.A The calculation for Network Availability for a given calendar month shall be as follows:

$$\text{Network Availability} = 1 - \frac{\text{network outage time (in hours)}}{(24 \text{ hours} \times \text{days in month} \times \text{number of customer locations})}$$

The following shall be excluded from any "network outage time":

- Natural or man-made disasters that affect telecommunications services;
- Data lost during Company's scheduled maintenance window;
- Failures attributed to facilities or equipment provided by another party or the customer;
- Failures attributed to unauthorized use of Service or inaccurate network specifications requested by customer;
- Failures attributed to negligence or willful misconduct by the customer;
- Customer "no access" time as defined below:
  - Customer not available;
  - Coordinated Vendor meeting;
  - Abeyance on customer request;
  - After hours testing because no customer daytime release; or
  - Tickets referred to another party;
- Access failures.

2.20.5.B Customer is responsible for notifying Company when the customer-specific Network Availability falls below 99.99%. The customer must request a Service credit within 45 days of the end of the calendar month when the Network Availability was not met.

Upon verification by Company that the customer-specific Network Availability did not meet 99.99%, Company has 30 days to correct the problem. If after 30 days the Network Availability is still below 99.99%, the customer will be entitled to a service credit equal to:

- 10% of the monthly recurring charges for all affected Ports and/or PVCs for subsequent month in which Network Availability failure occurred.

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ADVANCED SERVICES TARIFF

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**SECTION 3 – APPLICATION OF RATES**

**3.1 Rate Regulations**

There are two (2) categories of rates and charges: Nonrecurring and monthly recurring charges.

**3.2 Nonrecurring Charges**

Nonrecurring charges are one-time charges that apply for specific work activity.

**3.2.1 Installation of Service**

Nonrecurring charges apply to each Service installed. The applicable charges are specified within each Service rate section.

**3.2.2 Record Order Charges**

Nonrecurring charge applies for receiving, recording and processing information in connection with Customer initiated changes to customer's account information (i.e. change in customer billing name or billing address). In these instances, a record order is issued. Once a record order is issued, customer may request additional changes to their account information without a subsequent record order being issued, provided the additional changes are requested during the same business day.

The Record Order Charge is \$14 per Record Order.

**3.2.3 Service Order Change Charges**

A Service Order Change Charge applies when customer requests an addition to, change to, or rearrangement of Service before installation is complete, and the request requires engineering redesign.

The Service Order Change Charge is \$50 per service order.

**3.2.4 Expedite Order Charges**

If customer desires that Service be provided on a due date earlier than the due date on the Firm Order Confirmation (FOC), the customer may request the Service be provided on an expedited basis.

If the Company determines that the Service can be provided on an expedited basis and the customer accepts, an Expedite Order Charge will apply. Additional labor costs may be required to meet the requested service date. If so, the customer will be notified by Company and will be provided an estimate of the additional charges involved.

If the Company is subsequently unable to meet the agreed upon expedited Service date, no Expedite Order Charge will apply, unless the missed Service date was caused by the customer.

The Expedite Order Charge is \$500 per service order.

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ADVANCED SERVICES TARIFF

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**SECTION 3 – APPLICATION OF RATES (Continued)****3.3 Monthly Recurring Charges**

Monthly Recurring Charges are the charges applied each month for the Service being provided.

**3.4 Minimum Period**

The minimum period for Service is twelve (12) months.

When Service is discontinued prior to the expiration of the minimum period, charges are applicable whether the Service is used or not. The applicable charge will be 50% of the total monthly charges at the rate in effect at the time Service is discontinued, for the remainder of the minimum period.

**3.5 Term Pricing Plans**

3.5.1 Term Pricing Plans (TPP) provide customer with stabilized rates for a one (1), two (2), three (3) or five (5) year minimum Service period. TPP monthly rates will be exempt from Company-initiated rate increases throughout the selected TPP Service period.

3.5.2 Customer may request an existing TPP Service period be converted to a new TPP Service period without incurring termination or nonrecurring charges provided the new Service period is equal to or greater than the remaining portion of the original TPP Service period.

3.5.3 If the Customer requests that Service provided under a TPP be converted to a shorter term (i.e., five (5) year to three (3) year term), the request will be treated as a termination of Service and termination charges will apply.

3.5.4 Customer must provide Company written notice of intent to renew TPP no later than 60 days prior to its expiration. Nonrecurring charges do not apply if TPP is renewed. The renewal rates will be the rates that are currently in effect and available to all customers.

If Customer does not renew TPP or does not notify Company of its intent to renew, customer's Service will convert to the current Out of Term rates until the customer cancels or renews the Service with a new TPP term.

**3.5.5 Termination Charges**

Except as noted in 3.5.2 preceding, customers who terminate a TPP prior to the expiration of the term period will incur termination charges equal to 50% of the total monthly recurring charges for the remainder of Customer's TPP term.

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ADVANCED SERVICES TARIFF

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**SECTION 3 – APPLICATION OF RATES (Continued)****3.6 Moves****3.6.1 Moves Within the Same Building**

Moves within the same building will incur a charge equal to one-half (1/2) of the nonrecurring charges associated with the moved Service (or, in instances where the associated nonrecurring charge is zero, the nonrecurring charges associated with the shortest term commitment available) and all associated special construction and material charges for the Service. There will be no change in TPP term requirements.

**3.6.2 Moves To a Different Building**

Moves to a different building will incur a charge equal to the nonrecurring charges associated with the moved Service (or, in instances where the associated nonrecurring charge is zero, the nonrecurring charges associated with the shortest term commitment available) and all associated special construction and material charges for the Service. There will be no change in TPP term requirements, except as noted in 3.6.3 below.

**3.6.3 When Termination Charges Apply**

If an order to move Service provided under a TPP does not meet one or more of the conditions described below, it will be treated as a discontinuance of Service and the establishment of a new Service and termination charges will apply. Except as noted, the monthly rates for the new Service will be those in effect at the time Service is moved. All nonrecurring charges and special construction charges associated with the establishment of the new Service will apply. In instances where the associated nonrecurring charge is zero, the nonrecurring charges associated with the shortest term commitment available will apply.

**3.6.3.A Moves at Same Transmission Speed**

For moves or changes at the same transmission speed, the Customer may move Service to a new location, or move and change to another Company Service without incurring termination charges provided all of the following conditions are met:

- 1) The new Service is provided solely by Company;
- 2) The Customer's request to disconnect Service and request for new Service are received at the same time;
- 3) The due date of the new connect order must be within 120 days after the due date of the disconnect order;
- 4) The new Service has a transmission speed equal to the transmission speed of the existing Service;
- 5) For permanent virtual circuits (PVCs), the move must be associated with the move of one or more associated ports;
- 6) The total monthly charge for the new Service is equal to or greater than the total monthly price of the original Service.
- 7) For Services provided at DS3 or above, the new Service establishes a new TPP effective date with a term equal to or greater than the original TPP term established at the former location.

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## ADVANCED SERVICES TARIFF

## SECTION 3 – APPLICATION OF RATES (Continued)

**3.6 Moves (Continued)****3.6.3 When Termination Charges Apply (Continued)****3.6.3.B Moves Involving Upgrades in Transmission Speed**

For moves involving upgrades in transmission speed, the customer may move Service to a new location and upgrade to a higher speed Company Service without incurring termination charges provided all of the following conditions are met:

- 1) The new Service is provided solely by Company;
- 2) The customer's request to disconnect Service and request for new Service are received at the same time;
- 3) The due date of the new connect order must be within 120 days after the due date of the disconnect order;
- 4) The new Service has a transmission speed greater than the transmission speed of the existing Service;
- 5) For PVCs, the move must be associated with the move of one or more associated ports;
- 6) The total monthly charge for the new Service is equal to or greater than the total monthly price of the original Service.
- 7) The new Service establishes a new TPP effective date with a term equal or greater than the original TPP term established at the former location.

**3.7 Upgrades Not Involving Moves**

Customer may upgrade Service to a higher transmission speed or to another Company Service of equal or greater transmission speed without incurring termination charges if all of the following conditions are met:

- 1) The new Service is provided solely by Company;
- 2) The new Service is provided to the same customer location;
- 3) For PVCs, the new Service must be provided between the same two locations;
- 4) The customer's requests to disconnect Service and request for new Service are received at the same time;
- 5) The total monthly revenue for the new Service is equal to or greater than the remaining monthly revenue of the original Service;
- 6) For Service upgraded to a higher transmission speed, the new Service establishes a new TPP effective date with a term equal to or greater than the original TPP term established with the original Service. (In instances where customer upgrades Service to a higher transmission speed that does not require a physical change in the Port or Access, no new TPP term is required.)

Any applicable nonrecurring or special construction charges associated with the new Service will apply.

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ADVANCED SERVICES TARIFF

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**SECTION 3 – APPLICATION OF RATES (Continued)**

**3.8 Service Order Cancellation Charges**

If Customer cancels an order for Service more than three (3) business days after Firm Order Confirmation (FOC) has been provided and before Service is available for use, Customer will incur a \$250 cancellation charge. This cancellation charge will be billed in addition to any other charges Company incurs, including but not limited to applicable cancellation or termination charges from other Service providers such as ILECs, IXCs and CLECs. The Service Order Cancellation Charge will apply per Service Order.

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ADVANCED SERVICES TARIFF

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE****4.1 Service Description**

Asynchronous Transfer Mode (ATM) Service is a fast packet, cell-based technology that can support data and video applications requiring high bandwidth, high performance transport and switching. ATM Service will allow customers who have requirements for high-speed connectivity to interconnect their multiple locations. ATM offers low latency, high throughput and flexible bandwidth interconnections capable of carrying a wide range of Services.

**4.2 Service Components**

A nonrecurring charge and a monthly rate apply, based upon the speed of the connections, term plan and features selected.

**4.2.1 User Network Interface (UNI) Port and Access**

UNI Port and Access connects the customer to the Company's ATM network, based upon the standards defined UNI signaling protocol. UNI Port and Access is available at full bandwidth DS1, DS3, OC-3c and OC-12c speeds and Subrate DS3 and OC-3c speeds. Each UNI Port and Access will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

UNI Port and Access in OC-3c and OC-12c speeds can be purchased with a protection option, where available. This option provides additional protection from fiber cable cuts by routing the working fiber pair via the primary route and the protected fiber pair via a physically diverse alternate route.

In addition, customers purchasing UNI Port and Access in OC-12c speed may incur charges for interoffice mileage if the Central Office serving the customer premises does not have an ATM switch or ATM switch is not OC-12c capable. OC-12c interoffice mileage charges consist of fixed and variable (per mile) rates.

**4.2.2 User Network Interface (UNI) Port Only**

UNI Port Only provides the customer a port connection into the Company's ATM network, based upon the standards defined UNI signaling protocol. UNI Port Only is available at full bandwidth DS1, DS3, OC-3c and OC-12c speeds and Subrate DS3 and OC-3. When UNI Port Only is selected, it is the customer's responsibility to obtain access to Company's ATM network. Each UNI Port Only will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

**4.2.3 Inverse Multiplexing over ATM (IMA) UNI Port and Access**

IMA UNI Port and Access provides inverse multiplexing of an ATM cell stream over two (2) to eight (8) physical DS1s and retrieval of the original stream at the far end of those connections. IMA UNI Port and Access is based upon the standards defined UNI signaling protocol.

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)****4.2 Service Components (Continued)****4.2.4 Inverse Multiplexing over ATM (IMA) UNI Port Only**

IMA UNI Port Only provides the customer an IMA port connection into the Company's ATM network, based upon the standards defined UNI signaling protocol. When IMA UNI Port Only is selected, it is the customer's responsibility to obtain access to Company's ATM network. IMA UNI Port Only is provided over two (2) to eight (8) physical DS1s.

**4.2.5 Broadband ISDN Inter-Carrier Interface (B-ICI) Port and Access**

B-ICI Port and Access connects the customer to the Company's ATM network, based upon the standards defined B-ICI signaling protocol. B-ICI Port and Access allows customer networks to interconnect to the Company ATM network. B-ICI Port and Access is available at DS1, DS3, OC-3c and OC-12c speeds. Each B-ICI Port and Access will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

B-ICI Port and Access in OC-3c and OC-12c speeds can be purchased with a protection option, where available. This option provides additional protection from fiber cable cuts by routing the working fiber pair via the primary route and the protected fiber pair via a physically diverse alternate route.

In addition, customers purchasing B-ICI Port and Access in OC-12c speed may incur charges for interoffice mileage if the Central Office serving the customer premises does not have an ATM switch or ATM switch is not OC-12c capable. OC-12c interoffice mileage charges consist of fixed and variable (per mile) rates.

**4.2.6 Broadband ISDN Inter-Carrier Interface (B-ICI) Port Only**

B-ICI Port Only provides the customer a port connection into the Company's ATM network based upon the standards defined B-ICI signaling protocol. B-ICI Port Only is available at DS1, DS3, OC-3c and OC-12c speeds. When B-ICI Port Only is selected, it is the customer's responsibility to obtain access to Company's ATM network. Each B-ICI Port Only will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)****4.2 Service Components (Continued)****4.2.7 Circuit Emulation Service (CES) Port Only**

CES Port Only provides the customer a Time Division Multiplexing (TDM) port connection into the Company's ATM network. CES Port Only provides the capability of directly connecting a TDM interface carrying constant bit rate (CBR) traffic over ATM networks. It is the customer's responsibility to obtain the TDM transport component of the service to the public switched telephone network. CES Port Only is to be used in conjunction with CES VCCs.

**4.2.8 Permanent Virtual Circuits (PVCs)**

PVCs are logical connections between ports that allow data to be sent from one customer location to another. PVCs do not engage capacity when idle, allowing the available capacity to be allocated to other active PVCs that are in need of additional bandwidth. With the exception of Multicasting VCCs, PVCs are duplex (two-way).

When placing an order for Service, customer must specify the following for each PVC:

- PVC Connection Type;
- Traffic Parameter;
- VCC/VPC Type; and
- Quality of Service.

**4.2.8.A PVC Connection Types****(1) ATM to ATM**

ATM to ATM connects two ATM customer locations.

**(2) Frame Relay to ATM Service (FRATM)**

FRATM connects two customer locations, one having a Frame Relay port and the other an ATM port, to provide transparent interworking between Frame Relay and ATM networks.

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)****4.2 Service Components (Continued)****4.2.8 Permanent Virtual Circuits (PVCs) (Continued)****4.2.8.B Traffic Parameters**

The customer must choose the traffic parameters available for each PVC selected. Traffic parameters represent priorities given to cell transmissions, sensitivity of cells to delay variation and loss within the network. Traffic Shaping is a flow control functionality that must be enabled on the customer premises equipment to ensure the customer's data traffic transmission rate does not violate the customer's chosen traffic parameters.

**(1) Peak Information Rate (PIR)**

The PIR designates an upper limit that the traffic information rate may not exceed. PIR is expressed in Kbps or Mbps. Traffic that exceeds the PIR value will be discarded from the network for all Quality of Service types.

**(2) Sustainable Information Rate (SIR)**

The Sustainable Information Rate (SIR) specifies the "average" traffic rate that is transmitted and received. SIR is expressed in Kbps or Mbps.

**(3) Maximum Burst Size (MBS)**

MBS specifies the maximum number of cells per second (cps) that can be transmitted at the PIR. The MBS default is 32cps.

**4.2.8.C PVC Types****(1) Virtual Channel Connection (VCC)**

Logical connection between one ATM switch port and another switch port. The VCC allows exchange of information in the form of fixed cells at variable rates. Company configures and maintains the individual VCCs within the ATM connection.

**(2) Virtual Path Connection (VPC)**

A group of logical connections between one ATM switch port and another ATM switch port. A VPC connection is typically used to route multiple customer defined VCCs as a group. It is the responsibility of the customer to configure and maintain the individual VCCs within a VPC connection.

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)****4.2 Service Components (Continued)****4.2.8 Permanent Virtual Circuits (PVCs) (Continued)****4.2.8.D VCC/VPC Types****(1) Standard VCC/VPC**

Standard VCCs/VPCs are utilized in typical ATM networks to provide logical connections between two ports.

**(2) Circuit Emulation Service (CES) VCC**

CES VCCs provide logical connection between a CES port and another ATM port. CES VCC is to be used in conjunction with CES Port Only. CES VCCs are always provisioned with CBR Quality of Service and a PIR traffic parameter of 1.755 Mbps. A CES DS1 VCC cannot be provisioned to an ATM DS1 UNI Port.

**(3) Frame Relay to ATM Service (FRATM) VCC**

A FRATM VCC is established to connect two customer locations, one having a Frame Relay port and the other an ATM port, to provide transparent interworking between Frame Relay and ATM networks. The FRATM VCC is provisioned with VBR-nrt Quality of Service on the ATM portion, and Standard Quality of Service on the Frame Relay portion. The FRATM VCC is priced based upon the ATM SIR value selected.

**(4) Disaster Recovery VCC**

Disaster Recovery VCCs allow for the implementation of logical connections between branch locations and a secondary processor/server center (disaster recovery location) should a non-recoverable disaster occur at the primary host location. The disaster recovery location must also be served by an active, Company provided ATM/Frame Relay Port.

Disaster Recovery VCCs are provisioned based upon an initial order from the customer and pre-configured in the ATM switch, but set to a disabled mode. Customer must initiate VCC activation with Company and necessary third party vendors.

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)****4.2 Service Components (Continued)****4.2.8 Permanent Virtual Circuits (PVCs) (Continued)****4.2.8.D VCC/PC Types (Continued)****(5) Alternate Routing VCC**

Alternate Routing VCCs provide a logical connection to an alternate host location processor/server in the event of an outage at the primary location. Alternate Routing VCCs are to be utilized in the event of an outage at the primary location only, not day-to-day use. Alternate Routing VCCs are provisioned based upon an initial order from the customer and available at all times. The remote customer location is provisioned with two active VCCs, one end to the primary customer location and one end to the backup customer location.

**(6) Multicasting VCC**

Multicasting VCCs are used to communicate uni-directionally from one location to many locations. It allows customer premises equipment to send cells into the Company ATM network over a specially designated Multicast VCC. The cells are replicated and sent across various VCCs defined on the same port as the Multicast VCC. Multicast VCCs are used in conjunction with the VBR-rt Quality of Service and SIR traffic parameter.

**4.2.8.E Quality of Service (QoS)**

The PVC Quality of Service required is based upon the traffic parameter selected.

**(1) Constant Bit Rate (CBR)**

CBR supports the transmission of a continuous flow of user information required to support applications where variable delays in transmission could negatively impact the streaming information content. CBR is the highest priority traffic on the network. Examples of applications requiring CBR are video and data streaming. When choosing CBR, customer must specify the Peak Information Rate (PIR), Sustained Information Rate (SIR) and Maximum Burst Size (MBS) Traffic Parameters. The PIR is used to determine the price.

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)****4.2 Service Components (Continued)****4.2.8 Permanent Virtual Circuits (PVCs) (Continued)****4.2.8.E Quality of Service (QoS) (Continued)****(2) Variable Bit Rate - real time (VBR-rt)**

VBR-rt supports traffic transmission levels for applications where the PVC requires low cell deviation. Such applications could include variable bit rate video compression and packet voice and video, which are somewhat tolerant of delay. When choosing VBR-rt, customer must specify the Peak Information Rate (PIR), Sustained Information Rate (SIR) and Maximum Burst Size (MBS) traffic parameters. The PIR is used to determine the price.

**(3) Variable Bit Rate - non real time (VBR-nrt)**

VBR-nrt supports traffic transmission levels for applications where the PVC can tolerate larger cell delay variation than VBR-rt. Such applications could include data file transfers. When choosing VBR-nrt, customer must specify the Peak Information Rate (PIR), Sustained Information Rate (SIR) and Maximum Burst Size (MBS) traffic parameters. The SIR is used to determine the price.

**(4) Unspecified Bit Rate (UBR)**

UBR supports the transmission of a continuous bit stream of traffic for delay-tolerant applications such as data file transfers. When choosing UBR, customer must specify the Peak Information Rate (PIR) traffic parameter. The PIR value cannot be greater than the port speed. Customers wishing to oversubscribe may purchase additional UBR connections.

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates

UNI Port Only		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS1	1.5Mbps	\$528	NA	\$507	\$600	\$486	\$600	\$460	\$0	\$400	\$0
Subrate DS3	20Mbps	\$2,002	NA	\$1,784	\$1,250	\$1,586	\$1,250	\$1,370	\$0	\$1,154	\$0
DS3	40Mbps	\$2,799	NA	\$2,573	\$1,250	\$2,287	\$1,250	\$1,975	\$0	\$1,663	\$0
Subrate OC-3c	50Mbps	\$3,325	NA	\$3,150	\$1,500	\$2,977	\$1,500	\$2,954	\$0	\$2,938	\$0
Subrate OC-3c	100Mbps	\$3,793	NA	\$3,618	\$1,500	\$3,345	\$1,500	\$3,238	\$0	\$3,128	\$0
OC-3c	149Mbps	\$4,110	NA	\$3,835	\$1,500	\$3,662	\$1,500	\$3,505	\$0	\$3,345	\$0
OC-12c	599Mbps	\$8,220	NA	\$7,670	\$1,500	\$7,324	\$1,500	\$7,009	\$0	\$6,690	\$0

IMA UNI Port Only		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
2 DS1s	3Mbps	\$986	NA	\$887	\$1,200	\$851	\$1,200	\$805	\$0	\$700	\$0
3 DS1s	4.6Mbps	\$1,094	NA	\$1,014	\$1,200	\$972	\$1,200	\$920	\$0	\$800	\$0
4 DS1s	6.7Mbps	\$1,288	NA	\$1,141	\$1,200	\$1,094	\$1,200	\$1,035	\$0	\$900	\$0
5 DS1s	7.6Mbps	\$1,446	NA	\$1,293	\$1,200	\$1,239	\$1,200	\$1,173	\$0	\$1,020	\$0
6 DS1s	9.2Mbps	\$1,605	NA	\$1,445	\$1,200	\$1,385	\$1,200	\$1,311	\$0	\$1,140	\$0
7 DS1s	10.7Mbps	\$1,763	NA	\$1,597	\$1,200	\$1,531	\$1,200	\$1,449	\$0	\$1,260	\$0
8 DS1s	12.2Mbps	\$2,023	NA	\$1,850	\$1,200	\$1,701	\$1,200	\$1,610	\$0	\$1,465	\$0

B-ICI Port Only		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS1	1.5Mbps	\$1,598	NA	\$1,405	\$600	\$1,213	\$600	\$1,020	\$0	\$824	\$0
DS3	40Mbps	\$3,049	NA	\$2,823	\$1,250	\$2,537	\$1,250	\$2,225	\$0	\$1,913	\$0
OC-3c	149Mbps	\$4,610	NA	\$4,335	\$1,500	\$4,162	\$1,500	\$4,005	\$0	\$3,845	\$0
OC-12c	599Mbps	\$8,720	NA	\$8,170	\$1,500	\$7,824	\$1,500	\$7,509	\$0	\$7,190	\$0

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

CES Port Only		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS1	1.5Mbps	\$548	NA	\$527	\$850	\$506	\$850	\$480	\$0	\$420	\$0

UNI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS1 Port	1.5Mbps	\$528	NA	\$507	\$600	\$486	\$600	\$460	\$0	\$400	\$0
Access	1.5Mbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total DS1 Port and Access	1.5Mbps	\$710	NA	\$682	\$1,000	\$653	\$1,000	\$620	\$0	\$556	\$0
Subrate DS3 Port	20Mbps	\$2,002	NA	\$1,784	\$1,250	\$1,586	\$1,250	\$1,370	\$0	\$1,154	\$0
Access	20Mbps	\$2,368	NA	\$2,345	\$1,250	\$2,321	\$1,250	\$1,800	\$0	\$1,516	\$0
Total Subrate DS3 Port and Access	20Mbps	\$4,370	NA	\$4,129	\$2,500	\$3,907	\$2,500	\$3,170	\$0	\$2,670	\$0
DS3 Port	40Mbps	\$2,799	NA	\$2,573	\$1,250	\$2,287	\$1,250	\$1,975	\$0	\$1,663	\$0
Access	40Mbps	\$2,368	NA	\$2,345	\$1,250	\$2,321	\$1,250	\$1,800	\$0	\$1,516	\$0
Total DS3 Port and Access	40Mbps	\$5,167	NA	\$4,918	\$2,500	\$4,608	\$2,500	\$3,775	\$0	\$3,179	\$0
Subrate OC-3c Port	50Mbps	\$3,325	NA	\$3,150	\$1,500	\$2,977	\$1,500	\$2,954	\$0	\$2,938	\$0
Access	50Mbps	\$2,600	NA	\$2,575	\$3,000	\$2,548	\$3,000	\$1,976	\$0	\$1,765	\$0
Total Subrate OC-3c Port and Access	50Mbps	\$5,925	NA	\$5,725	\$4,500	\$5,525	\$4,500	\$4,930	\$0	\$4,703	\$0
Subrate OC-3c Port	50Mbps	\$3,325	NA	\$3,150	\$1,500	\$2,977	\$1,500	\$2,954	\$0	\$2,938	\$0
Access (Protected)	50Mbps	\$3,600	NA	\$3,575	\$3,000	\$3,548	\$3,000	\$2,976	\$0	\$2,765	\$0
Total Subrate OC-3c Port and Access (Protected)	50Mbps	\$6,925	NA	\$6,725	\$4,500	\$6,525	\$4,500	\$5,930	\$0	\$5,703	\$0
Subrate OC-3c Port	100Mbps	\$3,793	NA	\$3,618	\$1,500	\$3,345	\$1,500	\$3,238	\$0	\$3,128	\$0
Access	100Mbps	\$2,600	NA	\$2,575	\$3,000	\$2,548	\$3,000	\$1,976	\$0	\$1,765	\$0
Total OC-3c Port and Access	100Mbps	\$6,393	NA	\$6,193	\$4,500	\$5,893	\$4,500	\$5,214	\$0	\$4,893	\$0
Subrate OC-3c Port	100Mbps	\$3,793	NA	\$3,618	\$1,500	\$3,345	\$1,500	\$3,238	\$0	\$3,128	\$0
Access (Protected)	100Mbps	\$3,600	NA	\$3,575	\$3,000	\$3,548	\$3,000	\$2,976	\$0	\$2,765	\$0
Total OC-3c Port and Access (Protected)	100Mbps	\$7,393	NA	\$7,193	\$4,500	\$6,893	\$4,500	\$6,214	\$0	\$5,893	\$0

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## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

UNI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
OC-3c Port	149Mbps	\$4,110	NA	\$3,835	\$1,500	\$3,662	\$1,500	\$3,505	\$0	\$3,345	\$0
Access	149Mbps	\$2,600	NA	\$2,575	\$3,000	\$2,548	\$3,000	\$1,976	\$0	\$1,765	\$0
Total OC-3c Port and Access	149Mbps	\$6,710	NA	\$6,410	\$4,500	\$6,210	\$4,500	\$5,481	\$0	\$5,110	\$0
OC-3c Port	149Mbps	\$4,110	NA	\$3,835	\$1,500	\$3,662	\$1,500	\$3,505	\$0	\$3,345	\$0
Access (Protected)	149Mbps	\$3,600	NA	\$3,575	\$3,000	\$3,548	\$3,000	\$2,976	\$0	\$2,765	\$0
Total OC-3c Port and Access (Protected)	149Mbps	\$7,710	NA	\$7,410	\$4,500	\$7,210	\$4,500	\$6,481	\$0	\$6,110	\$0
OC-12c Port	599Mbps	\$8,220	NA	\$7,670	\$1,500	\$7,324	\$1,500	\$7,009	\$0	\$6,690	\$0
Access*	599Mbps	\$5,142	NA	\$4,686	\$6,000	\$4,686	\$6,000	\$3,886	\$0	\$2,962	\$0
Total OC-12c Port and Access	599Mbps	\$13,362	NA	\$12,356	\$7,500	\$12,010	\$7,500	\$10,895	\$0	\$9,652	\$0
OC-12c Port	599Mbps	\$8,220	NA	\$7,620	\$1,500	\$7,324	\$1,500	\$7,009	\$0	\$6,690	\$0
Access* (Protected)	599Mbps	\$6,142	NA	\$5,686	\$6,000	\$5,686	\$6,000	\$4,886	\$0	\$3,962	\$0
Total OC-12c Port and Access (Protected)	599Mbps	\$14,362	NA	\$13,356	\$7,500	\$13,010	\$7,500	\$11,895	\$0	\$10,652	\$0

  

IMA UNI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
2 DS1s Port	3Mbps	\$986	NA	\$887	\$1,200	\$851	\$1,200	\$805	\$0	\$700	\$0
Access	3Mbps	\$364	NA	\$350	\$800	\$334	\$800	\$320	\$0	\$312	\$0
Total 2 DS1s Port and Access	3Mbps	\$1,350	NA	\$1,237	\$2,000	\$1,185	\$2,000	\$1,125	\$0	\$1,012	\$0
3 DS1s Port	4.6Mbps	\$1,094	NA	\$1,014	\$1,200	\$972	\$1,200	\$920	\$0	\$800	\$0
Access	4.6Mbps	\$546	NA	\$525	\$1,200	\$501	\$1,200	\$480	\$0	\$468	\$0
Total 3 DS1s Port and Access	4.6Mbps	\$1,640	NA	\$1,539	\$2,400	\$1,473	\$2,400	\$1,400	\$0	\$1,268	\$0

\* OC-12c Access rates do not include applicable Interoffice Mileage.

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## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

IMA UNI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
4 DS1s Port	6.7Mbps	\$1,288	NA	\$1,141	\$1,200	\$1,094	\$1,200	\$1,035	\$0	\$900	\$0
Access	6.7Mbps	\$728	NA	\$700	\$1,600	\$668	\$1,600	\$640	\$0	\$624	\$0
Total 4 DS1s Port and Access	6.7Mbps	\$2,016	NA	\$1,841	\$2,800	\$1,762	\$2,800	\$1,675	\$0	\$1,524	\$0
5 DS1s Port	7.6Mbps	\$1,446	NA	\$1,293	\$1,200	\$1,239	\$1,200	\$1,173	\$0	\$1,020	\$0
Access	7.6Mbps	\$910	NA	\$875	\$2,000	\$835	\$2,000	\$800	\$0	\$780	\$0
Total 5 DS1s Port and Access	7.6Mbps	\$2,356	NA	\$2,168	\$3,200	\$2,074	\$3,200	\$1,973	\$0	\$1,800	\$0
6 DS1s Port	9.2Mbps	\$1,605	NA	\$1,445	\$1,200	\$1,385	\$1,200	\$1,311	\$0	\$1,140	\$0
Access	9.2Mbps	\$1,092	NA	\$1,050	\$2,400	\$1,002	\$2,400	\$960	\$0	\$936	\$0
Total 6 DS1s Port and Access	9.2Mbps	\$2,697	NA	\$2,495	\$3,600	\$2,387	\$3,600	\$2,271	\$0	\$2,076	\$0
7 DS1s Port	10.7Mbps	\$1,763	NA	\$1,597	\$1,200	\$1,531	\$1,200	\$1,449	\$0	\$1,260	\$0
Access	10.7Mbps	\$1,274	NA	\$1,225	\$2,800	\$1,169	\$2,800	\$1,120	\$0	\$1,092	\$0
Total 7 DS1s Port and Access	10.7Mbps	\$3,037	NA	\$2,822	\$4,000	\$2,700	\$4,000	\$2,569	\$0	\$2,352	\$0
8 DS1s Port	12.2Mbps	\$2,023	NA	\$1,850	\$1,200	\$1,701	\$1,200	\$1,610	\$0	\$1,465	\$0
Access	12.2Mbps	\$1,456	NA	\$1,400	\$3,200	\$1,336	\$3,200	\$1,280	\$0	\$1,248	\$0
Total 8 DS1s Port and Access	12.2Mbps	\$3,479	NA	\$3,250	\$4,400	\$3,037	\$4,400	\$2,890	\$0	\$2,713	\$0

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

B-ICI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS1 Port	1.5Mbps	\$1,598	NA	\$1,405	\$600	\$1,213	\$600	\$1,020	\$0	\$824	\$0
Access	1.5Mbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total DS1 Port and Access	1.5Mbps	\$1,780	NA	\$1,580	\$1,000	\$1,380	\$1,000	\$1,180	\$0	\$980	\$0
DS3 Port	40Mbps	\$3,049	NA	\$2,823	\$1,250	\$2,537	\$1,250	\$2,225	\$0	\$1,913	\$0
Access	40Mbps	\$2,368	NA	\$2,345	\$1,250	\$2,321	\$1,250	\$1,800	\$0	\$1,516	\$0
Total DS3 Port and Access	40Mbps	\$5,417	NA	\$5,168	\$2,500	\$4,858	\$2,500	\$4,025	\$0	\$3,429	\$0
OC-3c Port	149Mbps	\$4,610	NA	\$4,335	\$1,500	\$4,162	\$1,500	\$4,005	\$0	\$3,845	\$0
Access	149Mbps	\$2,600	NA	\$2,575	\$3,000	\$2,548	\$3,000	\$1,976	\$0	\$1,765	\$0
Total OC-3c Port and Access	149Mbps	\$7,210	NA	\$6,910	\$4,500	\$6,710	\$4,500	\$5,981	\$0	\$5,610	\$0
OC-3c Port	149Mbps	\$4,610	NA	\$4,335	\$1,500	\$4,162	\$1,500	\$4,005	\$0	\$3,845	\$0
Access (Protected)	149Mbps	\$3,600	NA	\$3,575	\$3,000	\$3,548	\$3,000	\$2,976	\$0	\$2,765	\$0
Total OC-3c Port and Access (Protected)	149Mbps	\$8,210	NA	\$7,910	\$4,500	\$7,710	\$4,500	\$6,981	\$0	\$6,610	\$0
OC-12c Port	599Mbps	\$8,720	NA	\$8,170	\$1,500	\$7,824	\$1,500	\$7,509	\$0	\$7,190	\$0
Access*	599Mbps	\$5,142	NA	\$4,686	\$6,000	\$4,686	\$6,000	\$3,886	\$0	\$2,962	\$0
Total OC-12c Port and Access	599Mbps	\$13,862	NA	\$12,856	\$7,500	\$12,510	\$7,500	\$11,395	\$0	\$10,152	\$0
OC-12c Port	599Mbps	\$8,720	NA	\$8,170	\$1,500	\$7,824	\$1,500	\$7,509	\$0	\$7,190	\$0
Access* (Protected)	599Mbps	\$6,142	NA	\$5,686	\$6,000	\$5,686	\$6,000	\$4,886	\$0	\$3,962	\$0
Total OC-12c Port and Access (Protected)	599Mbps	\$14,862	NA	\$13,856	\$7,500	\$13,510	\$7,500	\$12,395	\$0	\$11,152	\$0

OC-12 Interoffice Mileage	Out of Term		1 Year		2 Year		3 Year		5 Year	
	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
Fixed	\$3,632	NA	\$3,182	NA	\$3,182	NA	\$2,595	NA	\$2,035	NA
Per Mile	\$775	NA	\$665	NA	\$665	NA	\$563	NA	\$530	NA

\* OC-12c Access rates do not include applicable Interoffice Mileage.

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

Speed	Standard PVCs - Monthly								NRC*
	Quality of Service (QoS)								
	UBR (PIR)		VBR-nrt (SIR)		VBR-rt (PIR)		CBR (PIR)		
	VCC	VPC	VCC	VPC	VCC	VPC	VCC	VPC	
8Kbps	\$2	\$3	\$3	\$4	\$6	\$8	\$7	\$9	\$60
16Kbps	\$2	\$3	\$3	\$4	\$6	\$8	\$7	\$9	\$60
32Kbps	\$2	\$3	\$3	\$4	\$6	\$8	\$7	\$9	\$60
48Kbps	\$2	\$3	\$3	\$4	\$6	\$8	\$7	\$9	\$60
56Kbps	\$2	\$3	\$3	\$4	\$6	\$8	\$7	\$9	\$60
64Kbps	\$2	\$3	\$3	\$4	\$6	\$8	\$7	\$9	\$60
128Kbps	\$3	\$4	\$5	\$6	\$6	\$8	\$7	\$9	\$60
192Kbps	\$5	\$6	\$8	\$9	\$9	\$12	\$10	\$13	\$60
256Kbps	\$7	\$8	\$10	\$13	\$13	\$16	\$13	\$17	\$60
320Kbps	\$8	\$10	\$13	\$16	\$16	\$20	\$17	\$21	\$60
384Kbps	\$10	\$13	\$15	\$19	\$19	\$23	\$20	\$25	\$60
448Kbps	\$12	\$15	\$18	\$22	\$22	\$27	\$23	\$29	\$60
512Kbps	\$13	\$17	\$20	\$25	\$25	\$31	\$27	\$33	\$60
576Kbps	\$15	\$19	\$23	\$28	\$28	\$35	\$30	\$38	\$60
640Kbps	\$17	\$21	\$25	\$31	\$31	\$39	\$33	\$42	\$60
704Kbps	\$18	\$23	\$28	\$34	\$34	\$43	\$37	\$46	\$60
768Kbps	\$20	\$25	\$30	\$38	\$38	\$47	\$40	\$50	\$60
832Kbps	\$22	\$27	\$33	\$41	\$41	\$51	\$43	\$54	\$60
896Kbps	\$23	\$29	\$35	\$44	\$44	\$55	\$47	\$58	\$60
960Kbps	\$25	\$31	\$38	\$47	\$47	\$59	\$50	\$63	\$60
1000Kbps	\$25	\$31	\$50	\$63	\$69	\$86	\$75	\$94	\$60
1024Kbps	\$27	\$33	\$40	\$50	\$50	\$63	\$53	\$67	\$60
1536Kbps	\$40	\$50	\$60	\$75	\$75	\$94	\$80	\$100	\$60
2Mbps	\$30	\$38	\$60	\$75	\$83	\$103	\$90	\$113	\$60
3Mbps	\$35	\$44	\$70	\$88	\$96	\$120	\$105	\$131	\$60
4Mbps	\$40	\$50	\$80	\$100	\$110	\$138	\$120	\$150	\$60
5Mbps	\$45	\$56	\$90	\$113	\$124	\$155	\$135	\$169	\$60
6Mbps	\$50	\$63	\$100	\$125	\$138	\$172	\$150	\$188	\$60
7Mbps	\$55	\$69	\$110	\$138	\$151	\$189	\$165	\$206	\$60
8Mbps	\$60	\$75	\$120	\$150	\$165	\$206	\$180	\$225	\$60
9Mbps	\$65	\$81	\$130	\$163	\$179	\$223	\$195	\$244	\$60
10Mbps	\$70	\$88	\$140	\$175	\$193	\$241	\$210	\$263	\$60

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

Speed	Standard PVCs - Monthly								NRC*
	Quality of Service (QoS)								
	UBR (PIR)		VBR-nrt (SIR)		VBR-rt (PIR)		CBR (PIR)		
	VCC	VPC	VCC	VPC	VCC	VPC	VCC	VPC	
11Mbps	\$75	\$94	\$150	\$188	\$206	\$258	\$225	\$281	\$60
12Mbps	\$80	\$100	\$160	\$200	\$220	\$275	\$240	\$300	\$60
13Mbps	\$85	\$106	\$170	\$213	\$234	\$292	\$255	\$319	\$60
14Mbps	\$90	\$113	\$180	\$225	\$248	\$309	\$270	\$338	\$60
15Mbps	\$95	\$119	\$190	\$238	\$261	\$327	\$285	\$356	\$60
16Mbps	\$100	\$125	\$200	\$250	\$275	\$344	\$300	\$375	\$60
17Mbps	\$105	\$131	\$210	\$263	\$289	\$361	\$315	\$394	\$60
18Mbps	\$110	\$138	\$220	\$275	\$303	\$378	\$330	\$413	\$60
19Mbps	\$115	\$144	\$230	\$288	\$316	\$395	\$345	\$431	\$60
20Mbps	\$120	\$150	\$240	\$300	\$330	\$413	\$360	\$450	\$60
25Mbps	\$125	\$156	\$250	\$313	\$344	\$430	\$375	\$469	\$60
30Mbps	\$150	\$188	\$300	\$375	\$413	\$516	\$450	\$563	\$60
35Mbps	\$175	\$219	\$350	\$438	\$481	\$602	\$525	\$656	\$60
40Mbps	\$200	\$250	\$400	\$500	\$550	\$688	\$600	\$750	\$60
45Mbps	\$205	\$256	\$410	\$513	\$564	\$705	\$615	\$769	\$60
50Mbps	\$207	\$259	\$414	\$517	\$569	\$711	\$621	\$776	\$60
55Mbps	\$228	\$284	\$455	\$569	\$626	\$782	\$683	\$853	\$60
60Mbps	\$248	\$310	\$497	\$621	\$683	\$853	\$745	\$931	\$60
65Mbps	\$269	\$336	\$538	\$672	\$740	\$925	\$807	\$1,009	\$60
70Mbps	\$290	\$362	\$579	\$724	\$797	\$996	\$869	\$1,086	\$60
75Mbps	\$310	\$388	\$621	\$776	\$853	\$1,067	\$931	\$1,164	\$60
80Mbps	\$331	\$414	\$662	\$828	\$910	\$1,138	\$993	\$1,241	\$60
85Mbps	\$352	\$440	\$703	\$879	\$967	\$1,209	\$1,055	\$1,319	\$60
90Mbps	\$372	\$466	\$745	\$931	\$1,024	\$1,280	\$1,117	\$1,397	\$60
95Mbps	\$393	\$491	\$786	\$983	\$1,081	\$1,351	\$1,179	\$1,474	\$60
100Mbps	\$414	\$517	\$828	\$1,034	\$1,138	\$1,422	\$1,241	\$1,552	\$60
105Mbps	\$434	\$543	\$869	\$1,086	\$1,195	\$1,494	\$1,303	\$1,629	\$60
110Mbps	\$455	\$569	\$910	\$1,138	\$1,252	\$1,565	\$1,366	\$1,707	\$60
115Mbps	\$476	\$595	\$952	\$1,190	\$1,309	\$1,636	\$1,428	\$1,784	\$60
120Mbps	\$497	\$621	\$993	\$1,241	\$1,366	\$1,707	\$1,490	\$1,862	\$60
125Mbps	\$517	\$647	\$1,034	\$1,293	\$1,422	\$1,778	\$1,552	\$1,940	\$60
130Mbps	\$538	\$672	\$1,076	\$1,345	\$1,479	\$1,849	\$1,614	\$2,017	\$60
135Mbps	\$559	\$698	\$1,117	\$1,397	\$1,536	\$1,920	\$1,676	\$2,095	\$60
140Mbps	\$579	\$724	\$1,159	\$1,448	\$1,593	\$1,991	\$1,738	\$2,172	\$60
145Mbps	\$600	\$750	\$1,200	\$1,500	\$1,650	\$2,063	\$1,800	\$2,250	\$60

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

Speed	FRATM PVCs - Monthly			NRC*
	Standard	Alternate Routing	Disaster Recovery	
	VBR-nrt (SIR)	VBR-nrt (SIR)	VBR-nrt (SIR)	
	VCC Only	VCC Only	VCC Only	
8Kbps	\$4	\$3	\$2	\$60
16Kbps	\$5	\$4	\$3	\$60
32Kbps	\$6	\$5	\$3	\$60
48Kbps	\$7	\$6	\$4	\$60
56Kbps	\$8	\$7	\$4	\$60
64Kbps	\$9	\$8	\$5	\$60
128Kbps	\$10	\$9	\$5	\$60
192Kbps	\$11	\$9	\$6	\$60
256Kbps	\$12	\$10	\$6	\$60
320Kbps	\$13	\$11	\$6	\$60
384Kbps	\$15	\$13	\$8	\$60
448Kbps	\$18	\$15	\$9	\$60
512Kbps	\$20	\$17	\$10	\$60
576Kbps	\$23	\$19	\$11	\$60
640Kbps	\$25	\$21	\$13	\$60
704Kbps	\$28	\$23	\$14	\$60
768Kbps	\$30	\$26	\$15	\$60
832Kbps	\$33	\$28	\$16	\$60
896Kbps	\$35	\$30	\$18	\$60
960Kbps	\$38	\$32	\$19	\$60
1000Kbps	\$50	\$43	\$25	\$60
1024Kbps	\$40	\$34	\$20	\$60
1536Kbps	\$60	\$51	\$30	\$60
2Mbps	\$60	\$51	\$30	\$60
3Mbps	\$70	\$60	\$35	\$60
4Mbps	\$80	\$68	\$40	\$60
5Mbps	\$90	\$77	\$45	\$60
6Mbps	\$100	\$85	\$50	\$60
7Mbps	\$110	\$94	\$55	\$60
8Mbps	\$120	\$102	\$60	\$60
9Mbps	\$130	\$111	\$65	\$60
10Mbps	\$140	\$119	\$70	\$60

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

Speed	FRATM PVCs - Monthly			NRC*
	Standard	Alternate Routing	Disaster Recovery	
	VBR-nrt (SIR)	VBR-nrt (SIR)	VBR-nrt (SIR)	
	VCC Only	VCC Only	VCC Only	
11Mbps	\$150	\$128	\$75	\$60
12Mbps	\$160	\$136	\$80	\$60
13Mbps	\$170	\$145	\$85	\$60
14Mbps	\$180	\$153	\$90	\$60
15Mbps	\$190	\$162	\$95	\$60
16Mbps	\$200	\$170	\$100	\$60
17Mbps	\$210	\$179	\$105	\$60
18Mbps	\$220	\$187	\$110	\$60
19Mbps	\$230	\$196	\$115	\$60
20Mbps	\$240	\$204	\$120	\$60
25Mbps	\$250	\$213	\$125	\$60
30Mbps	\$300	\$255	\$150	\$60
35Mbps	\$350	\$298	\$175	\$60
40Mbps	\$400	\$340	\$200	\$60

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

Speed	Alternate Routing PVCs - Monthly				Disaster Recovery PVCs - Monthly				NRC*
	Quality of Service				Quality of Service				
	UBR (PIR)	VBR-nrt (SIR)	VBR-rt (PIR)	CBR (PIR)	UBR (PIR)	VBR-nrt (SIR)	VBR-rt (PIR)	CBR (PIR)	
	VCC Only				VCC Only				
8Kbps	\$2	\$3	\$5	\$6	\$1	\$2	\$3	\$4	\$60
16Kbps	\$2	\$3	\$5	\$6	\$1	\$2	\$3	\$4	\$60
32Kbps	\$2	\$3	\$5	\$6	\$1	\$2	\$3	\$4	\$60
48Kbps	\$2	\$3	\$5	\$6	\$1	\$2	\$3	\$4	\$60
56Kbps	\$2	\$3	\$5	\$6	\$1	\$2	\$3	\$4	\$60
64Kbps	\$2	\$3	\$5	\$6	\$1	\$2	\$3	\$4	\$60
128Kbps	\$3	\$4	\$5	\$6	\$2	\$3	\$3	\$4	\$60
192Kbps	\$4	\$6	\$8	\$9	\$3	\$4	\$5	\$5	\$60
256Kbps	\$6	\$9	\$11	\$11	\$3	\$5	\$6	\$7	\$60
320Kbps	\$7	\$11	\$13	\$14	\$4	\$6	\$8	\$8	\$60
384Kbps	\$9	\$13	\$16	\$17	\$5	\$8	\$9	\$10	\$60
448Kbps	\$10	\$15	\$19	\$20	\$6	\$9	\$11	\$12	\$60
512Kbps	\$11	\$17	\$21	\$23	\$7	\$10	\$13	\$13	\$60
576Kbps	\$13	\$19	\$24	\$26	\$8	\$11	\$14	\$15	\$60
640Kbps	\$14	\$21	\$27	\$28	\$8	\$13	\$16	\$17	\$60
704Kbps	\$16	\$23	\$29	\$31	\$9	\$14	\$17	\$18	\$60
768Kbps	\$17	\$26	\$32	\$34	\$10	\$15	\$19	\$20	\$60
832Kbps	\$18	\$28	\$35	\$37	\$11	\$16	\$20	\$22	\$60
896Kbps	\$20	\$30	\$37	\$40	\$12	\$18	\$22	\$23	\$60
960Kbps	\$21	\$32	\$40	\$43	\$13	\$19	\$23	\$25	\$60
1000Kbps	\$21	\$43	\$58	\$64	\$13	\$25	\$34	\$38	\$60
1024Kbps	\$23	\$34	\$43	\$45	\$13	\$20	\$25	\$27	\$60
1536Kbps	\$34	\$51	\$64	\$68	\$20	\$30	\$38	\$40	\$60
2Mbps	\$26	\$51	\$70	\$77	\$15	\$30	\$41	\$45	\$60
3Mbps	\$30	\$60	\$82	\$89	\$18	\$35	\$48	\$53	\$60
4Mbps	\$34	\$68	\$94	\$102	\$20	\$40	\$55	\$60	\$60
5Mbps	\$38	\$77	\$105	\$115	\$23	\$45	\$62	\$68	\$60
6Mbps	\$43	\$85	\$117	\$128	\$25	\$50	\$69	\$75	\$60
7Mbps	\$47	\$94	\$129	\$140	\$28	\$55	\$76	\$83	\$60
8Mbps	\$51	\$102	\$140	\$153	\$30	\$60	\$83	\$90	\$60
9Mbps	\$55	\$111	\$152	\$166	\$33	\$65	\$89	\$98	\$60
10Mbps	\$60	\$119	\$164	\$179	\$35	\$70	\$96	\$105	\$60

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## ADVANCED SERVICES TARIFF

**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE** (Continued)**4.3 Rates (Continued)**

Speed	Alternate Routing PVCs - Monthly				Disaster Recovery PVCs - Monthly				NRC*
	Quality of Service				Quality of Service				
	UBR (PIR)	VBR-nrt (SIR)	VBR-rt (PIR)	CBR (PIR)	UBR (PIR)	VBR-nrt (SIR)	VBR-rt (PIR)	CBR (PIR)	
	VCC Only				VCC Only				
11Mbps	\$64	\$128	\$175	\$191	\$38	\$75	\$103	\$113	\$60
12Mbps	\$68	\$136	\$187	\$204	\$40	\$80	\$110	\$120	\$60
13Mbps	\$72	\$145	\$199	\$217	\$43	\$85	\$117	\$128	\$60
14Mbps	\$77	\$153	\$210	\$230	\$45	\$90	\$124	\$135	\$60
15Mbps	\$81	\$162	\$222	\$242	\$48	\$95	\$131	\$143	\$60
16Mbps	\$85	\$170	\$234	\$255	\$50	\$100	\$138	\$150	\$60
17Mbps	\$89	\$179	\$245	\$268	\$53	\$105	\$144	\$158	\$60
18Mbps	\$94	\$187	\$257	\$281	\$55	\$110	\$151	\$165	\$60
19Mbps	\$98	\$196	\$269	\$293	\$58	\$115	\$158	\$173	\$60
20Mbps	\$102	\$204	\$281	\$306	\$60	\$120	\$165	\$180	\$60
25Mbps	\$106	\$213	\$292	\$319	\$63	\$125	\$172	\$188	\$60
30Mbps	\$128	\$255	\$351	\$383	\$75	\$150	\$206	\$225	\$60
35Mbps	\$149	\$298	\$409	\$446	\$88	\$175	\$241	\$263	\$60
40Mbps	\$170	\$340	\$468	\$510	\$100	\$200	\$275	\$300	\$60
45Mbps	\$174	\$349	\$479	\$523	\$103	\$205	\$282	\$308	\$60
50Mbps	\$176	\$352	\$484	\$528	\$103	\$207	\$284	\$310	\$60
55Mbps	\$193	\$387	\$532	\$580	\$114	\$228	\$313	\$341	\$60
60Mbps	\$211	\$422	\$580	\$633	\$124	\$248	\$341	\$372	\$60
65Mbps	\$229	\$457	\$629	\$686	\$134	\$269	\$370	\$403	\$60
70Mbps	\$246	\$492	\$677	\$739	\$145	\$290	\$398	\$434	\$60
75Mbps	\$264	\$528	\$725	\$791	\$155	\$310	\$427	\$466	\$60
80Mbps	\$281	\$563	\$774	\$844	\$166	\$331	\$455	\$497	\$60
85Mbps	\$299	\$598	\$822	\$897	\$176	\$352	\$484	\$528	\$60
90Mbps	\$317	\$633	\$871	\$950	\$186	\$372	\$512	\$559	\$60
95Mbps	\$334	\$668	\$919	\$1,002	\$197	\$393	\$541	\$590	\$60
100Mbps	\$352	\$703	\$967	\$1,055	\$207	\$414	\$569	\$621	\$60
105Mbps	\$369	\$739	\$1,016	\$1,108	\$217	\$434	\$597	\$652	\$60
110Mbps	\$387	\$774	\$1,064	\$1,161	\$228	\$455	\$626	\$683	\$60
115Mbps	\$404	\$809	\$1,112	\$1,213	\$238	\$476	\$654	\$714	\$60
120Mbps	\$422	\$844	\$1,161	\$1,266	\$248	\$497	\$683	\$745	\$60
125Mbps	\$440	\$879	\$1,209	\$1,319	\$259	\$517	\$711	\$776	\$60
130Mbps	\$457	\$914	\$1,257	\$1,372	\$269	\$538	\$740	\$807	\$60
135Mbps	\$475	\$950	\$1,306	\$1,424	\$279	\$559	\$768	\$838	\$60
140Mbps	\$492	\$985	\$1,354	\$1,477	\$290	\$579	\$797	\$869	\$60
145Mbps	\$510	\$1,020	\$1,403	\$1,530	\$300	\$600	\$825	\$900	\$60

\* Nonrecurring charges are waived for PVCs purchased with customer's initial order for installation of ATM service, and only if customer's associated Port or Port and Access is provided under a three (3) or five (5) year TPP.

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## ADVANCED SERVICES TARIFF

## SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE (Continued)

## 4.3 Rates (Continued)

Multicasting PVCs - Monthly					
Speed	VBR-nrt (SIR)	NRC*	Speed	VBR-nrt (SIR)	NRC*
	VCC Only			VCC Only	
8Kbps	\$2	\$60	13Mbps	\$85	\$60
16Kbps	\$2	\$60	14Mbps	\$90	\$60
32Kbps	\$2	\$60	15Mbps	\$95	\$60
48Kbps	\$2	\$60	16Mbps	\$100	\$60
56Kbps	\$2	\$60	17Mbps	\$105	\$60
64Kbps	\$2	\$60	18Mbps	\$110	\$60
128Kbps	\$3	\$60	19Mbps	\$115	\$60
192Kbps	\$4	\$60	20Mbps	\$120	\$60
256Kbps	\$5	\$60	25Mbps	\$125	\$60
320Kbps	\$6	\$60	30Mbps	\$150	\$60
384Kbps	\$8	\$60	35Mbps	\$175	\$60
448Kbps	\$9	\$60	40Mbps	\$200	\$60
512Kbps	\$10	\$60	45Mbps	\$205	\$60
576Kbps	\$11	\$60	50Mbps	\$207	\$60
640Kbps	\$13	\$60	55Mbps	\$228	\$60
704Kbps	\$14	\$60	60Mbps	\$248	\$60
768Kbps	\$15	\$60	65Mbps	\$269	\$60
832Kbps	\$16	\$60	70Mbps	\$290	\$60
896Kbps	\$18	\$60	75Mbps	\$310	\$60
960Kbps	\$19	\$60	80Mbps	\$331	\$60
1000Kbps	\$25	\$60	85Mbps	\$352	\$60
1024Kbps	\$20	\$60	90Mbps	\$372	\$60
1536Kbps	\$30	\$60	95Mbps	\$393	\$60
2Mbps	\$30	\$60	100Mbps	\$414	\$60
3Mbps	\$35	\$60	105Mbps	\$434	\$60
4Mbps	\$40	\$60	110Mbps	\$455	\$60
5Mbps	\$45	\$60	115Mbps	\$476	\$60
6Mbps	\$50	\$60	120Mbps	\$497	\$60
7Mbps	\$55	\$60	125Mbps	\$517	\$60
8Mbps	\$60	\$60	130Mbps	\$538	\$60
9Mbps	\$65	\$60	135Mbps	\$559	\$60
10Mbps	\$70	\$60	140Mbps	\$579	\$60
11Mbps	\$75	\$60	145Mbps	\$600	\$60
12Mbps	\$80	\$60			

\* Nonrecurring charges are waived for PVCs purchased with customer's initial order for installation of ATM service, and only if customer's associated Port or Port and Access is provided under a three (3) or five (5) year TPP.

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ADVANCED SERVICES TARIFF

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**SECTION 4 – ASYNCHRONOUS TRANSFER MODE (ATM) SERVICE** (Continued)**4.3 Rates (Continued)**

Speed	Standard PVC - Monthly	NRC*
	CES	
	CBR(PIR)	
	VCC Only	
1.755Mbps	\$91	\$60

\* Nonrecurring charges are waived for PVCs purchased with customer's initial order for installation of ATM service, and only if customer's associated Port or Port and Access is provided under a three (3) or five (5) year TPP.

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**SECTION 5 – FRAME RELAY SERVICE****5.1 Service Description**

Frame Relay Service (FRS) is a public, metropolitan wide-area data service that provides high throughput and low delay. It utilizes advanced packet switching technology and highly reliable digital transmission facilities to provide the performance of leased lines and the flexibility and connectivity features of Local Area Networks (LANs) in an efficient, economical data delivery service.

**5.2 Service Components**

A nonrecurring charge and a monthly rate apply, based upon the speed of the connections and term plan selected.

**5.2.1 User Network Interface (UNI) Port and Access**

UNI Port and Access connects the Customer to the Company's FRS network, based upon the standards defined UNI signaling protocol. UNI Port and Access is available at various speeds between 56 Kbps and DS3. Each UNI Port and Access will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

**5.2.2 User Network Interface (UNI) Port Only**

UNI Port Only provides the Customer a port connection into the Company's FRS network based upon the standards defined UNI signaling protocol. UNI Port Only is available at several speeds between 56 Kbps and DS3. When UNI Port Only is selected, it is the Customer's responsibility to obtain access to Company's FRS network. Each UNI Port Only will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

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**SECTION 5 – FRAME RELAY SERVICE (Continued)**

**5.2 Service Components (Continued)**

**5.2.3 Network to Network Interface (NNI) Port and Access**

NNI Port and Access connects the Customer to the Company's FRS network, based upon the standards defined NNI signaling protocol. NNI Port and Access is available at DS1 and DS3 speeds. Each NNI Port and Access will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

**5.2.4 Network to Network Interface (NNI) Port Only**

NNI Port Only provides the Customer a port connection into the Company's FRS network based upon the standards defined NNI signaling protocol. NNI Port Only is available at DS1 and DS3 speeds. When NNI Port Only is selected, it is the Customer's responsibility to obtain access to Company's FRS network. Each NNI Port Only will accommodate multiple Permanent Virtual Circuits (PVCs), based upon the speeds selected.

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**SECTION 5 – FRAME RELAY SERVICE (Continued)****5.2 Service Components (Continued)****5.2.5 Permanent Virtual Circuits (PVCs)**

PVCs are logical connections between two (2) ports that allow data to be sent from one Customer location to another. PVCs do not engage capacity when idle, allowing the available capacity to be allocated to other active PVCs that are in need of additional bandwidth. PVCs are duplex (two-way).

Each PVC type is assigned a Committed Information Rate (CIR). CIR is the rate in Kbps or Mbps at which the Company commits to transfer user data under normal conditions.

A PVC may exceed its assigned CIR when transmitting a large file or volume of information. This condition is known as bursting. Excess capacity must be available on the port connection for bursting to occur. Bursting cannot exceed the port speed.

When placing an order for Service, customer must specify the following for each PVC:

- PVC Connection Type;
- PVC Type; and
- Quality of Service.

PVCs purchased from this Section of Frame Relay Service must have at least one associated Port purchased from this Section as well.

**5.2.5.A PVC Connection Types****(1) Frame Relay to Frame Relay**

Frame Relay to Frame Relay connects two Frame Relay customer locations.

**(2) Frame Relay to ATM Service (FRATM)**

FRATM connects two customer locations, one having a Frame Relay port and the other an ATM port, to provide transparent interworking between Frame Relay and ATM networks.

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ADVANCED SERVICES TARIFF

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**SECTION 5 – FRAME RELAY SERVICE (Continued)****5.2 Service Components (Continued)****5.2.5 Permanent Virtual Circuits (PVCs) (Continued)****5.2.5.B PVC Types****(1) Standard PVC**

Standard PVCs are utilized in typical Frame Relay networks to provide logical connections between two ports.

**(2) Disaster Recovery PVC**

Disaster Recovery PVCs allow for the implementation of logical connections between branch locations and a secondary processor/server center (disaster recovery location) should a non-recoverable disaster occur at the primary host location. The disaster recovery location must also be served by an active, Company provided Frame Relay Port.

The Disaster Recovery PVC is provisioned based upon an initial order from the Customer and pre-configured in the Frame Relay switch, but set to a disabled mode. Customer must initiate PVC activation with Company and necessary third party vendors.

**(3) Alternate Routing PVCs**

Alternate Routing PVCs provide a logical connection to an alternate host site processor/server in the event of an outage at the primary location. Alternate Routing PVCs are to be utilized in the event of an outage at the primary location only, not day-to-day use.

The Alternate Routing PVC is provisioned based upon an initial order from the Customer and available at all times. The remote Customer location is provisioned with two active PVCs, one end to the primary Customer location and one end to the backup Customer location.

**5.2.5.C PVC Quality of Service (QoS)****(1) Standard**

Standard QoS is available for Frame Relay applications that contain bursty traffic.

**(2) Priority**

Priority QoS offers reduced delay and packet loss between end-points.

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## ADVANCED SERVICES TARIFF

## SECTION 5 – FRAME RELAY SERVICE (Continued)

## 5.3 Rates

UNI Port Only		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS0	56Kbps	\$78	NA	\$68	\$350	\$67	\$350	\$65	\$0	\$60	\$0
DS0	64Kbps	\$78	NA	\$68	\$350	\$67	\$350	\$65	\$0	\$60	\$0
Fractional DS1	128Kbps	\$168	NA	\$161	\$400	\$155	\$400	\$148	\$0	\$145	\$0
Fractional DS1	256Kbps	\$224	NA	\$215	\$400	\$206	\$400	\$197	\$0	\$193	\$0
Fractional DS1	384Kbps	\$244	NA	\$235	\$400	\$224	\$400	\$215	\$0	\$210	\$0
Fractional DS1	512Kbps	\$261	NA	\$251	\$400	\$240	\$400	\$230	\$0	\$225	\$0
Fractional DS1	768Kbps	\$284	NA	\$273	\$400	\$261	\$400	\$250	\$0	\$244	\$0
DS1	1.5Mbps	\$432	N/A	\$415	\$450	\$397	\$450	\$380	\$0	\$371	\$0
DS3	40Mbps	\$3,171	N/A	\$3,139	\$1,000	\$2,790	\$1,000	\$2,410	\$0	\$2,029	\$0

NNI Port Only		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS1	1.5Mbps	\$432	NA	\$415	\$450	\$397	\$450	\$380	\$0	\$371	\$0
DS3	40Mbps	\$3,171	NA	\$3,139	\$1,000	\$2,790	\$1,000	\$2,410	\$0	\$2,029	\$0

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## ADVANCED SERVICES TARIFF

## SECTION 5 – FRAME RELAY SERVICE (Continued)

## 5.3 Rates (Continued)

UNI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS0 Port	56Kbps	\$78	NA	\$68	\$350	\$67	\$350	\$65.00	\$0	\$60	\$0
Access	56Kbps	\$84	NA	\$73	\$350	\$72	\$350	\$70	\$0	\$64	\$0
Total DS0 Port and Access	56Kbps	\$162	NA	\$141	\$700	\$139	\$700	\$135	\$0	\$124	\$0
DS0 Port	64Kbps	\$78	NA	\$68	\$350	\$67	\$350	\$65	\$0	\$60	\$0
Access	64Kbps	\$84	NA	\$73	\$350	\$72	\$350	\$70	\$0	\$64	\$0
Total DS0 Port and Access	64Kbps	\$162	NA	\$141	\$700	\$139	\$700	\$135	\$0	\$124	\$0
Fractional DS1 Port	128Kbps	\$168	NA	\$161	\$400	\$155	\$400	\$148	\$0	\$145	\$0
Access	128Kbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total Fractional DS1 Port and Access	128Kbps	\$350	NA	\$336	\$800	\$322	\$800	\$308	\$0	\$301	\$0
Fractional DS1 Port	256Kbps	\$224	NA	\$215	\$400	\$206	\$400	\$197	\$0	\$193	\$0
Access	256Kbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total Fractional DS1 Port and Access	256Kbps	\$406	NA	\$390	\$800	\$373	\$800	\$357	\$0	\$349	\$0
Fractional DS1 Port	384Kbps	\$244	NA	\$235	\$400	\$224	\$400	\$215	\$0	\$210	\$0
Access	384Kbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total Fractional DS1 Port and Access	384Kbps	\$426	NA	\$410	\$800	\$391	\$800	\$375	\$0	\$366	\$0

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## ADVANCED SERVICES TARIFF

## SECTION 5 – FRAME RELAY SERVICE (Continued)

## 5.3 Rates (Continued)

UNI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
Fractional DS1 Port	512Kbps	\$261	NA	\$251	\$400	\$240	\$400	\$230	\$0	\$225	\$0
Access	512Kbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total Fractional DS1 Port and Access	512Kbps	\$443	NA	\$426	\$800	\$407	\$800	\$390	\$0	\$381	\$0
Fractional DS1 Port	768Kbps	\$284	NA	\$273	\$400	\$261	\$400	\$250	\$0	\$244	\$0
Access	768Kbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total Fractional DS1 Port and Access	768Kbps	\$466	NA	\$448	\$800	\$428	\$800	\$410	\$0	\$400	\$0
DS1 Port	1.5Mbps	\$432	NA	\$415	\$450	\$397	\$450	\$380	\$0	\$371	\$0
Access	1.5Mbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total DS1 Port and Access	1.5Mbps	\$614	NA	\$590	\$850	\$565	\$850	\$540	\$0	\$527	\$0
DS3 Port	40Mbps	\$3,171	NA	\$3,139	\$1,000	\$2,790	\$1,000	\$2,410	\$0	\$2,029	\$0
Access	40Mbps	\$2,368	NA	\$2,345	\$1,250	\$2,321	\$1,250	\$1,800	\$0	\$1,516	\$0
Total DS3 Port and Access	40Mbps	\$5,539	NA	\$5,484	\$2,250	\$5,111	\$2,250	\$4,210	\$0	\$3,545	\$0

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## ADVANCED SERVICES TARIFF

## SECTION 5 – FRAME RELAY SERVICE (Continued)

## 5.3 Rates (Continued)

NNI Port and Access		Out of Term		1 Year		2 Year		3 Year		5 Year	
Bandwidth	Speed	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC	Monthly	NRC
DS1 Port	1.5Mbps	\$432	NA	\$415	\$450	\$397	\$450	\$380	\$0	\$371	\$0
Access	1.5Mbps	\$182	NA	\$175	\$400	\$167	\$400	\$160	\$0	\$156	\$0
Total DS1 Port and Access	1.5Mbps	\$614	NA	\$590	\$850	\$565	\$850	\$540	\$0	\$527	\$0
DS3 Port	40Mbps	\$3,171	NA	\$3,139	\$1,000	\$2,790	\$1,000	\$2,410	\$0	\$2,029	\$0
Access	40Mbps	\$2,368	NA	\$2,345	\$1,250	\$2,321	\$1,250	\$1,800	\$0	\$1,516	\$0
Total DS3 Port and Access	40Mbps	\$5,539	NA	\$5,484	\$2,250	\$5,111	\$2,250	\$4,210	\$0	\$3,545	\$0

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## ADVANCED SERVICES TARIFF

## SECTION 5 – FRAME RELAY SERVICE (Continued)

## 5.3 Rates (Continued)

CIR Speed	Monthly						NRC*
	Standard PVC		Alternate Routing PVC		Disaster Recovery PVC		
	Quality of Service (QoS)						
	Standard	Priority	Standard	Priority	Standard	Priority	
8Kbps	\$3	\$5	\$2	\$4	\$1	\$3	\$30
16Kbps	\$4	\$6	\$3	\$5	\$2	\$4	\$30
32Kbps	\$5	\$7	\$4	\$6	\$3	\$4	\$30
48Kbps	\$6	\$8	\$5	\$7	\$3	\$4	\$30
56Kbps	\$7	\$9	\$6	\$9	\$4	\$5	\$30
64Kbps	\$8	\$10	\$7	\$10	\$4	\$6	\$30
128Kbps	\$9	\$14	\$8	\$11	\$5	\$7	\$30
192Kbps	\$10	\$15	\$9	\$13	\$5	\$8	\$30
256Kbps	\$11	\$17	\$9	\$14	\$6	\$8	\$30
320Kbps	\$12	\$18	\$10	\$15	\$6	\$9	\$30
384Kbps	\$14	\$21	\$12	\$18	\$7	\$11	\$30
448Kbps	\$16	\$24	\$14	\$20	\$8	\$12	\$30
512Kbps	\$18	\$27	\$15	\$23	\$9	\$14	\$30
576Kbps	\$22	\$33	\$19	\$28	\$11	\$17	\$30
640Kbps	\$24	\$36	\$20	\$31	\$12	\$18	\$30
704Kbps	\$27	\$40	\$23	\$34	\$13	\$20	\$30
768Kbps	\$28	\$42	\$24	\$36	\$14	\$21	\$30
832Kbps	\$29	\$44	\$25	\$37	\$15	\$22	\$30
896Kbps	\$31	\$46	\$26	\$39	\$15	\$23	\$30
960Kbps	\$32	\$48	\$27	\$40	\$16	\$24	\$30
1000Kbps	\$32	\$49	\$28	\$41	\$16	\$24	\$30
1024Kbps	\$33	\$49	\$28	\$42	\$16	\$25	\$30
1536Kbps	\$42	\$62	\$35	\$53	\$21	\$31	\$30

\* Nonrecurring charges are waived for PVCs purchased with Customer's initial order for installation of Service, and only if Customer's associated Port or Port and Access is provided under a three (3) or five (5) year TPP.

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## ADVANCED SERVICES TARIFF

## SECTION 5 – FRAME RELAY SERVICE (Continued)

## 5.3 Rates (Continued)

CIR Speed	Monthly						NRC
	Standard PVC		Alternate Routing PVC		Disaster Recovery PVC		
	Quality of Service (QoS)						
	Standard	Priority	Standard	Priority	Standard	Priority	
2Mbps	\$48	\$73	\$41	\$62	\$24	\$36	\$30
3Mbps	\$61	\$92	\$52	\$78	\$31	\$46	\$30
4Mbps	\$72	\$108	\$61	\$92	\$36	\$54	\$30
5Mbps	\$82	\$123	\$70	\$105	\$41	\$62	\$30
6Mbps	\$91	\$137	\$77	\$116	\$46	\$68	\$30
7Mbps	\$100	\$149	\$85	\$127	\$50	\$75	\$30
8Mbps	\$107	\$161	\$91	\$137	\$54	\$81	\$30
9Mbps	\$115	\$173	\$98	\$147	\$58	\$86	\$30
10Mbps	\$122	\$183	\$104	\$156	\$61	\$92	\$30
11Mbps	\$129	\$194	\$110	\$165	\$65	\$97	\$30
12Mbps	\$136	\$204	\$115	\$173	\$68	\$102	\$30
13Mbps	\$142	\$213	\$121	\$181	\$71	\$107	\$30
14Mbps	\$148	\$222	\$126	\$189	\$74	\$111	\$30
15Mbps	\$154	\$231	\$131	\$197	\$77	\$116	\$30
16Mbps	\$160	\$240	\$136	\$204	\$80	\$120	\$30
17Mbps	\$166	\$249	\$141	\$211	\$83	\$124	\$30
18Mbps	\$171	\$257	\$146	\$218	\$86	\$129	\$30
19Mbps	\$177	\$265	\$150	\$225	\$88	\$133	\$30
20Mbps	\$182	\$273	\$155	\$232	\$91	\$137	\$30
25Mbps	\$207	\$310	\$176	\$264	\$103	\$155	\$30
30Mbps	\$230	\$345	\$207	\$310	\$115	\$172	\$30
35Mbps	\$251	\$377	\$226	\$339	\$126	\$188	\$30
40Mbps	\$271	\$407	\$258	\$387	\$136	\$203	\$30

\* Nonrecurring charges are waived for PVCs purchased with Customer's initial order for installation of Service, and only if Customer's associated Port or Port and Access is provided under a three (3) or five (5) year TPP.

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ADVANCED SERVICES TARIFF

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**SECTION 6 – PROMOTIONS**

Company may provide special promotional offerings to its Customers. These offerings may be limited to certain dates, times and locations.

**Frame Relay Service Nonrecurring Charge Waiver**

Company will waive the following Nonrecurring Charges for new Frame Relay Service ordered under a two (2) year TPP for the period from October 9, 2002 through December 29, 2002:

- 1) All Port Only and Port and Access Nonrecurring Charges.
- 2) PVC Nonrecurring Charges.

If Customer terminates Service prior to expiration of the committed service period, Termination Charges will apply as specified in Section 3 of this tariff and Customer will be assessed and liable for any nonrecurring charges waived as a result of this promotion.

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ADVANCED SERVICES TARIFF

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**SECTION 7 – SPECIAL CONSTRUCTION****7.1 Regulations**

- 7.1.1 When special construction of facilities is required, the provisions of this section apply in addition to all regulations, rates, and charges set forth in the appropriate service section.
- 7.1.2 When special construction of facilities is required, the provisions of this section apply in addition to all regulations, rates, and charges set forth in the appropriate service section.
- 7.1.3 Special construction is required if 1) facilities or equipment is not available to meet an order for Service and Company or its vendors must construct facilities; 2) Customer requests Service to be furnished using a type of facility or equipment, or via a route, other than that which Company would normally utilize in providing the requested Service; or 3) Customer requests construction be expedited resulting in added cost to Company.
- 7.1.4 Special construction charges will be developed based on estimated costs.
- 7.1.5 Written Customer approval of all special construction charges must be provided to Company prior to start of construction.
- 7.1.6 For Services provided on a month to month basis, Customer must pay all special construction charges upfront before Company will begin special construction.
- 7.1.7 For Services provided pursuant to a volume or term commitment, Company may spread special construction charges across the term of the commitment, which will be in addition to any charges associated with the Service. If Customer cancels Service after construction has begun, but before commencement of Service, Customer will be liable for all charges incurred by Company. If Customer cancels Service after commencement of Service, Customer will be liable for all unpaid special construction charges in addition to any termination liability associated with termination of Service as set forth in the appropriate service section.
- 7.1.8 If Customer fails to pay special construction charges due, refusal and discontinuance of the Services using the specially constructed facilities shall be in accordance with the appropriate regulations under which the Service is being provided.
- 7.1.9 Rates, charges and liabilities for special construction to provide facilities for use are following.

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**SECTION 7 – SPECIAL CONSTRUCTION** (Continued)

**7.2 Charges**

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**SECTION 8 – DISCOUNT PRICING PLANS****8.1 TPP Volume Discount Plan (TVP)**

TPP Volume Discount Plan (TVP) is a discount pricing plan available to all Frame Relay and ATM Service arrangements. TVP applies as follows:

1. Customer is required to submit a Confirmation of Service Order to Company specifying it wishes to participate in TVP and identify desired Volume Commitment Level;
2. New Frame Relay or ATM Services ordered under a two (2), three (3) or five (5) year TPP will qualify for the TVP discounts;
3. Existing Frame Relay or ATM Services that are converted to new two (2), three (3) or five (5) year TPPs greater than or equal in length to the remaining portion of their current period qualify for TVP;
4. TVP discounts apply to monthly recurring charges for Frame Relay or ATM Ports, PVCs or Port and Access combinations. TVP discounts will be in addition to any discounts received under Term Pricing Plans. PVCs will receive TVP discounts but will not contribute to the Volume Commitment Levels described below;

**8.1.1 Volume Discount Levels**

Each Frame Relay or ATM Port Only or Port and Access combination that meets the conditions set forth in 8.1 above will count toward the Volume Commitment Levels. Each Frame Relay or ATM Port Only or Port and Access combination is equivalent to one Service arrangement.

Services converted to the Out of Term rates and Services purchased under a one (1) year TPP will not contribute to the Volume Commitment Level.

Customers may increase their volume discount level at any time during the TPP period. To receive the increased discount, customer must sign a new two (2), three (3) or five (5) year TPP for all Services to be included in discount and submit a new Confirmation of Service Order indicating their desire to increase their Volume Commitment Level.

Section 8.1 preceding applies to all Frame Relay and ATM Service arrangements used to increase the Volume Commitment Level.

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**SECTION 8 – DISCOUNT PRICING PLANS (Continued)****8.1 TPP Volume Discount Plan (TVP) (Continued)****8.1.2 TVP Discounts**

Number of Frame and  
ATM Service Arrangements 24, 36 or 60 Month TPP  
(This category applies to Frame only or any combination of Frame and  
ATM Service arrangements)

10-49	5%
50-99	7%
100-199	9%
200-299	11%
300+	13%

Number of ATM  
Service Arrangements 24, 36 or 60 Month TPP  
(This category applies to ATM Service arrangements only)

5-14	5%
15-24	7%
25-49	9%
50+	12%

**8.1.3 Annual Review**

Company will verify that customer is maintaining its Volume Commitment Level annually on anniversary date of TVP agreement. Customer must maintain service quantities equal to or greater than their minimum volume commitment to remain eligible for the discount. If customer drops below their committed volume level, Company will downgrade customer to the appropriate volume discount level for which they qualify. If customer's volume level drops below the minimum Volume Commitment Level TVP will no longer apply.

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