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April 14, 2003

VIA UPS OVERNIGHT

James J. McNulty, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor
Harrisburg, PA 17120

DOCUMENT

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APR 14 2003

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

RE: Joint Petition of Verizon Pennsylvania Inc.
(f/k/a Bell Atlantic – Pennsylvania, Inc.)
and DSLnet Communications LLC
for Approval of an Interconnection Agreement
Docket No. A-310824 F 7060

Dear Mr. McNulty:

Enclosed please find an original and three (3) copies of the Joint Petition of Verizon Pennsylvania Inc. (formerly known as Bell Atlantic – Pennsylvania, Inc.) and DSLnet Communications LLC, for Approval of an Interconnection Agreement. This Interconnection Agreement is intended as a replacement Interconnection Agreement, replacing the Agreement previously approved by the Commission at Docket number A-310824.

Please date stamp the enclosed additional copy and return it to me in the enclosed self-addressed, stamped envelope.

Very truly yours,


Daniel E. Monagle

DEM/slb

Enclosure

cc: Schula Hobbs (Via UPS Overnight)
Attached Service List

139

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APR 14 2003

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**JOINT PETITION OF VERIZON PENNSYLVANIA
INC. AND DSLNET COMMUNICATIONS LLC FOR
APPROVAL OF AN INTERCONNECTION
AGREEMENT UNDER SECTION 252(e) OF THE
TELECOMMUNICATIONS ACT OF 1996.**)
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)
)

PUC Docket No. A-310824 F7000

JOINT PETITION

Verizon Pennsylvania Inc. ("Verizon PA") and DSLnet Communications LLC ("DSLnet") respectfully submit for the Commission's approval, pursuant to Sections 251 and 252 of the Telecommunications Act of 1996 (the "1996 Act")¹, the attached Interconnection Agreement dated March 26, 2003 (the "Agreement"). The Agreement provides for the *interconnection of the two companies' networks and makes available to DSLnet access to unbundled network elements, wholesale telecommunications services, and ancillary services offered by Verizon PA.* Verizon PA and DSLnet respectfully request that the Commission act within the 90 days specified by the 1996 Act and approve the Agreement.

In support of this request, Verizon PA and DSLnet state as follows:

THE PARTIES

1. Verizon PA is an incumbent local exchange carrier authorized to provide local exchange telephone service in Pennsylvania.
2. DSLnet is a competitive local exchange carrier that has been granted authority to provide local exchange service in Pennsylvania.

THE AGREEMENT

¹Citations herein to the 1996 Act should be construed as references to sections of the Communications Act of 1934 as amended by the 1996 Act.

3. Verizon PA and DSLnet have entered into the Agreement pursuant to Sections 251(c) and 252(a) of the 1996 Act.

4. The Agreement sets forth the terms, conditions and prices under which Verizon PA and DSLnet will offer and provide network interconnection, reciprocal call termination, access to network elements, ancillary network services, and wholesale telecommunications services available for resale to each other within each Local Access and Transport Area ("LATA") in which they both operate in Pennsylvania. The Agreement is an integrated package that reflects a negotiated balance of many interests and concerns critical to both parties.

5. The Agreement addresses a number of complex issues. Key provisions of the Agreement provide for:

- (i) Compensation for Reciprocal Compensation Traffic at rates of \$.001723 or \$.002814 per minute of use, depending on where traffic is terminated on the Verizon PA and DSLnet networks;
- (ii) Unbundled loops – providing DSLnet access to existing Verizon PA customers – based on a rate methodology specified in the Agreement;
- (iii) Customers to retain their telephone numbers when they switch to DSLnet;
- (iv) Including DSLnet customers' primary listings in the appropriate alphabetical directory ("White Pages") and, for business customers, in the appropriate classified directory ("Yellow Pages");
- (v) The resale of Verizon PA telecommunications services for a wholesale discount of 23.43% or 25.69% (depending upon whether DSLnet provides its own operator services);
- (vi) The continued provision of 911 services to all customers; and
- (vii) Performance standards for services provided by Verizon PA to DSLnet equal to the level of service provided by Verizon PA to its own end-user customers and other telecommunications carriers.

COMPLIANCE WITH THE 1996 ACT

6. The Agreement satisfies the requirements for Commission approval pursuant to Section 252(e)(2)(A) of the 1996 Act, which provides as follows:

The State commission may only reject ... an agreement (or any portion thereof) adopted by negotiation under subsection (a) if it finds that--

(i) the agreement (or portion thereof) discriminates against a telecommunications carrier not a party to the agreement; or

(ii) the implementation of such agreement or portion is not consistent with the public interest, convenience, and necessity[.]

7. First, the Agreement does not discriminate against any other telecommunications carrier, as required by Section 252(e)(2)(a)(i). To the contrary, any other telecommunications carrier authorized to provide local telephone service in Pennsylvania may obtain the interconnection, unbundling and resale arrangements specified in the Agreement on the same terms and conditions. Nonetheless, other carriers are not bound by the Agreement and remain free to negotiate independently with Verizon PA pursuant to Section 252 of the 1996 Act.

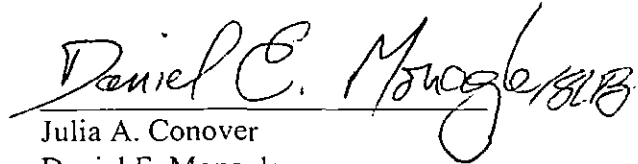
8. Second, the Agreement is consistent with the public interest, convenience, and necessity, as required by Section 252(e)(2)(a)(ii). It is an important step towards allowing DSLnet to compete with Verizon PA as a facilities-based local telephone service carrier for both residential and business customers. The Agreement will also be available to all local exchange competitors under Section 252(i) of the 1996 Act.

APPROVAL OF THE AGREEMENT

9. The parties respectfully request that the Commission expedite its review of the Agreement to facilitate implementation of competition in the local exchange market. Although under Section 252(e)(4) of the 1996 Act, the Commission has 90 days to approve or reject the Agreement, the parties request that the Commission act sooner than that date if at all possible.

WHEREFORE, Verizon PA and DSLnet respectfully request that the Commission approve the attached interconnection agreement pursuant to Section 252(e) of the 1996 Act.

Respectfully submitted,



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DSLnet Communications LLC

DATED: April 14, 2003

A- 310824 F7000

AMENDED, EXTENDED AND RESTATED AGREEMENT

by and between

DSLNET COMMUNICATIONS, LLC

and

VERIZON PENNSYLVANIA INC.

FOR THE COMMONWEALTH OF

PENNSYLVANIA

DOCKETED

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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AMENDED, EXTENDED AND RESTATED AGREEMENT

PREFACE

This Amended, Extended and Restated Agreement ("Agreement") shall be deemed effective as of March 26, 2003 (the "Effective Date"), between DSLnet Communications, LLC ("DSLnet"), a Limited Liability Company organized under the laws of the State of Delaware, with offices at 545 Long Wharf Drive, 5th Floor, New Haven, CT 06511 and Verizon Pennsylvania Inc. ("Verizon"), a corporation organized under the laws of the Commonwealth of Pennsylvania with offices at 1717 Arch Street, Philadelphia, PA 19103 (Verizon and DSLnet may be referred to hereinafter, each, individually as a "Party", and, collectively, as the "Parties").

GENERAL TERMS AND CONDITIONS

In consideration of the mutual promises contained in this Agreement, and intending to be legally bound, pursuant to Section 252 of the Act, Verizon and DSLnet hereby agree as follows:

1. The Agreement

- 1.1 This Agreement includes: (a) the Principal Document; (b) the Tariffs of each Party applicable to the Services that are offered for sale by it in the Principal Document (which Tariffs are incorporated into and made a part of this Agreement by reference); and, (c) an Order by a Party that has been accepted by the other Party.
- 1.2 Except as otherwise expressly provided in the Principal Document (including, but not limited to, the Pricing Attachment), conflicts among provisions in the Principal Document, Tariffs, and an Order by a Party that has been accepted by the other Party, shall be resolved in accordance with the following order of precedence, where the document identified in subsection "(a)" shall have the highest precedence: (a) the Principal Document; (b) the Tariffs; and, (c) an Order by a Party that has been accepted by the other Party. The fact that a provision appears in the Principal Document but not in a Tariff, or in a Tariff but not in the Principal Document, shall not be interpreted as, or deemed grounds for finding, a conflict for the purposes of this Section 1.2.
- 1.3 This Agreement constitutes the entire agreement between the Parties on the subject matter hereof, and supersedes any prior or contemporaneous agreement, understanding, or representation, on the subject matter hereof, provided, however, notwithstanding any other provision of this Agreement or otherwise, this Agreement is an amendment, extension and restatement of the Parties' prior interconnection and resale agreement(s), if any, and, as such, this Agreement is not intended to be, nor shall it be construed to create, a novation or accord and satisfaction with respect to any prior interconnection or resale agreements and, accordingly, all monetary obligations of the Parties to one another under any prior interconnection or resale agreements shall remain in full force and effect and shall constitute monetary obligations of the Parties under this Agreement (provided, however, that nothing contained in this Agreement shall convert any claim or debt that would otherwise constitute a prepetition claim or debt in a bankruptcy case into a postpetition claim or debt). In connection with the foregoing, Verizon expressly reserves all of its rights under the Bankruptcy Code and Applicable Law to seek or oppose any relief in respect of the assumption, assumption and assignment, or rejection of any interconnection or resale agreements between Verizon and DSLnet.

- 1.4 Except as otherwise provisioned in the Principal Document, the Principal Document may not be waived or modified except by a written document that is signed by the Parties. Subject to the requirements of Applicable Law, a Party shall have the right to add, modify, or withdraw, its Tariff(s) at any time, without the consent of, or notice to, the other Party.

2. Term and Termination

- 2.1 This Agreement shall be effective as of the Effective Date and, unless cancelled or terminated earlier in accordance with the terms hereof, shall continue in effect until March 25, 2005 (the "Initial Term"). Thereafter, this Agreement shall continue in force and effect unless and until cancelled or terminated as provided in this Agreement.
- 2.2 Either DSLnet or Verizon may terminate this Agreement effective upon the expiration of the Initial Term or effective upon any date after expiration of the Initial Term by providing written notice of termination at least ninety (90) days in advance of the date of termination.
- 2.3 If either DSLnet or Verizon provides notice of termination pursuant to Section 2.2 and on or before the proposed date of termination either DSLnet or Verizon has requested negotiation of a new interconnection agreement, unless this Agreement is cancelled or terminated earlier in accordance with the terms hereof (including, but not limited to, pursuant to Section 12), this Agreement shall remain in effect until the earlier of: (a) the effective date of a new interconnection agreement between DSLnet and Verizon; or, (b) the date one (1) year after the proposed date of termination.
- 2.4 If either DSLnet or Verizon provides notice of termination pursuant to Section 2.2 and by 11:59 PM Eastern Time on the proposed date of termination neither DSLnet nor Verizon has requested negotiation of a new interconnection agreement, (a) this Agreement will terminate at 11:59 PM Eastern Time on the proposed date of termination, and (b) the Services being provided under this Agreement at the time of termination will be terminated, except to the extent that the Purchasing Party has requested that such Services continue to be provided pursuant to an applicable Tariff or Statement of Generally Available Terms (SGAT).

3. Glossary and Attachments

The Glossary and the following Attachments are a part of this Agreement:

Additional Services Attachment
Interconnection Attachment
Resale Attachment
Network Elements Attachment
Collocation Attachment
911 Attachment
Pricing Attachment

4. Applicable Law

- 4.1 The construction, interpretation and performance of this Agreement shall be governed by (a) the laws of the United States of America and (b) the laws of the

Commonwealth of Pennsylvania, without regard to its conflicts of laws rules. All disputes relating to this Agreement shall be resolved through the application of such laws.

- 4.2 Each Party shall remain in compliance with Applicable Law in the course of performing this Agreement.
- 4.3 Neither Party shall be liable for any delay or failure in performance by it that results from requirements of Applicable Law, or acts or failures to act of any governmental entity or official.
- 4.4 Each Party shall promptly notify the other Party in writing of any governmental action that limits, suspends, cancels, withdraws, or otherwise materially affects, the notifying Party's ability to perform its obligations under this Agreement.
- 4.5 If any provision of this Agreement shall be invalid or unenforceable under Applicable Law, such invalidity or unenforceability shall not invalidate or render unenforceable any other provision of this Agreement, and this Agreement shall be construed as if it did not contain such invalid or unenforceable provision; provided, that if the invalid or unenforceable provision is a material provision of this Agreement, or the invalidity or unenforceability materially affects the rights or obligations of a Party hereunder or the ability of a Party to perform any material provision of this Agreement, the Parties shall promptly renegotiate in good faith and amend in writing this Agreement in order to make such mutually acceptable revisions to this Agreement as may be required in order to conform the Agreement to Applicable Law.
- 4.6 If any legislative, regulatory, judicial or other governmental decision, order, determination or action, or any change in Applicable Law, materially affects any material provision of this Agreement, the rights or obligations of a Party hereunder, or the ability of a Party to perform any material provision of this Agreement, the Parties shall promptly renegotiate in good faith and amend in writing this Agreement in order to make such mutually acceptable revisions to this Agreement as may be required in order to conform the Agreement to Applicable Law. If within thirty (30) days of the effective date of such decision, determination, action or change, the Parties are unable to agree in writing upon mutually acceptable revisions to this Agreement, either Party may pursue any remedies available to it under this Agreement, at law, in equity, or otherwise, including, but not limited to, instituting an appropriate proceeding before the Commission, the FCC, or a court of competent jurisdiction, without first pursuing dispute resolution in accordance with Section 14 of this Agreement.
- 4.7 Notwithstanding anything in this Agreement to the contrary, if, as a result of any legislative, judicial, regulatory or other governmental decision, order, determination or action, or any change in Applicable Law, Verizon is not required by Applicable Law to provide any Service, payment or benefit, otherwise required to be provided to DSLnet hereunder, then Verizon may discontinue the provision of any such Service, payment or benefit, and DSLnet shall reimburse Verizon for any payment previously made by Verizon to DSLnet that was not required by Applicable Law. Verizon will provide thirty (30) days prior written notice to DSLnet of any such discontinuance of a Service, unless a different notice period or different conditions are specified in this Agreement (including, but not limited to, in an applicable Tariff) or Applicable Law for termination of such Service in which event such specified period and/or conditions shall apply.

5. Assignment

Neither Party may assign this Agreement or any right or interest under this Agreement, nor delegate any obligation under this Agreement, without the prior written consent of the other Party, which consent shall not be unreasonably withheld, conditioned or delayed. Any attempted assignment or delegation in violation of this Section 5 shall be void and ineffective and constitute default of this Agreement.

6. Assurance of Payment

- 6.1 Upon request by Verizon, DSLnet shall, at any time and from time to time, provide to Verizon adequate assurance of payment of amounts due (or to become due) to Verizon hereunder.
- 6.2 Assurance of payment of charges may be requested by Verizon if DSLnet (a) prior to the Effective Date, has failed to timely pay a bill rendered to DSLnet by Verizon or its Affiliates, (b) on or after the Effective Date, fails to timely pay a bill rendered to DSLnet by Verizon or its Affiliates, (c) in Verizon's reasonable judgment, at the Effective Date or at any time thereafter, is unable to demonstrate that it is creditworthy, or (d) admits its inability to pay its debts as such debts become due, has commenced a voluntary case (or has had a case commenced against it) under the U.S. Bankruptcy Code or any other law relating to bankruptcy, insolvency, reorganization, winding-up, composition or adjustment of debts or the like, has made an assignment for the benefit of creditors or is subject to a receivership or similar proceeding.
- 6.3 Unless otherwise agreed by the Parties, the assurance of payment shall consist of an unconditional, irrevocable standby letter of credit naming Verizon as the beneficiary thereof and otherwise in form and substance satisfactory to Verizon from a financial institution acceptable to Verizon. The letter of credit shall be in an amount equal to two (2) months anticipated charges (including, but not limited to, both recurring and non-recurring charges), as reasonably determined by Verizon, for the Services to be provided by Verizon to DSLnet in connection with this Agreement. If DSLnet meets the condition in subsection 6.2(d) above or has failed to timely pay two or more bills rendered by Verizon or a Verizon Affiliate in any twelve (12)-month period, Verizon may, at its option, demand (and DSLnet shall provide) additional assurance of payment, consisting of monthly advanced payments of estimated charges as reasonably determined by Verizon, with appropriate true-up against actual billed charges no more frequently than once per calendar quarter.
- 6.4 [Intentionally Left Blank].
- 6.5 [Intentionally Left Blank].
- 6.6 Verizon may (but is not obligated to) draw on the letter of credit upon notice to DSLnet in respect of any amounts to be paid by DSLnet hereunder that are not paid within thirty (30) days of the date that payment of such amounts is required by this Agreement.
- 6.7 If Verizon draws on the letter of credit, upon request by Verizon, DSLnet shall provide a replacement or supplemental letter of credit conforming to the requirements of Section 6.3.
- 6.8 Notwithstanding anything else set forth in this Agreement, if Verizon makes a request for assurance of payment in accordance with the terms of this Section, then Verizon shall have no obligation thereafter to perform under this Agreement until such time as DSLnet has provided Verizon with such assurance of payment.

6.9 The fact that a letter of credit is requested by Verizon hereunder shall in no way relieve DSLnet from compliance with the requirements of this Agreement (including, but not limited to, any applicable Tariffs) as to advance payments and payment for Services, nor constitute a waiver or modification of the terms herein pertaining to the discontinuance of Services for nonpayment of any amounts payment of which is required by this Agreement.

7. Audits

7.1 Except as may be otherwise specifically provided in this Agreement, either Party ("Auditing Party") may audit the other Party's ("Audited Party") books, records, documents, facilities and systems for the purpose of evaluating the accuracy of the Audited Party's bills. Such audits may be performed once in each Calendar Year; provided, however, that audits may be conducted more frequently (but no more frequently than once in each Calendar Quarter) if the immediately preceding audit found previously uncorrected net inaccuracies in billing in favor of the Audited Party having an aggregate value of at least \$1,000,000.

7.2 The audit shall be performed by independent certified public accountants selected and paid by the Auditing Party. The accountants shall be reasonably acceptable to the Audited Party. Prior to commencing the audit, the accountants shall execute an agreement with the Audited Party in a form reasonably acceptable to the Audited Party that protects the confidentiality of the information disclosed by the Audited Party to the accountants. The audit shall take place at a time and place agreed upon by the Parties; provided, that the Auditing Party may require that the audit commence no later than sixty (60) days after the Auditing Party has given notice of the audit to the Audited Party.

7.3 Each Party shall cooperate fully in any such audit, providing reasonable access to any and all employees, books, records, documents, facilities and systems, reasonably necessary to assess the accuracy of the Audited Party's bills.

7.4 Audits shall be performed at the Auditing Party's expense, provided that there shall be no charge for reasonable access to the Audited Party's employees, books, records, documents, facilities and systems necessary to assess the accuracy of the Audited Party's bills.

8. Authorization

8.1 Verizon represents and warrants that it is a corporation duly organized, validly existing and in good standing under the laws of the Commonwealth of Pennsylvania and has full power and authority to execute and deliver this Agreement and to perform its obligations under this Agreement.

8.2 DSLnet represents and warrants that it is a Limited Liability Company duly organized, validly existing and in good standing under the laws of the State of Delaware, and has full power and authority to execute and deliver this Agreement and to perform its obligations under this Agreement.

8.3 DSLnet Certification.

Notwithstanding any other provision of this Agreement, Verizon shall have no obligation to perform under this Agreement until such time as DSLnet has obtained such FCC and Commission authorization as may be required by Applicable Law for conducting business in Pennsylvania. DSLnet shall not place any orders under this Agreement until it has obtained such authorization. DSLnet shall provide proof of such authorization to Verizon upon request.

9. Billing and Payment; Disputed Amounts

- 9.1 Except as otherwise provided in this Agreement, each Party shall submit to the other Party on a monthly basis in an itemized form, statement(s) of charges incurred by the other Party under this Agreement.
- 9.2 Except as otherwise provided in this Agreement, payment of amounts billed for Services provided under this Agreement, whether billed on a monthly basis or as otherwise provided in this Agreement, shall be due, in immediately available U.S. funds, on the later of the following dates (the "Due Date"): (a) the due date specified on the billing Party's statement; or (b) twenty (20) days after the date the statement is received by the billed Party. Payments shall be transmitted by electronic funds transfer.
- 9.3 If any portion of an amount billed by a Party under this Agreement is subject to a good faith dispute between the Parties, the billed Party shall give notice to the billing Party of the amounts it disputes ("Disputed Amounts") and include in such notice the specific details and reasons for disputing each item. A Party may also dispute prospectively with a single notice a class of charges that it disputes. Notice of a dispute may be given by a Party at any time, either before or after an amount is paid, and a Party's payment of an amount shall not constitute a waiver of such Party's right to subsequently dispute its obligation to pay such amount or to seek a refund of any amount paid. The billed Party shall pay by the Due Date all undisputed amounts. Billing disputes shall be subject to the terms of Section 14, Dispute Resolution.
- 9.4 Charges due to the billing Party that are not paid by the Due Date, shall be subject to a late payment charge. The late payment charge shall be in an amount specified by the billing Party which shall not exceed a rate of one-and-one-half percent (1.5%) of the overdue amount (including any unpaid previously billed late payment charges) per month.
- 9.5 Although it is the intent of both Parties to submit timely statements of charges, failure by either Party to present statements to the other Party in a timely manner shall not constitute a breach or default, or a waiver of the right to payment of the incurred charges, by the billing Party under this Agreement, and, except for assertion of a provision of Applicable Law that limits the period in which a suit or other proceeding can be brought before a court or other governmental entity of appropriate jurisdiction to collect amounts due, the billed Party shall not be entitled to dispute the billing Party's statement(s) based on the billing Party's failure to submit them in a timely fashion.

10. Confidentiality

- 10.1 As used in this Section 10, "Confidential Information" means the following information that is disclosed by one Party ("Disclosing Party") to the other Party ("Receiving Party") in connection with, or anticipation of, this Agreement:
- 10.1.1 Books, records, documents and other information disclosed in an audit pursuant to Section 7;
- 10.1.2 Any forecasting information provided pursuant to this Agreement;
- 10.1.3 Customer Information (except to the extent that (a) the Customer information is published in a directory, (b) the Customer information is disclosed through or in the course of furnishing a Telecommunications Service, such as a Directory Assistance Service, Operator Service,

Caller ID or similar service, or LIDB service, or (c) the Customer to whom the Customer Information is related has authorized the Receiving Party to use and/or disclose the Customer Information);

- 10.1.4 information related to specific facilities or equipment (including, but not limited to, cable and pair information);
- 10.1.5 any information that is in written, graphic, electromagnetic, or other tangible form, and marked at the time of disclosure as "Confidential" or "Proprietary;" and
- 10.1.6 any information that is communicated orally or visually and declared to the Receiving Party at the time of disclosure, and by written notice with a statement of the information given to the Receiving Party within ten (10) days after disclosure, to be "Confidential or "Proprietary".

Notwithstanding any other provision of this Agreement, a Party shall have the right to refuse to accept receipt of information which the other Party has identified as Confidential Information pursuant to Sections 10.1.5 or 10.1.6.

10.2 Except as otherwise provided in this Agreement, the Receiving Party shall:

10.2.1 use the Confidential Information received from the Disclosing Party only in performance of this Agreement; and

10.2.2 using the same degree of care that it uses with similar confidential information of its own (but in no case a degree of care that is less than commercially reasonable), hold Confidential Information received from the Disclosing Party in confidence and restrict disclosure of the Confidential Information solely to those of the Receiving Party's Affiliates and the directors, officers, employees, Agents and contractors of the Receiving Party and the Receiving Party's Affiliates, that have a need to receive such Confidential Information in order to perform the Receiving Party's obligations under this Agreement. The Receiving Party's Affiliates and the directors, officers, employees, Agents and contractors of the Receiving Party and the Receiving Party's Affiliates, shall be required by the Receiving Party to comply with the provisions of this Section 10 in the same manner as the Receiving Party. The Receiving Party shall be liable for any failure of the Receiving Party's Affiliates or the directors, officers, employees, Agents or contractors of the Receiving Party or the Receiving Party's Affiliates, to comply with the provisions of this Section 10.

10.3 The Receiving Party shall return or destroy all Confidential Information received from the Disclosing Party, including any copies made by the Receiving Party, within thirty (30) days after a written request by the Disclosing Party is delivered to the Receiving Party, except for (a) Confidential Information that the Receiving Party reasonably requires to perform its obligations under this Agreement, and (b) one copy for archival purposes only.

10.4 Unless otherwise agreed, the obligations of Sections 10.2 and 10.3 do not apply to information that:

10.4.1 was, at the time of receipt, already in the possession of or known to the Receiving Party free of any obligation of confidentiality and restriction on use;

10.4.2 is or becomes publicly available or known through no wrongful act of the Receiving Party, the Receiving Party's Affiliates, or the directors, officers, employees, Agents or contractors of the Receiving Party or the Receiving Party's Affiliates;

10.4.3 is rightfully received from a third person having no direct or indirect obligation of confidentiality or restriction on use to the Disclosing Party with respect to such information;

10.4.4 is independently developed by the Receiving Party;

10.4.5 is approved for disclosure or use by written authorization of the Disclosing Party (including, but not limited to, in this Agreement); or

10.4.6 is required to be disclosed by the Receiving Party pursuant to Applicable Law, provided that the Receiving Party shall have made commercially reasonable efforts to give adequate notice of the requirement to the Disclosing Party in order to enable the Disclosing Party to seek protective arrangements.

10.5 Notwithstanding the provisions of Sections 10.1 through 10.4, the Receiving Party may use and disclose Confidential Information received from the Disclosing Party to the extent necessary to enforce the Receiving Party's rights under this Agreement or Applicable Law. In making any such disclosure, the Receiving Party shall make reasonable efforts to preserve the confidentiality and restrict the use of the Confidential Information while it is in the possession of any person to whom it is disclosed, including, but not limited to, by requesting any governmental entity to whom the Confidential Information is disclosed to treat it as confidential and restrict its use to purposes related to the proceeding pending before it.

10.6 The Disclosing Party shall retain all of the Disclosing Party's right, title and interest in any Confidential Information disclosed by the Disclosing Party to the Receiving Party. Except as otherwise expressly provided in this Agreement, no license is granted by this Agreement with respect to any Confidential Information (including, but not limited to, under any patent, trademark or copyright), nor is any such license to be implied solely by virtue of the disclosure of Confidential Information.

10.7 The provisions of this Section 10 shall be in addition to and not in derogation of any provisions of Applicable Law, including, but not limited to, 47 U.S.C. § 222, and are not intended to constitute a waiver by a Party of any right with regard to the use, or protection of the confidentiality of, CPNI provided by Applicable Law.

10.8 Each Party's obligations under this Section 10 shall survive expiration, cancellation or termination of this Agreement.

11. Counterparts

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument.

12. Default

If either Party ("Defaulting Party") fails to make a payment required by this Agreement (including, but not limited to, any payment required by Section 9.3 of undisputed amounts

to the billing Party) or materially breaches any other material provision of this Agreement, and such failure or breach continues for thirty (30) days after written notice thereof from the other Party, the other Party may, by written notice to the Defaulting Party, (a) suspend the provision of any or all Services hereunder, or (b) cancel this Agreement and terminate the provision of all Services hereunder.

13. Discontinuance of Service by DSLnet

- 13.1 If DSLnet proposes to discontinue, or actually discontinues, its provision of service to all or substantially all of its Customers, whether voluntarily, as a result of bankruptcy, or for any other reason, DSLnet shall send written notice of such discontinuance to Verizon, the Commission, and each of DSLnet's Customers. DSLnet shall provide such notice such number of days in advance of discontinuance of its service as shall be required by Applicable Law. Unless the period for advance notice of discontinuance of service required by Applicable Law is more than thirty (30) days, to the extent commercially feasible, DSLnet shall send such notice at least thirty (30) days prior to its discontinuance of service.
- 13.2 Such notice must advise each DSLnet Customer that unless action is taken by the DSLnet Customer to switch to a different carrier prior to DSLnet's proposed discontinuance of service, the DSLnet Customer will be without the service provided by DSLnet to the DSLnet Customer.
- 13.3 Should a DSLnet Customer subsequently become a Verizon Customer, DSLnet shall provide Verizon with all information necessary for Verizon to establish service for the DSLnet Customer, including, but not limited to, the DSLnet Customer's billed name, listed name, service address, and billing address, and the services being provided to the DSLnet Customer.
- 13.4 Nothing in this Section 13 shall limit Verizon's right to cancel or terminate this Agreement or suspend provision of Services under this Agreement.

14. Dispute Resolution

- 14.1 Except as otherwise provided in this Agreement, any dispute between the Parties regarding the interpretation or enforcement of this Agreement or any of its terms shall be addressed by good faith negotiation between the Parties. To initiate such negotiation, a Party must provide to the other Party written notice of the dispute that includes both a detailed description of the dispute or alleged nonperformance and the name of an individual who will serve as the initiating Party's representative in the negotiation. The other Party shall have ten Business Days to designate its own representative in the negotiation. The Parties' representatives shall meet at least once within 45 days after the date of the initiating Party's written notice in an attempt to reach a good faith resolution of the dispute. Upon agreement, the Parties' representatives may utilize other alternative dispute resolution procedures such as private mediation to assist in the negotiations.
- 14.2 If the Parties have been unable to resolve the dispute within 45 days of the date of the initiating Party's written notice, either Party may pursue any remedies available to it under this Agreement, at law, in equity, or otherwise, including, but not limited to, instituting an appropriate proceeding before the Commission, the FCC, or a court of competent jurisdiction.

15. Force Majeure

- 15.1 Neither Party shall be responsible for any delay or failure in performance which results from causes beyond its reasonable control ("Force Majeure Events"), whether or not foreseeable by such Party. Such Force Majeure Events include, but are not limited to, adverse weather conditions, flood, fire, explosion, earthquake, volcanic action, power failure, embargo, boycott, war, revolution, civil commotion, act of public enemies, labor unrest (including, but not limited to, strikes, work stoppages, slowdowns, picketing or boycotts), inability to obtain equipment, parts, software or repairs thereof, acts or omissions of the other Party, and acts of God.
- 15.2 If a Force Majeure Event occurs, the non-performing Party shall give prompt notification of its inability to perform to the other Party. During the period that the non-performing Party is unable to perform, the other Party shall also be excused from performance of its obligations to the extent such obligations are reciprocal to, or depend upon, the performance of the non-performing Party that has been prevented by the Force Majeure Event. The non-performing Party shall use commercially reasonable efforts to avoid or remove the cause(s) of its non-performance and both Parties shall proceed to perform once the cause(s) are removed or cease.
- 15.3 Notwithstanding the provisions of Sections 15.1 and 15.2, in no case shall a Force Majeure Event excuse either Party from an obligation to pay money as required by this Agreement.
- 15.4 Nothing in this Agreement shall require the non-performing Party to settle any labor dispute except as the non-performing Party, in its sole discretion, determines appropriate.

16. Forecasts

In addition to any other forecasts required by this Agreement, upon request by Verizon, DSLnet shall provide to Verizon forecasts regarding the Services that DSLnet expects to purchase from Verizon, including, but not limited to, forecasts regarding the types and volumes of Services that DSLnet expects to purchase and the locations where such Services will be purchased.

17. Fraud

DSLnet assumes responsibility for all fraud associated with its Customers and accounts. Verizon shall bear no responsibility for, and shall have no obligation to investigate or make adjustments to DSLnet's account in cases of, fraud by DSLnet's Customers or other third parties.

18. Good Faith Performance

The Parties shall act in good faith in their performance of this Agreement. Except as otherwise expressly stated in this Agreement (including, but not limited to, where consent, approval, agreement or a similar action is stated to be within a Party's sole discretion), where consent, approval, mutual agreement or a similar action is required by any provision of this Agreement, such action shall not be unreasonably withheld, conditioned or delayed. If and, to the extent that, Verizon, prior to the Effective Date of this Agreement, has not provided in the Commonwealth of Pennsylvania a service or arrangement offered under this Agreement, Verizon reserves the right to negotiate in good faith with DSLnet reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such service or arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and

implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.

19. Headings

The headings used in the Principal Document are inserted for convenience of reference only and are not intended to be a part of or to affect the meaning of the Principal Document.

20. Indemnification

20.1 Each Party ("Indemnifying Party") shall indemnify, defend and hold harmless the other Party ("Indemnified Party"), the Indemnified Party's Affiliates, and the directors, officers and employees of the Indemnified Party and the Indemnified Party's Affiliates, from and against any and all Claims that arise out of bodily injury to or death of any person, or damage to, or destruction or loss of, tangible real and/or personal property of any person, to the extent such injury, death, damage, destruction or loss, was proximately caused by the grossly negligent or intentionally wrongful acts or omissions of the Indemnifying Party, the Indemnifying Party's Affiliates, or the directors, officers, employees, Agents or contractors (excluding the Indemnified Party) of the Indemnifying Party or the Indemnifying Party's Affiliates, in connection with this Agreement.

20.2 Indemnification Process.

20.2.1 As used in this Section 20, "Indemnified Person" means a person whom an Indemnifying Party is obligated to indemnify, defend and/or hold harmless under Section 20.1.

20.2.2 An Indemnifying Party's obligations under Section 20.1 shall be conditioned upon the following:

20.2.3 The Indemnified Person: (a) shall give the Indemnifying Party notice of the Claim promptly after becoming aware thereof (including a statement of facts known to the Indemnified Person related to the Claim and an estimate of the amount thereof); (b) prior to taking any material action with respect to a Third Party Claim, shall consult with the Indemnifying Party as to the procedure to be followed in defending, settling, or compromising the Claim; (c) shall not consent to any settlement or compromise of a Third Party Claim without the written consent of the Indemnifying Party; (d) shall permit the Indemnifying Party to assume the defense of a Third Party Claim (including, except as provided below, the compromise or settlement thereof) at the Indemnifying Party's own cost and expense, provided, however, that the Indemnified Person shall have the right to approve the Indemnifying Party's choice of legal counsel.

20.2.4 If the Indemnified Person fails to comply with Section 20.2.3 with respect to a Claim, to the extent such failure shall have a material adverse effect upon the Indemnifying Party, the Indemnifying Party shall be relieved of its obligation to indemnify, defend and hold harmless the Indemnified Person with respect to such Claim under this Agreement.

20.2.5 Subject to 20.2.6 and 20.2.7, below, the Indemnifying Party shall have the authority to defend and settle any Third Party Claim.

- 20.2.6 With respect to any Third Party Claim, the Indemnified Person shall be entitled to participate with the Indemnifying Party in the defense of the Claim if the Claim requests equitable relief or other relief that could affect the rights of the Indemnified Person. In so participating, the Indemnified Person shall be entitled to employ separate counsel for the defense at the Indemnified Person's expense. The Indemnified Person shall also be entitled to participate, at its own expense, in the defense of any Claim, as to any portion of the Claim as to which it is not entitled to be indemnified, defended and held harmless by the Indemnifying Party.
- 20.2.7 In no event shall the Indemnifying Party settle a Third Party Claim or consent to any judgment with regard to a Third Party Claim without the prior written consent of the Indemnified Party, which shall not be unreasonably withheld, conditioned or delayed. In the event the settlement or judgment requires a contribution from or affects the rights of an Indemnified Person, the Indemnified Person shall have the right to refuse such settlement or judgment with respect to itself and, at its own cost and expense, take over the defense against the Third Party Claim, provided that in such event the Indemnifying Party shall not be responsible for, nor shall it be obligated to indemnify or hold harmless the Indemnified Person against, the Third Party Claim for any amount in excess of such refused settlement or judgment.
- 20.2.8 The Indemnified Person shall, in all cases, assert any and all provisions in applicable Tariffs and Customer contracts that limit liability to third persons as a bar to, or limitation on, any recovery by a third-person claimant.
- 20.2.9 The Indemnifying Party and the Indemnified Person shall offer each other all reasonable cooperation and assistance in the defense of any Third Party Claim.
- 20.3 Each Party agrees that it will not implead or bring any action against the other Party, the other Party's Affiliates, or any of the directors, officers or employees of the other Party or the other Party's Affiliates, based on any claim by any person for personal injury or death that occurs in the course or scope of employment of such person by the other Party or the other Party's Affiliate and that arises out of performance of this Agreement.
- 20.4 Each Party's obligations under this Section 20 shall survive expiration, cancellation or termination of this Agreement.

21. Insurance

- 21.1 DSLnet shall maintain during the term of this Agreement and for a period of two years thereafter all insurance and/or bonds required to satisfy its obligations under this Agreement (including, but not limited to, its obligations set forth in Section 20 hereof) and all insurance and/or bonds required by Applicable Law. The insurance and/or bonds shall be obtained from an insurer having an A.M. Best insurance rating of at least A-, financial size category VII or greater. At a minimum and without limiting the foregoing undertaking, DSLnet shall maintain the following insurance:
- 21.1.1 Commercial General Liability Insurance, on an occurrence basis, including but not limited to, premises-operations, broad form property damage, products/completed operations, contractual liability,

independent contractors, and personal injury, with limits of at least \$2,000,000 combined single limit for each occurrence.

- 21.1.2 Commercial Motor Vehicle Liability Insurance covering all owned, hired and non-owned vehicles, with limits of at least \$2,000,000 combined single limit for each occurrence.
- 21.1.3 Excess Liability Insurance, in the umbrella form, with limits of at least \$10,000,000 combined single limit for each occurrence.
- 21.1.4 Worker's Compensation Insurance as required by Applicable Law and Employer's Liability Insurance with limits of not less than \$2,000,000 per occurrence.
- 21.1.5 All risk property insurance on a full replacement cost basis for all of DSLnet's real and personal property located at any Collocation site or otherwise located on or in any Verizon premises (whether owned, leased or otherwise occupied by Verizon), facility, equipment or right-of-way.
- 21.2 Any deductibles, self-insured retentions or loss limits ("Retentions") for the foregoing insurance must be disclosed on the certificates of insurance to be provided to Verizon pursuant to Sections 21.4 and 21.5, and Verizon reserves the right to reject any such Retentions in its reasonable discretion. All Retentions shall be the responsibility of DSLnet.
- 21.3 DSLnet shall name Verizon and Verizon's Affiliates as additional insureds on the foregoing liability insurance.
- 21.4 DSLnet shall, within two (2) weeks of the Effective Date hereof at the time of each renewal of, or material change in, DSLnet's insurance policies, and at such other times as Verizon may reasonably specify, furnish certificates or other proof of the foregoing insurance reasonably acceptable to Verizon. The certificates or other proof of the foregoing insurance shall be sent to: Director - Contract Performance & Administration, Verizon Wholesale Markets, 600 Hidden Ridge, HQEWMNOTICES, Irving, TX 75038.
- 21.5 DSLnet shall require its contractors, if any, that may enter upon the premises or access the facilities or equipment of Verizon or Verizon's affiliates to maintain insurance in accordance with Sections 21.1 through 21.3 and, if requested, to furnish Verizon certificates or other adequate proof of such insurance acceptable to Verizon in accordance with Section 21.4.
- 21.6 If DSLnet or DSLnet's contractors fail to maintain insurance as required in Sections 21.1 through 21.5, above, Verizon may (but shall not be obligated to) purchase such insurance and DSLnet shall reimburse Verizon for the cost of the insurance.
- 21.7 Certificates furnished by DSLnet or DSLnet's contractors shall contain a clause stating: "Verizon Pennsylvania Inc. shall be notified in writing at least thirty (30) days prior to cancellation of, or any material change in, the insurance."

22. Intellectual Property

- 22.1 Except as expressly stated in this Agreement, this Agreement shall not be construed as granting a license with respect to any patent, copyright, trade name, trademark, service mark, trade secret or any other intellectual property,

now or hereafter owned, controlled or licensable by either Party. Except as expressly stated in this Agreement, neither Party may use any patent, copyrightable materials, trademark, trade name, trade secret or other intellectual property right, of the other Party except in accordance with the terms of a separate license agreement between the Parties granting such rights.

22.2 Except as stated in Section 22.4, neither Party shall have any obligation to defend, indemnify or hold harmless, or acquire any license or right for the benefit of, or owe any other obligation or have any liability to, the other Party or its Affiliates or Customers based on or arising from any Third Party Claim alleging or asserting that the provision or use of any service, facility, arrangement, or software by either Party under this Agreement, or the performance of any service or method, either alone or in combination with the other Party, constitutes direct, vicarious or contributory infringement or inducement to infringe, or misuse or misappropriation of any patent, copyright, trademark, trade secret, or any other proprietary or intellectual property right of any Party or third person. Each Party, however, shall offer to the other reasonable cooperation and assistance in the defense of any such claim.

22.3 NOTWITHSTANDING ANY OTHER PROVISION OF THIS AGREEMENT, THE PARTIES AGREE THAT NEITHER PARTY HAS MADE, AND THAT THERE DOES NOT EXIST, ANY WARRANTY, EXPRESS OR IMPLIED, THAT THE USE BY EACH PARTY OF THE OTHER'S SERVICES PROVIDED UNDER THIS AGREEMENT SHALL NOT GIVE RISE TO A CLAIM OF INFRINGEMENT, MISUSE, OR MISAPPROPRIATION OF ANY INTELLECTUAL PROPERTY RIGHT.

22.4 DSLnet agrees that the Services provided by Verizon hereunder shall be subject to the terms, conditions and restrictions contained in any applicable agreements (including, but not limited to software or other intellectual property license agreements) between Verizon and Verizon's vendors. Verizon agrees to advise DSLnet, directly or through a third party, of any such terms, conditions or restrictions that may limit any DSLnet use of a Service provided by Verizon that is otherwise permitted by this Agreement. At DSLnet's written request, to the extent required by Applicable Law, Verizon will use Verizon's best efforts, as commercially practicable, to obtain intellectual property rights from Verizon's vendor to allow DSLnet to use the Service in the same manner as Verizon that are coextensive with Verizon's intellectual property rights, on terms and conditions that are equal in quality to the terms and conditions under which Verizon has obtained Verizon's intellectual property rights. DSLnet shall reimburse Verizon for the cost of obtaining such rights.

23. Joint Work Product

The Principal Document is the joint work product of the Parties, has been negotiated by the Parties, and shall be fairly interpreted in accordance with its terms. In the event of any ambiguities, no inferences shall be drawn against either Party.

24. Law Enforcement

24.1 Each Party may cooperate with law enforcement authorities and national security authorities to the full extent required or permitted by Applicable Law in matters related to Services provided by it under this Agreement, including, but not limited to, the production of records, the establishment of new lines or the installation of new services on an existing line in order to support law enforcement and/or national security operations, and, the installation of wiretaps, trap-and-trace facilities and equipment, and dialed number recording facilities and equipment.

- 24.2 A Party shall not have the obligation to inform the other Party or the Customers of the other Party of actions taken in cooperating with law enforcement or national security authorities, except to the extent required by Applicable Law.
- 24.3 Where a law enforcement or national security request relates to the establishment of lines (including, but not limited to, lines established to support interception of communications on other lines), or the installation of other services, facilities or arrangements, a Party may act to prevent the other Party from obtaining access to information concerning such lines, services, facilities and arrangements, through operations support system interfaces.

25. Liability

- 25.1 As used in this Section 25, "Service Failure" means a failure to comply with a direction to install, restore or terminate Services under this Agreement, a failure to provide Services under this Agreement, and failures, mistakes, omissions, interruptions, delays, errors, defects or the like, occurring in the course of the provision of any Services under this Agreement.
- 25.2 Except as otherwise stated in Section 25.5, the liability, if any, of a Party, a Party's Affiliates, and the directors, officers and employees of a Party and a Party's Affiliates, to the other Party, the other Party's Customers, and to any other person, for Claims arising out of a Service Failure shall not exceed an amount equal to the pro rata applicable monthly charge for the Services that are subject to the Service Failure for the period in which such Service Failure occurs.
- 25.3 Except as otherwise stated in Section 25.5, a Party, a Party's Affiliates, and the directors, officers and employees of a Party and a Party's Affiliates, shall not be liable to the other Party, the other Party's Customers, or to any other person, in connection with this Agreement (including, but not limited to, in connection with a Service Failure or any breach, delay or failure in performance, of this Agreement) for special, indirect, incidental, consequential, reliance, exemplary, punitive, or like damages, including, but not limited to, damages for lost revenues, profits or savings, or other commercial or economic loss, even if the person whose liability is excluded by this Section has been advised of the possibility of such damages.
- 25.4 The limitations and exclusions of liability stated in Sections 25.1 through 25.3 shall apply regardless of the form of a claim or action, whether statutory, in contract, warranty, strict liability, tort (including, but not limited to, negligence of a Party), or otherwise.
- 25.5 Nothing contained in Sections 25.1 through 25.4 shall exclude or limit liability:
- 25.5.1 under Sections 20, Indemnification, or 41, Taxes.
 - 25.5.2 for any obligation to indemnify, defend and/or hold harmless that a Party may have under this Agreement.
 - 25.5.3 for damages arising out of or resulting from bodily injury to or death of any person, or damage to, or destruction or loss of, tangible real and/or personal property of any person, or Toxic or Hazardous Substances, to the extent such damages are otherwise recoverable under Applicable Law;
 - 25.5.4 for a claim for infringement of any patent, copyright, trade name, trade mark, service mark, or other intellectual property interest;

25.5.5 under Section 258 of the Act or any order of FCC or the Commission implementing Section 258; or

25.5.6 under the financial incentive or remedy provisions of any service quality plan required by the FCC or the Commission.

25.6 In the event that the liability of a Party, a Party's Affiliate, or a director, officer or employee of a Party or a Party's Affiliate, is limited and/or excluded under both this Section 25 and a provision of an applicable Tariff, the liability of the Party or other person shall be limited to the smaller of the amounts for which such Party or other person would be liable under this Section or the Tariff provision.

25.7 Each Party shall, in its tariffs and other contracts with its Customers, provide that in no case shall the other Party, the other Party's Affiliates, or the directors, officers or employees of the other Party or the other Party's Affiliates, be liable to such Customers or other third-persons for any special, indirect, incidental, consequential, reliance, exemplary, punitive or other damages, arising out of a Service Failure.

26. Network Management

26.1 Cooperation. The Parties will work cooperatively in a commercially reasonable manner to install and maintain a reliable network. DSLnet and Verizon will exchange appropriate information (e.g., network information, maintenance contact numbers, escalation procedures, and information required to comply with requirements of law enforcement and national security agencies) to achieve this desired reliability. In addition, the Parties will work cooperatively in a commercially reasonable manner to apply sound network management principles to alleviate or to prevent traffic congestion and subject to Section 17, to minimize fraud associated with third number billed calls, calling card calls, and other services related to this Agreement.

26.2 Responsibility for Following Standards. Each Party recognizes a responsibility to follow the standards that may be agreed to between the Parties and to employ characteristics and methods of operation that will not interfere with or impair the service, network or facilities of the other Party or any third parties connected with or involved directly in the network or facilities of the other.

26.3 Interference or Impairment. If a Party ("Impaired Party") reasonably determines that the services, network, facilities, or methods of operation, of the other Party ("Interfering Party") will or are likely to interfere with or impair the Impaired Party's provision of services or the operation of the Impaired Party's network or facilities, the Impaired Party may interrupt or suspend any Service provided to the Interfering Party to the extent necessary to prevent such interference or impairment, subject to the following:

26.3.1 Except in emergency situations (e.g., situations involving a risk of bodily injury to persons or damage to tangible property, or an interruption in Customer service) or as otherwise provided in this Agreement, the Impaired Party shall have given the Interfering Party at least ten (10) days' prior written notice of the interference or impairment or potential interference or impairment and the need to correct the condition within said time period; and taken other actions, if any, required by Applicable Law; and,

26.3.2 Upon correction of the interference or impairment, the Impaired Party will promptly restore the interrupted or suspended Service. The Impaired

Party shall not be obligated to provide an out-of-service credit allowance or other compensation to the Interfering Party in connection with the suspended Service.

26.4 **Outage Repair Standard.** In the event of an outage or trouble in any Service being provided by a Party hereunder, the Providing Party will follow Verizon's standard procedures for isolating and clearing the outage or trouble.

27. Non-Exclusive Remedies

Except as otherwise expressly provided in this Agreement, each of the remedies provided under this Agreement is cumulative and is in addition to any other remedies that may be available under this Agreement or at law or in equity.

28. Notice of Network Changes

If a Party makes a change in the information necessary for the transmission and routing of services using that Party's facilities or network, or any other change in its facilities or network that will materially affect the interoperability of its facilities or network with the other Party's facilities or network, the Party making the change shall publish notice of the change at least ninety (90) days in advance of such change, and shall use reasonable efforts, as commercially practicable, to publish such notice at least one hundred eighty (180) days in advance of the change; provided, however, that if an earlier publication of notice of a change is required by Applicable Law (including, but not limited to, 47 CFR 51.325 through 51.335) notice shall be given at the time required by Applicable Law.

29. Notices

29.1 Except as otherwise provided in this Agreement, notices given by one Party to the other Party under this Agreement:

29.1.1 shall be in writing;

29.1.2 shall be delivered (a) personally, (b) by express delivery service with next Business Day delivery, (c) by First Class, certified or registered U.S. mail, postage prepaid, or (d) by facsimile telecopy, with a copy delivered in accordance with (a), (b) or (c), preceding; and

29.1.3 shall be delivered to the following addresses of the Parties:

To DSLnet:

Stephen Zamansky
545 Long Wharf Drive, 5th Floor
New Haven, CT 06511
Telephone Number: (203) 782-7459
Facsimile Number: (203) 624-3612
Internet Address: szamansky@dsl.net

To Verizon:

Director-Contract Performance & Administration
Verizon Wholesale Markets
600 Hidden Ridge
HQEWMNOTICES
Irving, TX 75038
Telephone Number: 972-718-5988
Facsimile Number: 972-719-1519
Internet Address: wmnotices@verizon.com

with a copy to:

Vice President and Associate General Counsel
Verizon Wholesale Markets
1515 North Court House Road
Suite 500
Arlington, VA 22201
Facsimile: 703-351-3664

or to such other address as either Party shall designate by proper notice.

Notices will be deemed given as of the earlier of (a) where there is personal delivery of the notice, the date of actual receipt, (b) where the notice is sent via express delivery service for next Business Day delivery, the next Business Day after the notice is sent, (c) where the notice is sent via First Class U.S. Mail, three (3) Business Days after mailing, (d) where notice is sent via certified or registered U.S. mail, the date of receipt shown on the Postal Service receipt, and (e) where the notice is sent via facsimile telecopy, if the notice is sent on a Business Day and before 5 PM. in the time zone where it is received, on the date set forth on the telecopy confirmation, or if the notice is sent on a non-Business Day or if the notice is sent after 5 PM in the time zone where it is received, the next Business Day after the date set forth on the telecopy confirmation.

30. Ordering and Maintenance

DSLnet shall use Verizon's electronic Operations Support System access platforms to submit Orders and requests for maintenance and repair of Services, and to engage in other pre-ordering, ordering, provisioning, maintenance and repair transactions. If Verizon has not yet deployed an electronic capability for DSLnet to perform a pre-ordering, ordering, provisioning, maintenance or repair, transaction offered by Verizon, DSLnet shall use such other processes as Verizon has made available for performing such transaction (including, but not limited, to submission of Orders by telephonic facsimile transmission and placing trouble reports by voice telephone transmission).

31. Performance Standards

- 31.1 Verizon shall provide Services under this Agreement in accordance with the performance standards required by Applicable Law, including, but not limited to, Section 251(c) of the Act.
- 31.2 To the extent required by Appendix D, Section V, "Carrier-to-Carrier Performance Plan (Including Performance Measurements)," and Appendix D, Attachment A, "Carrier-to-Carrier Performance Assurance Plan," of the Merger Order, Verizon shall provide performance measurement results to DSLnet.
- 31.3 DSLnet shall provide Services under this Agreement in accordance with the performance standards required by Applicable Law.

32. Point of Contact for DSLnet Customers

- 32.1 DSLnet shall establish telephone numbers and mailing addresses at which DSLnet Customers may communicate with DSLnet and shall advise DSLnet Customers of these telephone numbers and mailing addresses.
- 32.2 Except as otherwise agreed to by Verizon, Verizon shall have no obligation, and may decline, to accept a communication from a DSLnet Customer, including, but not limited to, a DSLnet Customer request for repair or maintenance of a Verizon Service provided to DSLnet.

33. Predecessor Agreements

- 33.1 Except as stated in Section 33.2 or as otherwise agreed in writing by the Parties:
 - 33.1.1 Further to the provisions of Section 1 of the General Terms and Conditions of this Agreement, any prior interconnection or resale agreement between the Parties for the Commonwealth of Pennsylvania pursuant to Section 252 of the Act and in effect prior to the Effective Date is hereby amended, extended and restated; and
 - 33.1.2 any Services that were purchased by one Party from the other Party under a prior interconnection or resale agreement between the Parties for the Commonwealth of Pennsylvania pursuant to Section 252 of the Act and in effect prior to the Effective Date, shall as of the Effective Date be subject to and purchased under this Agreement.
- 33.2 Except as otherwise agreed in writing by the Parties, if a Service purchased by a Party under a prior interconnection or resale agreement between the Parties pursuant to Section 252 of the Act was subject to a contractual commitment that it would be purchased for a period of longer than one month, and such period had not yet expired as of the Effective Date and the Service had not been terminated prior to the Effective Date, to the extent not inconsistent with this Agreement, such commitment shall remain in effect and the Service will be purchased under this Agreement; provided, that if this Agreement would materially alter the terms of the commitment, either Party make elect to cancel the commitment.
- 33.3 If either Party elects to cancel the commitment pursuant to the proviso in Section 33.2, the Purchasing Party shall not be liable for any termination charge that would otherwise have applied. However, if the commitment was cancelled by the Purchasing Party, the Providing Party shall be entitled to payment from the Purchasing Party of the difference between the price of the Service that was actually paid by the Purchasing Party under the commitment and the price of the Service that would have applied if the commitment had been to purchase the Service only until the time that the commitment was cancelled.

34. Publicity and Use of Trademarks or Service Marks

- 34.1 A Party, its Affiliates, and their respective contractors and Agents, shall not use the other Party's trademarks, service marks, logos or other proprietary trade dress, in connection with the sale of products or services, or in any advertising, press releases, publicity matters or other promotional materials, unless the other Party has given its written consent for such use, which consent the other Party may grant or withhold in its sole discretion.
- 34.2 Neither Party may imply any direct or indirect affiliation with or sponsorship or endorsement of it or its services or products by the other Party.

34.3 Any violation of this Section 34 shall be considered a material breach of this Agreement.

35. References

35.1 All references to Sections, Appendices and Exhibits shall be deemed to be references to Sections, Appendices and Exhibits of this Agreement unless the context shall otherwise require.

35.2 Unless the context shall otherwise require, any reference to a Tariff, agreement, technical or other document (including Verizon or third party guides, practices or handbooks), or provision of Applicable Law, is to such Tariff, agreement, document, or provision of Applicable Law, as amended and supplemented from time to time (and, in the case of a Tariff or provision of Applicable Law, to any successor Tariff or provision).

36. Relationship of the Parties

36.1 The relationship of the Parties under this Agreement shall be that of independent contractors and nothing herein shall be construed as creating any other relationship between the Parties.

36.2 Nothing contained in this Agreement shall make either Party the employee of the other, create a partnership, joint venture, or other similar relationship between the Parties, or grant to either Party a franchise, distributorship or similar interest.

36.3 Except for provisions herein expressly authorizing a Party to act for another Party, nothing in this Agreement shall constitute a Party as a legal representative or Agent of the other Party, nor shall a Party have the right or authority to assume, create or incur any liability or any obligation of any kind, express or implied, against, in the name or on behalf of the other Party unless otherwise expressly permitted by such other Party in writing, which permission may be granted or withheld by the other Party in its sole discretion.

36.4 Each Party shall have sole authority and responsibility to hire, fire, compensate, supervise, and otherwise control its employees, Agents and contractors. Each Party shall be solely responsible for payment of any Social Security or other taxes that it is required by Applicable Law to pay in conjunction with its employees, Agents and contractors, and for withholding and remitting to the applicable taxing authorities any taxes that it is required by Applicable Law to collect from its employees.

36.5 Except as otherwise expressly provided in this Agreement, no Party undertakes to perform any obligation of the other Party, whether regulatory or contractual, or to assume any responsibility for the management of the other Party's business.

36.6 The relationship of the Parties under this Agreement is a non-exclusive relationship.

37. Reservation of Rights

37.1 Notwithstanding anything to the contrary in this Agreement, neither Party waives, and each Party hereby expressly reserves, its rights: (a) to appeal or otherwise seek the reversal of and changes in any arbitration decision associated with this Agreement; (b) to challenge the lawfulness of this Agreement and any provision of this Agreement; (c) to seek changes in this Agreement (including, but not limited to, changes in rates, charges and the Services that must be offered)

through changes in Applicable Law; (d) to challenge the lawfulness and propriety of, and to seek to change, any Applicable Law, including, but not limited to any rule, regulation, order or decision of the Commission, the FCC, or a court of applicable jurisdiction; and (e) to collect debts owed to it under any prior interconnection or resale agreements. Nothing in this Agreement shall be deemed to limit or prejudice any position a Party has taken or may take before the Commission, the FCC, any other state or federal regulatory or legislative bodies, courts of applicable jurisdiction, or industry fora. The provisions of this Section shall survive the expiration, cancellation or termination of this Agreement.

37.2 DSLnet acknowledges DSLnet has been advised by Verizon that it is Verizon's position that:

37.2.1 This Agreement contains certain provisions which are intended to reflect Applicable Law and Commission and/or FCC arbitration decisions; and

37.2.2 For the purposes of Appendix D, Sections 31 and 32, of the Merger Order, such provisions shall not be deemed to have been voluntarily negotiated or agreed to by Verizon and shall not be available to carriers pursuant to Appendix D, Sections 31 and 32 of the Merger Order.

38. Subcontractors

A Party may use a contractor of the Party (including, but not limited to, an Affiliate of the Party) to perform the Party's obligations under this Agreement; provided, that a Party's use of a contractor shall not release the Party from any duty or liability to fulfill the Party's obligations under this Agreement.

39. Successors and Assigns

This Agreement shall be binding on and inure to the benefit of the Parties and their respective legal successors and permitted assigns.

40. Survival

The rights, liabilities and obligations of a Party for acts or omissions occurring prior to the expiration, cancellation or termination of this Agreement, the rights, liabilities and obligations of a Party under any provision of this Agreement regarding confidential information (including but not limited to, Section 10), indemnification or defense (including, but not limited to, Section 20), or limitation or exclusion of liability (including, but not limited to, Section 25), and the rights, liabilities and obligations of a Party under any provision of this Agreement which by its terms or nature is intended to continue beyond or to be performed after the expiration, cancellation or termination of this Agreement, shall survive the expiration, cancellation or termination of this Agreement.

41. Taxes

41.1 In General. With respect to any purchase hereunder of Services, if any federal, state or local tax, fee, surcharge or other tax-like charge (a "Tax") is required or permitted by Applicable Law or a Tariff to be collected from the Purchasing Party by the Providing Party, then (a) the Providing Party shall properly bill the Purchasing Party for such Tax, (b) the Purchasing Party shall timely remit such Tax to the Providing Party and (c) the Providing Party shall timely remit such collected Tax to the applicable taxing authority.

- 41.2 Taxes Imposed on the Providing Party. With respect to any purchase hereunder of Services, if any federal, state or local Tax is imposed by Applicable Law on the receipts of the Providing Party, and such Applicable Law permits the Providing Party to exclude certain receipts received from sales for resale to a public utility, distributor, telephone company, local exchange carrier, telecommunications company or other communications company ("Telecommunications Company"), such exclusion being based solely on the fact that the Purchasing Party is also subject to a tax based upon receipts ("Receipts Tax"), then the Purchasing Party (a) shall provide the Providing Party with notice in writing in accordance with Section 41.6 of this Agreement of its intent to pay the Receipts Tax and (b) shall timely pay the Receipts Tax to the applicable tax authority.
- 41.3 Taxes Imposed on Customers. With respect to any purchase hereunder of Services that are resold to a third party, if any federal, state or local Tax is imposed by Applicable Law on the subscriber, end-user, Customer or ultimate consumer ("Subscriber") in connection with any such purchase, which a Telecommunications Company is required to impose and/or collect from a Subscriber, then the Purchasing Party (a) shall be required to impose and/or collect such Tax from the Subscriber and (b) shall timely remit such Tax to the applicable taxing authority.
- 41.4 Liability for Uncollected Tax, Interest and Penalty. If the Providing Party has not received an exemption certificate from the Purchasing Party and the Providing Party fails to bill the Purchasing Party for any Tax as required by Section 41.1, then, as between the Providing Party and the Purchasing Party, (a) the Purchasing Party shall remain liable for such unbilled Tax and (b) the Providing Party shall be liable for any interest assessed thereon and any penalty assessed with respect to such unbilled Tax by such authority. If the Providing Party properly bills the Purchasing Party for any Tax but the Purchasing Party fails to remit such Tax to the Providing Party as required by Section 41.1, then, as between the Providing Party and the Purchasing Party, the Purchasing Party shall be liable for such uncollected Tax and any interest assessed thereon, as well as any penalty assessed with respect to such uncollected Tax by the applicable taxing authority. If the Providing Party does not collect any Tax as required by Section 41.1 because the Purchasing Party has provided such Providing Party with an exemption certificate that is later found to be inadequate by a taxing authority, then, as between the Providing Party and the Purchasing Party, the Purchasing Party shall be liable for such uncollected Tax and any interest assessed thereon, as well as any penalty assessed with respect to such uncollected Tax by the applicable taxing authority. If the Purchasing Party fails to pay the Receipts Tax as required by Section 41.2, then, as between the Providing Party and the Purchasing Party, (x) the Providing Party shall be liable for any Tax imposed on its receipts and (y) the Purchasing Party shall be liable for any interest assessed thereon and any penalty assessed upon the Providing Party with respect to such Tax by such authority. If the Purchasing Party fails to impose and/or collect any Tax from Subscribers as required by Section 41.3, then, as between the Providing Party and the Purchasing Party, the Purchasing Party shall remain liable for such uncollected Tax and any interest assessed thereon, as well as any penalty assessed with respect to such uncollected Tax by the applicable taxing authority. With respect to any Tax that the Purchasing Party has agreed to pay, or is required to impose on and/or collect from Subscribers, the Purchasing Party agrees to indemnify and hold the Providing Party harmless on an after-tax basis for any costs incurred by the Providing Party as a result of actions taken by the applicable taxing authority to recover the Tax from the Providing Party due to the failure of the Purchasing Party to timely pay, or collect and timely remit, such Tax to such authority. In the event either Party

is audited by a taxing authority, the other Party agrees to cooperate fully with the Party 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.

41.5 Tax Exemptions and Exemption Certificates. If Applicable Law clearly exempts a purchase hereunder from a Tax, and if such Applicable Law also provides an exemption procedure, such as an exemption-certificate requirement, then, if the Purchasing Party complies with such procedure, the Providing Party shall not collect such Tax during the effective period of such exemption. Such exemption shall be effective upon receipt of the exemption certificate or affidavit in accordance with the terms set forth in Section 41.6. If Applicable Law clearly exempts a purchase hereunder from a Tax, but does not also provide an exemption procedure, then the Providing Party shall not collect such Tax if the Purchasing Party (a) furnishes the Providing Party with a letter signed by an officer requesting such an exemption and citing the provision in the Applicable Law which clearly allows such exemption and (b) supplies the Providing Party with an indemnification agreement, reasonably acceptable to the Providing Party (e.g., an agreement commonly used in the industry), which holds the Providing Party harmless on an after-tax basis with respect to its forbearing to collect such Tax.

41.6 All notices, affidavits, exemption-certificates or other communications required or permitted to be given by either Party to the other, for purposes of this Section 41, shall be made in writing and shall be delivered in person or sent by certified mail, return receipt requested, or registered mail, or a courier service providing proof of service, and sent to the addressees set forth in Section 29 as well as to the following:

To Verizon:

Tax Administration
Verizon Communications
1095 Avenue of the Americas
Room 3109
New York, NY 10036

To DSLnet:

Controller - DSLnet
545 Long Wharf Drive, 5th Floor
New Haven, Connecticut 06511

Either Party may from time to time designate another address or other addressees by giving notice in accordance with the terms of this Section. Any notice or other communication shall be deemed to be given when received.

42. **Technology Upgrades**

Notwithstanding any other provision of this Agreement, Verizon shall have the right to deploy, upgrade, migrate and maintain its network at its discretion. The Parties acknowledge that Verizon, at its election, may deploy fiber throughout its network and that such fiber deployment may inhibit or facilitate DSLnet's ability to provide service using certain technologies. Nothing in this Agreement shall limit Verizon's ability to modify its network through the incorporation of new equipment or software or otherwise. DSLnet shall be solely responsible for the cost and activities associated with accommodating such changes in its own network.

43. Territory

- 43.1 This Agreement applies to the territory in which Verizon operates as an Incumbent Local Exchange Carrier in the Commonwealth of Pennsylvania. Verizon shall be obligated to provide Services under this Agreement only within this territory.
- 43.2 Notwithstanding any other provision of this Agreement, Verizon may terminate this Agreement as to a specific operating territory or portion thereof if Verizon sells or otherwise transfers its operations in such territory or portion thereof to a third-person. Verizon shall provide DSLnet with at least 90 calendar days prior written notice of such termination, which shall be effective upon the date specified in the notice.

44. Third Party Beneficiaries

Except as expressly set forth in this Agreement, this Agreement is for the sole benefit of the Parties and their permitted assigns, and nothing herein shall create or be construed to provide any third-persons (including, but not limited to, Customers or contractors of a Party) with any rights (including, but not limited to, any third-party beneficiary rights) hereunder. Except as expressly set forth in this Agreement, a Party shall have no liability under this Agreement to the Customers of the other Party or to any other third person.

45. 251 and 271 Requirements

- 45.1 The Parties agree that the performance of the terms of this Agreement will satisfy Verizon's obligations under Section 251 of the Act, and the requirements of the Checklist under Section 271 of the Act.
- 45.2 The Parties understand and agree that this Agreement will be filed with the Commission and may thereafter be filed with the FCC as an integral part of an application by Verizon or an Affiliate of Verizon pursuant to Section 271(d) of the Act. In the event that any one or more of the provisions contained herein in Verizon's reasonable determination is likely to adversely affect the application pursuant to Section 271(d) of the Act, the Parties agree to make the revisions necessary to eliminate such adverse effect on the application.

46. 252(i) Obligations

- 46.1 To the extent required by Applicable Law, each Party shall comply with Section 252(i) of the Act and Appendix D, Sections 30 through 32, of the Merger Order ("Merger Order MFN Provisions").
- 46.2 To the extent that the exercise by DSLnet of any rights it may have under Section 252(i) or the Merger Order MFN Provisions results in the rearrangement of Services by Verizon, DSLnet shall be solely liable for all costs associated therewith, as well as for any termination charges associated with the termination of existing Verizon Services.

47. Use of Service

Each Party shall make commercially reasonable efforts to ensure that its Customers comply with the provisions of this Agreement (including, but not limited to the provisions of applicable Tariffs) applicable to the use of Services purchased by it under this Agreement.

48. Waiver

A failure or delay of either Party to enforce any of the provisions of this Agreement, or any right or remedy available under this Agreement or at law or in equity, or to require performance of any of the provisions of this Agreement, or to exercise any option which is provided under this Agreement, shall in no way be construed to be a waiver of such provisions, rights, remedies or options.

49. Warranties

EXCEPT AS EXPRESSLY STATED IN THIS AGREEMENT, NEITHER PARTY MAKES OR RECEIVES ANY WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE SERVICES PROVIDED, OR TO BE PROVIDED, UNDER THIS AGREEMENT AND THE PARTIES DISCLAIM ANY OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE WARRANTIES AGAINST INFRINGEMENT, AND WARRANTIES ARISING BY TRADE CUSTOM, TRADE USAGE, COURSE OF DEALING OR PERFORMANCE, OR OTHERWISE.

50. Withdrawal of Services

50.1 Notwithstanding anything contained in this Agreement, except as otherwise required by Applicable Law, Verizon may terminate its offering and/or provision of any Service under this Agreement upon thirty (30) days prior written notice to DSLnet.

50.2 Notwithstanding anything contained in this Agreement, except as otherwise required by Applicable Law, Verizon may with thirty (30) days prior written notice to DSLnet terminate any provision of this Agreement that provides for the payment by Verizon to DSLnet of compensation related to traffic, including, but not limited to, Reciprocal Compensation and other types of compensation for termination of traffic delivered by Verizon to DSLnet. Following such termination, except as otherwise agreed in writing by the Parties, Verizon shall be obligated to provide compensation to DSLnet related to traffic only to the extent required by Applicable Law. If Verizon exercises its right of termination under this Section, the Parties shall negotiate in good faith appropriate substitute provisions for compensation related to traffic; provided, however, that except as otherwise voluntarily agreed by Verizon in writing in its sole discretion, Verizon shall be obligated to provide compensation to DSLnet related to traffic only to the extent required by Applicable Law. If within thirty (30) days after Verizon's notice of termination the Parties are unable to agree in writing upon mutually acceptable substitute provisions for compensation related to traffic, either Party may submit their disagreement to dispute resolution in accordance with Section 14 of this Agreement.

SIGNATURE PAGE

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed as of the Effective Date.

DSLNET COMMUNICATIONS, LLC

VERIZON PENNSYLVANIA INC.

By: Wendy Bluemling

By: Steven J. Pitterle

Printed: Wendy Bluemling 3/27/03

Printed: Steven J. Pitterle

Title: AVP - Regulatory Affairs

Title: Director - Contract Negotiations

GLOSSARY

1. General Rule

- 1.1 The provisions of Sections 1.2 through 1.4 and Section 2 apply with regard to the Principal Document. Terms used in a Tariff shall have the meanings stated in the Tariff.
- 1.2 Unless the context clearly indicates otherwise, when a term listed in this Glossary is used in the Principal Document, the term shall have the meaning stated in this Glossary. A defined term intended to convey the meaning stated in this Glossary is capitalized when used. Other terms that are capitalized, and not defined in this Glossary or elsewhere in the Principal Document, shall have the meaning stated in the Act. Additional definitions that are specific to the matters covered in a particular provision of the Principal Document may appear in that provision. To the extent that there may be any conflict between a definition set forth in this Glossary and any definition in a specific provision, the definition set forth in the specific provision shall control with respect to that provision.
- 1.3 Unless the context clearly indicates otherwise, any term defined in this Glossary which is defined or used in the singular shall include the plural, and any term defined in this Glossary which is defined or used in the plural shall include the singular.
- 1.4 The words "shall" and "will" are used interchangeably throughout the Principal Document and the use of either indicates a mandatory requirement. The use of one or the other shall not confer a different degree of right or obligation for either Party.

2. Definitions

- 2.1 Act.
The Communications Act of 1934 (47 U.S.C. §151 et seq.), as from time to time amended (including, but not limited to, by the Telecommunications Act of 1996).
- 2.2 Advanced Services.
As a general matter, shall have the meaning set forth by the FCC.
- 2.3 Affiliate.
Shall have the meaning set forth in the Act.
- 2.4 Agent.
An agent or servant.
- 2.5 Agreement.
This Agreement, as defined in Section 1 of the General Terms and Conditions.
- 2.6 Ancillary Traffic.
All traffic that is destined for ancillary services, or that may have special billing

requirements, including but not limited to the following: Directory Assistance, 911/E911, Operator Services (IntraLATA call completion), IntraLATA third party, collect and calling card, 800/888 database query, LIDB, and Voice Information Services Traffic as described in Section 5 of the Additional Services Attachment.

2.7 ANI (Automatic Number Identification).

The signaling parameter that refers to the number transmitted through the network identifying the billing number of the calling party.

2.8 Applicable Law.

All effective laws, government regulations and government orders, applicable to each Party's performance of its obligations under this Agreement.

2.9 ASR (Access Service Request).

An industry standard form, which contains data elements and usage rules used by the Parties to add, establish, change or disconnect services or trunks for the purposes of interconnection.

2.10 BFR (Bona Fide Request).

The process described in the Network Element Attachment that prescribes the terms and conditions relating to a Party's request that the other Party provide a UNE that it is not otherwise required to provide under the terms of this Agreement.

2.11 Business Day.

Monday through Friday, except for holidays observed by Verizon.

2.12 Calendar Quarter.

January through March, April through June, July through September, or October through December.

2.13 Calendar Year.

January through December.

2.14 CCS (Common Channel Signaling).

A method of transmitting call set-up and network control data over a digital signaling network separate from the public switched telephone network facilities that carry the actual voice or data content of the call.

2.15 Central Office.

A local switching system for connecting lines to lines, lines to trunks, or trunks to trunks for the purpose of originating/terminating calls over the public switched telephone network. A single Central Office may handle several Central Office codes ("NXX"). Sometimes this term is used to refer to a telephone company building in which switching systems and telephone equipment are installed.

2.16 Central Office Switch.

A switch used to provide Telecommunications Services, including, but not limited to, an End Office Switch or a Tandem Switch. A Central Office Switch may also be employed as a combination End Office/Tandem Office Switch.

2.17 Claims.

Any and all claims, demands, suits, actions, settlements, judgments, fines, penalties, liabilities, injuries, damages, losses, costs (including, but not limited to, court costs), and expenses (including, but not limited to, reasonable attorney's fees).

2.18 CLEC (Competitive Local Exchange Carrier).

Any Local Exchange Carrier other than Verizon that is operating as a Local Exchange Carrier in the territory in which Verizon operates as an ILEC in the Commonwealth of Pennsylvania. DSLnet is or shortly will become a CLEC.

2.19 CLLI Codes.

Common Language Location Identifier Codes.

2.20 CMDS (Centralized Message Distribution System).

The billing record and clearing house transport system that LECs use to exchange out collects and in collects as well as Carrier Access Billing System (CABS) records.

2.21 Commission.

Pennsylvania Public Utility Commission.

2.22 CPN (Calling Party Number).

A CCS parameter that identifies the calling party's telephone number.

2.23 CPNI (Customer Proprietary Network Information).

Shall have the meaning set forth in Section 222 of the Act, 47 U.S.C. § 222.

2.24 Cross Connection.

For a Collocation arrangement, the facilities between the collocating Party's equipment and the equipment or facilities of the housing Party (such as the housing Party's digital signal cross connect, Main Distribution Frame, or other suitable frame or panel).

2.25 Customer.

A third party residence or business end-user subscriber to Telephone Exchange Services provided by either of the Parties.

2.26 Dark Fiber IOF (Dark Fiber Interoffice Facility).

Consists of fiber strand(s) that are located within a fiber optic cable between either (a) accessible terminals in two or more Verizon Central Offices or (b) an accessible terminal in a Verizon Central Office and an accessible terminal in a DSLnet Central Office, but, in either case, that has not been activated through

connection to multiplexing, aggregation or other electronics that "light it" and thereby render it capable of carrying Telecommunications Services.

2.27 Dark Fiber Loop.

Consists of fiber optic strand(s) in a Verizon fiber optic cable between Verizon's accessible terminal, such as the fiber distribution frame, or its functional equivalent, located within a Verizon Wire Center, and Verizon's accessible terminal located in Verizon's main termination point at a Customer premises, such as a fiber patch panel, and that has not been activated through connection to electronics that "light" it and render it capable of carrying Telecommunications Services.

2.28 Dark Fiber Sub-Loop.

Consists of fiber optic strand(s) in a Verizon fiber optic cable (a) between Verizon's accessible terminal located within a Verizon Wire Center, and Verizon's accessible terminal at a Verizon remote terminal equipment enclosure, (b) between Verizon's accessible terminal at a Verizon remote terminal equipment enclosure and Verizon's accessible terminal located in Verizon's main termination point located within a Customer premises, or (c) between Verizon's accessible terminals at Verizon remote terminal equipment enclosures, and that in all cases has not been activated through connection to electronics that "light" it and render it capable of carrying Telecommunications Services.

2.29 Digital Signal Level.

One of several transmission rates in the time-division multiplex hierarchy.

2.30 DS0 (Digital Signal Level 0).

The 64kbps zero-level signal in the time-division multiplex hierarchy.

2.31 DS1 (Digital Signal Level 1).

The 1.544 Mbps first-level signal in the time-division multiplex hierarchy.

2.32 DS3 (Digital Signal Level 3).

The 44.736 Mbps third-level signal in the time-division multiplex hierarchy.

2.33 EMI (Exchange Message Interface).

Standard used for the interexchange of telecommunications message information between local exchange carriers and interexchange carriers for billable, non-billable, sample, settlement and study data. Data is provided between companies via a unique record layout that contains Customer billing information, account summary and tracking analysis. EMI format is contained in document SR-320 published by the Alliance for Telecom Industry Solutions.

2.34 End Office Switch or End Office.

A switching entity that is used to terminate Customer station Loops for the purpose of interconnection to each other and to trunks.

2.35 Entrance Facility.

The facilities between a Party's designated premises and the Central Office serving that designated premises.

2.36 Exchange Access.

Shall have the meaning set forth in the Act.

2.37 Extended Local Calling Scope Arrangement.

An arrangement that provides a Customer a local calling scope (Extended Area Service, "EAS"), outside of the Customer's basic exchange serving area. Extended Local Calling Scope Arrangements may be either optional or non-optional. "Optional Extended Local Calling Scope Arrangement Traffic" is traffic that under an optional Extended Local Calling Scope Arrangement chosen by the Customer terminates outside of the Customer's basic exchange serving area.

2.38 FCC.

The Federal Communications Commission.

2.39 FCC Internet Order.

Order on Remand and Report and Order, *In the Matter of Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, Intercarrier Compensation for ISP Bound Traffic*, FCC 01-131, CC Docket Nos. 96-98 and 99-68, (adopted April 18, 2001).

2.40 FCC Regulations.

The unstayed, effective regulations promulgated by the FCC, as amended from time to time.

2.41 House and Riser Cable.

A two-wire metallic distribution facility in Verizon's network between the minimum point of entry for a building where a premises of a Customer is located (such a point, an "MPOE") and the Rate Demarcation Point for such facility (or NID) if the NID is located at such Rate Demarcation Point).

2.42 IDLC (Integrated Digital Loop Carrier).

A subscriber Loop carrier system that integrates within the switch at a DS1 level, which is twenty-four (24) Loop transmission paths combined into a 1.544 Mbps digital signal.

2.43 ILEC (Incumbent Local Exchange Carrier).

Shall have the meaning stated in the Act.

2.44 Information Access.

The provision of specialized exchange telecommunications services in connection with the origination, termination, transmission, switching, forwarding or routing of telecommunications traffic to or from the facilities of a provider of information services, including a provider of Internet access or Internet transmission services.

2.45 Inside Wire or Inside Wiring.

All wire, cable, terminals, hardware, and other equipment or materials, on the Customer's side of the Rate Demarcation Point.

2.46 Internet Traffic.

Any traffic that is transmitted to or returned from the Internet at any point during the duration of the transmission.

2.47 InterLATA Service.

Shall have the meaning set forth in the Act.

2.48 IntraLATA.

Telecommunications that originate and terminate within the same LATA.

2.49 [Intentionally Left Blank].

2.50 ISDN (Integrated Services Digital Network).

A switched network service providing end-to-end digital connectivity for the simultaneous transmission of voice and data. Basic Rate Interface-ISDN (BRI-ISDN) provides for digital transmission of two (2) 64 kbps bearer channels and one (1) 16 kbps data and signaling channel (2B+D). Primary Rate Interface-ISDN (PRI-ISDN) provides for digital transmission of twenty-three (23) 64 kbps bearer channels and one (1) 64 kbps data and signaling channel (23B+D).

2.51 IXC (Interexchange Carrier).

A Telecommunications Carrier that provides, directly or indirectly, InterLATA or IntraLATA Telephone Toll Services.

2.52 LATA (Local Access and Transport Area).

Shall have the meaning set forth in the Act.

2.53 LEC (Local Exchange Carrier).

Shall have the meaning set forth in the Act.

2.54 LERG (Local Exchange Routing Guide).

A Telcordia Technologies reference containing NPA/NXX routing and homing information.

2.55 LIDB (Line Information Data Base).

Line Information databases which provide, among other things, calling card validation functionality for telephone line number cards issued by Verizon and other entities and validation data for collect and third number-billed calls(e.g., data for billed number screening).

2.56 Line Side.

An End Office Switch connection that provides transmission, switching and

optional features suitable for Customer connection to the public switched network, including loop start supervision, ground start supervision and signaling for BRI-ISDN service.

2.57 Loop.

A transmission path that extends from a Main Distribution Frame or functionally comparable piece of equipment in a Customer's serving End Office, to the Rate Demarcation Point (or NID if installed at the Rate Demarcation Point) in or at the Customer's premises. The actual transmission facilities used to provide a Loop may utilize any of several technologies.

2.58 LSR (Local Service Request).

An industry standard form, which contains data elements and usage rules, used by the Parties to establish, add, change or disconnect resold Telecommunications Services and Network Elements.

2.59 MDF (Main Distribution Frame).

The primary point at which outside plant facilities terminate within a Wire Center, for interconnection to other Telecommunications facilities within the Wire Center. The distribution frame used to interconnect cable pairs and line trunk equipment terminating on a switching system.

2.60 Measured Internet Traffic.

Dial-up, switched Internet Traffic originated by a Customer of one Party on that Party's network at a point in a Verizon local calling area, and delivered to a Customer or an Internet Service Provider served by the other Party, on that other Party's network at a point in the same Verizon local calling area. Verizon local calling areas shall be as defined by Verizon. For the purposes of this definition, a Verizon local calling area includes a Verizon non-optional Extended Local Calling Scope Arrangement, but does not include a Verizon optional Extended Local Calling Scope Arrangement. Calls originated on a 1+ presubscription basis, or on a casual dialed (10XXX/101XXXX) basis, are not considered Measured Internet Traffic. For the avoidance of any doubt, Virtual Foreign Exchange Traffic (i.e., V/FX Traffic) (as defined in the Interconnection Attachment) does not constitute Measured Internet Traffic.

2.61 MECAB (Multiple Exchange Carrier Access Billing).

A document prepared by the Billing Committee of the Ordering and Billing Forum (OBF), which functions under the auspices of the Carrier Liaison Committee (CLC) of the Alliance for Telecommunications Industry Solutions (ATIS). The MECAB document, published by Telcordia Technologies as Special Report SR-BDS-000983, contains the recommended guidelines for the billing of an Exchange Access Service provided by two or more LECs, or by one LEC in two or more states, within a single LATA.

2.62 MECOD (Multiple Exchange Carriers Ordering and Design Guidelines for Access Services - Industry Support Interface).

A document developed by the Ordering/Provisioning Committee under the auspices of the Ordering and Billing Forum (OBF), which functions under the auspices of the Carrier Liaison Committee (CLC) of the Alliance for

Telecommunications Industry Solutions (ATIS). The MECOD document, published by Telcordia Technologies as Special Report SR-STIS-002643, establishes methods for processing orders for Exchange Access Service that is to be provided by two or more LECs.

2.63 Merger Order.

The FCC's Order "In re Application of GTE Corporation, Transferor, and Bell Atlantic Corporation, Transferee, For Consent to Transfer Control of Domestic and International Section 214 and 310 Authorizations and Application to Transfer Control of a Submarine Cable Landing License", Memorandum Opinion and Order, FCC CC Docket No. 98-184, FCC 00-221 (June 16, 2000), as modified from time to time.

2.64 NANP (North American Numbering Plan).

The system of telephone numbering employed in the United States, Canada, Bermuda, Puerto Rico and certain Caribbean islands. The NANP format is a 10-digit number that consist of a 3-digit NPA Code (commonly referred to as the area code), followed by a 3-digit NXX code and 4 digit line number.

2.65 Network Element.

Shall have the meaning stated in the Act.

2.66 NID (Network Interface Device).

The Verizon provided interface terminating Verizon's Telecommunications network on the property where the Customer's service is located at a point determined by Verizon. The NID contains an FCC Part 68 registered jack from which Inside Wire may be connected to Verizon's network.

2.67 NPA (Numbering Plan Area).

Also sometimes referred to as an area code, is the first three-digit indicator of each 10-digit telephone number within the NANP. There are two general categories of NPA, "Geographic NPAs" and "Non-Geographic NPAs". A Geographic NPA is associated with a defined geographic area, and all telephone numbers bearing such NPA are associated with services provided within that geographic area. A Non-Geographic NPA, also known as a "Service Access Code" or "SAC Code" is typically associated with a specialized Telecommunications Service that may be provided across multiple geographic NPA areas. 500, 700, 800, 888 and 900 are examples of Non-Geographic NPAs.

2.68 NXX, NXX Code, Central Office Code or CO Code.

The three-digit switch entity indicator (i.e. the first three digits of a seven-digit telephone number).

2.69 Order.

An order or application to provide, change or terminate a Service (including, but not limited to, a commitment to purchase a stated number or minimum number of lines or other Services for a stated period or minimum period of time).

2.70 Originating Switched Access Detail Usage Data.

A category 1101XX record as defined in the EMI Telcordia Practice BR-010-200-010.

2.71 POI (Point of Interconnection).

The physical location where the Parties' respective facilities physically interconnect for the purpose of mutually exchanging their traffic. As set forth in the Interconnection Attachment, a Point of Interconnection shall be at (i) a technically feasible point on Verizon's network in a LATA and/or (ii) a fiber meet point to which the Parties mutually agree under the terms of this Agreement. By way of example, a technically feasible Point of Interconnection on Verizon's network in a LATA would include an applicable Verizon Tandem Wire Center or Verizon End Office Wire Center but, notwithstanding any other provision of this Agreement or otherwise, would not include a DSLnet Wire Center, DSLnet switch or any portion of a transport facility provided by Verizon to DSLnet or another party between (x) a Verizon Wire Center or switch and (y) the Wire Center or switch of DSLnet or another party.

2.72 Port.

A line card (or equivalent) and associated peripheral equipment on an End Office Switch that interconnects individual Loops or individual Customer trunks with the switching components of an End Office Switch and the associated switching functionality in that End Office Switch. Each Port is typically associated with one (or more) telephone number(s) that serves as the Customer's network address. The Port is part of the provision of unbundled Local Switching Element.

2.73 Principal Document.

This document, including, but not limited to, the Title Page, the Table of Contents, the Preface, the General Terms and Conditions, the signature page, this Glossary, the Attachments, and the Appendices to the Attachments.

2.74 Providing Party.

A Party offering or providing a Service to the other Party under this Agreement.

2.75 Purchasing Party.

A Party requesting or receiving a Service from the other Party under this Agreement.

2.76 Rate Center Area.

The geographic area that has been identified by a given LEC as being associated with a particular NPA-NXX code assigned to the LEC for its provision of Telephone Exchange Services. The Rate Center Area is the exclusive geographic area that the LEC has identified as the area within which it will provide Telephone Exchange Services bearing the particular NPA-NXX designation associated with the specific Rate Center Area.

2.77 Rate Center Point.

A specific geographic point, defined by a V&H coordinate, located within the Rate Center Area and used to measure distance for the purpose of billing for distance-

sensitive Telephone Exchange Services and Toll Traffic. Pursuant to Telcordia Practice BR-795-100-100, the Rate Center Point may be an End Office location, or a "LEC Consortium Point Of Interconnection."

2.78 Rate Demarcation Point.

The physical point in a Verizon provided network facility at which Verizon's responsibility for maintaining that network facility ends and the Customer's responsibility for maintaining the remainder of the facility begins, as set forth in this Agreement, Verizon's applicable Tariffs, if any, or as otherwise prescribed under Applicable Law.

2.79 Reciprocal Compensation.

The arrangement for recovering, in accordance with Section 251(b)(5) of the Act, the FCC Internet Order, and other applicable FCC orders and FCC Regulations, costs incurred for the transport and termination of Reciprocal Compensation Traffic originating on one Party's network and terminating on the other Party's network (as set forth in Section 7 of the Interconnection Attachment).

2.80 Reciprocal Compensation Traffic.

Telecommunications traffic originated by a Customer of one Party on that Party's network and terminated to a Customer of the other Party on that other Party's network, except for Telecommunications traffic that is interstate or intrastate Exchange Access, Information Access, or exchange services for Exchange Access or Information Access. The determination of whether Telecommunications traffic is Exchange Access or Information Access shall be based upon Verizon's local calling areas as defined by Verizon. Reciprocal Compensation Traffic does not include the following traffic (it being understood that certain traffic types will fall into more than one (1) of the categories below that do not constitute Reciprocal Compensation Traffic): (1) any Internet Traffic; (2) traffic that does not originate and terminate within the same Verizon local calling area as defined by Verizon, and based on the actual originating and terminating points of the complete end-to-end communication; (3) Toll Traffic, including, but not limited to, calls originated on a 1+ presubscription basis, or on a casual dialed (10XXX/101XXX) basis; (4) Optional Extended Local Calling Scope Arrangement Traffic; (5) special access, private line, Frame Relay, ATM, or any other traffic that is not switched by the terminating Party; (6) Tandem Transit Traffic; (7) Voice Information Service Traffic (as defined in Section 5 of the Additional Services Attachment); or, (8) Virtual Foreign Exchange Traffic (or V/FX Traffic) (as defined in the Interconnection Attachment). For the purposes of this definition, a Verizon local calling area includes a Verizon non-optional Extended Local Calling Scope Arrangement, but does not include a Verizon optional Extended Local Calling Scope Arrangement.

2.81 Retail Prices.

The prices at which a Service is provided by Verizon at retail to subscribers who are not Telecommunications Carriers.

2.82 Routing Point.

A specific geographic point identified by a specific V&H coordinate. The Routing Point is used to route inbound traffic to specified NPA-NXXs. The Routing Point must be located within the LATA in which the corresponding NPA-NXX is

located. However, the Routing Point associated with each NPA-NXX need not be the same as the corresponding Rate Center Point, nor must it be located within the corresponding Rate Center Area, nor must there be a unique and separate Routing Point corresponding to each unique and separate Rate Center Area.

2.83 Service.

Any Interconnection arrangement, Network Element, Telecommunications Service, Collocation arrangement, or other service, facility or arrangement, offered by a Party under this Agreement.

2.84 SS7 (Signaling System 7).

The common channel out-of-band signaling protocol developed by the Consultative Committee for International Telephone and Telegraph (CCITT) and the American National Standards Institute (ANSI). Verizon and DSLnet currently utilize this out-of-band signaling protocol.

2.85 Subsidiary.

A corporation or other person that is controlled by a Party.

2.86 Sub-Loop Distribution Facility.

A two-wire or four-wire metallic distribution facility in Verizon's network between a Verizon feeder distribution interface ("FDI") and the Rate Demarcation Point for such facility (or NID if the NID is located at such Rate Demarcation Point).

2.87 Sub-Loop Feeder Facility.

A DS1 or DS3 transmission path over a feeder facility in Verizon's network between a Verizon End Office and either a Verizon remote terminal equipment enclosure (an "RTEE") that subtends such End Office or a Verizon FDI that subtends the End Office.

2.88 Switched Exchange Access Service.

The offering of transmission and switching services for the purpose of the origination or termination of Toll Traffic. Switched Exchange Access Services include but may not be limited to: Feature Group A, Feature Group B, Feature Group D, 700 access, 800 access, 888 access and 900 access.

2.89 Tandem Switch.

A switching entity that has billing and recording capabilities and is used to connect and switch trunk circuits between and among End Office Switches and between and among End Office Switches and carriers' aggregation points, points of termination, or points of presence, and to provide Switched Exchange Access Services.

2.90 Tariff.

2.90.1 Any applicable Federal or state tariff of a Party, as amended from time-to-time; or

2.90.2 Any standard agreement or other document, as amended from time-to-time, that sets forth the generally available terms, conditions and prices under which a Party offers a Service.

The term "Tariff" does not include any Verizon statement of generally available terms (SGAT) which has been approved or is pending approval by the Commission pursuant to Section 252(f) of the Act.

2.91 Telcordia Technologies.

Telcordia Technologies, Inc., formerly known as Bell Communications Research, Inc. (Bellcore).

2.92 Telecommunications Carrier.

Shall have the meaning set forth in the Act.

2.93 Telecommunications Services.

Shall have the meaning set forth in the Act.

2.94 Telephone Exchange Service.

Shall have the meaning set forth in the Act.

2.95 Terminating Switched Access Detail Usage Data.

A category 1101XX record as defined in the EMI Telcordia Practice BR-010-200-010.

2.96 Third Party Claim.

A Claim where there is (a) a claim, demand, suit or action by a person who is not a Party, (b) a settlement with, judgment by, or liability to, a person who is not a Party, or (c) a fine or penalty imposed by a person who is not a Party.

2.97 Toll Traffic.

Traffic that is originated by a Customer of one Party on that Party's network and terminates to a Customer of the other Party on that other Party's network and is not Reciprocal Compensation Traffic, Measured Internet Traffic, or Ancillary Traffic. Toll Traffic may be either "IntraLATA Toll Traffic" or "InterLATA Toll Traffic", depending on whether the originating and terminating points are within the same LATA.

2.98 Toxic or Hazardous Substance.

Any substance designated or defined as toxic or hazardous under any "Environmental Law" or that poses a risk to human health or safety, or the environment, and products and materials containing such substance. "Environmental Laws" means the Comprehensive Environmental Response, Compensation, and Liability Act, the Emergency Planning and Community Right-to-Know Act, the Water Pollution Control Act, the Air Pollution Control Act, the Toxic Substances Control Act, the Resource Conservation and Recovery Act, the Occupational Safety and Health Act, and all other Federal, State or local laws or governmental regulations or requirements, that are similar to the above-referenced laws or that otherwise govern releases, chemicals, products,

materials or wastes that may pose risks to human health or safety, or the environment, or that relate to the protection of wetlands or other natural resources.

2.99 Traffic Factor 1.

For traffic exchanged via Interconnection Trunks, a percentage calculated by dividing the number of minutes of interstate traffic (excluding Measured Internet Traffic) by the total number of minutes of interstate and intrastate traffic. $(\{ \text{Interstate Traffic Total Minutes of Use (excluding Measured Internet Traffic Total Minutes of Use)} \div \{ \text{Interstate Traffic Total Minutes of Use} + \text{Intrastate Traffic Total Minutes of Use} \} \times 100)$. Until the form of a Party's bills is updated to use the term "Traffic Factor 1," the term "Traffic Factor 1" may be referred to on the Party's bills and in billing related communications as "Percent Interstate Usage" or "PIU."

2.100 Traffic Factor 2.

For traffic exchanged via Interconnection Trunks, a percentage calculated by dividing the combined total number of minutes of Reciprocal Compensation Traffic and Measured Internet Traffic by the combined total number of minutes of intrastate traffic and Measured Internet Traffic. $(\{ \{ \text{Reciprocal Compensation Traffic Total Minutes of Use} + \text{Measured Internet Traffic Total Minutes of Use} \} \div \{ \text{Intrastate Traffic Total Minutes of Use} + \text{Measured Internet Traffic Total Minutes of Use} \} \times 100)$. Until the form of a Party's bills is updated to use the term "Traffic Factor 2," the term "Traffic Factor 2" may be referred to on the Party's bills and in billing related communications as "Percent Local Usage" or "PLU."

2.101 Trunk Side.

A Central Office Switch connection that is capable of, and has been programmed to treat the circuit as, connecting to another switching entity, for example, to another carrier's network. Trunk side connections offer those transmission and signaling features appropriate for the connection of switching entities and cannot be used for the direct connection of ordinary telephone station sets.

2.102 UDLC (Universal Digital Loop Carrier).

UDLC arrangements consist of a Central Office Terminal and a Remote Terminal located in the outside plant or at a customer premises. The Central Office and the Remote Terminal units perform analog to digital conversions to allow the feeding facility to be digital. UDLC is deployed where the types of services to be provisioned by the systems cannot be integrated such as non-switched services and UNE Loops.

2.103 V and H Coordinates Method.

A method of computing airline miles between two points by utilizing an established formula that is based on the vertical and horizontal coordinates of the two points.

2.104 Voice Grade.

Either an analog signal of 300 to 3000 Hz or a digital signal of 56/64 kilobits per second. When referring to digital Voice Grade service (a 56-64 kbps channel), the terms "DS0" or "sub-DS1" may also be used.

2.105 Wire Center.

A building or portion thereof which serves as the premises for one or more Central Office Switches and related facilities.

2.106 xDSL.

As defined and offered in this Agreement. The small "x" before the letters DSL signifies reference to DSL as a generic transmission technology, as opposed to a specific DSL "flavor."

ADDITIONAL SERVICES ATTACHMENT

1. Alternate Billed Calls

- 1.1 The Parties will engage in settlements of intraLATA intrastate alternate-billed calls (*e.g.*, collect, calling card, and third-party billed calls) originated or authorized by their respective Customers in accordance with an arrangement mutually agreed to by the Parties.

2. Dialing Parity - Section 251(b)(3)

Each Party shall provide the other Party with nondiscriminatory access to such services and information as are necessary to allow the other Party to implement local Dialing Parity in accordance with the requirements of Section 251(b)(3) of the Act.

3. Directory Assistance (DA) and Operator Services (OS)

- 3.1 Either Party may request that the other Party provide the requesting Party with nondiscriminatory access to the other Party's directory assistance services (DA), IntraLATA operator call completion services (OS), and/or directory assistance listings database. If either Party makes such a request, the Parties shall enter into a mutually acceptable written agreement for such access.
- 3.2 DSLnet shall arrange, at its own expense, the trunking and other facilities required to transport traffic to and from the designated DA and OS switch locations.

4. Directory Listing and Directory Distribution

To the extent required by Applicable Law, Verizon will provide directory services to DSLnet. Such services will be provided in accordance with the terms set forth herein.

4.1 Listing Information.

As used herein, "Listing Information" means a DSLnet Customer's primary name, address (including city, state and zip code), telephone number(s), the delivery address and number of directories to be delivered, and, in the case of a business Customer, the primary business heading under which the business Customer desires to be placed, and any other information Verizon deems necessary for the publication and delivery of directories.

4.2 Listing Information Supply.

DSLnet shall provide to Verizon on a regularly scheduled basis, at no charge, and in a format required by Verizon or by a mutually agreed upon industry standard (*e.g.*, Ordering and Billing Forum developed) all Listing Information and the service address for each DSLnet Customer whose service address location falls within the geographic area covered by the relevant Verizon directory. DSLnet shall also provide to Verizon on a daily basis: (a) information showing DSLnet Customers who have disconnected or terminated their service with DSLnet; and (b) delivery information for each non-listed or non-published DSLnet Customer to enable Verizon to perform its directory distribution responsibilities. Verizon shall promptly provide to DSLnet (normally within forty-eight (48) hours of receipt by Verizon, excluding non-business days) a query on any listing that is not acceptable.

4.3 Listing Inclusion and Distribution.

Verizon shall include each DSLnet Customer's primary listing in the appropriate alphabetical directory and, for business Customers, in the appropriate classified (Yellow Pages) directory in accordance with the directory configuration, scope and schedules determined by Verizon in its sole discretion, and shall provide initial distribution of such directories to such DSLnet Customers in the same manner it provides initial distribution of such directories to its own Customers. "Primary Listing" means a Customer's primary name, address, and telephone number. Listings of DSLnet's Customers shall be interfiled with listings of Verizon's Customers and the Customers of other LECs included in the Verizon directories. DSLnet shall pay Verizon's tariffed charges for additional, foreign, and other listings products (as documented in local Tariff) for DSLnet's Customers.

4.4 Verizon Information.

Upon request by DSLnet, Verizon shall make available to DSLnet the following information to the extent that Verizon provides such information to its own business offices: a directory list of relevant NXX codes, directory and Customer Guide close dates, and Yellow Pages headings. Verizon shall also make available to DSLnet, upon written request, a copy of Verizon's alphabetical listings standards and specifications handbook.

4.5 Confidentiality of Listing Information.

Verizon shall accord DSLnet Listing Information the same level of confidentiality that Verizon accords its own listing information, and shall use such Listing Information solely for the purpose of providing directory-related services; provided, however, that should Verizon elect to do so, it may use or license DSLnet Listing Information for directory publishing, direct marketing, or any other purpose for which Verizon uses or licenses its own listing information, so long as DSLnet Customers are not separately identified as such; and provided further that DSLnet may identify those of its Customers who request that their names not be sold for direct marketing purposes and Verizon shall honor such requests to the same extent that it does for its own Customers. Verizon shall not be obligated to compensate DSLnet for Verizon's use or licensing of DSLnet Listing Information.

4.6 Accuracy.

Both Parties shall use commercially reasonable efforts to ensure the accurate publication of DSLnet Customer listings. At DSLnet's request, Verizon shall provide DSLnet with a report of all DSLnet Customer listings in a reasonable timeframe prior to the service order close date for the applicable directory. Verizon shall process any corrections made by DSLnet with respect to its listings, provided such corrections are received prior to the close date of the particular directory.

4.7 Indemnification.

DSLnet shall adhere to all practices, standards, and ethical requirements established by Verizon with regard to listings. By providing Verizon with Listing Information, DSLnet warrants to Verizon that DSLnet has the right to provide such Listing Information to Verizon on behalf of its Customers. DSLnet shall make commercially reasonable efforts to ensure that any business or person to

be listed is authorized and has the right (a) to provide the product or service offered, and (b) to use any personal or corporate name, trade name, trademark, service mark or language used in the listing. DSLnet agrees to release, defend, hold harmless and indemnify Verizon from and against any and all claims, losses, damages, suits, or other actions, or any liability whatsoever, suffered, made, instituted, or asserted by any person arising out of Verizon's publication or dissemination of the Listing Information as provided by DSLnet hereunder.

4.8 Liability.

Verizon's liability to DSLnet in the event of a Verizon error in or omission of a DSLnet Customer listing shall not exceed the amount to which Verizon would be liable to its own Customer for such error or omission. DSLnet agrees to take all reasonable steps, including, but not limited to, entering into appropriate contractual provisions with its Customers, to ensure that its and Verizon's liability to DSLnet's Customers in the event of a Verizon error in or omission of a listing shall be subject to the same limitations of liability applicable between Verizon and its own Customers as set forth in Verizon's applicable Tariffs.

4.9 Service Information Pages.

Verizon shall include all DSLnet NXX codes associated with the geographic areas to which each directory pertains, to the extent it does so for Verizon's own NXX codes, in any lists of such codes that are contained in the general reference portion of each directory. DSLnet's NXX codes shall appear in such lists in the same manner as Verizon's NXX information. In addition, when DSLnet is authorized to, and is offering, local service to Customers located within the geographic area covered by a specific directory, at DSLnet's request, Verizon shall include, at no charge, in the "Customer Guide" or comparable section of the applicable alphabetical directories, DSLnet's critical contact information for DSLnet's installation, repair and Customer service, as provided by DSLnet. Such critical contact information shall appear alphabetically by local exchange carrier and in accordance with Verizon's generally applicable policies. DSLnet shall be responsible for providing the necessary information to Verizon by the applicable close date for each affected directory.

4.10 Directory Publication.

Nothing in this Agreement shall require Verizon to publish a directory where it would not otherwise do so.

4.11 Other Directory Services.

DSLnet acknowledges that if DSLnet desires directory services in addition to those described herein, such additional services must be obtained under separate agreement with Verizon's directory publishing company.

5. Voice Information Service Traffic

- 5.1 For purposes of this Section 5, (a) Voice Information Service means a service that provides [i] recorded voice announcement information or [ii] a vocal discussion program open to the public, and (b) Voice Information Service Traffic means intraLATA switched voice traffic, delivered to a Voice Information Service. Voice Information Service Traffic does not include any form of Internet Traffic. Voice Information Service Traffic also does not include 555 traffic or similar traffic with AIN service interfaces, which traffic shall be subject to separate

arrangements between the Parties. Voice Information Service Traffic is not subject to Reciprocal Compensation charges under Section 7 of the Interconnection Attachment.

- 5.2 If a DSLnet Customer is served by resold Verizon dial tone line Telecommunications Service or a Verizon Local Switching UNE, to the extent reasonably feasible, Verizon will route Voice Information Service Traffic originating from such Service or UNE to the appropriate Voice Information Service connected to Verizon's network unless a feature blocking such Voice Information Service Traffic has been installed. For such Voice Information Service Traffic, DSLnet shall pay to Verizon without discount any Voice Information Service provider charges billed by Verizon to DSLnet. DSLnet shall pay Verizon such charges in full regardless of whether or not DSLnet collects such charges from its Customer.
- 5.3 DSLnet shall have the option to route Voice Information Service Traffic that originates on its own network to the appropriate Voice Information Service connected to Verizon's network. In the event DSLnet exercises such option, DSLnet will establish, at its own expense, a dedicated trunk group to the Verizon Voice Information Service serving switch. This trunk group will be utilized to allow DSLnet to route Voice Information Service Traffic originated on its network to Verizon. For such Voice Information Service Traffic, unless DSLnet has entered into a written agreement with Verizon under which DSLnet will collect from DSLnet's Customer and remit to Verizon the Voice Information Service provider's charges, DSLnet shall pay to Verizon without discount any Voice Information Service provider charges billed by Verizon to DSLnet. DSLnet shall pay Verizon such charges in full regardless of whether or not DSLnet collects such charges from its own Customer.

6. Intercept and Referral Announcements

- 6.1 When a Customer changes its service provider from Verizon to DSLnet, or from DSLnet to Verizon, and does not retain its original telephone number, the Party formerly providing service to such Customer shall provide a referral announcement ("Referral Announcement") on the abandoned telephone number which provides the Customer's new number or other appropriate information, to the extent known to the Party formerly providing service. Notwithstanding the foregoing, a Party shall not be obligated under this Section to provide a Referral Announcement if the Customer owes the Party unpaid overdue amounts or the Customer requests that no Referral Announcement be provided.
- 6.2 Referral Announcements shall be provided, in the case of business Customers, for a period of not less than one hundred and twenty (120) days after the date the Customer changes its telephone number, and, in the case of residential Customers, not less than thirty (30) days after the date the Customer changes its telephone number; provided that if a longer time period is required by Applicable Law, such longer time period shall apply. Except as otherwise provided by Applicable Law, the period for a referral may be shortened by the Party formerly providing service if a number shortage condition requires reassignment of the telephone number.
- 6.3 This referral announcement will be provided by each Party at no charge to the other Party; provided that the Party formerly providing service may bill the Customer its standard Tariff charge, if any, for the referral announcement.

7. Originating Line Number Screening (OLNS)

Upon DSLnet's request, Verizon will update its database used to provide originating line number screening (the database of information which indicates to an operator the acceptable billing methods for calls originating from the calling number (e.g., penal institutions, COCOTS).

8. Operations Support Systems (OSS) Services

8.1 Definitions.

The terms listed below shall have the meanings stated below:

- 8.1.1 Verizon Operations Support Systems: Verizon systems for pre-ordering, ordering, provisioning, maintenance and repair, and billing.
- 8.1.2 Verizon OSS Services: Access to Verizon Operations Support Systems functions. The term "Verizon OSS Services" includes, but is not limited to: (a) Verizon's provision of DSLnet Usage Information to DSLnet pursuant to Section 8.3 of this Attachment; and, (b) "Verizon OSS Information", as defined in Section 8.1.4 of this Attachment.
- 8.1.3 Verizon OSS Facilities: Any gateways, interfaces, databases, facilities, equipment, software, or systems, used by Verizon to provide Verizon OSS Services to DSLnet.
- 8.1.4 Verizon OSS Information: Any information accessed by, or disclosed or provided to, DSLnet through or as a part of Verizon OSS Services. The term "Verizon OSS Information" includes, but is not limited to: (a) any Customer Information related to a Verizon Customer or a DSLnet Customer accessed by, or disclosed or provided to, DSLnet through or as a part of Verizon OSS Services; and, (b) any DSLnet Usage Information (as defined in Section 8.1.6 of this Attachment) accessed by, or disclosed or provided to, DSLnet.
- 8.1.5 Verizon Retail Telecommunications Service: Any Telecommunications Service that Verizon provides at retail to subscribers that are not Telecommunications Carriers. The term "Verizon Retail Telecommunications Service" does not include any Exchange Access service (as defined in Section 3(16) of the Act, 47 U.S.C. § 153(16)) provided by Verizon.
- 8.1.6 DSLnet Usage Information: For a Verizon Retail Telecommunications Service purchased by DSLnet pursuant to the Resale Attachment, the usage information that Verizon would record if Verizon was furnishing such Verizon Retail Telecommunications Service to a Verizon end-user retail Customer. For a Verizon Local Switching Network Element purchased by DSLnet pursuant to the Network Element Attachment, the usage information that Verizon would record if Verizon was using such Local Switching Network Element to furnish a Verizon Retail Telecommunications Service to a Verizon end-user retail Customer.
- 8.1.7 Customer Information: CPNI of a Customer and any other non-public, individually identifiable information about a Customer or the purchase by a Customer of the services or products of a Party.

8.2 Verizon OSS Services.

- 8.2.1 Upon request by DSLnet, Verizon shall provide to DSLnet Verizon OSS Services. Such Verizon OSS Services will be provided in accordance with, but only to the extent required by, Applicable Law.
- 8.2.2 Subject to the requirements of Applicable Law, Verizon Operations Support Systems, Verizon Operations Support Systems functions, Verizon OSS Facilities, Verizon OSS Information, and the Verizon OSS Services that will be offered by Verizon, shall be as determined by Verizon. Subject to the requirements of Applicable Law, Verizon shall have the right to change Verizon Operations Support Systems, Verizon Operations Support Systems functions, Verizon OSS Facilities, Verizon OSS Information, and the Verizon OSS Services, from time-to-time, without the consent of DSLnet.
- 8.2.3 To the extent required by Applicable Law, in providing Verizon OSS Services to DSLnet, Verizon will comply with Verizon's applicable OSS Change Management Guidelines, as such Guidelines are modified from time-to-time, including, but not limited to, the provisions of the Guidelines related to furnishing notice of changes in Verizon OSS Services. Verizon's OSS Change Management Guidelines will be set out on a Verizon website.
- 8.3 DSLnet Usage Information.
- 8.3.1 Upon request by DSLnet, Verizon shall provide to DSLnet DSLnet Usage Information. Such DSLnet Usage Information will be provided in accordance with, but only to the extent required by, Applicable Law.
- 8.3.2 DSLnet Usage Information will be available to DSLnet through the following:
- 8.3.2.1 Daily Usage File on Data Tape.
- 8.3.2.2 Daily Usage File through Network Data Mover (NDM).
- 8.3.3 DSLnet Usage Information will be provided in an Alliance for Telecommunications Industry Solutions EMI format.
- 8.3.4 Daily Usage File Data Tapes provided pursuant to Section 8.3.2.1 of this Attachment will be issued each Business Day.
- 8.3.5 Except as stated in this Section 8.3, subject to the requirements of Applicable Law, the manner in which, and the frequency with which, DSLnet Usage Information will be provided to DSLnet shall be determined by Verizon.
- 8.4 Access to and Use of Verizon OSS Facilities.
- 8.4.1 Verizon OSS Facilities may be accessed and used by DSLnet only to the extent necessary for DSLnet's access to and use of Verizon OSS Services pursuant to this Agreement.
- 8.4.2 Verizon OSS Facilities may be accessed and used by DSLnet only to provide Telecommunications Services to DSLnet Customers.
- 8.4.3 DSLnet shall restrict access to and use of Verizon OSS Facilities to DSLnet. This Section 8 does not grant to DSLnet any right or license to grant sublicenses to other persons, or permission to other persons

(except DSLnet's employees, agents and contractors, in accordance with Section 8.4.7 of this Attachment), to access or use Verizon OSS Facilities.

- 8.4.4 DSLnet shall not (a) alter, modify or damage the Verizon OSS Facilities (including, but not limited to, Verizon software), (b) copy, remove, derive, reverse engineer, or decompile, software from the Verizon OSS Facilities; or (c) obtain access through Verizon OSS Facilities to Verizon databases, facilities, equipment, software, or systems, which are not offered for DSLnet's use under this Section 8.
- 8.4.5 DSLnet shall comply with all practices and procedures established by Verizon for access to and use of Verizon OSS Facilities (including, but not limited to, Verizon practices and procedures with regard to security and use of access and user identification codes).
- 8.4.6 All practices and procedures for access to and use of Verizon OSS Facilities, and all access and user identification codes for Verizon OSS Facilities: (a) shall remain the property of Verizon; (b) shall be used by DSLnet only in connection with DSLnet's use of Verizon OSS Facilities permitted by this Section 8; (c) shall be treated by DSLnet as Confidential Information of Verizon pursuant to Section 10 of the General Terms and Conditions; and, (d) shall be destroyed or returned by DSLnet to Verizon upon the earlier of request by Verizon or the expiration or termination of this Agreement.
- 8.4.7 DSLnet's employees, agents and contractors may access and use Verizon OSS Facilities only to the extent necessary for DSLnet's access to and use of the Verizon OSS Facilities permitted by this Agreement. Any access to or use of Verizon OSS Facilities by DSLnet's employees, agents, or contractors, shall be subject to the provisions of this Agreement, including, but not limited to, Section 10 of the General Terms and Conditions and Section 8.5.3.2 of this Attachment.

8.5 Verizon OSS Information.

- 8.5.1 Subject to the provisions of this Section 8, in accordance with, but only to the extent required by, Applicable Law, Verizon grants to DSLnet a non-exclusive license to use Verizon OSS Information.
- 8.5.2 All Verizon OSS Information shall at all times remain the property of Verizon. Except as expressly stated in this Section 8, DSLnet shall acquire no rights in or to any Verizon OSS Information.
- 8.5.3 The provisions of this Section 8.5.3 shall apply to all Verizon OSS Information, except (a) DSLnet Usage Information, (b) CPNI of DSLnet, and (c) CPNI of a Verizon Customer or a DSLnet Customer, to the extent the Customer has authorized DSLnet to use the CPNI.
 - 8.5.3.1 Verizon OSS Information may be accessed and used by DSLnet only to provide Telecommunications Services to DSLnet Customers.
 - 8.5.3.2 DSLnet shall treat Verizon OSS Information that is designated by Verizon, through written or electronic notice (including, but not limited to, through the Verizon OSS

Services), as "Confidential" or "Proprietary" as Confidential Information of Verizon pursuant to Section 10 of the General Terms and Conditions.

8.5.3.3 Except as expressly stated in this Section 8, this Agreement does not grant to DSLnet any right or license to grant sublicenses to other persons, or permission to other persons (except DSLnet's employees, agents or contractors, in accordance with Section 8.5.3.4 of this Attachment), to access, use or disclose Verizon OSS Information.

8.5.3.4 DSLnet's employees, agents and contractors may access, use and disclose Verizon OSS Information only to the extent necessary for DSLnet's access to, and use and disclosure of, Verizon OSS Information permitted by this Section 8. Any access to, or use or disclosure of, Verizon OSS Information by DSLnet's employees, agents or contractors, shall be subject to the provisions of this Agreement, including, but not limited to, Section 10 of the General Terms and Conditions and Section 8.5.3.2 of this Attachment.

8.5.3.5 DSLnet's license to use Verizon OSS Information shall expire upon the earliest of: (a) the time when the Verizon OSS Information is no longer needed by DSLnet to provide Telecommunications Services to DSLnet Customers; (b) termination of the license in accordance with this Section 8; or (c) expiration or termination of this Agreement.

8.5.3.6 All Verizon OSS Information received by DSLnet shall be destroyed or returned by DSLnet to Verizon, upon expiration, suspension or termination of the license to use such Verizon OSS Information.

8.5.4 Unless sooner terminated or suspended in accordance with this Agreement or this Section 8 (including, but not limited to, Section 2.2 of the General Terms and Conditions and Section 8.6.1 of this Attachment), DSLnet's access to Verizon OSS Information through Verizon OSS Services shall terminate upon the expiration or termination of this Agreement.

8.5.5 Audits.

8.5.5.1 Verizon shall have the right (but not the obligation) to audit DSLnet to ascertain whether DSLnet is complying with the requirements of Applicable Law and this Agreement with regard to DSLnet's access to, and use and disclosure of, Verizon OSS Information.

8.5.5.2 Without in any way limiting any other rights Verizon may have under this Agreement or Applicable Law, Verizon shall have the right (but not the obligation) to monitor DSLnet's access to and use of Verizon OSS Information which is made available by Verizon to DSLnet pursuant to this Agreement, to ascertain whether DSLnet is complying with the requirements of Applicable Law and this Agreement,

with regard to DSLnet's access to, and use and disclosure of, such Verizon OSS Information. The foregoing right shall include, but not be limited to, the right (but not the obligation) to electronically monitor DSLnet's access to and use of Verizon OSS Information which is made available by Verizon to DSLnet through Verizon OSS Facilities.

8.5.5.3 Information obtained by Verizon pursuant to this Section 8.5.5 shall be treated by Verizon as Confidential Information of DSLnet pursuant to Section 10 of the General Terms and Conditions; provided that, Verizon shall have the right (but not the obligation) to use and disclose information obtained by Verizon pursuant to Section 8.5.5 of this Attachment to enforce Verizon's rights under this Agreement or Applicable Law.

8.5.6 DSLnet acknowledges that the Verizon OSS Information, by its nature, is updated and corrected on a continuous basis by Verizon, and therefore that Verizon OSS Information is subject to change from time to time.

8.6 Liabilities and Remedies.

8.6.1 Any breach by DSLnet, or DSLnet's employees, agents or contractors, of the provisions of Sections 8.4 or 8.5 of this Attachment shall be deemed a material breach of this Agreement. In addition, if DSLnet or an employee, agent or contractor of DSLnet at any time breaches a provision of Sections 8.4 or 8.5 of this Attachment and such breach continues for more than ten (10) days after written notice thereof from Verizon, then, except as otherwise required by Applicable Law, Verizon shall have the right, upon notice to DSLnet, to suspend the license to use Verizon OSS Information granted by Section 8.5.1 of this Attachment and/or the provision of Verizon OSS Services, in whole or in part.

8.6.2 DSLnet agrees that Verizon would be irreparably injured by a breach of Sections 8.4 or 8.5 of this Attachment by DSLnet or the employees, agents or contractors of DSLnet, and that Verizon shall be entitled to seek equitable relief, including injunctive relief and specific performance, in the event of any such breach. Such remedies shall not be deemed to be the exclusive remedies for any such breach, but shall be in addition to any other remedies available under this Agreement or at law or in equity.

8.7 Relation to Applicable Law.

The provisions of Sections 8.4, 8.5 and 8.6 of this Attachment with regard to the confidentiality of information shall be in addition to and not in derogation of any provisions of Applicable Law with regard to the confidentiality of information, including, but not limited to, 47 U.S.C. § 222, and are not intended to constitute a waiver by Verizon of any right with regard to protection of the confidentiality of the information of Verizon or Verizon Customers provided by Applicable Law.

8.8 Cooperation.

DSLnet, at DSLnet's expense, shall reasonably cooperate with Verizon in using Verizon OSS Services. Such cooperation shall include, but not be limited to, the following:

- 8.8.1 Upon request by Verizon, DSLnet shall by no later than the fifteenth (15th) day of the last month of each Calendar Quarter submit to Verizon reasonable, good faith estimates of the volume of each type of OSS transaction that DSLnet anticipates submitting in each week of the next Calendar Quarter.
- 8.8.2 DSLnet shall reasonably cooperate with Verizon in submitting orders for Verizon Services and otherwise using the Verizon OSS Services; in order to avoid exceeding the capacity or capabilities of such Verizon OSS Services.
- 8.8.3 DSLnet shall participate in cooperative testing of Verizon OSS Services and shall provide assistance to Verizon in identifying and correcting mistakes, omissions, interruptions, delays, errors, defects, faults, failures, or other deficiencies, in Verizon OSS Services.

8.9 Verizon Access to Information Related to DSLnet Customers.

- 8.9.1 Verizon shall have the right to access, use and disclose information related to DSLnet Customers that is in Verizon's possession (including, but not limited to, in Verizon OSS Facilities) to the extent such access, use and/or disclosure has been authorized by the DSLnet Customer in the manner required by Applicable Law.
- 8.9.2 Upon request by Verizon, DSLnet shall negotiate in good faith and enter into a contract with Verizon, pursuant to which Verizon may obtain access to DSLnet's operations support systems (including, systems for pre-ordering, ordering, provisioning, maintenance and repair, and billing) and information contained in such systems, to permit Verizon to obtain information related to DSLnet Customers (as authorized by the applicable DSLnet Customer), to permit Customers to transfer service from one Telecommunications Carrier to another, and for such other purposes as may be permitted by Applicable Law.

8.10 Verizon Pre-OSS Services.

- 8.10.1 As used in this Section 8, "Verizon Pre-OSS Service" means a service which allows the performance of an activity which is comparable to an activity to be performed through a Verizon OSS Service and which Verizon offers to provide to DSLnet prior to, or in lieu of, Verizon's provision of the Verizon OSS Service to DSLnet. The term "Verizon Pre-OSS Service" includes, but is not limited to, the activity of placing orders for Verizon Services through a telephone facsimile communication.
- 8.10.2 Subject to the requirements of Applicable Law, the Verizon Pre-OSS Services that will be offered by Verizon shall be as determined by Verizon and Verizon shall have the right to change Verizon Pre-OSS Services, from time-to-time, without the consent of DSLnet.
- 8.10.3 Subject to the requirements of Applicable Law, the rates for Verizon Pre-OSS Services shall be as determined by Verizon and shall be subject to change by Verizon from time to time.
- 8.10.4 The provisions of Sections 8.4 through 8.8 of this Attachment shall also apply to Verizon Pre-OSS Services. For the purposes of this Section 8.10: (a) references in Sections 8.4 through 8.8 of this Attachment to

Verizon OSS Services shall be deemed to include Verizon Pre-OSS Services; and, (b) references in Sections 8.4 through 8.8 of this Attachment to Verizon OSS Information shall be deemed to include information made available to DSLnet through Verizon Pre-OSS Services.

8.11 Cancellations.

Verizon may cancel orders for service which have had no activity within thirty-one (31) consecutive calendar days after the original service due date.

9. Poles, Ducts, Conduits and Rights-of-Way

9.1 Verizon shall afford DSLnet non-discriminatory access to poles, ducts, conduits and rights-of-way owned or controlled by Verizon. Such access shall be provided in accordance with, but only to the extent required by, Applicable Law, pursuant to Verizon's applicable Tariffs, or, in the absence of an applicable Verizon Tariff, Verizon's generally offered form of license agreement, or, in the absence of such a Tariff and license agreement, a mutually acceptable agreement to be negotiated by the Parties.

9.2 DSLnet shall afford Verizon non-discriminatory access to poles, ducts, conduits and rights-of-way owned or controlled by DSLnet. Such access shall be provided pursuant to DSLnet's applicable Tariffs, or, in the absence of an applicable DSLnet Tariff, DSLnet's generally offered form of license agreement, or, in the absence of such a Tariff and license agreement, a mutually acceptable agreement to be negotiated by the Parties. The terms, conditions and prices offered to Verizon by DSLnet for such access shall be no less favorable than the terms, conditions and prices offered to DSLnet by Verizon for access to poles, ducts, conduits and rights of way owned or controlled by Verizon.

10. Telephone Numbers

10.1 This Section applies in connection with DSLnet Customers served by Telecommunications Services provided by Verizon to DSLnet for resale or a Local Switching Network Element provided by Verizon to DSLnet.

10.2 DSLnet's use of telephone numbers shall be subject to Applicable Law the rules of the North American Numbering Council and the North American Numbering Plan Administrator, the applicable provisions of this Agreement (including, but not limited to, this Section 10), and Verizon's practices and procedures for use and assignment of telephone numbers, as amended from time-to-time.

10.3 Subject to Sections 10.2 and 10.4 of this Attachment, if a Customer of either Verizon or DSLnet who is served by a Verizon Telecommunications Service ("VTS") or a Verizon Local Switching Network Element ("VLSNE") changes the LEC that serves the Customer using such VTS or VLSNE (including a change from Verizon to DSLnet, from DSLnet to Verizon, or from DSLnet to a LEC other than Verizon), after such change, the Customer may continue to use with such VTS or VLSNE the telephone numbers that were assigned to the VTS or VLSNE for the use of such Customer by Verizon immediately prior to the change.

10.4 Verizon shall have the right to change the telephone numbers used by a Customer if at any time: (a) the Customer requests service at a new location, that is not served by the Verizon switch and the Verizon rate center from which the Customer previously had service; (b) continued use of the telephone numbers is not technically feasible; or, (c) in the case of Telecommunications

Service provided by Verizon to DSLnet for resale, the type or class of service subscribed to by the Customer changes.

- 10.5 If service on a VTS or VLSNE provided by Verizon to DSLnet under this Agreement is terminated and the telephone numbers associated with such VTS or VLSNE have not been ported to a DSLnet switch, the telephone numbers shall be available for reassignment by Verizon to any person to whom Verizon elects to assign the telephone numbers, including, but not limited to, Verizon, Verizon Customers, DSLnet, or Telecommunications Carriers other than Verizon and DSLnet.
- 10.6 DSLnet may reserve telephone numbers only to the extent Verizon's Customers may reserve telephone numbers.

11. Routing for Operator Services and Directory Assistance Traffic

For a Verizon Telecommunications Service dial tone line purchased by DSLnet for resale pursuant to the Resale Attachment, upon request by DSLnet, Verizon will establish an arrangement that will permit DSLnet to route the DSLnet Customer's calls for operator and directory assistance services to a provider of operator and directory assistance services selected by DSLnet. Verizon will provide this routing arrangement in accordance with, but only to the extent required by, Applicable Law. Verizon will provide this routing arrangement pursuant to an appropriate written request submitted by DSLnet and a mutually agreed-upon schedule. This routing arrangement will be implemented at DSLnet's expense, with charges determined on an individual case basis. In addition to charges for initially establishing the routing arrangement, DSLnet will be responsible for ongoing monthly and/or usage charges for the routing arrangement. DSLnet shall arrange, at its own expense, the trunking and other facilities required to transport traffic to DSLnet's selected provider of operator and directory assistance services.

12. Good Faith Performance

If and, to the extent that, Verizon, prior to the Effective Date of this Agreement, has not provided in the Commonwealth of Pennsylvania a service or arrangement offered under this Attachment, Verizon reserves the right to negotiate in good faith with DSLnet reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such service or arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.

INTERCONNECTION ATTACHMENT

1. General

Each Party shall provide to the other Party, in accordance with this Agreement, but only to the extent required by Applicable Law, interconnection at (i) any technically feasible Point(s) of Interconnection on Verizon's network in a LATA and/or (ii) a fiber meet point to which the Parties mutually agree under the terms of this Agreement, for the transmission and routing of Telephone Exchange Service and Exchange Access. By way of example, a technically feasible Point of Interconnection on Verizon's network in a LATA would include an applicable Verizon Tandem Wire Center or Verizon End Office Wire Center but, notwithstanding any other provision of this Agreement or otherwise, would not include a DSLnet Wire Center, DSLnet switch or any portion of a transport facility provided by Verizon to DSLnet or another party between (x) a Verizon Wire Center or switch and (y) the Wire Center or switch of DSLnet or another party. For brevity's sake, the foregoing examples of locations that, respectively, are and are not "on Verizon's network" shall apply (and are hereby incorporated by reference) each time the term "on Verizon's network" is used in this Agreement.

2. Points of Interconnection and Trunk Types

2.1 Point(s) of Interconnection.

2.1.1 Each Party, at its own expense, shall provide transport facilities to the technically feasible Point(s) of Interconnection on Verizon's network in a LATA selected by DSLnet.

2.2 Trunk Types.

2.2.1 In interconnecting their networks pursuant to this Attachment, the Parties will use, as appropriate, the following separate and distinct trunk groups:

2.2.1.1 Interconnection Trunks for the transmission and routing of Reciprocal Compensation Traffic, translated LEC IntraLATA toll free service access code (e.g., 800/888/877) traffic, and IntraLATA Toll Traffic, between their respective Telephone Exchange Service Customers, Tandem Transit Traffic, and, Measured Internet Traffic, all in accordance with Sections 5 through 8 of this Attachment;

2.2.1.2 Access Toll Connecting Trunks for the transmission and routing of Exchange Access traffic, including translated InterLATA toll free service access code (e.g., 800/888/877) traffic, between DSLnet Telephone Exchange Service Customers and purchasers of Switched Exchange Access Service via a Verizon access Tandem in accordance with Sections 9 through 11 of this Attachment; and

2.2.1.3 Miscellaneous Trunk Groups as mutually agreed to by the Parties, including, but not limited to: (a) choke trunks for traffic congestion and testing; and, (b) untranslated IntraLATA/InterLATA toll free service access code (e.g. 800/888/877) traffic.

- 2.2.2 Other types of trunk groups may be used by the Parties as provided in other Attachments to this Agreement (e.g., 911/E911 Trunks; Information Services Trunks) or in other separate agreements between the Parties (e.g., Directory Assistance Trunks, Operator Services Trunks, BLV/BLVI Trunks or Trunks for 500/555 traffic).
- 2.2.3 In accordance with the terms of this Agreement, the Parties will deploy One-Way Interconnection Trunks (trunks with traffic going in one direction, including one-way trunks and uni-directional two-way trunks) and/or Two-Way Interconnection Trunks (trunks with traffic going in both directions).
- 2.2.4 DSLnet shall establish, at the technically feasible Point(s) of Interconnection on Verizon's network in a LATA, separate Interconnection Trunk group(s) between such POI(s) and each Verizon Tandem in a LATA with a subtending End Office(s) to which DSLnet originates calls for Verizon to terminate.
- 2.2.5 In the event the volume of traffic between a Verizon End Office and a technically feasible Point of Interconnection on Verizon's network in a LATA, which is carried by a Final Tandem Interconnection Trunk group, exceeds the Centium Call Second (Hundred Call Second) busy hour equivalent of one (1) DS-1 at any time and/or 200,000 minutes of use for a single month: (a) if One-Way Interconnection Trunks are used, the originating Party shall promptly establish new or augment existing End Office One-Way Interconnection Trunk groups between the Verizon End Office and the technically feasible Point of Interconnection on Verizon's network; or, (b) if Two-Way Interconnection Trunks are used, DSLnet shall promptly submit an ASR to Verizon to establish new or augment existing End Office Two-Way Interconnection Trunk group(s) between that Verizon End Office and the technically feasible Point of Interconnection on Verizon's network.
- 2.2.6 Except as otherwise agreed in writing by the Parties, the total number of Tandem Interconnection Trunks between a technically feasible Point of Interconnection on Verizon's network and a Verizon Tandem will be limited to a maximum of 240 trunks. In the event that the volume of traffic between a technically feasible Point of Interconnection on Verizon's network and a Verizon Tandem exceeds, or reasonably can be expected to exceed, the capacity of the 240 trunks, DSLnet shall promptly submit an ASR to Verizon to establish new or additional End Office Trunks to insure that the volume of traffic between the technically feasible Point of Interconnection on Verizon's network and the Verizon Tandem does not exceed the capacity of the 240 trunks.

2.3 One-Way Interconnection Trunks.

2.3.1 Where the Parties use One-Way Interconnection Trunks for the delivery of traffic from DSLnet to Verizon, DSLnet, at DSLnet's own expense, shall:

- 2.3.1.1 provide its own facilities for delivery of the traffic to the technically feasible Point(s) of Interconnection on Verizon's network in a LATA; and/or

- 2.3.1.2 obtain transport for delivery of the traffic to the technically feasible Point(s) of Interconnection on Verizon's network in a LATA (a) from a third-party, or, (b) if Verizon offers such transport pursuant to this Agreement or an applicable Verizon Tariff, from Verizon; and/or
 - 2.3.2 For each Tandem or End Office One-Way Interconnection Trunk group for delivery of traffic from DSLnet to Verizon with a utilization level of less than sixty percent (60%), unless the Parties agree otherwise, DSLnet will promptly submit ASRs to disconnect a sufficient number of Interconnection Trunks to attain a utilization level of approximately sixty percent (60%). In the event DSLnet fails to submit an ASR to disconnect One-Way Interconnection Trunks as required by this Section, Verizon may bill (and to DSLnet shall pay) for the excess Interconnection Trunks at the rates set forth in the Pricing Attachment.
 - 2.3.3 Where the Parties use One-Way Interconnection Trunks for the delivery of traffic from Verizon to DSLnet, Verizon, at Verizon's own expense, shall provide its own facilities for delivery of the traffic to the technically feasible Point(s) of Interconnection on Verizon's network in a LATA.
- 2.4 Two-Way Interconnection Trunks.
- 2.4.1 Where the Parties use Two-Way Interconnection Trunks for the exchange of traffic between Verizon and DSLnet, DSLnet, at its own expense, shall:
 - 2.4.1.1 provide its own facilities to the technically feasible Point(s) of Interconnection on Verizon's network in a LATA; and/or
 - 2.4.1.2 obtain transport to the technically feasible Point(s) of Interconnection on Verizon's network in a LATA (a) from a third-party, or, (b) if Verizon offers such transport pursuant to this Agreement or an applicable Verizon Tariff, from Verizon.
 - 2.4.2 Where the Parties use Two-Way Interconnection Trunks for the exchange of traffic between Verizon and DSLnet, Verizon, at its own expense, shall provide its own facilities to the technically feasible Point(s) of Interconnection on Verizon's network in a LATA.
 - 2.4.3 Prior to establishing any Two-Way Interconnection Trunks, DSLnet shall meet with Verizon to conduct a joint planning meeting ("Joint Planning Meeting"). At that Joint Planning Meeting, each Party shall provide to the other Party originating Centium Call Second (Hundred Call Second) information, and the Parties shall mutually agree on the appropriate initial number of End Office and Tandem Two-Way Interconnection Trunks and the interface specifications at the technically feasible Point(s) of Interconnection on Verizon's network in a LATA at which the Parties interconnect for the exchange of traffic. Where the Parties have agreed to convert existing One-Way Interconnection Trunks to Two-Way Interconnection Trunks, at the Joint Planning Meeting, the Parties shall also mutually agree on the conversion process and project intervals for conversion of such One-Way Interconnection Trunks to Two-Way Interconnection Trunks.

- 2.4.4 On a semi-annual basis, DSLnet shall submit a good faith forecast to Verizon of the number of End Office and Tandem Two-Way Interconnection Trunks that DSLnet anticipates Verizon will need to provide during the ensuing two (2) year period for the exchange of traffic between DSLnet and Verizon. DSLnet's trunk forecasts shall conform to the Verizon CLEC trunk forecasting guidelines as in effect at that time.
- 2.4.5 The Parties shall meet (telephonically or in person) from time to time, as needed, to review data on End Office and Tandem Two-Way Interconnection Trunks to determine the need for new trunk groups and to plan any necessary changes in the number of Two-Way Interconnection Trunks.
- 2.4.6 Two-Way Interconnection Trunks shall have SS7 Common Channel Signaling. The Parties agree to utilize B8ZS and Extended Super Frame (ESF) DS1 facilities, where available.
- 2.4.7 With respect to End Office Two-Way Interconnection Trunks, both Parties shall use an economic Centium Call Second (Hundred Call Second) equal to five (5).
- 2.4.8 Two-Way Interconnection Trunk groups that connect to a Verizon access Tandem shall be engineered using a design blocking objective of Neal-Wilkinson B.005 during the average time consistent busy hour. Two-Way Interconnection Trunk groups that connect to a Verizon local Tandem shall be engineered using a design blocking objective of Neal-Wilkinson B.01 during the average time consistent busy hour. Verizon and DSLnet shall engineer Two-Way Interconnection Trunks using BOC Notes on the LEC Networks SR-TSV-002275.
- 2.4.9 The performance standard for final Two-Way Interconnection Trunk groups shall be that no such Interconnection Trunk group will exceed its design blocking objective (B.005 or B.01, as applicable) for three (3) consecutive calendar traffic study months.
- 2.4.10 DSLnet shall determine and order the number of Two-Way Interconnection Trunks that are required to meet the applicable design blocking objective for all traffic carried on each Two-Way Interconnection Trunk group. DSLnet shall order Two-Way Interconnection Trunks by submitting ASRs to Verizon setting forth the number of Two-Way Interconnection Trunks to be installed and the requested installation dates within Verizon's effective standard intervals or negotiated intervals, as appropriate. DSLnet shall complete ASRs in accordance with OBF Guidelines as in effect from time to time.
- 2.4.11 Verizon may (but shall not be obligated to) monitor Two-Way Interconnection Trunk groups using service results for the applicable design blocking objective. If Verizon observes blocking in excess of the applicable design objective on any Tandem Two-Way Interconnection Trunk group and DSLnet has not notified Verizon that it has corrected such blocking, Verizon may submit to DSLnet a Trunk Group Service Request directing DSLnet to remedy the blocking. Upon receipt of a Trunk Group Service Request, DSLnet will complete an ASR to establish or augment the End Office Two-Way Interconnection Trunk group(s), or, if mutually agreed, to augment the

Tandem Two-Way Interconnection Trunk group with excessive blocking and submit the ASR to Verizon within five (5) Business Days.

2.4.12 The Parties will review all Tandem Two-Way Interconnection Trunk groups that reach a utilization level of seventy percent (70%), or greater, to determine whether those groups should be augmented. DSLnet will promptly augment all Tandem Two-Way Interconnection Trunk groups that reach a utilization level of eighty percent (80%) by submitting ASRs for additional trunks sufficient to attain a utilization level of approximately seventy percent (70%), unless the Parties agree that additional trunking is not required. For each Tandem Two-Way Interconnection Trunk group with a utilization level of less than sixty percent (60%), unless the Parties agree otherwise, DSLnet will promptly submit ASRs to disconnect a sufficient number of Interconnection Trunks to attain a utilization level of approximately sixty percent (60%) for each respective group, unless the Parties agree that the Two-Way Interconnection Trunks should not be disconnected. In the event DSLnet fails to submit an ASR for Two-Way Interconnection Trunks in conformance with this Section, Verizon may bill DSLnet for the excess Interconnection Trunks at the applicable Verizon rates.

2.4.13 Because Verizon will not be in control of when and how many Two-Way Interconnection Trunks are established between its network and DSLnet's network, Verizon's performance in connection with these Two-Way Interconnection Trunk groups shall not be subject to any performance measurements and remedies under this Agreement, and, except as otherwise required by Applicable Law, under any FCC or Commission approved carrier-to-carrier performance assurance guidelines or plan.

2.4.14 DSLnet will route its traffic to Verizon over the End Office and Tandem Two-Way Interconnection Trunks in accordance with SR-TAP-000191, including but not limited to those standards requiring that a call from DSLnet to a Verizon End Office will first be routed to the End Office Interconnection Trunk group between DSLnet and the Verizon End Office.

3. Alternative Interconnection Arrangements

- 3.1 In addition to the foregoing methods of Interconnection, and subject to mutual agreement of the Parties, the Parties may agree to establish a Fiber Meet arrangement.
- 3.2 The establishment of any Fiber Meet arrangement is expressly conditioned upon the Parties' reaching prior written agreement on routing, appropriate sizing and forecasting, equipment, ordering, provisioning, maintenance, repair, testing, augment, and compensation, procedures and arrangements, reasonable distance limitations, and on any other arrangements necessary to implement the Fiber Meet arrangement.
- 3.3 Except as otherwise agreed by the Parties, Fiber Meet arrangements shall be used only for the termination of Reciprocal Compensation Traffic, Measured Internet Traffic, and IntraLATA Toll Traffic.

4. Initiating Interconnection

- 4.1 If DSLnet determines to offer Telephone Exchange Services and to interconnect with Verizon in any LATA in which Verizon also offers Telephone Exchange Services and in which the Parties are not already interconnected pursuant to this Agreement, DSLnet shall provide written notice to Verizon of the need to establish Interconnection in such LATA pursuant to this Agreement.
- 4.2 The notice provided in Section 4.1 of this Attachment shall include (a) the initial Routing Point(s); (b) the applicable technically feasible Point(s) of Interconnection on Verizon's network to be established in the relevant LATA in accordance with this Agreement; (c) DSLnet's intended Interconnection activation date; (d) a forecast of DSLnet's trunking requirements conforming to Section 14.2 of this Attachment; and (e) such other information as Verizon shall reasonably request in order to facilitate Interconnection.
- 4.3 The interconnection activation date in the new LATA shall be mutually agreed to by the Parties after receipt by Verizon of all necessary information as indicated above. Within ten (10) Business Days of Verizon's receipt of DSLnet's notice provided for in Section 4.1 of this Attachment, Verizon and DSLnet shall confirm the technically feasible Point of Interconnection on Verizon's network in the new LATA and the mutually agreed upon Interconnection activation date for the new LATA.

5. Transmission and Routing of Telephone Exchange Service Traffic

5.1 Scope of Traffic.

Section 5 prescribes parameters for Interconnection Trunks used for Interconnection pursuant to Sections 2 through 4 of this Attachment.

5.2 Trunk Group Connections and Ordering.

- 5.2.1 For both One-Way and Two-Way Interconnection Trunks, if DSLnet wishes to use a technically feasible interface other than a DS-1 or a DS-3 facility at the POI, the Parties shall negotiate reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.
- 5.2.2 When One-Way or Two-Way Interconnection Trunks are provisioned using a DS-3 interface facility, if DSLnet orders the multiplexed DS-3 facilities to a Verizon Central Office that is not designated in the NECA 4 Tariff as the appropriate Intermediate-Hub location (i.e., the Intermediate Hub location in the appropriate Tandem subtending area based on the LERG), and the provision of such facilities to the subject Central Office is technically feasible, the Parties shall negotiate in good faith reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.
- 5.2.3 Each Party will identify its Carrier Identification Code, a three or four digit numeric code obtained from Telcordia, to the other Party when ordering a trunk group.

5.2.4 When SS7 signaling is not used, unless mutually agreed to by both Parties, each Party will outpulse ten (10) digits to the other Party.

5.2.5 Each Party will use commercially reasonable efforts to monitor trunk groups under its control and to augment those groups using generally accepted trunk-engineering standards so as to not exceed blocking objectives. Each Party agrees to use modular trunk-engineering techniques for trunks subject to this Attachment.

5.3 Switching System Hierarchy and Trunking Requirements.

For purposes of routing DSLnet traffic to Verizon, the subtending arrangements between Verizon Tandem Switches and Verizon End Office Switches shall be the same as the Tandem/End Office subtending arrangements Verizon maintains for the routing of its own or other carriers' traffic (i.e., traffic will be routed to the appropriate Verizon Tandem subtended by the terminating End Office serving the Verizon Customer). For purposes of routing Verizon traffic to DSLnet, the subtending arrangements between DSLnet Tandem Switches and DSLnet End Office Switches shall be the same as the Tandem/End Office subtending arrangements that DSLnet maintains for the routing of its own or other carriers' traffic.

5.4 Signaling.

Each Party will provide the other Party with access to its databases and associated signaling necessary for the routing and completion of the other Party's traffic in accordance with the provisions contained in the Unbundled Network Element Attachment or applicable access tariff.

5.5 Grades of Service.

The Parties shall initially engineer and shall monitor and augment all trunk groups consistent with the Joint Process as set forth in Section 14.1 of this Attachment.

6. Traffic Measurement and Billing over Interconnection Trunks

6.1 For billing purposes, each Party shall pass Calling Party Number (CPN) information on at least ninety-five percent (95%) of calls carried over the Interconnection Trunks.

6.1.1 As used in this Section 6, "Traffic Rate" means the applicable Reciprocal Compensation Traffic rate, Measured Internet Traffic rate, intrastate Switched Exchange Access Service rate, interstate Switched Exchange Access Service rate, or intrastate/interstate Tandem Transit Traffic rate, as provided in the Pricing Attachment, an applicable Tariff, or, for Measured Internet Traffic, the FCC Internet Order.

6.1.2 If the originating Party passes CPN on ninety-five percent (95%) or more of its calls, the receiving Party shall bill the originating Party the Traffic Rate applicable to each relevant minute of traffic for which CPN is passed. For any remaining (up to 5%) calls without CPN information, the receiving Party shall bill the originating Party for such traffic at the Traffic Rate applicable to each relevant minute of traffic, in direct proportion to the minutes of use of calls passed with CPN information.

- 6.1.3 If the originating Party passes CPN on less than ninety-five percent (95%) of its calls and the originating Party chooses to combine Reciprocal Compensation Traffic and Toll Traffic on the same trunk group, the receiving Party shall bill the higher of its interstate Switched Exchange Access Service rates or its intrastate Switched Exchange Access Services rates for all traffic that is passed without CPN, unless the Parties agree that other rates should apply to such traffic.
- 6.2 At such time as a receiving Party has the capability, on an automated basis, to use such CPN to classify traffic delivered over Interconnection Trunks by the other Party by Traffic Rate type (e.g., Reciprocal Compensation Traffic/Measured Internet Traffic, intrastate Switched Exchange Access Service, interstate Switched Exchange Access Service, or intrastate/interstate Tandem Transit Traffic), such receiving Party shall bill the originating Party the Traffic Rate applicable to each relevant minute of traffic for which CPN is passed. If the receiving Party lacks the capability, on an automated basis, to use CPN information on an automated basis to classify traffic delivered by the other Party by Traffic Rate type, the originating Party will supply Traffic Factor 1 and Traffic Factor 2. The Traffic Factors shall be supplied in writing by the originating Party within thirty (30) days of the Effective Date and shall be updated in writing by the originating Party quarterly. Measurement of billing minutes for purposes of determining terminating compensation shall be in conversation seconds (the time in seconds that the Parties equipment is used for a completed call, measured from the receipt of answer supervision to the receipt of disconnect supervision). Measurement of billing minutes for originating toll free service access code (e.g., 800/888/877) calls shall be in accordance with applicable Tariffs. Determination as to whether traffic is Reciprocal Compensation Traffic or Measured Internet Traffic shall be made in accordance with Paragraphs 8 and 79, and other applicable provisions, of the FCC Internet Order (including, but not limited to, in accordance with the rebuttable presumption established by the FCC Internet Order that traffic delivered to a carrier that exceeds a 3:1 ratio of terminating to originating traffic is Measured Internet Traffic, and in accordance with the process established by the FCC Internet Order for rebutting such presumption before the Commission).
- 6.3 Each Party reserves the right to audit all Traffic, up to a maximum of two audits per calendar year, to ensure that rates are being applied appropriately; provided, however, that either Party shall have the right to conduct additional audit(s) if the preceding audit disclosed material errors or discrepancies. Each Party agrees to provide the necessary Traffic data in conjunction with any such audit in a timely manner.
- 6.4 Nothing in this Agreement shall be construed to limit either Party's ability to designate the areas within which that Party's Customers may make calls which that Party rates as "local" in its Customer Tariffs.
- 6.5 If and, to the extent that, a DSLnet Customer receives V/FX Traffic, DSLnet shall promptly provide notice thereof to Verizon (such notice to include, without limitation, the specific telephone number(s) that the Customer uses for V/FX Traffic, as well as the LATA in which the Customer's station is actually physically located) and shall not bill Verizon Reciprocal Compensation, intercarrier compensation or any other charges for calls placed by Verizon's Customers to such DSLnet Customers.

7. Reciprocal Compensation Arrangements Pursuant to Section 251(b)(5) of the Act

7.1 Reciprocal Compensation.

The Parties shall exchange Reciprocal Compensation Traffic at the technically feasible Point(s) of Interconnection on Verizon's network in a LATA designated in accordance with the terms of this Agreement. The Party originating Reciprocal Compensation Traffic shall compensate the terminating Party for the transport and termination of such traffic to its Customer in accordance with Section 251(b)(5) of the Act at the equal and symmetrical rates stated in the Pricing Attachment; it being understood and agreed that Verizon shall charge (and DSLnet shall pay Verizon) the End Office Reciprocal Compensation rate set forth in the Pricing Attachment for Reciprocal Compensation Traffic DSLnet physically delivers to a POI at the Verizon Wire Center in which the terminating Verizon End Office is located, and otherwise that Verizon shall charge (DSLnet shall pay Verizon) the Tandem Reciprocal Compensation rate set forth in the Pricing Attachment for Reciprocal Compensation Traffic DSLnet delivers to Verizon; it also being understood and agreed that DSLnet shall charge (and Verizon shall pay DSLnet) the End Office Reciprocal Compensation rate set forth in the Pricing Attachment for Reciprocal Compensation Traffic Verizon delivers to DSLnet, unless Verizon is required under Applicable Law to pay the Tandem Reciprocal Compensation rate set forth in the Pricing Attachment. These rates are to be applied at the technically feasible Point(s) of Interconnection on Verizon's network in a LATA at which the Parties interconnect, whether such traffic is delivered by Verizon for termination by DSLnet, or delivered by DSLnet for termination by Verizon. No additional charges shall be assessed by the terminating Party for the transport and termination of such traffic from the technically feasible Point(s) of Interconnection on Verizon's network in a LATA to its Customer; provided, however, for the avoidance of any doubt, DSLnet shall also pay Verizon, at the rates set forth in the Pricing Attachment, for any multiplexing, cross connects or other Collocation related Services that DSLnet obtains from Verizon. When such Reciprocal Compensation Traffic is delivered over the same Interconnection Trunks as Toll Traffic, any port, transport or other applicable access charges related to the delivery of Toll Traffic from the technically feasible Point of Interconnection on Verizon's network in a LATA to the terminating Party's Customer shall be prorated so as to apply only to the Toll Traffic. The designation of traffic as Reciprocal Compensation Traffic for purposes of Reciprocal Compensation shall be based on the actual originating and terminating points of the complete end-to-end communication.

7.2 Traffic Not Subject to Reciprocal Compensation.

- 7.2.1 Reciprocal Compensation shall not apply to interstate or intrastate Exchange Access (including, without limitation, Virtual Foreign Exchange Traffic (i.e., V/FX Traffic), Information Access, or exchange services for Exchange Access or Information Access.
- 7.2.2 Reciprocal Compensation shall not apply to Internet Traffic.
- 7.2.3 Reciprocal Compensation shall not apply to Toll Traffic, including, but not limited to, calls originated on a 1+ presubscription basis, or on a casual dialed (10XXX/101XXX) basis.
- 7.2.4 Reciprocal Compensation shall not apply to Optional Extended Local Calling Area Traffic.
- 7.2.5 Reciprocal Compensation shall not apply to special access, private line, or any other traffic that is not switched by the terminating Party.
- 7.2.6 Reciprocal Compensation shall not apply to Tandem Transit Traffic.

7.2.7 Reciprocal Compensation shall not apply to Voice Information Service Traffic (as defined in Section 5 of the Additional Services Attachment).

7.2.8 Reciprocal Compensation shall not apply to traffic that is not subject to Reciprocal Compensation under Section 251(b)(5) of the Act.

7.2.9 Reciprocal Compensation shall not apply to Virtual Foreign Exchange Traffic (i.e., V/FX Traffic). As used in this Agreement, "Virtual Foreign Exchange Traffic" or "V/FX Traffic" is defined as calls in which a DSLnet Customer is assigned a telephone number with an NXX Code (as set forth in the LERG) associated with an exchange that is different than the exchange (as set forth in the LERG) associated with the actual physical location of such Customer's station. For the avoidance of any doubt, DSLnet shall pay Verizon's originating access charges for all V/FX Traffic originated by a Verizon Customer, and DSLnet shall pay Verizon's terminating access charges for all V/FX Traffic originated by a DSLnet Customer.

7.3 The Reciprocal Compensation rates (including, but not limited to, the Reciprocal Compensation per minute of use charges) billed by DSLnet to Verizon shall not exceed the Reciprocal Compensation rates (including, but not limited to, Reciprocal Compensation per minute of use charges) billed by Verizon to DSLnet.

8. Other Types of Traffic

8.1 Notwithstanding any other provision of this Agreement or any Tariff: (a) the Parties' rights and obligations with respect to any intercarrier compensation that may be due in connection with their exchange of Internet Traffic shall be governed by the terms of the FCC Internet Order and other applicable FCC orders and FCC Regulations; and, (b) a Party shall not be obligated to pay any intercarrier compensation for Internet Traffic that is in excess of the intercarrier compensation for Internet Traffic that such Party is required to pay under the FCC Internet Order and other applicable FCC orders and FCC Regulations.

8.2 Subject to Section 8.1 of this Attachment, interstate and intrastate Exchange Access, Information Access, exchange services for Exchange Access or Information Access, and Toll Traffic, shall be governed by the applicable provisions of this Agreement and applicable Tariffs.

8.3 For any traffic originating with a third party carrier and delivered by DSLnet to Verizon, DSLnet shall pay Verizon the same amount that such third party carrier would have been obligated to pay Verizon for termination of that traffic at the location the traffic is delivered to Verizon by DSLnet.

8.4 Any traffic not specifically addressed in this Agreement shall be treated as required by the applicable Tariff of the Party transporting and/or terminating the traffic.

8.5 The Parties may also exchange Internet Traffic at the technically feasible Point(s) of Interconnection on Verizon's network in a LATA established hereunder for the exchange of Reciprocal Compensation Traffic. Any intercarrier compensation that may be due in connection with the Parties' exchange of Internet Traffic shall be applied at such technically feasible Point of Interconnection on Verizon's network in a LATA in accordance with the FCC Internet Order.

9. Transmission and Routing of Exchange Access Traffic

9.1 Scope of Traffic.

Section 9 prescribes parameters for certain trunks to be established over the interconnections specified in Sections 2 through 5 of this Attachment for the transmission and routing of traffic between DSLnet Telephone Exchange Service Customers and Interexchange Carriers ("Access Toll Connecting Trunks"), in any case where DSLnet elects to have its End Office Switch subtend a Verizon Tandem. This includes casually-dialed (1010XXX and 101XXXX) traffic.

9.2 Access Toll Connecting Trunk Group Architecture.

9.2.1 If DSLnet chooses to subtend a Verizon access Tandem, DSLnet's NPA/NXX must be assigned by DSLnet to subtend the same Verizon access Tandem that a Verizon NPA/NXX serving the same Rate Center Area subtends as identified in the LERG.

9.2.2 DSLnet shall establish Access Toll Connecting Trunks pursuant to applicable access Tariffs by which it will provide Switched Exchange Access Services to Interexchange Carriers to enable such Interexchange Carriers to originate and terminate traffic to and from DSLnet's Customers.

9.2.3 The Access Toll Connecting Trunks shall be two-way trunks. Such trunks shall connect the End Office DSLnet utilizes to provide Telephone Exchange Service and Switched Exchange Access to its Customers in a given LATA to the access Tandem(s) Verizon utilizes to provide Exchange Access in such LATA.

9.2.4 Access Toll Connecting Trunks shall be used solely for the transmission and routing of Exchange Access to allow DSLnet's Customers to connect to or be connected to the interexchange trunks of any Interexchange Carrier which is connected to a Verizon access Tandem.

10. Meet-Point Billing Arrangements

10.1 DSLnet and Verizon will establish Meet-Point Billing (MPB) arrangements in order to provide a common transport option to Switched Exchange Access Services customers via a Verizon access Tandem Switch in accordance with the Meet Point Billing guidelines contained in the OBF's MECAB and MECOD documents, except as modified herein, and in Verizon's applicable Tariffs. The arrangements described in this Section 10 are intended to be used to provide Switched Exchange Access Service where the transport component of the Switched Exchange Access Service is routed through an access Tandem Switch that is provided by Verizon.

10.2 In each LATA, the Parties shall establish MPB arrangements for the applicable DSLnet Routing Point/Verizon Serving Wire Center combinations.

10.3 Interconnection for the MPB arrangement shall occur at each of the Verizon access Tandems in the LATA, unless otherwise agreed to by the Parties.

10.4 DSLnet and Verizon will use reasonable efforts, individually and collectively, to maintain provisions in their respective state access Tariffs, and/or provisions within the National Exchange Carrier Association (NECA) Tariff No. 4, or any successor Tariff sufficient to reflect the MPB arrangements established pursuant to this Agreement.

- 10.5 In general, there are four alternative Meet-Point Billing arrangements possible, which are: Single Bill/Single Tariff, Multiple Bill/Single Tariff, Multiple Bill/Multiple Tariff, and Single Bill/Multiple Tariff, as outlined in the OBF MECAB Guidelines.

Each Party shall implement the "Multiple Bill/Single Tariff" or "Multiple Bill/Multiple Tariff" option, as appropriate, in order to bill an IXC for the portion of the MPB arrangement provided by that Party. Alternatively, in former Bell Atlantic service areas, upon agreement of the Parties, each Party may use the New York State Access Pool on its behalf to implement the Single Bill/Multiple Tariff or Single Bill/Single Tariff option, as appropriate, in order to bill an IXC for the portion of the MPB arrangement provided by that Party.

- 10.6 The rates to be billed by each Party for the portion of the MPB arrangement provided by it shall be as set forth in that Party's applicable Tariffs, or other document that contains the terms under which that Party's access services are offered. For each DSLnet Routing Point/Verizon Serving Wire Center combination, the MPB billing percentages for transport between the DSLnet Routing Point and the Verizon Serving Wire Center shall be calculated in accordance with the formula set forth in Section 10.17 of this Attachment.
- 10.7 Each Party shall provide the other Party with the billing name, billing address, and Carrier Identification Code (CIC) of the IXC, and identification of the Verizon Wire Center serving the IXC in order to comply with the MPB notification process as outlined in the MECAB document.
- 10.8 Verizon shall provide DSLnet with the Terminating Switched Access Detail Usage Data (EMI category 1101XX records) recorded at the Verizon access Tandem on cartridge or via such other media as the Parties may agree to, no later than ten (10) Business Days after the date the usage occurred.
- 10.9 DSLnet shall provide Verizon with the Originating Switched Access Detail Usage Data (EMI category 1101XX records) on cartridge or via such other media as the Parties may agree, no later than ten (10) Business Days after the date the usage occurred.
- 10.10 All usage data to be provided pursuant to Sections 10.8 and 10.9 of this Attachment shall be sent to the following addresses:

To DSLnet:

Customer Service Department
545 Long Wharf Drive, 5th Floor
New Haven, Connecticut 06511

For Verizon (Former BA service area):

New York State Access Pool
C/O ACM, Inc.
120 Erie Blvd.
Schenectady, NY 12305
Attn: Mark Ferri

Either Party may change its address for receiving usage data by notifying the other Party in writing pursuant to Section 29 of the General Terms and Conditions.

- 10.11 DSLnet and Verizon shall coordinate and exchange the billing account reference (BAR) and billing account cross reference (BACR) numbers or Operating Company Number ("OCN"), as appropriate, for the MPB arrangements described in this Section 10. Each Party shall notify the other if the level of billing or other BAR/BACR elements change, resulting in a new BAR/BACR number, or if the OCN changes.
- 10.12 Each Party agrees to provide the other Party with notification of any errors it discovers in MPB data within thirty (30) calendar days of the receipt of the original data. The other Party shall attempt to correct the error and resubmit the data within ten (10) Business Days of the notification. In the event the errors cannot be corrected within such ten- (10) Business-Day period, the erroneous data will be considered lost. In the event of a loss of data, whether due to uncorrectable errors or otherwise, both Parties shall cooperate to reconstruct the lost data and, if such reconstruction is not possible, shall accept a reasonable estimate of the lost data based upon prior usage data.
- 10.13 Either Party may request a review or audit of the various components of access recording up to a maximum of two (2) audits per calendar year. All costs associated with each review and audit shall be borne by the requesting Party. Such review or audit shall be conducted subject to Section 7 of the General Terms and Conditions and during regular business hours. A Party may conduct additional audits, at its expense, upon the other Party's consent, which consent shall not be unreasonably withheld.
- 10.14 Except as expressly set forth in this Agreement, nothing contained in this Section 10 shall create any liability for damages, losses, claims, costs, injuries, expenses or other liabilities whatsoever on the part of either Party.
- 10.15 MPB will apply for all traffic bearing the 500, 900, toll free service access code (e.g. 800/888/877) (to the extent provided by an IXC) or any other non-geographic NPA which may be designated for such traffic in the future.
- 10.16 In the event DSLnet determines to offer Telephone Exchange Services in a LATA in which Verizon operates an access Tandem Switch, Verizon shall permit and enable DSLnet to subtend the Verizon access Tandem Switch(es) designated for the Verizon End Offices in the area where there are located DSLnet Routing Point(s) associated with the NPA NXX(s) to/from which the Switched Exchange Access Services are homed.
- 10.17 Except as otherwise mutually agreed by the Parties, the MPB billing percentages for each Routing Point/Verizon Serving Wire Center combination shall be calculated according to the following formula, unless as mutually agreed to by the Parties:
- $$a / (a + b) = \text{DSLnet Billing Percentage}$$
- and
- $$b / (a + b) = \text{Verizon Billing Percentage}$$
- where:
- a = the airline mileage between DSLnet Routing Point and the actual point of interconnection for the MPB arrangement; and
- b = the airline mileage between the Verizon Serving Wire Center and

the actual point of interconnection for the MPB arrangement.

10.18 DSLnet shall inform Verizon of each LATA in which it intends to offer Telephone Exchange Services and its calculation of the billing percentages which should apply for such arrangement. Within ten (10) Business Days of DSLnet's delivery of notice to Verizon, Verizon and DSLnet shall confirm the Routing Point/Verizon Serving Wire Center combination and billing percentages.

11. Toll Free Service Access Code (e.g., 800/888/877) Traffic

The following terms shall apply when either Party delivers toll free service access code (e.g., 800/877/888)("8YY") calls to the other Party. For the purposes of this Section 11, the terms "translated" and "untranslated" refers to those toll free service access code calls that have been queried ("translated") or have not been queried ("untranslated") to an 8YY database. Except as otherwise agreed to by the Parties, all DSLnet originating "untranslated" 8YY traffic will be routed over a separate One-Way Trunk group.

11.1 When DSLnet delivers translated 8YY calls to Verizon for completion,

11.1.1 to an IXC, DSLnet shall:

11.1.1.1 provide an appropriate EMI record to Verizon for processing and Meet Point Billing in accordance with Section 10 of this Attachment; and

11.1.1.2 bill the IXC the DSLnet query charge associated with the call.

11.1.2 to Verizon or another LEC that is a toll free service access code service provider in the LATA, DSLnet shall:

11.1.2.1 provide an appropriate EMI record to the toll free service access code service provider; and

11.1.2.2 bill to the toll free service access code service provider the DSLnet's Tariffed Feature Group D ("FGD") Switched Exchange Access or Reciprocal Compensation rates, as applicable, and the DSLnet query charge; and

11.1.2.3 Verizon shall bill applicable Tandem Transit Service charges and associated passthrough charges to DSLnet.

11.2 When Verizon performs the query and delivers translated 8YY calls, originated by Verizon's or another LEC's Customer,

11.2.1 to DSLnet in its capacity as a toll free service access code service provider, Verizon shall:

11.2.1.1 bill DSLnet the Verizon query charge associated with the call as specified in the Pricing Attachment; and

11.2.1.2 provide an appropriate EMI record to DSLnet; and

11.2.1.3 bill DSLnet Verizon's Tariffed FGD Switched Exchange Access or Reciprocal Compensation rates as applicable.

11.3 When DSLnet delivers untranslated 8YY calls to Verizon for completion,

11.3.1 to an IXC, Verizon shall:

- 11.3.1.1 query the call and route the call to the appropriate IXC; and
- 11.3.1.2 provide an appropriate EMI record to DSLnet to facilitate billing to the IXC; and
- 11.3.1.3 bill the IXC the Verizon query charge associated with the call and any other applicable Verizon charges.

11.3.2 to Verizon or another LEC that is a toll free service access code service provider in the LATA, Verizon shall:

- 11.3.2.1 query the call and route the call to the appropriate LEC toll free service access code service provider; and
- 11.3.2.2 provide an appropriate EMI record to DSLnet; to facilitate billing to the LEC toll free service access code service provider; and
- 11.3.2.3 bill the LEC toll free service access code service provider the query charge associated with the call and any other applicable Verizon charges.

11.4 Verizon will not direct untranslated toll free service access code call to DSLnet.

12. Tandem Transit Traffic

- 12.1 As used in this Section 12, Tandem Transit Traffic is Telephone Exchange Service traffic that originates on DSLnet's network, and is transported through a Verizon Tandem to the Central Office of a CLEC, ILEC other than Verizon, Commercial Mobile Radio Service (CMRS) carrier, or other LEC, that subtends the relevant Verizon Tandem to which DSLnet delivers such traffic. Neither the originating nor terminating customer is a Customer of Verizon. Subtending Central Offices shall be determined in accordance with and as identified in the Local Exchange Routing Guide (LERG). Switched Exchange Access Service traffic is not Tandem Transit Traffic.
- 12.2 Tandem Transit Traffic Service provides DSLnet with the transport of Tandem Transit Traffic as provided below.
- 12.3 Tandem Transit Traffic may be routed over the Interconnection Trunks described in Sections 2 through 6 of this Attachment. DSLnet shall deliver each Tandem Transit Traffic call to Verizon with CCS and the appropriate Transactional Capabilities Application Part ("TCAP") message to facilitate full interoperability of CLASS Features and billing functions.
- 12.4 DSLnet shall exercise its best efforts to enter into a reciprocal Telephone Exchange Service traffic arrangement (either via written agreement or mutual Tariffs) with any CLEC, ILEC, CMRS carrier, or other LEC, to which it delivers Telephone Exchange Service traffic that transits Verizon's Tandem Office. If DSLnet does not enter into and provide notice to Verizon of the above referenced arrangement within 180 days of the initial traffic exchange with relevant third party carriers, then DSLnet will pay a monthly "Transit Service Billing Fee", as set forth in the Pricing Attachment, in addition to the Tandem Transit Traffic Service charges set forth in the Pricing Attachment.

- 12.5 DSLnet shall pay Verizon for Transit Service that DSLnet originates at the rate specified in the Pricing Attachment. Verizon reserves the right to assess to DSLnet any additional charges or costs the receiving CLEC, ILEC, CMRS carrier, or other LEC, imposes or levies on Verizon for the delivery or termination of such traffic, including any Switched Exchange Access Service charges. Payment of any terminating charges (access or otherwise) are the responsibility of DSLnet.
- 12.6 Except as set forth in this Section 12.6, Verizon will not provide Tandem Transit Traffic Service for Tandem Transit Traffic volumes that exceed the CCS busy hour equivalent of 200,000 combined minutes of use to a particular CLEC, ITC, CMRS carrier or other LEC for any month (the "Threshold Level"). At such time that DSLnet's Tandem Transit Traffic exceeds the Threshold Level, upon receipt of a written request from DSLnet, Verizon shall continue to provide Tandem Transit Service to DSLnet (for the carrier in respect to which the Threshold Level has been reached) for a period equal to sixty (60) days after the date upon which the Threshold Level was reached for the subject carrier (the "Transition Period"). During the Transition Period, in addition to any and all Tandem Transit Traffic rates and charges as provided in Section 12.5 hereof, DSLnet shall pay Verizon (a) a monthly "Transit Service Trunking Charge" for each subject carrier, as set forth in the Pricing Attachment, and (b) a monthly "Transit Service Billing Fee", as set forth in the Pricing Attachment. Upon DSLnet's receipt of Verizon's notice that the Threshold Level has been reached with respect to a specific carrier, DSLnet shall exercise its best efforts to enter into a reciprocal Telephone Exchange Service traffic agreement with such carrier for the purpose of seeking direct interconnection. If Verizon believes that DSLnet has not exercised good faith efforts promptly to obtain such agreement, Verizon may use the Dispute Resolution processes of this Agreement. If, at the end of the Transition Period Verizon does not terminate the Transit Traffic Service to DSLnet, DSLnet shall continue to pay Verizon (i) a monthly "Transit Service Trunking Charge" for each subject carrier, as set forth in the Pricing Attachment, and (ii) a monthly "Transit Service Billing Fee", as set forth in the Pricing Attachment.
- 12.7 If or when a third party carrier's Central Office subtends a DSLnet Central Office, then DSLnet shall offer to Verizon a service arrangement equivalent to or the same as Tandem Transit Service provided by Verizon to DSLnet as defined in this Section 12 such that Verizon may terminate calls to a Central Office of a CLEC, ILEC, CMRS carrier, or other LEC, that subtends a DSLnet Central Office ("Reciprocal Tandem Transit Service"). DSLnet shall offer such Reciprocal Transit Service arrangements under terms and conditions no less favorable than those provided in this Section 12.
- 12.8 Neither Party shall take any actions to prevent the other Party from entering into a direct and reciprocal traffic exchange agreement with any carrier to which it originates, or from which it terminates, traffic.

13. Number Resources, Rate Center Areas and Routing Points

- 13.1 Nothing in this Agreement shall be construed to limit or otherwise adversely affect in any manner either Party's right to employ or to request and be assigned any Central Office Codes ("NXX") pursuant to the Central Office Code Assignment Guidelines and any relevant FCC or Commission orders, as may be amended from time to time, or to establish, by Tariff or otherwise, Rate Center Areas and Routing Points corresponding to such NXX codes.
- 13.2 It shall be the responsibility of each Party to program and update its own switches and network systems pursuant to information provided on ASRs as well as the LERG in order to recognize and route traffic to the other Party's assigned

NXX codes. Except as expressly set forth in this Agreement, neither Party shall impose any fees or charges whatsoever on the other Party for such activities.

- 13.3 Unless otherwise required by Commission order, the Rate Center Areas will be the same for each Party. During the term of this Agreement, DSLnet shall adopt the Rate Center Area and Rate Center Points that the Commission has approved for Verizon within the LATA and Tandem serving area. DSLnet shall assign whole NPA-NXX codes to each Rate Center Area unless otherwise ordered by the FCC, the Commission or another governmental entity of appropriate jurisdiction, or the LEC industry adopts alternative methods of utilizing NXXs.
- 13.4 DSLnet will also designate a Routing Point for each assigned NXX code. DSLnet shall designate one location for each Rate Center Area in which the DSLnet has established NXX code(s) as the Routing Point for the NPA-NXXs associated with that Rate Center Area, and such Routing Point shall be within the same LATA as the Rate Center Area but not necessarily within the Rate Center Area itself. Unless specified otherwise, calls to subsequent NXXs of DSLnet will be routed in the same manner as calls to DSLnet's initial NXXs.
- 13.5 Notwithstanding anything to the contrary contained herein, nothing in this Agreement is intended, and nothing in this Agreement shall be construed, to in any way constrain DSLnet's choices regarding the size of the local calling area(s) that DSLnet may establish for its Customers, which local calling areas may be larger than, smaller than, or identical to Verizon's local calling areas.

14. Joint Network Implementation and Grooming Process; and Installation, Maintenance, Testing and Repair

14.1 Joint Network Implementation and Grooming Process.

Upon request of either Party, the Parties shall jointly develop an implementation and grooming process (the "Joint Grooming Process" or "Joint Process") which may define and detail, inter alia:

14.1.1 standards to ensure that Interconnection Trunks experience a grade of service, availability and quality which is comparable to that achieved on interoffice trunks within Verizon's network and in accord with all appropriate relevant industry-accepted quality, reliability and availability standards. Except as otherwise stated in this Agreement, trunks provided by either Party for Interconnection services will be engineered using a design-blocking objective of B.01.

14.1.2 the respective duties and responsibilities of the Parties with respect to the administration and maintenance of the trunk groups, including, but not limited to, standards and procedures for notification and discoveries of trunk disconnects;

14.1.3 disaster recovery provision escalations;

14.1.4 additional technically feasible Point(s) of Interconnection on Verizon's network in a LATA as provided in Section 2 of this Attachment; and

14.1.5 such other matters as the Parties may agree, including, e.g., End Office to End Office high usage trunks as good engineering practices may dictate.

14.2 Forecasting Requirements for Trunk Provisioning.

Within ninety (90) days of executing this Agreement, DSLnet shall provide Verizon a two (2)-year traffic forecast. This initial forecast will provide the amount of traffic to be delivered to and from Verizon over each of the Interconnection Trunk groups over the next eight (8) quarters. The forecast shall be updated and provided to Verizon on an as-needed basis but no less frequently than semiannually. All forecasts shall comply with the Verizon CLEC Interconnection Trunking Forecast Guide and shall include, at a minimum, Access Carrier Terminal Location (ACTL), traffic type (Reciprocal Compensation Traffic/Toll Traffic, Operator Services, 911, etc.), code (identifies trunk group), A location/Z location (CLLI codes for applicable Verizon Tandem and End Office switches to which DSLnet wishes to send traffic and the technically feasible Points of Interconnection on Verizon's network in a LATA at which the Parties will interconnect), interface type (e.g., DS1), and trunks in service each year (cumulative).

14.2.1 Initial Forecasts/Trunking Requirements. Because Verizon's trunking requirements will, at least during an initial period, be dependent on the Customer segments and service segments within Customer segments to whom DSLnet decides to market its services, Verizon will be largely dependent on DSLnet to provide accurate trunk forecasts for both inbound (from Verizon) and outbound (to Verizon) traffic. Verizon will, as an initial matter, provide the same number of trunks to terminate Reciprocal Compensation Traffic to DSLnet as DSLnet provides to terminate Reciprocal Compensation Traffic to Verizon. At Verizon's discretion, when DSLnet expressly identifies particular situations that are expected to produce traffic that is substantially skewed in either the inbound or outbound direction, Verizon will provide the number of trunks DSLnet suggests; provided, however, that in all cases Verizon's provision of the forecasted number of trunks to DSLnet is conditioned on the following: that such forecast is based on reasonable engineering criteria, there are no capacity constraints, and DSLnet's previous forecasts have proven to be reliable and accurate.

14.2.1.1 Monitoring and Adjusting Forecasts. Verizon will, for ninety (90) days, monitor traffic on each trunk group that it establishes at DSLnet's suggestion or request pursuant to the procedures identified in Section 14.2 of this Attachment. At the end of such ninety-(90) day period, Verizon may disconnect trunks that, based on reasonable engineering criteria and capacity constraints, are not warranted by the actual traffic volume experienced. If, after such initial ninety (90) day period for a trunk group, Verizon determines that any trunks in the trunk group in excess of two (2) DS-1s are not warranted by actual traffic volumes (considering engineering criteria for busy Centium Call Second (Hundred Call Second) and blocking percentages), then Verizon may hold DSLnet financially responsible for the excess facilities and disconnect such excess facilities.

14.2.1.2 In subsequent periods, Verizon may also monitor traffic for ninety (90) days on additional trunk groups that DSLnet suggests or requests Verizon to establish. If, after any such (90) day period, Verizon determines that any trunks in the trunk group are not warranted by actual traffic volumes (considering engineering criteria for busy hour Centium Call Second (Hundred Call Second) and blocking percentages),

then Verizon may hold DSLnet financially responsible for the excess facilities. At any time during the relevant ninety-(90) day period, DSLnet may request that Verizon disconnect trunks to meet a revised forecast. In such instances, Verizon may hold DSLnet financially responsible for the disconnected trunks retroactive to the start of the ninety (90) day period through the date such trunks are disconnected.

15. Number Portability - Section 251(B)(2)

15.1 Scope.

The Parties shall provide Number Portability (NP) in accordance with rules and regulations as from time to time prescribed by the FCC.

15.2 Procedures for Providing LNP ("Long-term Number Portability").

The Parties will follow the LNP provisioning process recommended by the North American Numbering Council (NANC) and adopted by the FCC. In addition, the Parties agree to follow the LNP ordering procedures established at the OBF. The Parties shall provide LNP on a reciprocal basis.

15.2.1 A Customer of one Party ("Party A") elects to become a Customer of the other Party ("Party B"). The Customer elects to utilize the original telephone number(s) corresponding to the Telephone Exchange Service(s) it previously received from Party A, in conjunction with the Telephone Exchange Service(s) it will now receive from Party B. After Party B has received authorization from the Customer in accordance with Applicable Law and sends an LSR to Party A, Parties A and B will work together to port the Customer's telephone number(s) from Party A's network to Party B's network.

15.2.2 When a telephone number is ported out of Party A's network, Party A will remove any non-proprietary line based calling card(s) associated with the ported number(s) from its Line Information Database (LIDB). Reactivation of the line-based calling card in another LIDB, if desired, is the responsibility of Party B or Party B's Customer.

15.2.3 When a Customer of Party A ports their telephone numbers to Party B and the Customer has previously secured a reservation of line numbers from Party A for possible activation at a future point, these reserved but inactive numbers may be ported along with the active numbers to be ported provided the numbers have been reserved for the Customer. Party B may request that Party A port all reserved numbers assigned to the Customer or that Party A port only those numbers listed by Party B. As long as Party B maintains reserved but inactive numbers ported for the Customer, Party A shall not reassign those numbers. Party B shall not reassign the reserved numbers to another Customer.

15.2.4 When a Customer of Party A ports their telephone numbers to Party B, in the process of porting the Customer's telephone numbers, Party A shall implement the ten-digit trigger feature where it is available. When Party A receives the porting request, the unconditional trigger shall be applied to the Customer's line before the due date of the porting

activity. When the ten-digit unconditional trigger is not available, Party A and Party B must coordinate the disconnect activity.

15.2.5 The Parties shall furnish each other with the Jurisdiction Information Parameter (JIP) in the Initial Address Message (IAM), containing a Local Exchange Routing Guide (LERG)-assigned NPA-NXX (6 digits) identifying the originating switch on calls originating from LNP capable switches.

15.2.6 Where LNP is commercially available, the NXXs in the office shall be defined as portable, except as noted in 15.2.7, and translations will be changed in the Parties' switches to open those NXXs for database queries in all applicable LNP capable offices within the LATA of the given switch(es). On a prospective basis, all newly deployed switches will be equipped with LNP capability and so noted in the LERG.

15.2.7 All NXXs assigned to LNP capable switches are to be designated as portable unless a NXX(s) has otherwise been designated as non-portable. Non-portable NXXs include NXX codes assigned to paging, cellular and wireless services; codes assigned for internal testing and official use and any other NXX codes required to be designated as non-portable by the rules and regulations of the FCC. NXX codes assigned to mass calling on a choked network may not be ported using LNP technology but are portable using methods established by the NANC and adopted by the FCC. On a prospective basis, newly assigned codes in switches capable of porting shall become commercially available for porting with the effective date in the network.

15.2.8 Both Parties' use of LNP shall meet the performance criteria specified by the FCC. Both Parties will act as the default carrier for the other Party in the event that either Party is unable to perform the routing necessary for LNP.

15.3 Procedures for Providing NP Through Full NXX Code Migration.

Where a Party has activated an entire NXX for a single Customer, or activated at least eighty percent (80%) of an NXX for a single Customer, with the remaining numbers in that NXX either reserved for future use by that Customer or otherwise unused, if such Customer chooses to receive Telephone Exchange Service from the other Party, the first Party shall cooperate with the second Party to have the entire NXX reassigned in the LERG (and associated industry databases, routing tables, etc.) to an End Office operated by the second Party. Such transfer will be accomplished with appropriate coordination between the Parties and subject to appropriate industry lead times for movements of NXXs from one switch to another. Neither Party shall charge the other in connection with this coordinated transfer.

15.4 Procedures for Providing INP (Interim Number Portability).

The Parties shall provide Interim Number Portability (INP) in accordance with rules and regulations prescribed from time to time by the FCC and state regulatory bodies, the Parties respective company procedures, and as set forth in this Section 15.4. The Parties shall provide INP on a reciprocal basis.

15.4.1 In the event that either Party, Party B, wishes to serve a Customer currently served at an End Office of the other Party, Party A, and that

End Office is not LNP-capable, Party A shall make INP available only where LNP is not commercially available or not required by FCC orders and regulations. INP will be provided by remote call forwarding (RCF) and/or direct inward dialing (DID) technology, which will forward terminating calls to Party B's End Office. Party B shall provide Party A with an appropriate "forward-to" number.

15.4.2 Prices for INP and formulas for sharing Terminating access revenues associated with INP shall be provided where applicable, upon request by either Party.

15.4.3 Either Party wishing to use DID to provide for INP must request a dedicated trunk group from the End Office where the DID numbers are currently served to the new serving-End Office. If there are no existing facilities between the respective End Offices, the dedicated facilities and transport trunks will be provisioned as unbundled service through the ASR provisioning process. The requesting party will reroute the DID numbers to the pre-positioned trunk group using the LSR provisioning process. DID trunk rates are contained in the Parties' respective tariffs.

15.4.4 The Parties Agree that, per FCC 98-275, Paragraph 16, effective upon the date LNP is available at any End Office of one Party, Party A, providing INP for Customers of the other Party, Party B, no further orders will be accepted for new INP at that End Office. Orders for new INP received prior to that date, and change orders for existing INP, shall be worked by Party A. Orders for new INP received by Party A on or after that date shall be rejected. Existing INP will be grandfathered, subject to Section 15.4.5 of this Attachment.

15.4.5 In offices equipped with LNP prior to September 1, 1999 for former Bell Atlantic offices and October 1, 2000 for former GTE offices, the Parties agree to work together to convert all existing INP-served Customers to LNP by December 31, 2000 in accordance with a mutually agreed to conversion process and schedule. If mutually agreed to by the Parties, the conversion period may be extended one time by no more than 90 days from December 31, 2000.

15.4.6 Upon availability of LNP after October 1, 2000 at an End Office of either Party, both Parties agree to work together to convert the existing INP-served Customers to LNP by no later than 90 days from the date of LNP availability unless otherwise agreed to by the Parties.

15.4.7 When, through no fault of Verizon's, all INP has not been converted to LNP at the end of the agreed to conversion period, then the remaining INPs will be changed to a functionally equivalent tariff service and billed to DSLnet at the tariff rate(s) for the subject jurisdiction.

15.5 Procedures for LNP Request.

The Parties shall provide for the requesting of End Office LNP capability on a reciprocal basis through a written request. The Parties acknowledge that Verizon has deployed LNP throughout its network in compliance with FCC 96-286 and other applicable FCC Regulations.

15.5.1 If Party B desires to have LNP capability deployed in an End Office of Party A, which is not currently capable, Party B shall issue a LNP

request to Party A. Party A will respond to the Party B, within ten (10) days of receipt of the request, with a date for which LNP will be available in the requested End Office. Party A shall proceed to provide for LNP in compliance with the procedures and timelines set forth in FCC 96-286, Paragraph 80, and FCC 97-74, Paragraphs 65 through 67.

15.5.2 The Parties acknowledge that each can determine the LNP-capable End Offices of the other through the Local Exchange Routing Guide (LERG). In addition the Parties shall make information available upon request showing their respective LNP-capable End Offices, as set forth in this Section 15.5.

16. Good Faith Performance

If and, to the extent that, Verizon, prior to the Effective Date of this Agreement, has not provided in the Commonwealth of Pennsylvania a service or arrangement offered under this Attachment, Verizon reserves the right to negotiate in good faith with DSLnet reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such service or arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.

RESALE ATTACHMENT

1. General

Verizon shall provide to DSLnet, in accordance with this Agreement (including, but not limited to, Verizon's applicable Tariffs) and the requirements of Applicable Law, Verizon's Telecommunications Services for resale by DSLnet; provided, that notwithstanding any other provision of this Agreement, Verizon shall be obligated to provide Telecommunications Services to DSLnet only to the extent required by Applicable Law and may decline to provide a Telecommunications Service to DSLnet to the extent that provision of such Telecommunications Service is not required by Applicable Law.

2. Use of Verizon Telecommunications Services

- 2.1 Verizon Telecommunications Services may be purchased by DSLnet under this Resale Attachment only for the purpose of resale by DSLnet as a Telecommunications Carrier. Verizon Telecommunications Services to be purchased by DSLnet for other purposes (including, but not limited to, DSLnet's own use) must be purchased by DSLnet pursuant to other applicable Attachments to this Agreement (if any), or separate written agreements, including, but not limited to, applicable Verizon Tariffs.
- 2.2 DSLnet shall not resell:
- 2.2.1 Residential service to persons not eligible to subscribe to such service from Verizon (including, but not limited to, business or other nonresidential Customers);
 - 2.2.2 Lifeline, Link Up America, or other means-tested service offerings, to persons not eligible to subscribe to such service offerings from Verizon;
 - 2.2.3 Grandfathered or discontinued service offerings to persons not eligible to subscribe to such service offerings from Verizon; or
 - 2.2.4 Any other Verizon service in violation of a restriction stated in this Agreement (including, but not limited to, a Verizon Tariff) that is not prohibited by Applicable Law.
 - 2.2.5 In addition to any other actions taken by DSLnet to comply with this Section 2.2, DSLnet shall take those actions required by Applicable Law to determine the eligibility of DSLnet Customers to purchase a service, including, but not limited to, obtaining any proof or certification of eligibility to purchase Lifeline, Link Up America, or other means-tested services, required by Applicable Law. DSLnet shall indemnify Verizon from any Claims resulting from DSLnet's failure to take such actions required by Applicable Law.
 - 2.2.6 Verizon may perform audits to confirm DSLnet's conformity to the provisions of this Section 2.2. Such audits may be performed twice per calendar year and shall be performed in accordance with Section 7 of the General Terms and Conditions.

- 2.3 DSLnet shall be subject to the same limitations that Verizon's Customers are subject to with respect to any Telecommunications Service that Verizon grandfathers or discontinues offering. Without limiting the foregoing, except to the extent that Verizon follows a different practice for Verizon Customers in regard to a grandfathered Telecommunications Service, such grandfathered Telecommunications Service: (a) shall be available only to a Customer that already has such Telecommunications Service; (b) may not be moved to a new service location; and (c) will be furnished only to the extent that facilities continue to be available to provide such Telecommunications Service.
- 2.4 DSLnet shall not be eligible to participate in any Verizon plan or program under which Verizon Customers may obtain products or services, which are not Verizon Telecommunications Services, in return for trying, agreeing to purchase, purchasing, or using Verizon Telecommunications Services.
- 2.5 In accordance with 47 CFR § 51.617(b), Verizon shall be entitled to all charges for Verizon Exchange Access services used by interexchange carriers to provide service to DSLnet Customers.

3. Availability of Verizon Telecommunications Services

- 3.1 Verizon will provide a Verizon Telecommunications Service to DSLnet for resale pursuant to this Attachment where and to the same extent, but only where and to the same extent that such Verizon Telecommunications Service is provided to Verizon's Customers.
- 3.2 Except as otherwise required by Applicable Law, subject to Section 3.1 of this Attachment, Verizon shall have the right to add, modify, grandfather, discontinue or withdraw Verizon Telecommunications Services at any time, without the consent of DSLnet.
- 3.3 To the extent required by Applicable Law, the Verizon Telecommunications Services to be provided to DSLnet for resale pursuant to this Attachment will include a Verizon Telecommunications Service customer-specific contract service arrangement ("CSA") (such as a customer specific pricing arrangement or individual case based pricing arrangement) that Verizon is providing to a Verizon Customer at the time the CSA is requested by DSLnet.

4. Responsibility for Charges

DSLnet shall be responsible for and pay all charges for any Verizon Telecommunications Services provided by Verizon pursuant to this Resale Attachment.

5. Operations Matters

5.1 Facilities.

- 5.1.1 Verizon and its suppliers shall retain all of their right, title and interest in all facilities, equipment, software, information, and wiring used to provide Verizon Telecommunications Services.
- 5.1.2 Verizon shall have access at all reasonable times to DSLnet Customer locations for the purpose of installing, inspecting, maintaining, repairing, and removing, facilities, equipment, software, and wiring used to provide the Verizon Telecommunications Services. DSLnet shall, at DSLnet's expense, obtain any rights and authorizations necessary for such access.

5.1.3 Except as otherwise agreed to in writing by Verizon, Verizon shall not be responsible for the installation, inspection, repair, maintenance, or removal of facilities, equipment, software, or wiring provided by DSLnet or DSLnet Customers for use with Verizon Telecommunications Services.

5.2 Branding.

5.2.1 Except as stated in Section 5.2.2 of this Attachment, in providing Verizon Telecommunications Services to DSLnet, Verizon shall have the right (but not the obligation) to identify the Verizon Telecommunications Services with Verizon's trade names, trademarks and service marks ("Verizon Marks"), to the same extent that these Services are identified with Verizon's Marks when they are provided to Verizon's Customers. Any such identification of Verizon's Telecommunications Services shall not constitute the grant of a license or other right to DSLnet to use Verizon's Marks.

5.2.2 To the extent required by Applicable Law, upon request by DSLnet and at prices, terms and conditions to be negotiated by DSLnet and Verizon, Verizon shall provide Verizon Telecommunications Services for resale that are identified by DSLnet's trade name, or that are not identified by trade name, trademark or service mark.

5.2.3 If Verizon uses a third-party contractor to provide Verizon Operator Services or Verizon Directory Assistance Services, DSLnet will be responsible for entering into a direct contractual arrangement with the third-party contractor at DSLnet's expense (a) to obtain identification of Verizon Operator Services or Verizon Directory Assistance Services purchased by DSLnet for resale with DSLnet's trade name, or (b) to obtain removal of Verizon Marks from Verizon Operator Services or Verizon Directory Assistance Services purchased by DSLnet for resale.

6. Rates and Charges

The rates and charges for Verizon Telecommunication Services purchased by DSLnet for resale pursuant to this Attachment shall be as provided in this Attachment and the Pricing Attachment.

7. Good Faith Performance

If and, to the extent that, Verizon, prior to the Effective Date of this Agreement, has not provided in the Commonwealth of Pennsylvania a service or arrangement offered under this Attachment, Verizon reserves the right to negotiate in good faith with DSLnet reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such service or arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.

NETWORK ELEMENTS ATTACHMENT

1. General

- 1.1 Verizon shall provide to DSLnet, in accordance with this Agreement (including, but not limited to, Verizon's applicable Tariffs) and the requirements of Applicable Law, access to Verizon's Network Elements on an unbundled basis and in combinations (Combinations); provided, however, that notwithstanding any other provision of this Agreement, Verizon shall be obligated to provide unbundled Network Elements (UNEs) and Combinations to DSLnet only to the extent required by Applicable Law and may decline to provide UNEs or Combinations to DSLnet to the extent that provision of such UNEs or Combinations is not required by Applicable Law.
- 1.2 Verizon shall be obligated to combine UNEs that are not already combined in Verizon's network only to the extent required by Applicable Law. Except as otherwise required by Applicable Law: (a) Verizon shall be obligated to provide a UNE or Combination pursuant to this Agreement only to the extent such UNE or Combination, and the equipment and facilities necessary to provide such UNE or Combination, are available in Verizon's network; and (b) Verizon shall have no obligation to construct or deploy new facilities or equipment to offer any UNE or Combination.
- 1.3 DSLnet may use a UNE or Combination only for those purposes for which Verizon is required by Applicable Law to provide such UNE or Combination to DSLnet. Without limiting the foregoing, DSLnet may use a UNE or Combination (a) only to provide a Telecommunications Service and (b) to provide Exchange Access services only to the extent that Verizon is required by Applicable Law to provide such UNE or Combination to DSLnet in order to allow DSLnet to provide such Exchange Access services.
- 1.4 Notwithstanding any other provision of this Agreement:
 - 1.4.1 To the extent Verizon is required by a change in Applicable Law to provide to DSLnet a UNE or Combination that is not offered under this Agreement to DSLnet as of the Effective Date, the terms, conditions and prices for such UNE or Combination (including, but not limited to, the terms and conditions defining the UNE or Combination and stating when and where the UNE or Combination will be available and how it will be used, and terms, conditions and prices for pre-ordering, ordering, provisioning, repair, maintenance and billing) shall be as provided in an applicable Verizon Tariff, or, in the absence of an applicable Verizon Tariff, as mutually agreed in writing by the Parties.
 - 1.4.2 Verizon shall not be obligated to provide to DSLnet, and DSLnet shall not request from Verizon, access to a proprietary advanced intelligent network service.
- 1.5 Without limiting Verizon's rights pursuant to Applicable Law or any other section of this Agreement to terminate its provision of a UNE or a Combination, if Verizon provides a UNE or Combination to DSLnet, and the Commission, the FCC, a court or other governmental body of appropriate jurisdiction determines or has determined that Verizon is not required by Applicable Law to provide such UNE or Combination, Verizon may terminate its provision of such UNE or Combination to DSLnet. If Verizon terminates its provision of a UNE or a Combination to

DSLnet pursuant to this Section 1.5 and DSLnet elects to purchase other services offered by Verizon in place of such UNE or Combination, then: (a) Verizon shall reasonably cooperate with DSLnet to coordinate the termination of such UNE or Combination and the installation of such services to minimize the interruption of service to Customers of DSLnet; and, (b) DSLnet shall pay all applicable charges for such services, including, but not limited to, all applicable installation charges.

- 1.6 Nothing contained in this Agreement shall be deemed to constitute an agreement by Verizon that any item identified in this Agreement as a Network Element is (i) a Network Element under Applicable Law, or (ii) a Network Element Verizon is required by Applicable Law to provide to DSLnet on an unbundled basis or in combination with other Network Elements.
- 1.7 If as the result of DSLnet Customer actions (i.e., Customer Not Ready ("CNR")), Verizon cannot complete requested work activity when a technician has been dispatched to the DSLnet Customer premises, DSLnet will be assessed a non-recurring charge associated with this visit. This charge will be the sum of the applicable Service Order charge as provided in the Pricing Attachment and the Premises Visit Charge as provided in Verizon's applicable retail or wholesale Tariff.

2. Verizon's Provision of Network Elements

Subject to the conditions set forth in Section 1 of this Attachment, in accordance with, but only to the extent required by, Applicable Law, Verizon shall provide DSLnet access to the following:

- 2.1 Loops, as set forth in Section 3 of this Attachment;
- 2.2 Line Sharing, as set forth in Section 4 of this Attachment;
- 2.3 Line Splitting, as set forth in Section 5 of this Attachment;
- 2.4 Sub-Loops, as set forth in Section 6 of this Attachment;
- 2.5 Inside Wire, as set forth in Section 7 of this Attachment;
- 2.6 Dark Fiber, as set forth in Section 8 of this Attachment;
- 2.7 Network Interface Device, as set forth in Section 9 of this Attachment;
- 2.8 Switching Elements, as set forth in Section 10 of this Attachment;
- 2.9 Interoffice Transmission Facilities (IOF), as set forth in Section 11 of this Attachment;
- 2.10 Signaling Networks and Call-Related Databases, as set forth in Section 12 of this Attachment;
- 2.11 Operations Support Systems, as set forth in Section 13 of this Attachment; and
- 2.12 Other UNEs in accordance with Section 14 of this Attachment.

3. Loop Transmission Types

- 3.1 Subject to the conditions set forth in Section 1 of this Attachment, Verizon shall allow DSLnet to access Loops unbundled from local switching and local

transport, in accordance with this Section 3 and the rates and charges provided in the Pricing Attachment. Verizon shall allow DSLnet access to Loops in accordance with, but only to extent required by, Applicable Law. The available Loop types are as set forth below:

- 3.1.1 "2 Wire Analog Voice Grade Loop" or "Analog 2W" provides an effective 2-wire channel with 2-wire interfaces at each end that is suitable for the transport of analog Voice Grade (nominal 300 to 3000 Hz) signals and loop-start signaling. This Loop type is more fully described in Verizon Technical Reference (TR)-72565, as revised from time-to-time. If "Customer-Specified Signaling" is requested, the Loop will operate with one of the following signaling types that may be specified when the Loop is ordered: loop-start, ground-start, loop-reverse-battery, and no signaling. Customer specified signaling is more fully described in Verizon TR-72570, as revised from time-to-time. Verizon will not build new facilities.
- 3.1.2 "4-Wire Analog Voice Grade Loop" or "Analog 4W" provides an effective 4-wire channel with 4-wire interfaces at each end that is suitable for the transport of analog Voice Grade (nominal 300 to 3000 Hz) signals. This Loop type will operate with one of the following signaling types that may be specified when the Loop is ordered: loop-start, ground-start, loop-reverse-battery, duplex, and no signaling. This Loop type is more fully described in Verizon TR-72570, as revised from time-to-time. Verizon will not build new facilities.
- 3.1.3 "2-Wire ISDN Digital Grade Loop" or "BRI ISDN" provides a channel with 2-wire interfaces at each end that is suitable for the transport of 160 kbps digital services using the ISDN 2B1Q line code. This Loop type is more fully described in American National Standards Institute (ANSI) T1.601-1998 and Verizon TR 72575, as revised from time-to-time. In some cases loop extension equipment may be necessary to bring the line loss within acceptable levels. Verizon will provide loop extension equipment only upon request. A separate charge will apply for loop extension equipment. The 2-Wire ISDN Digital Grade Loop is available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, DSLnet may order a 2-Wire Digital Compatible Loop using 2-wire ISDN ordering codes to provide similar capability. Verizon will not build new facilities.
- 3.1.4 "2-Wire ADSL-Compatible Loop" or "ADSL 2W" provides a channel with 2-wire interfaces at each end that is suitable for the transport of digital signals up to 8 Mbps toward the Customer and up to 1 Mbps from the Customer. This Loop type is more fully described in Verizon TR-72575, as revised from time-to-time. ADSL-Compatible Loops will be available only where existing copper facilities are available and meet applicable specifications. Verizon will not build new facilities. The upstream and downstream ADSL power spectral density masks and dc line power limits in Verizon TR 72575, as revised from time-to-time, must be met. The 2-Wire ADSL-Compatible Loop is available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, DSLnet may order a 2-Wire Digital Compatible Loop using 2-wire ADSL ordering codes to provide similar capability.
- 3.1.5 "2-Wire HDSL-Compatible Loop" or "HDSL 2W" consists of a single 2-wire non-loaded, twisted copper pair that meets the carrier serving area design criteria. This Loop type is more fully described in Verizon

TR-72575, as revised from time-to-time. The HDSL power spectral density mask and dc line power limits referenced in Verizon TR 72575, as revised from time-to-time, must be met. 2-Wire HDSL-Compatible Loops will be provided only where existing facilities are available and can meet applicable specifications. The 2-Wire HDSL-Compatible Loop is available only in the former Bell Atlantic Service areas. In the former GTE Service Areas only, DSLnet may order a 2-Wire Digital Compatible Loop using 2-Wire HDSL ordering codes to provide similar capability. Verizon will not build new facilities.

- 3.1.6 "4-Wire HDSL-Compatible Loop" or "HDSL 4W" consists of two 2-wire non-loaded, twisted copper pairs that meet the carrier serving area design criteria. This Loop type is more fully described in Verizon TR-72575, as revised from time-to-time. The HDSL power spectral density mask and dc line power limits referenced in Verizon TR 72575, as revised from time-to-time, must be met. 4-Wire HDSL-Compatible Loops will be provided only where existing facilities are available and can meet applicable specifications. Verizon will not build new facilities.
- 3.1.7 "2-Wire IDSL-Compatible Metallic Loop" consists of a single 2-wire non-loaded, twisted copper pair that meets revised resistance design criteria. This Loop is intended to be used with very-low band symmetric DSL systems that meet the Class 1 signal power limits and other criteria in the T1E1.4 loop spectrum management standard (T1E1.4/2000-002R3) and are not compatible with 2B1Q 160 kbps ISDN transport systems. The actual data rate achieved depends upon the performance of CLEC-provided modems with the electrical characteristics associated with the loop. This Loop type is more fully described in T1E1.4/2000-002R3, as revised from time-to-time. This loop cannot be provided via UDLC. The 2-Wire IDSL-Compatible Metallic Loop is available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, DSLnet may order a 2-Wire Digital Compatible Loop using ISDN ordering codes to provide similar capability. IDLC-compatible local loops will be provided only where facilities are available and can meet applicable specifications. Verizon will not build new facilities.
- 3.1.8 "2-Wire SDSL-Compatible Loop", is intended to be used with low band symmetric DSL systems that meet the Class 2 signal power limits and other criteria in the T1E1.4 loop spectrum management standard (T1E1.4/2000-002R3). This Loop consists of a single 2-wire non-loaded, twisted copper pair that meets Class 2 length limit in T1E1.4/2000-002R3. The data rate achieved depends on the performance of the CLEC-provided modems with the electrical characteristics associated with the loop. This Loop type is more fully described in T1E1.4/2000-002R3, as revised from time-to-time. The 2-Wire SDSL-Compatible Loop is available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, DSLnet may order a 2-Wire Digital Compatible Loop to provide similar capability. SDSL-compatible local loops will be provided only where facilities are available and can meet applicable specifications. Verizon will not build new facilities.
- 3.1.9 "4-Wire 56 kbps Loop" is a 4-wire Loop that provides a transmission path that is suitable for the transport of digital data at a synchronous rate of 56 kbps in opposite directions on such Loop simultaneously. A 4-Wire

56 kbps Loop consists of two pairs of non-loaded copper wires with no intermediate electronics or it consists of universal digital loop carrier with 56 kbps DDS dataport transport capability. Verizon shall provide 4-Wire 56 kbps Loops to DSLnet in accordance with, and subject to, the technical specifications set forth in Verizon TR-72575, as revised from time-to-time. Verizon will not build new facilities.

3.1.10 "DS-1 Loops" provide a digital transmission channel suitable for the transport of 1.544 Mbps digital signals. This Loop type is more fully described in Verizon TR 72575, as revised from time to time. The DS-1 Loop includes the electronics necessary to provide the DS-1 transmission rate. A DS-1 Loop will be provided only where the electronics necessary to provide the DS-1 transmission rate are at the requested installation date currently available for the requested DS-1 Loop. Verizon will not install new electronics. If the electronics necessary to provide Clear Channel (B8ZS) signaling are at the requested installation date currently available for a requested DS-1 Loop, upon request by DSLnet, the DS-1 Loop will be furnished with Clear Channel (B8ZS) signaling. Verizon will not install new electronics to furnish Clear Channel (B8ZS) signaling.

3.1.11 "DS-3 Loops" will support the transmission of isochronous bipolar serial data at a rate of 44.736 Mbps (the equivalent of 28 DS-1 channels). This Loop type is more fully described in Verizon TR 72575, as revised from time to time. The DS-3 Loop includes the electronics necessary to provide the DS-3 transmission rate. A DS-3 Loop will be provided only where the electronics necessary to provide the DS-3 transmission rate are at the requested installation date currently available for the requested DS-3 Loop. Verizon will not install new electronics and Verizon will not build new facilities.

3.1.12 In the former Bell Atlantic Service Areas only, "Digital Designed Loops" are comprised of designed loops that meet specific DSLnet requirements for metallic loops over 18k ft. or for conditioning of ADSL, HDSL, SDSL, IDSL, or BRI ISDN Loops. "Digital Designed Loops" may include requests for:

3.1.12.1 a 2W Digital Designed Metallic Loop with a total loop length of 18k to 30k ft., unloaded, with the option to remove bridged tap;

3.1.12.2 a 2W ADSL Loop of 12k to 18k ft. with an option to remove bridged tap (such a Loop with the bridged tap so removed shall be deemed to be a "2W ADSL Compatible Loop");

3.1.12.3 a 2W ADSL Loop of less than 12k ft. with an option to remove bridged tap (such a Loop with the bridged tap so removed shall be deemed to be a "2W ADSL Compatible Loop");

3.1.12.4 a 2W HDSL Loop of less than 12k ft. with an option to remove bridged tap;

3.1.12.5 a 4W HDSL Loop of less than 12k ft with an option to remove bridged tap;

- 3.1.12.6 a 2 W Digital Designed Metallic Loop with Verizon-placed ISDN loop extension electronics;
- 3.1.12.7 a 2W SDSL Loop with an option to remove bridged tap; and
- 3.1.12.8 a 2W IDSL Loop of less than 18k ft. with an option to remove bridged tap;
- 3.1.13 Verizon shall make Digital Designed Loops available DSLnet at the rates as set forth in the Pricing Attachment.
- 3.1.14 In the former GTE Service Areas only, "Conditioned Loops" are comprised of designed loops that meet specific DSLnet requirements for metallic loops over 12k ft. or for conditioning of 2-wire or 4-wire digital or BRI ISDN Loops. "Conditioned Loops" may include requests for:
 - 3.1.14.1 a 2W Digital Loop with a total loop length of 12k to 30k ft., unloaded, with the option to remove bridged tap (such a Loop, unloaded, with bridged tap so removed shall be deemed to be a "2W Digital Compatible Loop");
 - 3.1.14.2 a 2W Digital Loop of 12k to 18k ft. with an option to remove load coils and/or bridged tap (such a Loop with load coils and/or bridged tap so removed shall be deemed to be a "2W Digital Compatible Loop");
 - 3.1.14.3 a 2W Digital or 4W Digital Loop of less than 12k ft. with an option to remove bridged tap (such a 2W Loop with bridged tap so removed shall be deemed to be a "2W Digital Compatible Loop");
 - 3.1.14.4 a 2W Digital Loop with Verizon-placed ISDN loop extension electronics (such a Loop with ISDN loop extension electronics so placed shall be deemed to be a "2W Digital Compatible Loop").
- 3.1.15 Verizon shall make Conditioned Loops available to DSLnet at the rates as set forth in the Pricing Attachment.
- 3.2 The following ordering procedures shall apply to xDSL Compatible Loops, Digital Designed and Conditioned Loops:
 - 3.2.1 DSLnet shall place orders for xDSL Compatible Loops, Digital Designed and Conditioned Loops by delivering to Verizon a valid electronic transmittal Service Order or other mutually agreed upon type of Service Order. Such Service Order shall be provided in accordance with industry format and specifications or such format and specifications as may be agreed to by the Parties.
 - 3.2.2 In former Bell Atlantic Service Areas, Verizon is conducting a mechanized survey of existing Loop facilities, on a Central Office by Central Office basis, to identify those Loops that meet the applicable technical characteristics established by Verizon for compatibility with xDSL Compatible or BRI ISDN signals. The results of this survey will be stored in a mechanized database and made available to DSLnet as the process is completed in each Central Office. DSLnet must utilize

this mechanized loop qualification database, where available, in advance of submitting a valid electronic transmittal Service Order for an xDSL Compatible or BRI ISDN Loop. Charges for mechanized loop qualification information are set forth in the Pricing Attachment. In former GTE Service Areas, Verizon provides access to mechanized xDSL loop qualification information to help identify those loops that meet applicable technical characteristics for compatibility with xDSL Services that the CLEC may wish to offer to its end user Customers. DSLnet must access Verizon's mechanized loop qualification system through the use of the on-line computer interface at www.verizon.com/wise in advance of submitting a valid electronic transmittal Service Order for xDSL service arrangements. The loop qualification information provided by Verizon gives DSLnet the ability to determine loop composition, loop length and may provide other loop characteristics, when present, that may indicate incompatibility with xDSL Services such as load coils or Digital Loop Carrier. Information provided by the mechanized loop qualification system also indicates whether loop conditioning may be necessary. It is the responsibility of DSLnet to evaluate the loop qualification information provided by Verizon and determine whether a loop meets DSLnet requirements for xDSL Service, including determining whether conditioning should be ordered, prior to submitting an Order.

- 3.2.3 If the Loop is not listed in the mechanized database described in Section 3.2.2 of this Attachment, DSLnet must request a manual loop qualification, where such qualification is available, prior to submitting a valid electronic Service Order for an xDSL Compatible or BRI ISDN Loop. In general, Verizon will complete a manual loop qualification request within three (3) Business Days, although Verizon may require additional time due to poor record conditions, spikes in demand, or other unforeseen events. The manual loop qualification process is currently available in the former Bell Atlantic Service Areas only.
- 3.2.4 If a query to the mechanized loop qualification database or manual loop qualification indicates that a Loop does not qualify (e.g., because it does not meet the applicable technical parameters set forth in the Loop descriptions above), DSLnet may request an Engineering Query, where available, as described in Section 3.2.7 of this Attachment, to determine whether the result is due to characteristics of the loop itself (e.g., specific number and location of bridged taps, the specific number of load coils, or the gauge of the cable).
- 3.2.5 Once a Loop has been pre-qualified, DSLnet will submit a Service Order pursuant to Section 3.2.1 of this Attachment if it wishes to obtain the Loop.
 - 3.2.5.1 If the Loop is determined to be xDSL Compatible and if the Loop serving the serving address is usable and available to be assigned as a xDSL Compatible Loop, Verizon will initiate standard Loop provisioning and installation processes, and standard Loop provisioning intervals will apply.
 - 3.2.5.2 If the Loop is determined to be xDSL Compatible, but the Loop serving the service address is unusable or unavailable to be assigned as an xDSL Compatible Loop, Verizon will search the Customer's serving terminal for a suitable spare

facility. If an xDSL Compatible Loop is found within the serving terminal, Verizon will perform a Line and Station Transfer (or "pair swap") whereby the Verizon technician will transfer the Customer's existing service from one existing Loop facility onto an alternate existing xDSL Compatible Loop facility serving the same location. Verizon performs Line and Station Transfers in accordance with the procedures developed in the DSL Collaborative in the State of New York, NY PSC Case 00-C-0127. Standard intervals do not apply when Verizon performs a Line and Station Transfer, and additional charges shall apply as set forth in the Pricing Attachment.

- 3.2.6 If DSLnet submits a Service Order for an xDSL Compatible or BRI ISDN Loop that has not been prequalified, Verizon will query the Service Order back to DSLnet for qualification and will not accept such Service Order until the Loop has been prequalified on a mechanized or manual basis. If DSLnet submits a Service Order for an xDSL Compatible or BRI ISDN Loop that is, in fact, not compatible with the requested service (e.g. ADSL, HDSL etc.) in its existing condition, Verizon will respond back to DSLnet with a "Nonqualified" indicator and with information showing whether the non-qualified result is due to the presence of load coils, presence of digital loop carrier, or loop length (including bridged tap).
- 3.2.7 Where DSLnet has followed the prequalification procedure described above and has determined that a Loop is not compatible with xDSL technologies or BRI ISDN service in its existing condition, it may either request an Engineering Query, where available, to determine whether conditioning may make the Loop compatible with the applicable service; or if DSLnet is already aware of the conditioning required (e.g., where DSLnet has previously requested a qualification and has obtained loop characteristics), DSLnet may submit a Service Order for a Digital Designed Loop. Verizon will undertake to condition or extend the Loop in accordance with this Section 3.2 of this Attachment upon receipt of DSLnet's valid, accurate and pre-qualified Service Order for a Digital Designed Loop.
- 3.2.8 The Parties will make reasonable efforts to coordinate their respective roles in order to minimize provisioning problems. In general, where conditioning or loop extensions are requested by DSLnet, an interval of eighteen (18) Business Days will be required by Verizon to complete the loop analysis and the necessary construction work involved in conditioning and/or extending the loop as follows:
 - 3.2.8.1 Three (3) Business Days will be required following receipt of DSLnet's valid, accurate and pre-qualified Service Order for a Digital Designed or Conditioned Loop to analyze the loop and related plant records and to create an Engineering Work Order.
 - 3.2.8.2 Upon completion of an Engineering Work Order, Verizon will initiate the construction order to perform the changes/modifications to the Loop requested by DSLnet. Conditioning activities are, in most cases, able to be accomplished within fifteen (15) Business Days. Unforeseen conditions may add to this interval.

After the engineering and conditioning tasks have been completed, the standard Loop provisioning and installation process will be initiated, subject to Verizon's standard provisioning intervals.

- 3.2.9 If DSLnet requires a change in scheduling, it must contact Verizon to issue a supplement to the original Service Order. If DSLnet cancels the request for conditioning after a loop analysis has been completed but prior to the commencement of construction work, DSLnet shall compensate Verizon for an Engineering Work Order charge as set forth in the Pricing Attachment. If DSLnet cancels the request for conditioning after the loop analysis has been completed and after construction work has started or is complete, DSLnet shall compensate Verizon for an Engineering Work Order charge as well as the charges associated with the conditioning tasks performed as set forth in the Pricing Attachment.

3.3 Conversion of Live Telephone Exchange Service to Analog 2W Loops.

- 3.3.1 The following coordination procedures shall apply to "live" cutovers of Verizon Customers who are converting their Telephone Exchange Services to DSLnet Telephone Exchange Services provisioned over Analog 2W unbundled Local Loops ("Analog 2W Loops") to be provided by Verizon to DSLnet:

3.3.1.1 Coordinated cutover charges shall apply to conversions of live Telephone Exchange Services to Analog 2W Loops. When an outside dispatch is required to perform a conversion, additional charges may apply. If DSLnet does not request a coordinated cutover, Verizon will process DSLnet's order as a new installation subject to applicable standard provisioning intervals.

3.3.1.2 DSLnet shall request Analog 2W Loops for coordinated cutover from Verizon by delivering to Verizon a valid electronic Local Service Request ("LSR"). Verizon agrees to accept from DSLnet the date and time for the conversion designated on the LSR ("Scheduled Conversion Time"), provided that such designation is within the regularly scheduled operating hours of the Verizon Regional CLEC Control Center ("RCCC") and subject to the availability of Verizon's work force. In the event that Verizon's work force is not available, DSLnet and Verizon shall mutually agree on a New Conversion Time, as defined below. DSLnet shall designate the Scheduled Conversion Time subject to Verizon standard provisioning intervals as stated in the Verizon CLEC Handbook, as may be revised from time to time. Within three (3) Business Days of Verizon's receipt of such valid LSR, or as otherwise required by Applicable Law, Verizon shall provide DSLnet the scheduled due date for conversion of the Analog 2W Loops covered by such LSR.

3.3.1.3 DSLnet shall provide dial tone at the DSLnet Collocation site at least forty-eight (48) hours prior to the Scheduled Conversion Time.

3.3.1.4 Either Party may contact the other Party to negotiate a new Scheduled Conversion Time (the "New Conversion Time");

provided, however, that each Party shall use commercially reasonable efforts to provide four (4) business hours' advance notice to the other Party of its request for a New Conversion Time. Any Scheduled Conversion Time or New Conversion Time may not be rescheduled more than one (1) time in a Business Day, and any two New Conversion Times for a particular Analog 2W Loop shall differ by at least eight (8) hours, unless otherwise agreed to by the Parties.

- 3.3.1.5 If the New Conversion Time is more than one (1) business hour from the original Scheduled Conversion Time or from the previous New Conversion Time, the Party requesting such New Conversion Time shall be subject to the following:
 - 3.3.1.5.1 If Verizon requests to reschedule outside of the one (1) hour time frame above, the Analog 2W Loops Service Order Charge for the original Scheduled Conversion Time or the previous New Conversion Time shall be credited upon request from DSLnet; and
 - 3.3.1.5.2 If DSLnet requests to reschedule outside the one (1) hour time frame above, DSLnet shall be charged an additional Analog 2W Loops Service Order Charge for rescheduling the conversion to the New Conversion Time.
- 3.3.1.6 If DSLnet is not ready to accept service at the Scheduled Conversion Time or at a New Conversion Time, as applicable, an additional Service Order Charge shall apply. If Verizon is not available or ready to perform the conversion within thirty (30) minutes of the Scheduled Conversion Time or New Conversion Time, as applicable, Verizon and DSLnet will reschedule and, upon request from DSLnet, Verizon will credit the Analog 2W Loop Service Order Charge for the original Scheduled Conversion Time.
- 3.3.1.7 The standard time interval expected from disconnection of a live Telephone Exchange Service to the connection of the Analog 2W Loops to DSLnet is fifteen (15) minutes per Analog 2W Loop for all orders consisting of twenty (20) Analog 2W Loops or less. Orders involving more than twenty (20) Loops will require a negotiated interval.
- 3.3.1.8 Conversions involving LNP will be completed according to North American Numbering Council (NANC) standards, via the regional Number Portability Administration Center (NPAC).
- 3.3.1.9 If DSLnet requires Analog 2W Loop conversions outside of the regularly scheduled Verizon RCCC operating hours, such conversions shall be separately negotiated. Additional charges (e.g. overtime labor charges) may apply for desired dates and times outside of regularly scheduled RCCC operating hours.

3.4 Cooperative Testing.

In the former Bell Atlantic Service Areas only, DSLnet may request Cooperative Testing in conjunction with its request for an xDSL Compatible Loop or Digital Designed Loop. "Cooperative Testing" is a procedure whereby a Verizon technician and a DSLnet technician jointly verify that an xDSL Compatible Loop or Digital Designed Loop is properly installed and operational prior to Verizon's completion of the order. DSLnet* may request, at its option, Cooperative Testing, by entering a toll-free (e.g. 800/888/877) number in the Remarks field of the LSR of an xDSL Compatible or Digital Designed Loop Service Order, and the Verizon technician will call the toll-free number to perform the Cooperative Test. When both the Verizon and DSLnet technicians agree that the Loop test shows that the Loop is operational, the DSLnet technician will provide the Verizon technician with a serial number to acknowledge that the Loop is operational. Charges for Cooperative Testing are as set forth in the Pricing Attachment.

- 3.5 Verizon shall provide DSLnet access to its Loops at each of Verizon's Wire Centers for Loops terminating in that Wire Center. In addition, if DSLnet orders one or more Loops provisioned via Integrated Digital Loop Carrier or Remote Switching technology deployed as a Loop concentrator, Verizon shall, where available, move the requested Loop(s) to a spare physical Loop, if one is existing and available, at no additional charge to DSLnet. If, however, no spare physical Loop is available, Verizon shall within three (3) Business Days of DSLnet's request notify DSLnet of the lack of available facilities. Upon request and to the extent required by Applicable Law, Verizon will provide DSLnet access to the unbundled Local Loop through the demultiplexing of the integrated digitized Loop(s). Upon request and to the extent required by Applicable Law, Verizon will provide DSLnet access to the unbundled Local Loop at the Loop concentration site point. Notwithstanding anything to the contrary in this Agreement, standard provisioning intervals shall not apply to Loops provided under this Section 3.5.

4. **Line Sharing**

Subject to the conditions set forth in Section 1 of this Attachment and upon request by DSLnet, Verizon shall provide DSLnet line sharing in accordance with, and subject to, the rates, terms and conditions set forth in Verizon's PA PUC Tariff No. 216, as amended from time to time, that relate to or concern line sharing, and Verizon shall do so regardless of whether or not such rates, terms and conditions are effective ("Line Sharing"). Verizon shall provide DSLnet with access to Line Sharing in accordance with, but only to the extent required by, Applicable Law.

5. **Line Splitting**

Subject to the conditions set forth in Section 1 of this Attachment, Verizon shall provide DSLnet with access to line splitting in accordance with, and subject to, the rates, terms and conditions set forth in Verizon's PA PUC Tariff No. 216, as amended from time to time, that relate to or concern line splitting, and Verizon shall do so regardless of whether or not such rates, terms and conditions are effective ("Line Splitting"). Verizon shall provide DSLnet with access to Line Splitting in accordance with, but only to the extent required by, Applicable Law.

6. **Sub-Loop**

Subject to the conditions set forth in Section 1 of this Attachment and upon request by DSLnet, Verizon shall allow DSLnet to access Sub-Loops unbundled from local switching and transport, in accordance with the terms of Verizon's PA PUC Tariff No. 216, as

amended from time to time, that relate to or concern Sub-Loops, and Verizon shall do so regardless of whether or not such rates, terms and conditions are effective. Verizon shall allow DSLnet access to Sub-Loops in accordance with, but only to the extent required by, Applicable Law.

6.1 Collocation in Remote Terminals.

To the extent required by Applicable Law, Verizon shall allow DSLnet to collocate equipment in a Verizon remote terminal equipment enclosure in accordance with, and subject to, the rates, terms and conditions set forth in the Collocation Attachment and the Pricing Attachment.

7. Inside Wire

7.1 House and Riser.

[This Section Intentionally Left Blank].

8. Dark Fiber

8.1 Subject to the conditions set forth in Section 1 of this Attachment and upon request by DSLnet, Verizon shall provide DSLnet with access to unbundled Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF in accordance with, and subject to, the rates, terms and conditions provided in the Pricing Attachment and rates, terms and conditions of Verizon's applicable Tariffs. Access to unbundled Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF will be provided by Verizon only where existing facilities are available. Access to Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF will be provided in accordance with, but only to the extent required by, Applicable Law. Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF consist of Verizon optical transmission facilities without attached multiplexers, aggregation or other electronics. To the extent Verizon's Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF contain any lightwave repeaters (e.g., regenerators or optical amplifiers) installed thereon, Verizon shall not remove the same. Except as otherwise required by Applicable Law, the following terms and conditions apply to Verizon's Dark Fiber offerings.

8.2 In addition to the other terms and conditions of this Agreement, the following terms and conditions shall apply to Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF:

8.2.1 Verizon shall be required to provide a Dark Fiber Loop only where one end of the Dark Fiber Loop terminates at a Verizon accessible terminal in Verizon's Central Office that can be cross-connected to DSLnet's Collocation arrangement located in that same Verizon Central Office and the other end terminates at Verizon's accessible terminal located in Verizon's main termination point in the Customer premises in the same serving wire center. Verizon shall be required to provide a Dark Fiber Sub-Loop only where (1) one end of the Dark Fiber Sub-Loop terminates at Verizon's accessible terminal in Verizon's Central Office that can be cross-connected to DSLnet's Collocation arrangement located in that same Verizon Central Office and the other end terminates at Verizon's accessible terminal at a Verizon remote terminal equipment enclosure that can be cross-connected to DSLnet's Collocation arrangement or adjacent structure, or (2) one end of the Dark Fiber Sub-Loop terminates at Verizon's accessible terminal located at Verizon's main termination point located within the Customer

premises and the other end terminates at Verizon's accessible terminal at a Verizon remote terminal equipment enclosure that can be cross-connected to DSLnet's Collocation arrangement or adjacent structure, or (3) one end of the Dark Fiber Sub-Loop terminates at Verizon's accessible terminal at a Verizon remote terminal equipment enclosure that can be cross-connected to DSLnet's Collocation arrangement or adjacent structure and the other end terminates at Verizon's accessible terminal at another Verizon remote terminal equipment enclosure that can be cross-connected to DSLnet's Collocation arrangement or adjacent structure. A DSLnet demarcation point at a Customer premises shall be established in the main telco room of the Customer premises if Verizon is located in that room or, if the building does not have a main telco room or if Verizon is not located in that room, then at a location to be determined by Verizon. A DSLnet demarcation point at a Customer premises shall be established at a location that is no more than thirty (30) feet from Verizon's accessible terminal on which the Dark Fiber Loop or Dark Fiber Sub-Loop terminates. Verizon shall connect a Dark Fiber Loop or Dark Fiber Sub-Loop to the DSLnet demarcation point by installing a fiber jumper no greater than thirty (30) feet in length.

- 8.2.2 DSLnet may access a Dark Fiber Loop, a Dark Fiber Sub-Loop, or Dark Fiber IOF only at a pre-existing Verizon accessible terminal of such Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF, and DSLnet may not access a Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF at any other point, including, but not limited to, a splice point or case. Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF are not available to DSLnet unless such Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF are already terminated on an existing Verizon accessible terminal. Unused fibers located in a cable vault or a controlled environment vault, manhole or other location outside the Verizon Wire Center, and not terminated to a fiber patch panel, are not available to DSLnet.
- 8.2.3 Except if and, to the extent required by, Applicable Law, Verizon will not perform splicing (e.g., introduce additional splice points or open existing splice points or cases) to accommodate DSLnet's request.
- 8.2.4 Verizon shall perform all work necessary to install (1) a cross connect or a fiber jumper from a Verizon accessible terminal to a DSLnet Collocation arrangement or (2) from a Verizon accessible terminal to DSLnet's demarcation point at a Customer premises or DSLnet Central Office.
- 8.2.5 A "Dark Fiber Inquiry Form" must be submitted prior to submitting an ASR. Upon receipt of DSLnet's completed Dark Fiber Inquiry Form, Verizon will initiate a review of its cable records to determine whether Dark Fiber Loop(s), Dark Fiber Sub-Loop(s) or Dark Fiber IOF may be available between the locations and in the quantities specified. Verizon will respond within fifteen (15) Business Days from receipt of the DSLnet's Dark Fiber Inquiry Form, indicating whether Dark Fiber Loop(s), Dark Fiber Sub-Loop(s) or Dark Fiber IOF may be available (if so available, an "Acknowledgement") based on the records search except that for voluminous requests or large, complex projects, Verizon reserves the right to negotiate a different interval. The Dark Fiber Inquiry is a record search and does not guarantee the availability of

Dark Fiber Loop(s), Dark Fiber Sub-Loop(s) or Dark Fiber IOF. Where a direct Dark Fiber IOF route is not available, Verizon will provide, where available, Dark Fiber IOF via a reasonable indirect route that passes through intermediate Verizon Central Offices at the rates set forth in the Pricing Attachment. Verizon reserves the right to limit the number of intermediate Verizon Central Offices on an indirect route consistent with limitations in Verizon's network design and/or prevailing industry practices for optical transmission applications. Any limitations on the number of intermediate Verizon Central Offices will be discussed with DSLnet. If access to Dark Fiber IOF is not available, Verizon will notify DSLnet, within fifteen (15) Business Days, that no spare Dark Fiber IOF is available over the direct route nor any reasonable alternate indirect route, except that for voluminous requests or large, complex projects, Verizon reserves the right to negotiate a different interval. Where no available route was found during the record review, Verizon will identify the first blocked segment on each alternate indirect route and which segment(s) in the alternate indirect route are available prior to encountering a blockage on that route, at the rates set forth in the Pricing Attachment.

- 8.2.5.1 DSLnet shall indicate on the Dark Fiber Inquiry Form whether the available Dark Fiber should be reserved, at the rates set forth in the Pricing Attachment, pending receipt of an order for the Dark Fiber.
- 8.2.5.2 Upon request from DSLnet as indicated on the Dark Fiber Inquiry Form, Verizon shall hold such requested Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF for DSLnet's use for ten (10) Business Days from DSLnet's receipt of Acknowledgement and may not allow any other party (including Verizon) to use such fiber during that time period.
- 8.2.5.3 DSLnet shall submit an order for the reserved Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF as soon as possible using the standard ordering process or parallel provisioning process as described in Section 8.2.5.5. The standard ordering process shall be used when DSLnet does not have additional requirements for Collocation. The parallel provisioning process shall be used when DSLnet requires new Collocation facilities or changes to existing Collocation arrangements.
- 8.2.5.4 If no order is received from DSLnet for the reserved Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF within ten (10) Business Days from DSLnet's receipt of Acknowledgement, Verizon shall return to spare the reserved Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF that Verizon previously notified DSLnet are available. Should DSLnet submit an order to Verizon after the ten (10) Business Day reservation period for access to a Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF that Verizon has previously notified DSLnet was available, DSLnet assumes all risk that such Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF will no longer be available.

8.2.5.5 Upon DSLnet's request, the Parties will conduct parallel provisioning of Collocation and Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF in accordance with the following terms and conditions:

8.2.5.5.1 DSLnet will use existing interfaces and Verizon's current applications and order forms to request Collocation and Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF.

8.2.5.5.2 Verizon will parallel process DSLnet's requests for Collocation, including augments, and Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF.

8.2.5.5.3 Before DSLnet submits a request for parallel provisioning of Collocation and Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF, DSLnet will:

8.2.5.5.3.1 submit a Dark Fiber Inquiry Form and receive an Acknowledgement from Verizon; and

8.2.5.5.3.2 submit a Collocation application for the Verizon Central Office(s) where the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF terminates and receive confirmation from Verizon that DSLnet's Collocation application has been accepted.

8.2.5.5.4 DSLnet will prepare requests for parallel provisioning of Collocation and Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF in the manner and form reasonably specified by Verizon.

8.2.5.5.5 If Verizon rejects DSLnet's Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF request, DSLnet may cancel its Collocation application within five (5) Business Days of such rejection and receive a refund of the Collocation application fee paid by DSLnet, less the costs Verizon incurred to date.

8.2.5.5.6 If Verizon accepts DSLnet's Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF request, Verizon will parallel provision the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF to a temporary location in Verizon's Central Office(s). Verizon will charge and DSLnet will pay for parallel provisioning of such Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF at the rates specified in the Pricing Attachment beginning on the date that Verizon accepts each

Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF request.

- 8.2.5.5.7 Within ten (10) days after Verizon completes a DSLnet Collocation application, DSLnet shall submit a Dark Fiber change request to reposition Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF from the temporary location in that Verizon Central Office(s) to the permanent location at DSLnet's Collocation arrangement in such Verizon Central Office(s). DSLnet will prepare such request(s) in the manner and form specified by Verizon.
 - 8.2.5.5.8 If DSLnet cancels its Collocation application, DSLnet must also submit a cancellation for the unbundled Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF provisioned to the temporary location in the Verizon Central Office(s).
- 8.2.6 DSLnet shall order Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF by sending to Verizon a separate ASR for each A to Z route.
- 8.2.7 Where a Collocation arrangement can be accomplished in a Verizon premises, access to Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF that terminate in a Verizon premises must be accomplished via a Collocation arrangement in that Verizon premises. In circumstances where a Collocation arrangement cannot be accomplished in a Verizon premises, the Parties agree to negotiate for possible alternative arrangements.
- 8.2.8 A Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF will be offered to DSLnet in the condition that it is available in Verizon's network at the time that DSLnet submits its request (i.e., "as is"). In addition, Verizon shall not be required to convert lit fiber to a Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF for DSLnet's use.
- 8.2.9 Spare wavelengths on fiber strands, where Wave Division Multiplexing (WDM) or Dense Wave Division Multiplexing (DWDM) equipment is deployed, are not considered to be Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF, and, therefore, will not be offered to DSLnet as Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF.
- 8.2.10 Fiber that has been assigned to fulfill a Customer order for maintenance purposes or for Verizon's lit fiber optic systems will not be offered to DSLnet as Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF.
- 8.2.11 DSLnet shall be responsible for providing all transmission, terminating and lightwave repeater equipment necessary to light and use Dark Fiber Loops, Dark Fiber Sub-Loops, or Dark Fiber IOF.
- 8.2.12 DSLnet may not resell Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF, purchased pursuant to this Agreement to third parties.
- 8.2.13 Except to the extent that Verizon is required by Applicable Law to provide Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF to

DSLnet for use for Special or Switched Exchange Access Services, DSLnet shall not use Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF, for Special or Switched Exchange Access Services.

8.2.14 In order to preserve the efficiency of its network, Verizon may, upon a showing of need to the Commission, limit DSLnet to leasing up to a maximum of twenty-five percent (25%) of the Fiber Loops, Fiber Sub-Loops or Fiber IOF in any given segment of Verizon's network. In addition, except as otherwise required by Applicable Law, Verizon may take any of the following actions, notwithstanding anything to the contrary in this Agreement:

8.2.14.1 Revoke Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF leased to DSLnet upon a showing of need to the Commission and twelve (12) months' advance written notice to DSLnet; and

8.2.14.2 Verizon reserves and shall not waive, Verizon's right to claim before the Commission that Verizon should not have to fulfill a DSLnet order for Dark Fiber Loops, Dark Fiber Sub-Loops, or Dark Fiber IOF because that request would strand an unreasonable amount of fiber capacity, disrupt or degrade service to Customers or carriers other than DSLnet, or impair Verizon's ability to meet a legal obligation.

8.2.15 Except as expressly set forth in this Agreement, DSLnet may not reserve Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF.

8.2.16 DSLnet shall be solely responsible for: (a) determining whether or not the transmission characteristics of the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF accommodate the requirements of DSLnet; (b) obtaining any Rights of Way, governmental or private property permit, easement or other authorization or approval required for access to the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF; (c) installation of fiber optic transmission equipment needed to power the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF to transmit Telecommunications Services traffic; (d) installation of a demarcation point in a building where a Customer is located; and (e) except as set forth with respect to the parallel provisioning process addressed above, DSLnet's Collocation arrangements with any proper optical cross connects or other equipment that DSLnet needs to access Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF before it submits an order for such access. DSLnet hereby represents and warrants that it shall have all such rights of way, authorizations and the like applicable to the geographic location at which it wishes to establish a demarcation point for a Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF, on or before the date that DSLnet places an order for the applicable Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF, and that it shall maintain the same going forward.

8.2.17 DSLnet is responsible for trouble isolation before reporting trouble to Verizon. Verizon will restore continuity to Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF that have been broken. Verizon will not repair a Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF that is capable of transmitting light, even if the transmission characteristics

of the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF have changed.

8.2.18 DSLnet is responsible for all work activities at the Customer premises. Except as otherwise required by Applicable Law, all negotiations with the premises owner are solely the responsibility of DSLnet.

8.2.19 DSLnet may request the following, which shall be provided on a time and materials basis (as set forth in the Pricing Attachment):

8.2.19.1 A fiber layout map that shows the streets within a Verizon Wire Center where there are existing Verizon fiber cable sheaths. Verizon shall provide such maps to DSLnet subject to the agreement of DSLnet, in writing, to treat the maps as confidential and to use them for preliminary design purposes only. DSLnet acknowledges that fiber layout maps do not show whether or not spare Dark Fiber Loops, Dark Fiber Sub-Loops, or Dark Fiber IOF are available. Verizon shall provide fiber layout maps to DSLnet subject to a negotiated interval.

8.2.19.2 A field survey that shows the availability of Dark Fiber Loop(s), Dark Fiber Sub-Loop(s) or Dark Fiber IOF between two or more Verizon Central Offices, a Verizon Central Office and a DSLnet Central Office or a Verizon End Office and the premises of a Customer, shows whether or not such Dark Fiber Loop(s), Dark Fiber Sub-Loop(s), or Dark Fiber IOF are defective, shows whether or not such Dark Fiber Loop(s), Dark Fiber Sub-Loop(s) or Dark Fiber IOF have been used by Verizon for emergency restoration activity and tests the transmission characteristics of Verizon's Dark Fiber Loop(s), Dark Fiber Sub-Loop(s) or Dark Fiber IOF. If a field survey shows that a Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF is available, DSLnet may reserve the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF, as applicable, for ten (10) Business Days from receipt of Verizon's field survey results. If DSLnet submits an order for access to such Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF after passage of the foregoing ten (10) Business Day reservation period, Verizon does not guarantee or warrant the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF will be available when Verizon receives such order, and DSLnet assumes all risk that the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF will not be available. Verizon shall perform a field survey subject to a negotiated interval. If a DSLnet submits an order for a Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF without first obtaining the results of a field survey of such Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF, DSLnet assumes all risk that the Dark Fiber Loop, Dark Fiber Sub-Loop or Dark Fiber IOF will not be compatible with DSLnet's equipment, including, but not limited to, order cancellation charges.

9. Network Interface Device

- 9.1 Subject to the conditions set forth in Section 1 of this Attachment, and upon request by DSLnet, Verizon shall permit DSLnet to connect a carrier's Loop to the Inside Wiring of a Customer's premises through Verizon's NID at the rates, terms and conditions set forth in Verizon's PA PUC Tariff No. 216, as amended from time to time, that relate to or concern NIDs, and Verizon shall do so *regardless of whether or not such rates, terms and conditions are effective*. Verizon shall provide DSLnet with access to NIDs in accordance with, but only to the extent required by, Applicable Law.

10. **Unbundled Switching Elements**

- 10.1 Subject to the conditions set forth in Section 1 of this Attachment, Verizon shall make available to DSLnet the local switching element and Tandem switching element unbundled from transport, local Loop transmission, or other services, in accordance with this Section 10 and the rates and charges provided in the Pricing Attachment. Verizon shall provide DSLnet with access to the local switching element and the Tandem switching element in accordance with, but only to the extent required by, Applicable Law.

10.2 Local Switching.

10.2.1 The unbundled local switching element includes line side and trunk side facilities (e.g. line and trunk side Ports such as analog and ISDN line side Ports and DS1 trunk side Ports), plus the features, functions, and capabilities of the switch. It consists of the line-side Port (including connection between a Loop termination and a switch line card, telephone number assignment, basic intercept, one primary directory listing, presubscription, and access to 911, operator services, and directory assistance), line and line group features (including all vertical features and line blocking options that the switch and its associated deployed switch software is capable of providing and are currently offered to Verizon's local exchange Customers), usage (including the connection of lines to lines, lines to trunks, trunks to lines, and trunks to trunks), and trunk features (including the connection between the trunk termination and a trunk card).

10.2.2 Verizon shall offer, as an optional chargeable feature, usage tapes in accordance with Section 8 of the Additional Services Attachment.

10.2.3 DSLnet may request activation or deactivation of features on a per-port basis at any time, and shall compensate Verizon for the non-recurring charges associated with processing the order. DSLnet may submit a Bona Fide Request in accordance with Section 14.3 of this Attachment for other switch features and functions that the switch is capable of providing, but which Verizon does not currently provide, or for customized routing of traffic other than operator services and/or directory assistance traffic. Verizon shall develop and provide these requested services where technically feasible with the agreement of DSLnet to pay the recurring and non-recurring costs of developing, installing, updating, providing and maintaining these services.

10.3 Network Design Request (NDR).

Prior to submitting any order for unbundled local switching (as a UNE or in combination with other UNEs), DSLnet shall complete the NDR process. As part of the NDR process, DSLnet shall request standardized or customized routing of its Customer traffic in conjunction with the provision of unbundled Local

Switching.

If DSLnet selects customized routing, DSLnet shall define the routing plan and Verizon shall implement such plan, subject to technical feasibility constraints. Time and Material Charges may apply.

10.4 Tandem Switching.

The unbundled Tandem switching element includes trunk-connect facilities, the basic switching function of connecting trunks to trunks, and the functions that are centralized in Tandem Switches. Unbundled Tandem switching creates a temporary transmission path between interoffice trunks that are interconnected at a Verizon access Tandem for the purpose of routing a call or calls.

11. Unbundled Interoffice Facilities

- 11.1 Subject to the conditions set forth in Section 1 of this Attachment, where facilities are available, at DSLnet's request, Verizon shall provide DSLnet with interoffice facilities (IOF) unbundled from other Network Elements at the rates set forth in the Pricing Attachment; provided, however, that Verizon shall offer unbundled shared IOF only to the extent that DSLnet also purchases unbundled Local Switching capability from Verizon in accordance with Section 10 of this Attachment. Verizon shall provide DSLnet with such IOF in accordance with, but only to the extent required by, Applicable Law. Verizon will not install new electronics, and Verizon will not build new facilities.
- 11.2 If and, to the extent that, DSLnet has purchased (or purchases) transport from Verizon under a Verizon tariff or otherwise, and DSLnet has a right under Applicable Law to convert (and wishes to convert) such transport to unbundled IOF under this Agreement, it shall give Verizon written notice of such request (including, without limitation, through submission of ASRs if Verizon so requests) and provide to Verizon all information (including, without limitation, a listing of the specific circuits in question) that Verizon reasonably requires to effectuate such conversion. In the case of any such conversion, DSLnet shall pay any and all conversion charges (e.g., non-recurring charges), as well as any and all termination liabilities, minimum service period charges and like charges in accordance with Verizon's applicable tariffs.

12. Signaling Networks and Call-Related Databases

- 12.1 Subject to the conditions set forth in Section 1 of this Attachment and upon request by DSLnet, Verizon shall provide DSLnet with access to databases and associated signaling necessary for call routing and completion by providing SS7 Common Channel Signaling ("CCS") Interconnection, and Interconnection and access to toll free service access code (e.g., 800/888/877) databases, LIDB, and any other necessary databases, in accordance with this Section 12 and the rates and charges provided in the Pricing Attachment. Such access shall be provided by Verizon in accordance with, but only to the extent required by, Applicable Law.
- 12.2 DSLnet shall provide Verizon with CCS Interconnection required for call routing and completion, and the billing of calls which involve DSLnet's Customers, at non-discriminatory rates (subject to the provisions of the Pricing Attachment), terms and conditions, provided further that if the DSLnet information Verizon requires to provide such call-related functionality is resident in a database, DSLnet will provide Verizon with the access and authorization to query DSLnet's information in the databases within which it is stored.

- 12.3 Alternatively, either Party ("Purchasing Party") may secure CCS Interconnection from a commercial SS7 hub provider (third party signaling provider) to transport signaling messages to and from the Verizon CCS network, and in that case the other Party will permit the Purchasing Party to access the same databases as would have been accessible if the Purchasing Party had connected directly to the other Party's CCS network. If a third party signaling provider is selected by DSLnet to transport signaling messages, that third party provider must present a letter of agency to Verizon, prior to the testing of the interconnection, authorizing the third party to act on behalf of DSLnet.
- 12.4 Regardless of the manner in which DSLnet obtains CCS Interconnection, DSLnet shall comply with Verizon's SS7 certification process prior to establishing CCS Interconnection with Verizon.
- 12.5 The Parties will provide CCS Signaling to each other, where and as available, in conjunction with all Reciprocal Compensation Traffic, Toll Traffic, Meet Point Billing Traffic, and Transit Traffic. The Parties will cooperate on the exchange of TCAP messages to facilitate interoperability of CCS-based features between their respective networks, including all CLASS Features and functions, to the extent each Party offers such features and functions to its Customers. All CCS Signaling parameters will be provided upon request (where available), including called party number, Calling Party Number, originating line information, calling party category, and charge number. All privacy indicators will be honored as required under applicable law.
- 12.6 The Parties will follow all OBF-adopted standards pertaining to CIC/OZZ codes.
- 12.7 Where CCS Signaling is not available, in-band multi-frequency ("MF") wink start signaling will be provided. Any such MF arrangement will require a separate local trunk circuit between the Parties' respective switches in those instances where the Parties have established End Office to End Office high usage trunk groups. In such an arrangement, each Party will out pulse the full ten-digit telephone number of the called Party to the other Party.
- 12.8 The Parties acknowledge that there is a network security risk associated with interconnection with the public Internet Protocol network, including, but not limited to, the risk that interconnection of DSLnet signaling systems to the public Internet Protocol network may expose DSLnet and Verizon signaling systems and information to interference by third parties. DSLnet shall notify Verizon in writing sixty (60) days in advance of installation of any network arrangement that may expose signaling systems or information to access through the public Internet Protocol network. DSLnet shall take commercially reasonable efforts to protect its signaling systems and Verizon's signaling systems from interference by unauthorized persons.
- 12.9 Each Party shall provide trunk groups, where available and upon reasonable request, that are configured utilizing the BBZS ESF protocol for 64 kbps clear channel transmission to allow for ISDN interoperability between the Parties' respective networks.
- 12.10 The following publications describe the practices, procedures and specifications generally utilized by Verizon for signaling purposes and are listed herein to assist the Parties in meeting their respective Interconnection responsibilities related to Signaling:
- 12.10.1 Telcordia Generic Requirements, GR-905-CORE, Issue 1, March, 1995, and subsequent issues and amendments; and

12.10.2 Where applicable, Verizon Supplement Common Channel Signaling Network Interface Specification (Verizon-905).

12.11 Each Party shall charge the other Party mutual and reciprocal rates for any usage-based charges for CCS Signaling, toll free service access code (e.g., 800/888/877) database access, LIDB access, and access to other necessary databases, as follows: Verizon shall charge DSLnet in accordance with the Pricing Attachment and the terms and conditions in applicable Tariffs. DSLnet shall charge Verizon rates equal to the rates Verizon charges DSLnet, unless DSLnet's Tariffs for CCS signaling provide for lower generally available rates, in which case DSLnet shall charge Verizon such lower rates. Notwithstanding the foregoing, to the extent a Party uses a third party vendor for the provision of CCS Signaling, such charges shall apply only to the third party vendor.

13. Operations Support Systems

Subject to the conditions set forth in Section 1 of this Attachment and in Section 8 of the Additional Services Attachment, Verizon shall provide DSLnet with access via electronic interfaces to databases required for pre-ordering, ordering, provisioning, maintenance and repair, and billing. Verizon shall provide DSLnet with such access in accordance with, but only to the extent required by, Applicable Law. All such transactions shall be submitted by DSLnet through such electronic interfaces.

14. Availability of Other Network Elements on an Unbundled Basis

14.1 Any request by DSLnet for access to a Verizon Network Element that is not already available and that Verizon is required by Applicable Law to provide on an unbundled basis shall be treated as a Network Element Bona Fide Request pursuant to Section 14.3, of this Attachment. DSLnet shall provide Verizon access to its Network Elements as mutually agreed by the Parties or as required by Applicable Law.

14.2 Notwithstanding anything to the contrary in this Section 14, a Party shall not be required to provide a proprietary Network Element to the other Party under this Section 14 except as required by Applicable Law.

14.3 Network Element Bona Fide Request (BFR).

14.3.1 Each Party shall promptly consider and analyze access to a new unbundled Network Element in response to the submission of a Network Element Bona Fide Request by the other Party hereunder. The Network Element Bona Fide Request process set forth herein does not apply to those services requested pursuant to Report & Order and Notice of Proposed Rulemaking 91-141 (rel. Oct. 19, 1992) ¶ 259 and n.603 or subsequent orders.

14.3.2 A Network Element Bona Fide Request shall be submitted in writing and shall include a technical description of each requested Network Element.

14.3.3 The requesting Party may cancel a Network Element Bona Fide Request at any time, but shall pay the other Party's reasonable and demonstrable costs of processing and/or implementing the Network Element Bona Fide Request up to the date of cancellation.

14.3.4 Within ten (10) Business Days of its receipt, the receiving Party shall acknowledge receipt of the Network Element Bona Fide Request.

- 14.3.5 Except under extraordinary circumstances, within thirty (30) days of its receipt of a Network Element Bona Fide Request, the receiving Party shall provide to the requesting Party a preliminary analysis of such Network Element Bona Fide Request. The preliminary analysis shall confirm that the receiving Party will offer access to the Network Element or will provide a detailed explanation that access to the Network Element is not technically feasible and/or that the request does not qualify as a Network Element that is required to be provided by Applicable Law.
- 14.3.6 If the receiving Party determines that the Network Element Bona Fide Request is technically feasible and access to the Network Element is required to be provided by Applicable Law, it shall promptly proceed with developing the Network Element Bona Fide Request upon receipt of written authorization from the requesting Party. When it receives such authorization, the receiving Party shall promptly develop the requested services, determine their availability, calculate the applicable prices and establish installation intervals. Unless the Parties otherwise agree, the Network Element requested must be priced in accordance with Section 252(d)(1) of the Act.
- 14.3.7 As soon as feasible, but not more than ninety (90) days after its receipt of authorization to proceed with developing the Network Element Bona Fide Request, the receiving Party shall provide to the requesting Party a Network Element Bona Fide Request quote which will include, at a minimum, a description of each Network Element, the availability, the applicable rates, and the installation intervals.
- 14.3.8 Within thirty (30) days of its receipt of the Network Element Bona Fide Request quote, the requesting Party must either confirm its order for the Network Element Bona Fide Request pursuant to the Network Element Bona Fide Request quote or seek arbitration by the Commission pursuant to Section 252 of the Act.
- 14.3.9 If a Party to a Network Element Bona Fide Request believes that the other Party is not requesting, negotiating or processing the Network Element Bona Fide Request in good faith, or disputes a determination, or price or cost quote, or is failing to act in accordance with Section 251 of the Act, such Party may seek mediation or arbitration by the Commission pursuant to Section 252 of the Act.

15. Maintenance of Network Elements

If (a) DSLnet reports to Verizon a Customer trouble; (b) DSLnet requests a dispatch, (c) Verizon dispatches a technician, and (d) such trouble was not caused by Verizon's facilities or equipment in whole or in part, then DSLnet shall pay Verizon a charge set forth in the Pricing Attachment for time associated with said dispatch. In addition, this charge also applies when the Customer contact as designated by DSLnet is not available at the appointed time. DSLnet accepts responsibility for initial trouble isolation and providing Verizon with appropriate dispatch information based on its test results. If, as the result of DSLnet instructions, Verizon is erroneously requested to dispatch to a site on Verizon company premises ("dispatch in"), a charge set forth in the Pricing Attachment will be assessed per occurrence to DSLnet by Verizon. If as the result of DSLnet instructions, Verizon is erroneously requested to dispatch to a site outside of Verizon company premises ("dispatch out"), a charge set forth in the Pricing Attachment will be assessed per occurrence to DSLnet by Verizon. Verizon agrees to respond to DSLnet trouble reports on a non-discriminatory basis consistent with the manner in which it

provides service to its own retail Customers or to any other similarly situated Telecommunications Carrier.

16. Combinations

16.1 Subject to the conditions set forth in Section 1 of this Attachment, Verizon shall be obligated to provide a Combination only to the extent provision of such Combination is required by Applicable Law. To the extent Verizon is required by Applicable Law to provide a Combination to DSLnet, Verizon shall provide such Combination in accordance with the terms, conditions and prices for such Combination as provided in Verizon's PA PUC Tariff No. 216, as amended from time to time, that relate to or concern Combinations, and Verizon shall do so regardless of whether or not such rates, terms and conditions are effective.

17. Rates and Charges

The rates and charges for UNEs, Combinations and other services, facilities and arrangements, offered under this Attachment shall be as provided in this Attachment and the Pricing Attachment.

18. Good Faith Performance

If and, to the extent that, Verizon, prior to the Effective Date of this Agreement, has not provided in the Commonwealth of Pennsylvania a service or arrangement offered under this Attachment, Verizon reserves the right to negotiate in good faith with DSLnet reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such service or arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.

COLLOCATION ATTACHMENT

1. *Verizon's Provision of Collocation*

Verizon shall provide to DSLnet, in accordance with this Agreement (including, but not limited to, Verizon's applicable Tariffs) and the requirements of Applicable Law, Collocation for the purpose of facilitating DSLnet's interconnection with facilities or services of Verizon or access to Unbundled Network Elements of Verizon; provided, that notwithstanding any other provision of this Agreement, Verizon shall be obligated to provide Collocation to DSLnet only to the extent required by Applicable Law and may decline to provide Collocation to DSLnet to the extent that provision of Collocation is not required by Applicable Law. Subject to the foregoing, Verizon shall provide Collocation to DSLnet in accordance with the rates, terms and conditions set forth in Verizon's Collocation tariff, and Verizon shall do so regardless of whether or not such rates, terms and conditions are effective.

911 ATTACHMENT

1. 911/E-911 Arrangements

- 1.1 DSLnet may, at its option, interconnect to the Verizon 911/E-911 Selective Router or 911 Tandem Offices, as appropriate, that serve the areas in which DSLnet provides Telephone Exchange Services, for the provision of 911/E-911 services and for access to all subtending Public Safety Answering Points (PSAP). In such situations, Verizon will provide DSLnet with the appropriate CLLI codes and specifications of the Tandem Office serving area. In areas where E-911 is not available, DSLnet and Verizon will negotiate arrangements to connect DSLnet to the 911 service in accordance with applicable state law.
- 1.2 Path and route diverse Interconnections for 911/E-911 shall be made at the technically feasible Point of Interconnection on Verizon's network at which the Parties interconnect, or other points as necessary and mutually agreed, and as required by law or regulation.
- 1.3 Within thirty (30) days of its receipt of a complete and accurate request from DSLnet, to include all required information and applicable forms, and to the extent authorized by the relevant federal, state, and local authorities, Verizon will provide DSLnet, where Verizon offers 911 service, with the following at a reasonable fee, if applicable:
 - 1.3.1 a file via electronic medium containing the Master Street Address Guide ("MSAG") for each county within the LATA(s) where DSLnet is providing, or represents to Verizon that it intends to provide within sixty (60) days of DSLnet's request, local exchange service, which MSAG shall be updated as the need arises and a complete copy of which shall be made available on an annual basis. A letter is required from the PSAP director before the release of the MSAG by Verizon to DSLnet;
 - 1.3.2 a list of the address and CLLI code of each 911/E-911 selective router or 911 Tandem office(s) in the area in which DSLnet plans to offer Telephone Exchange Service;
 - 1.3.3 a list of geographical areas, e.g., LATAs, counties or municipalities, with the associated 911 tandems, as applicable.
 - 1.3.4 a list of Verizon personnel who currently have responsibility for 911/E-911 requirements, including a list of escalation contacts should the primary contacts be unavailable.
 - 1.3.5 any special 911 trunking requirements for each 911/E-911 selective router or 911 Tandem Office, where available, and;
 - 1.3.6 prompt return of any DSLnet 911/E-911 data entry files containing errors, so that DSLnet may ensure the accuracy of the Customer records.

2. Electronic Interface

DSLnet shall use, where available, the appropriate Verizon electronic interface, through which DSLnet shall input and provide a daily update of 911/E-911 database information related to appropriate DSLnet Customers. In those areas where an electronic interface is

not available, DSLnet shall provide Verizon with all appropriate 911/E-911 information such as name, address, and telephone number via facsimile for Verizon's entry into the 911/E-911 database system. Any 911/E-911-related data exchanged between the Parties prior to the availability of an electronic interface shall conform to Verizon standards, whereas 911/E-911-related data exchanged electronically shall conform to the National Emergency Number Association standards (NENA). DSLnet may also use the electronic interface, where available, to query the 911/E-911 database to verify the accuracy of DSLnet Customer information.

3. 911 Interconnection

Verizon and DSLnet will use commercially reasonable efforts to facilitate the prompt, *robust, reliable and efficient interconnection of DSLnet systems to the 911/E-911 platforms and/or systems.*

4. 911 Facilities

DSLnet shall be responsible for providing facilities from the DSLnet End Office to the 911 Tandem or selective router. DSLnet shall deploy diverse routing of 911 trunk pairs to the 911 tandem or selective router.

5. Local Number Portability for use with 911

The Parties acknowledge that until Local Number Portability (LNP) with full 911/E-911 compatibility is utilized for all ported telephone numbers, the use of Interim Number Portability ("INP") creates a special need to have the Automatic Location Identification (ALI) screen reflect two numbers: the "old" number and the "new" number assigned by DSLnet. Therefore, for those ported telephone numbers using INP, DSLnet will provide the 911/E-911 database with both the forwarded number and the directory number, as well as all other required information including the appropriate address information for the Customer for entry into the 911/E-911 database system. Further, DSLnet will output the telephone number to which the call has been forwarded (that is, the Customer's ANI) to the 911 Tandem office or selective router. DSLnet will include their NENA five character Company Identification ("COID") for inclusion in the ALI display.

5.1 DSLnet is required to enter data into the 911/E-911 database under the NENA Standards for LNP. This includes, but is not limited to, using DSLnet's NENA COID to lock and unlock records and the posting of DSLnet's NENA COID to the ALI record where such locking and migrating feature for 911/E-911 records are available or as defined by local standards.

6. PSAP Coordination

Verizon and DSLnet will work cooperatively to arrange meetings with PSAPs to answer any technical questions the PSAPs, or county or municipal coordinators may have regarding the 911/E-911 arrangements.

7. 911 Compensation

DSLnet will compensate Verizon for connections to its 911/E-911 platform and/or system pursuant to the rate schedule included in the Pricing Attachment.

8. 911 Rules and Regulations

DSLnet and Verizon will comply with all applicable rules and regulations (including 911 taxes and surcharges as defined by local requirements) pertaining to the provision of 911/E-911 services in the Commonwealth of Pennsylvania.

9. Good Faith Performance

If and, to the extent that, Verizon, prior to the Effective Date of this Agreement, has not provided in the Commonwealth of Pennsylvania a service or arrangement offered under this Attachment, Verizon reserves the right to negotiate in good faith with DSLnet reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such service or arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.

PRICING ATTACHMENT

1. General

- 1.1. As used in this Attachment, the term "Charges" means the rates, fees, charges and prices for a Service.
- 1.2. Except as stated in Section 2 or Section 3 of this Attachment, Charges for Services shall be as stated in this Section 1.
- 1.3. The Charges for a Service shall be the Charges for the Service stated in the Providing Party's applicable Tariff.
- 1.4. In the absence of Charges for a Service established pursuant to Section 1.3 of this Attachment, the Charges shall be as stated in Appendix A of this Pricing Attachment. For rate elements provided in Appendix A of this Pricing Attachment that do not include a Charge, either marked as "TBD" or otherwise, Verizon is developing such Charges and has not finished developing such Charges as of the Effective Date of this Agreement ("Effective Date"). When Verizon finishes developing such a Charge, Verizon shall notify DSLnet in writing of such Charge in accordance with, and subject to, the notices provisions of this Agreement and thereafter shall bill DSLnet, and DSLnet shall pay to Verizon, for services provided under this Agreement on the Effective Date and thereafter in accordance with such Charge. Any notice provided by Verizon to DSLnet pursuant to this Section 1.4 shall be deemed to be a part of Appendix A of this Pricing Attachment immediately after Verizon sends such notice to DSLnet and thereafter.
- 1.5. The Charges stated in Appendix A of this Pricing Attachment shall be automatically superseded by any applicable Tariff Charges. The Charges stated in Appendix A of this Pricing Attachment also shall be automatically superseded by any new Charge(s) when such new Charge(s) are required by any order of the Commission or the FCC, approved by the Commission or the FCC, or otherwise allowed to go into effect by the Commission or the FCC (including, but not limited to, in a Tariff that has been filed with the Commission or the FCC), provided such new Charge(s) are not subject to a stay issued by any court of competent jurisdiction.
- 1.6. In the absence of Charges for a Service established pursuant to Sections 1.3 through 1.5 of this Attachment, if Charges for a Service are otherwise expressly provided for in this Agreement, such Charges shall apply.
- 1.7. In the absence of Charges for a Service established pursuant to Sections 1.3 through 1.6 of this Attachment, the Charges for the Service shall be the Providing Party's FCC or Commission approved Charges.
- 1.8. In the absence of Charges for a Service established pursuant to Sections 1.3 through 1.7 of this Attachment, the Charges for the Service shall be mutually agreed to by the Parties in writing.

2. Verizon Telecommunications Services Provided to DSLnet for Resale Pursuant to the Resale Attachment

2.1 Verizon Telecommunications Services for which Verizon is Required to Provide a Wholesale Discount Pursuant to Section 251(c)(4) of the Act.

2.1.1 The Charges for a Verizon Telecommunications Service purchased by DSLnet for resale for which Verizon is required to provide a wholesale discount pursuant to Section 251(c)(4) of the Act shall be the Retail Price for such Service set forth in Verizon's applicable Tariffs (or, if there is no Tariff Retail Price for such Service, Verizon's Retail Price for the Service that is generally offered to Verizon's Customers), less, to the extent required by Applicable Law: (a) the applicable wholesale discount stated in Verizon's Tariffs for Verizon Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act; or (b) in the absence of an applicable Verizon Tariff wholesale discount for Verizon Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act, the applicable wholesale discount stated in Appendix A for Verizon Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act.

2.1.2 The Charges for a Verizon Telecommunications Service Customer Specific Arrangement ("CSA") purchased by DSLnet for resale pursuant to Section 3.3 of the Resale Attachment for which Verizon is required to provide a wholesale discount pursuant to Section 251(c)(4) of the Act shall be the Retail Price for the CSA, less, to the extent required by Applicable Law: (a) the applicable wholesale discount stated in Verizon's Tariffs for Verizon Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act; or (b) in the absence of an applicable Verizon Tariff wholesale discount for Verizon Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act, the applicable discount stated in Appendix A for Verizon Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act. Notwithstanding the foregoing, in accordance with, and to the extent permitted by Applicable Law, Verizon may establish a wholesale discount for a CSA that differs from the wholesale discount that is generally applicable to Telecommunications Services provided to DSLnet for resale pursuant to Section 251(c)(4) of the Act.

2.1.3 Notwithstanding Sections 2.1 and 2.2 of this Attachment, in accordance with, and to the extent permitted by Applicable Law, Verizon may at any time establish a wholesale discount for a Telecommunications Service (including, but not limited to, a CSA) that differs from the wholesale discount that is generally applicable to Telecommunications Services provided to DSLnet for resale pursuant to Section 251(c)(4) of the Act.

2.1.4 The wholesale discount stated in Appendix A shall be automatically superseded by any new wholesale discount when such new wholesale discount is required by any order of the Commission or the FCC, approved by the Commission or the FCC, or otherwise allowed to go into effect by the Commission or the FCC, provided such new wholesale discount is not subject to a stay issued by any court of competent jurisdiction.

2.1.5 The wholesale discount provided for in Sections 2.1.1 through 2.1.3 of this Attachment shall not be applied to:

2.1.5.1 Short term promotions as defined in 47 CFR § 51.613;

- 2.1.5.2 Except as otherwise provided by Applicable Law, Exchange Access services;
- 2.1.5.3 Subscriber Line Charges, Federal Line Cost Charges, end user common line Charges, taxes, and government Charges and assessment (including, but not limited to, 9-1-1 Charges and Dual Party Relay Service Charges).
- 2.1.5.4 Any other service or Charge that the Commission, the FCC, or other governmental entity of appropriate jurisdiction determines is not subject to a wholesale discount under Section 251(c)(4) of the Act.

2.2 Verizon Telecommunications Services for which Verizon is Not Required to Provide a Wholesale Discount Pursuant to Section 251(c)(4) of the Act.

2.2.1 The Charges for a Verizon Telecommunications Service for which Verizon is not required to provide a wholesale discount pursuant to Section 251(c)(4) of the Act shall be the Charges stated in Verizon's Tariffs for such Verizon Telecommunications Service (or, if there are no Verizon Tariff Charges for such Service, Verizon's Charges for the Service that are generally offered by Verizon).

2.2.2 The Charges for a Verizon Telecommunications Service customer specific contract service arrangement ("CSA") purchased by DSLnet pursuant to Section 3.3 of the Resale Attachment for which Verizon is not required to provide a wholesale discount pursuant to Section 251(c)(4) of the Act shall be the Charges provided for in the CSA and any other Charges that Verizon could bill the person to whom the CSA was originally provided (including, but not limited to, applicable Verizon Tariff Charges).

2.3 Other Charges.

2.3.1 DSLnet shall pay, or collect and remit to Verizon, without discount, all Subscriber Line Charges, Federal Line Cost Charges, and end user common line Charges, associated with Verizon Telecommunications Services provided by Verizon to DSLnet.

3. DSLnet Prices

Notwithstanding any other provision of this Agreement, the Charges that DSLnet bills Verizon for DSLnet's Services shall not exceed the Charges for Verizon's comparable Services, except to the extent that DSLnet's cost to provide such DSLnet's Services to Verizon exceeds the Charges for Verizon's comparable Services and DSLnet has demonstrated such cost to Verizon, or, at Verizon's request, to the Commission or the FCC.

4. Section 271

If Verizon is a Bell Operating Company (as defined in the Act) and in order to comply with Section 271(c)(2)(B) of the Act provides a Service under this Agreement that Verizon is not required to provide by Section 251 of the Act, Verizon shall have the right to establish Charges for such Service in a manner that differs from the manner in which under Applicable Law (including, but not limited to, Section 252(d) of the Act) Charges must be set for Services provided under Section 251.

5. Regulatory Review of Prices

Notwithstanding any other provision of this Agreement, each Party reserves its respective rights to institute an appropriate proceeding with the FCC, the Commission or other governmental body of appropriate jurisdiction: (a) with regard to the Charges for its Services (including, but not limited to, a proceeding to change the Charges for its services, whether provided for in any of its Tariffs, in Appendix A, or otherwise); and (b) with regard to the Charges of the other Party (including, but not limited to, a proceeding to obtain a reduction in such Charges and a refund of any amounts paid in excess of any Charges that are reduced).

APPENDIX A TO THE PRICING ATTACHMENT

VERIZON PENNSYLVANIA and DSLNET

A. INTERCONNECTION¹

<u>Service or Element Description²:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
I. Reciprocal Compensation Traffic Termination³		
Traffic Delivered at Verizon End Office	\$.001723/MOU	Not Applicable
Traffic Delivered at Verizon Tandem	\$.002814/MOU	Not Applicable

¹ All rates and charges specified herein are pertaining to the Interconnection Attachment.

² Unless a citation is provided to a generally applicable Verizon tariff, all listed rates and services are available only to DSLnet when purchasing these services for use in the provision of Telephone Exchange Service, and apply only to Reciprocal Compensation Traffic and local Ancillary Traffic. Verizon rates and services for use by DSLnet in the carriage of Toll Traffic shall be subject to Verizon's tariffs for Exchange Access Service. Adherence to these limitations is subject to a reasonable periodic audit by Verizon.

As applied to wholesale discount rates, unbundled Network Elements or call transport and/or termination of Reciprocal Compensation Traffic purchased for the provision of Telephone Exchange Service or Exchange Access, the rates and charges set forth in Appendix A shall apply until such time as they are replaced by new rates as may be approved or allowed into effect by the Commission from time to time pursuant to the FCC Regulations, subject to a stay or other order issued by any court of competent jurisdiction.

³ See the last page regarding measurement and calculation of Reciprocal Compensation Traffic termination charges.

Service or Element Description:

II. Entrance Facilities and Transport for Interconnection

A. Entrance facilities, and transport, as appropriate, for Interconnection at Verizon End Office, Tandem Office, or other Point of Interconnection

Recurring Charges:

Per interstate [Verizon FCC 1 Sec. 6 access tariff for Feature Group D service as amended from time to time

Per intrastate [Verizon PA PUC. – PA – No. 302 Sec. 6] access tariff for Feature Group D service as amended from time to time

Non-Recurring Charge:

Per interstate [Verizon FCC 1 Sec. 6] access tariff for Feature Group D service as amended from time to time

Per intrastate [Verizon PA PUC. – PA – No. 302 Sec. 6] access tariff for Feature Group D service as amended from time to time

III. Exchange Access Service

Interstate

Intrastate

Per Verizon FCC tariff number 1, as amended from time to time

Per Verizon tariff number 302, as amended from time to time

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

IV. End Point Fiber Meet

To be charged in accordance with the requirements of the Interconnection Attachment, Section 3

V. Tandem Transit arrangements for Reciprocal Compensation Traffic between DSLnet and carriers other than Verizon that subtend a Verizon Tandem Switch. (Not applicable to Toll Traffic when Meet Point Billing Arrangement applies; Separate trunks required for IXC subtending trunks)

Tandem Switching

\$.000795/MOU

Per Section II. above,
as applicable

Switched Transport

\$.000144/MOU
\$.000003/MOU/Mile

B. UNBUNDLED NETWORK ELEMENTS⁴**Service or Element Description:****Recurring Charges:****Non-Recurring Charge:****I. Dedicated Transport⁵**

Voice Grade/DS-0

\$9.75/Month &
\$.03/Mile/MonthAll:
\$1.06/Service Order,
\$357.97/Initial Facility &
\$24.29/Additional
Facility (if purchased
when initial facility
ordered)

DS-1

\$35.22/Month &
\$.60/Mile/Month

DS-3

\$489.55/Month &
\$16.94/Mile/Month

DDS

\$10.10/Month &
\$.03/Mile /Month

STS-1

\$305.88/Month &
\$14.48/Mile/Month

OC-3

\$894.47/Month &
\$44.08/Mile/Month

OC-12

\$2,001.03/Month &
\$68.31/Mile/Month**II. Common Transport**

Tandem Switching

\$.000795/MOU

Not Applicable

Transport Fixed

\$.000144/MOU

Not Applicable

Transport Per Mile

\$.000003/MOU

Not Applicable

⁴ All rates and charges specified herein are pertaining to the Network Elements Attachment.

⁵ Verizon's proposed UNEs, UNE combinations, and UNE pricing methodology reflect the FCC's current rules. Verizon does not agree that UNE prices must be based solely on forward-looking costs, and Verizon reserves the right to seek to change its UNE offerings and UNE prices if the FCC's rules are vacated or modified by the FCC or by a final, non-appealable judicial decision.

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

III. Digital Cross-Connect System

Service Establishment	Not Applicable	\$1913.61
Database Modification	Not Applicable	\$150.48/Modification Request
Reconfiguration by Verizon personnel	Not Applicable	\$32.37 Programming Charge/Half Hour
DS-0 Cross-Connect	\$20.55/Port/Month	\$26.48/Port
DS-1 Cross-Connect	\$72.10/Port/Month	\$33.11/Port

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

IV. Entrance Facilities

2 Wire Voice Grade Channel Termination	\$14.04/Month	<u>All:</u> \$1.06/Service Order plus installation charges for each initial and additional facility purchased at the time of order: \$503.05/Initial & \$292.96/Additional \$504.74/Initial & \$293.52/Additional \$554.67/Initial & \$554.67/Additional \$676.43/Initial & \$335.87/Additional \$554.67/Initial & \$554.67/Additional \$676.43/Initial & \$335.87/Additional \$676.43/Initial & \$335.87/Additional \$676.43/Initial & \$335.87/Additional
4 Wire Voice Grade Channel Termination	\$28.78/Month	
DS-1 to Voice Grade Multiplexing	\$73.28/Month	
DS-1 Channel Termination	\$155.68/Month	
DS-3 to DS-1 Multiplexing	\$242.57/Month	
DS-3 Channel Termination	\$975.90/Month	
STS-1	\$783.63/Month	
OC-3	\$551.36/Month	
OC-12	\$1,652.90/Month	

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

V. Unbundled Switching⁶

a. Local Switching Ports

POTS/PBX/Centrex

\$1.06/Service Order

Rates per port per month with all vertical features:

\$2.67/Port/Month

Per Port:
\$3.01/Installation
\$1.34/Disconnect

Rates per port, per month, with all vertical features except:

\$1.90/Port/Month

3-Way Calling

\$.52/Month

\$.45/Month

Centrex Intercom

\$.16/Month

Custom Ringing

\$.002/Call

Calling Number Delivery Block

ISDN (BRI)

\$9.74Port/Month

\$1.06/Service Order
Per Port:
\$3.01/Installation
\$1.34/Disconnect

⁶ In addition to the recurring and non-recurring rates set forth herein for unbundled switching elements, Verizon may levy upon purchaser of such elements any access charges (or portion thereof) permitted by Applicable Laws.

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
ISDN (PRI)	\$128.53/Port/Month	\$1.06/Service Order Per Port: \$114.73/Installation \$1.34/Disconnect
Public/Semi-Public	\$3.30/Port/Month	\$1.06/Service Order Per Port: \$3.01/Installation \$1.34/Disconnect
DID	\$5.58/Port/Month	\$1.06/Service Order Per Port: \$700.41/Installation \$1.34/Disconnect
Switched DS1	\$92.70/Port/Month	\$1.06/Service Order Per Port: \$3.01/Installation \$1.34/Disconnect
IDLC Analog	\$382.70/Port/Month	\$1.06/Service Order Per Port: \$3.01/Installation \$1.34/Disconnect
UPALP (Unbundled Public Access Line)	\$2.50/Port/Month	\$1.06/Service Order Per Port: \$3.01/Installation \$1.34/Disconnect
UCP (Unbundled Coin)	\$3.70/Port/Month	\$1.06/Service Order Per Port: \$3.01/Installation \$1.34/Disconnect
Ancillary Features for UPALP or UCP		
International Direct Dial Blocking (IDDB)	\$0.06543	Not Applicable
Line Side Answer Supervision	\$0.00592	Not Applicable
Call Type Blocking	\$0.06543	Not Applicable
Inward Screening	\$0.00	Not Applicable
Outward Blocking	\$0.06113	Not Applicable
One-way Restriction - Inward Blocking	\$0.04181	Not Applicable
SMDI	\$206.95	\$1.06/Service Order Per Port: \$700.41/Installation \$1.34/Disconnect
b. Tandem Switching Usage	\$0.000795/MOU	Not Applicable

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

c. Local Switching Usage

Originating With Vertical Features
Terminating With Vertical Features

\$.001802/MOU
\$.001615/MOU

Not Applicable
Not Applicable

d. Trunk Ports

End Office (Dedicated)
Tandem

\$87.81
\$214.57

\$1.06/Service Order

Initial facility \$357.97
Additional facility (when ordered at time of Initial Facility) \$24.29

VI. Unbundled Loops

2 Wire Analog Loops (POTS Loops)

Density Cell:

1 - \$10.25/Month
2 - \$11.00/Month
3 - \$14.00/Month
4 - \$16.75/Month

**Service Order: \$1.06
Installation:**

If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop

Service or Element Description:

2 Wire ISDN

Recurring Charges:

Density Cell:
1 - \$11.71/Month
2 - \$12.42/Month
3 - \$15.42/Month
4 - \$18.73/Month

Non-Recurring Charge:

Service Order: \$1.06
Installation:
If premises visit not
required - \$13.06 initial
and each additional loop;
Not Applicable if existing
loop & port together

If premises visit required
- \$77.71, initial loop;
\$32.91, additional loop

Disconnect:
\$1.34 per loop

Service or Element Description:

Customer Specified Signaling - 2 Wire

Recurring Charges:

Density Cell:
1 - \$10.25/Month
2 - \$11.00/Month
3 - \$14.00/Month
4 - \$16.75/Month

Non-Recurring Charge:

Service Order: \$1.06
Installation:
If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop
Coordinated cutover, per order, no premises visit \$3.28

Customer Specified Signaling - 4 Wire

Density Cell:
1 - \$19.93/Month
2 - \$22.81/Month
3 - \$28.69/Month
4 - \$34.43/Month

Service Order: \$1.06
Installation:
If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop
Coordinated cutover, per order, no premises visit \$3.28
Coordinated cutover per order, premises visit \$12.25
CSS design per order \$41.42

Service or Element Description:

DS1

Recurring Charges:

Density Cell:
1 - \$117.90/Month
2 - \$120.62/Month
3 - \$146.42/Month
4 - \$191.17/Month

Non-Recurring Charge:

Service Order: \$1.06
Installation:
If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop
Coordinated cutover, per order, no premises visit \$3.28
Coordinated cutover per order, premises visit \$12.25
CSS design per order \$41.42

DS3

Density Cell:
1 - \$915.64/Month
2 - \$915.64/Month
3 - \$915.64/Month
4 - \$915.64/Month

Service Order: \$1.06
Installation:
If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop
Coordinated cutover, per order, no premises visit \$3.28
Coordinated cutover per order, premises visit \$12.25
CSS design per order \$41.42

Service or Element Description:

Coordinated Loop Cutover ⁷

2 Wire ADSL compatible Loops
2 Wire HDSL compatible Loops
2 Wire SDSL compatible Loops
2 Wire IDSL compatible Loops

Recurring Charges:

Not Applicable

Density Cell:
1 - \$10.25/Month
2 - \$11.00/Month
3 - \$14.00/Month
4 - \$16.75/Month

Non-Recurring Charge:

If premises visit not required - \$3.28 per order

If premises visit required - \$12.25 per order

Designed Circuit:
\$41.42 per order

Service Order: \$1.06
Installation:
If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop

Cooperative Testing,
per loop-\$31.60

Engineering query,
\$123.24

Engineering Work
Order,
\$553.76

Manual Pre-
Qualification, per loop
\$94.99

⁷ Coordinated Cutover not available with ADSL, HDSL, SDSL, IDSL Loops or Digital Design Loops

Service or Element Description:

4 Wire HDSL Loops

Recurring Charges:

Density Cell:

1 - \$19.93/Month

2 - \$22.81/Month

3 - \$28.69/Month

4 - \$34.43/Month

Mechanized pre-qualification, per loop
\$.48

Wideband Test Access,
per line shared loop
(optional for CLECs)
\$1.62

Non-Recurring Charge:

Service Order: \$1.06

Installation:

If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop

Cooperative Testing,
per loop-\$31.60

Engineering query,
\$123.24

Engineering Work
Order, \$553.76

Coordinated cutover,
per order, no premises
visit \$3.28

Coordinated cutover
per order, premises visit
\$12.25

CSS design per order
\$41.42

Manual Pre-
Qualification, per loop
\$94.99

Service or Element Description:

Digital Four-Wire (56 KD) Loops

Recurring Charges:

Density Cell:
1 - \$14.14/Month
2 - \$17.81/Month
3 - \$21.92/Month
4 - \$29.02/Month

Non-Recurring Charge:

Service Order: \$1.06
Installation:
If premises visit not required - \$3.01 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$67.66, initial loop; \$22.86, additional loop

Disconnect:
\$1.34 per loop
Coordinated cutover, per order, no premises visit \$3.28
Coordinated cutover per order, premises visit \$12.25
CSS design per order \$41.42

Standard Digital Loop

All:
\$.47/ Mechanized Loop
Qualification per Loop
Provisioned

All:
\$94.99/ Manual Loop
Qualification per Loop
Request

Digital Designed Loop
2 Wire ADSL compatible Loop (up to 12,000 feet) with Bridged Tap removal

See rates for 2 Wire ADSL Loops as set forth above

\$192.56
Removal of one Bridged Tap per Request

\$468.44
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)

\$123.24
Engineering Query

\$553.76
Engineering Work Order Charge

Service or Element Description:

2 Wire ADSL compatible Loop (up to 18,000 feet) with Bridged Tap removal

Recurring Charges:

See rates for 2 Wire ADSL Loops as set forth above

Non-Recurring Charge:

\$192.56
Removal of one Bridged Tap per Request
\$468.44
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)

\$122.34
Engineering Query

\$553.76
Engineering Work Order Charge

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

2 Wire Digital Designed Metallic Loop (up to 30,000 Feet) Non-loaded with Bridged Tap options

See rates for 2 Wire ADSL and 2 Wire HDSL Loops as set forth above

\$880.92
Required Removal of Load Coils (up to 21,000 feet)

\$1,171.62
Required removal of Load Coils (up to 27,000 feet)

\$192.56
Removal of one Bridged Tap per Request

\$468.44
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)

\$123.24
Engineering Query

\$553.76
Engineering Work Order Charge

2 Wire Digital Designed Metallic Loop with ISDN Loop Extension Electronics

See rates for 2 Wire ISDN Loops as set forth above

\$880.92
Required Removal of Load Coils (up to 21,000 feet)

\$1,171.62
Required Removal of Load Coils (up to 27,000 feet)

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

		\$192.56 Removal of one Bridged Tap per Request
		\$468.44 Removal of Multiple Bridged Taps per Loop per Request
		\$968.77 xDSL Qualification & Conditioning: Add Electronics (Repeater) Addition of Range Electronics
		\$123.24 Engineering Query
		\$553.76 Engineering Work Order Charge
2 Wire HDSL compatible Loops (up to 12,000 feet) with Bridged Tap removal	See rates for 2 Wire HDSL Loops as set forth above	\$192.56 Removal of one Bridged Tap per Request
		\$468.44 Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)
		\$123.24 Engineering Query
		\$553.76 Engineering Work Order Charge

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

4 Wire HDSL compatible Loops (up to 12,000 feet) with Bridged Tap removal

See rates for 4 Wire HDSL Loops as set forth above

\$192.56
Removal of one Bridged Tap per Request

\$468.44
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)
\$123.24
Engineering Query

\$553.76
Engineering Work Order Charge

2 Wire SDSL compatible Loops with Bridged Tap removal

See rates for 2 Wire SDSL Loops as set forth above

\$192.56
Removal of one Bridged Tap per Request

\$468.44
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)
\$123.24
Engineering Query

\$553.76
Engineering Work Order Charge

2 Wire IDSL compatible Loops with (up to 18,000 feet) Bridged Tap removal

See rates for 2 Wire IDSL Loops as set forth above

\$192.56
Removal of one Bridged Tap per Request

\$468.44
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

Line Station Transfer
Cooperative Testing

\$123.24
Engineering Query

\$553.76
Engineering Work Order
Charge

\$140.52

\$31.60

VII. Intrastate Collocation

As Applicable Per Verizon PA PUC No. 218 as
amended from time to time

VIII. Line Sharing Rate Element

Rate Element	\$ Amount	Mo.	NRC	*Option A ⁸	*Option C VERIZON installs/ CLEC vendor installs	
Application Fee - Augment	\$2500		X	Not applicable unless adding line-sharing terminations	(1)	(1)
Engineering & Implementation Fee -Additional Cabling	\$1095.88		X	Not applicable unless adding line-sharing terminations	(1)	(1)
Splitter Installation Cost - per shelf	\$444.30		X	Not applicable	(1)	
Collocation cross-connect per VG - per 100	\$5.22 for virtual \$5.15 for physical	X		(2) SAC ⁹ s	(2) SACs	(2) SACs

*Both Option A and Option C assume there is an existing Collocation Arrangement.

(1) = one required

(2) = two required

⁸ Option 1: A CLEC-provided splitter shall be provided, installed and maintained by the CLEC in their own Collocation space. Rearrangements are the responsibility of the CLEC. Verizon dial tone is routed through the splitter in the CLEC Collocation area.

Option 2: Verizon will install, inventory and maintain CLEC provided splitter in Verizon space within the Serving Central Office of the lines being provided. Verizon will have control of the splitter and will direct any required activity.

⁹ Service Access Charge (SAC) is the same as Interconnection Access Charge or a cross connect.

Rate Element	\$ Amount	Mo.	NRC	Option A	Option C VERIZON installs/ CLEC vendor installs
**Splitter Option A	\$12.83	X		(1)	
**Splitter Option C	\$12.83	X			(1) (1)
Splitter Equipment Support	\$3.40	X		(1)	(1) (1)
WideBand Test Access per line - Optional	\$1.58	X		(1)	(1) (1)

**Although this rate assumes that each relay rack contains 14 splitter shelves, the rate applies only to the shelves that CLEC actually uses in a given relay rack.

(1) = one required
(2) = two required

Rate Element	\$ Amount	Mo.	NRC	Option A	Option C VERIZON installs/ CLEC vendor installs	
Service Order	\$1.06		X	(1)	(1)	(1)
Field Installation Dispatch	See Digital Installation Rates		X	(1)	(1)	(1)
Loop Qualification Data Base per link	\$0.47	X		(1)	(1)	(1)
Manual Loop Qualification	\$94.99		X	(1)	(1)	(1)
Engineering Query	\$123.24		X	(1)	(1)	(1)
Engineering Work Order	\$553.76		X	(1)	(1)	(1)
OSS Charges per transaction	\$0.00					
Unbundled Loops Conditioning charges for Digital Loops and Line Sharing	\$0.00 See Digital Designed Loop Rates	X	X			

(1) = one required
(2) = two required

Service or Element Description:

**Recurring
Charges:**

**Non-Recurring
Charge:**

IX. Line Splitting

Rates for Line Splitting are as set forth in Verizon's PA PUC No. 216 Tariff, Section 3B, as amended from time to time.

X. EEL

DS0 Connection Charge	
2 Wire Analog Loop	\$0.07
2 Wire Digital Loop	\$0.08
4 Wire Analog Loop	\$0.14
DS1 Connection Charge	\$0.74
DS3 Connection Charge	\$91.44
Digital Four Wire DS0 Loop Connection Charge	\$0.16

XI. UNE Platform Conversion

Initial	\$0.00
Additional	\$0.00

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
XII. DARK FIBER		
Records Review, per inquiry		\$116.16
Dark Fiber – IOF		
Verizon C.O. to Verizon C.O		
Service Order		\$55.22
Serving Wire Center ("SWC") Charge/SWC/Pair	\$5.33	\$42.59
IOF Mileage/Pair/mile	\$51.77	
IOF Mileage Installation Charge/Pair		\$204.94
Expedited Handling		\$94.34
Verizon C.O. to CLEC C.O.		
Service Order		\$55.22
SWC Charge/SWC/Pair	\$5.33	\$42.59
Channel Termination Charge/CLEC C.O.	\$53.69	\$353.23
Expedited Handling		\$94.34
Dark Fiber - LOOP		
Service Order		\$55.22
SWC Charge/SWC/Pair	\$5.33	\$38.53
Loop Charge/Pair		
Rate Group A1	\$34.70	\$566.97
Rate Group A2	\$64.06	\$566.97
Rate Group B1	\$93.79	\$566.97
Rate Group B2	\$119.26	\$566.97
Expedited Handling		\$317.43
Dark Fiber Sub-Loop	TBD	TBD
XIII. UNBUNDLED SUBLOOP ARRANGEMENT (USLA)		
USLA - 2 Wire - Distribution	<u>Density Cell</u>	<u>New:</u>
	1-\$2.08	Initial \$128.55
	2-\$2.56	Additional \$57.88
	3-\$3.95	<u>Loop Through:</u>
	4-\$6.76	Initial \$222.23
		Additional \$129.76
USLA - 4 Wire – Distribution	<u>Density Cell</u>	<u>New:</u>
	1-\$2.65	Initial \$158.78
	2-\$3.71	Additional \$73.34
	3-\$6.04	<u>Loop Through:</u>
	4-\$10.92	Initial \$252.35
		Additional \$154.28
		Initial \$158.78
		Additional \$73.34
XIV. Unbundled Feeder Sub-Loop (UFSE)		
UFSE - DS0 per subloop, all density cells	<u>\$29.25</u>	

Service or Element Description:

UFSE - DS1

**Recurring
Charges:**

Density Cell

1-\$71.92
2-\$83.61
3-\$84.53
4-\$130.24

**Non-Recurring
Charge:**

Service Order: \$9.59
Initial \$157.72
Additional \$83.46

UFSE - DS3

\$797.69
\$12.63

Service Order: \$23.63
Installation \$215.42

XVI. Unbundled Drop Sub-Element (UDSE)

2 Wire

\$5.38

Installation
Initial \$128.55
Additional \$57.88
Loop Through
Initial \$222.23
Additional \$129.76

4 Wire

\$10.86

Convert to Distribution
Subloop:
Installation -
Initial \$128.55
Additional \$57.78
Installation
Initial \$158.78
Additional \$73.34
Loop Through
Initial \$252.35
Additional \$154.28

Convert to Distribution
Subloop:
Installation -
Initial \$158.78
Additional \$73.74

Service or Element Description:**Recurring Charges:****Non-Recurring Charge:****XIV. Signaling and Databases****1. STP Port**

Termination

\$604.28/Month

\$95.29/Port

Access

\$.43/Mile/Month

\$1.06/Service Order
\$277.36/Initial Facility &
\$24.29/Additional
Facility
\$1.34/ Disconnect/ Link**2. 800/888/877 Database**

Basic Query

\$.000817/Query

Not Applicable

Vertical Query

\$.000324/Query

Not Applicable

3. LIDB Validation

LIDB Point Codes

Not Applicable

\$86.87/Point Code

Calling Card

\$.015620/Query

Not Applicable

Billed Number Screening

\$.015620/Query

Not Applicable

Storage of DSLnet's Data in LIDB Database

Not Applicable

\$1,487.64 Service
Establishment**4. AIN Service Creation (ASC) Service
Developmental Charges**

Service Establishment

Not Applicable

\$894.74

Service Creation Access Port

\$113.97/Port/Month

Not Applicable

Service Creation Usage

a. Remote Access

\$1,218.44/Day

Not Applicable

b. On-Premise

\$1,218.44/Day

Not Applicable

Certification & Testing

\$78.00/Hour

Not Applicable

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

Help Desk Support

\$82.55/Hour

Not Applicable

5. Service Charges

Subscription Charge

\$5.25/Month

Not Applicable

Database Queries

a. Network Query

\$.0006/Query

Not Applicable

b. DSLnet Network Query

\$.0006/Query

Not Applicable

c. DSLnet Switch Query

\$.0006/Query

Not Applicable

Trigger Charge

a. Line Based

\$.0009/Query

Not Applicable

b. Office Based

\$.0009/Query

Not Applicable

Utilization Element

\$.0003/Query

Not Applicable

Service Activation Charge

a. Network Service Activation

Not Applicable

\$8.48/Service
Activated/Line

b. DSLnet Network Service
Activation

Not Applicable

\$8.48/Service
Activated/Line

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
c. DSLnet Switch Service Activation	Not Applicable	\$8.48/Service Activated/Line
Service Modification		
DTMF Update	\$.09/Occurrence	Not Applicable
Switch Based Announcement	\$.004/Announcement	Not Applicable
XV. Network Interface Device (NID)		
2-wire NID	\$.64/Month	Not Applicable
4-wire NID	\$.64/Month	Not Applicable
DS1 NID	\$3.28	Not Applicable
NID - 2 Wire per NID/month - NID-to-NID	\$0.64	
NID - 4 Wire per NID/month - NID-to-NID	\$0.64	
NID - Shared NID (multiple loops in a single NID)	TBD	
Service Order Charge		\$1.06
Service Call Dispatch		\$25.56
Each 15 minutes (period or part)		\$12.25

C. RESALE¹⁰

I. Wholesale Discount for Resale of Retail Telecommunications Services¹¹

Resale of retail services if DSLnet provides own operator services platform	25.69%
Resale of retail services if DSLnet uses Verizon operator services platform	23.43%
Resale of Residential Verizon Retail Telecommunications	Discount as per Verizon Tariff PA. P.U.C.-No. 1, § 1, ¶ 8.1, (D) [in Density Cells 3 & 4], between January 1, 2000 and the later of (a) October 1, 2000 or (b) the date upon which the FCC approves an application of Verizon's Section 271 (d) (1) under the Act

¹⁰ All rates and charges specified herein are pertaining to the Resale Attachment.

In compliance with the FCC Order approving the Merger of GTE Corporation and Bell Atlantic (CC Docket No. 98-1840), Verizon will offer limited duration promotional discounts on resold residential exchange access lines. The terms and conditions on which these promotional discounts are being made available can be found on Verizon's web site, at <http://www.verizon.com/wise> for former GTE service areas and former Bell Atlantic service areas.

¹¹ Excludes telecommunications services designed primarily for wholesale, such as switched and special exchange access service, and, subject to the provisions of the Resale Attachment, the following additional arrangements that are not subject to resale: limited duration (90 days or less) promotional offerings, public coin telephone service, and technical and market trials. Taxes shall be collected and remitted by the reseller and Verizon in accordance with legal requirements and as agreed between the Parties. Surcharges (e.g., 911, telecommunications relay service, universal service fund) shall be collected by the reseller and either remitted to the recipient agency or NECA, or passed through to Verizon for remittance to the recipient agency or NECA, as appropriate and agreed between the Parties. End user common line charges shall be collected by the reseller and remitted to Verizon.

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

D. OPERATIONS SUPPORT SYSTEM

1. Pre-Ordering	\$.23/Query	Not Applicable
2. Ordering	\$3.35/Transaction	Not Applicable
3. Provisioning	Included in Ordering	Not Applicable
4. Maintenance & Repair		
a. ECG Access	\$.23/Query	Not Applicable
b. EB/OSI Access	\$1.17/Trouble Ticket	Not Applicable
5. Billing		
a. CD-ROM	\$249.56/CD-ROM	Not Applicable
b. Daily Usage File		
b.1. Existing Message Recording	\$0.000261/Message	Not Applicable
b.2. Delivery of DUF		
Data Tape	\$17.34/Tape	\$62.13/Programming Hour
Network Data Mover	\$0.000095/Message	Not Applicable
CMDS	\$0.000095/Message	\$62.13/Programming Hour
b.3. DUF Transport		
9.6 kb Communications Port	\$10.37/Month	\$7,527.00/Port
56 kb Communications Port	\$28.63/Month	\$31,149.87/Port
256 kb Communications Port	\$28.63/Month	\$51,854.42/Port
T1 Communications Port	\$363.64/Month	\$185,031.55/Port
Line Installation	Not Applicable	\$62.13/Programming Hour/Port
Port Set-up	Not Applicable	\$9.97/Port
Network Control Programming	Not Applicable	\$62.13/Programming Hour/Port
Coding		

E. 911/E911

Transport
Data Entry and Maintenance

Access pass-through to number portability purchaser
Per section B. above.
No Charge

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

F. TIME AND MATERIALS

Special Construction

As applicable per
Verizon-PA PUC 1 sec.
9

Service Technician (service work on unbundled
loops outside of the Central Office)

Not Applicable

\$1.06/Service Order
\$26.56/Premises Visit
\$12.25 Labor Charge/
Quarter Hour After First
Quarter Hour

Central Office Technician

Not Applicable

\$1.06/Service Order
\$10.54 Labor Charge/
Quarter Hour or
Fraction Thereof

G. CUSTOMIZED ROUTING

To Reseller Platform

\$.13769/Line/Month

\$3.89/Line

To Verizon Platform for Re-Branding

\$.068849/Call

\$3.89/Line

Customized Routing Transport

Per section B. above.

H. DIRECTORY LISTINGS & BOOKS

Primary Listing (on initial UNE service order).
For each residence telephone number, two (2)
listings in the White Page directory are provided.
For each business telephone number listed
(except numbers of Centrex or Centrex-like
services or indialing service station lines) one (1)
listing is provided in the White Page Directory
and one (1) listing in the Yellow Page directory of
the type provided to Verizon-PA end user
business customers for which no specific charge
applies.

Not Applicable

Not Applicable

Other Tariffed Listing Services (For listings
ordered in excess of the primary listings provided
or other listing types, or listings ordered at a time
other than initial UNE service order, or listings
ordered not associated with a UNE service
order.)

Retail rates less wholesale discount. For retail
rates see Verizon-PA tariff No. 1 sec. 5.B.

Books & delivery (annual home area directories
only)

No charge for normal numbers of books delivered
to end users; bulk deliveries to DSLnet per
separate arrangement

RECIPROCAL COMPENSATION TRAFFIC TERMINATION RATES

A. Charges by Verizon

- (a) Traffic delivered to Verizon Tandem: Tandem Rate.
- (b) Traffic delivered directly to terminating Verizon End Office: End Office Rate.

B. Charges by DSLnet

1. Single-tiered interconnection structure:

DSLnet's rates for the termination of Verizon's Reciprocal Compensation Traffic under the single-tiered interconnection structure shall be recalculated once each year on each anniversary of the Effective Date (the "Rate Determination Date"). The methodology for recalculating the rates is as follows:

Tandem Minutes = Total minutes of use of Reciprocal Compensation Traffic delivered by DSLnet to the Verizon Tandem for most recent billed quarter.

End Office Minutes = Total minutes of use Reciprocal Compensation Traffic delivered by DSLnet directly to the terminating Verizon End Office for most recent billed quarter.

Total Minutes = Total minutes of use of Reciprocal Compensation Traffic delivered by DSLnet to Verizon for most recent billed quarter.

DSLnet Charge at the DSLnet-IP =

$$\frac{(\textit{Tandem Minutes} \times \textit{Tandem Rate}) + (\textit{End Office Minutes} \times \textit{End Office Rate})}{\textit{Total Minutes}}$$

For the first year after the Effective Date, the DSLnet charge shall be calculated based on the traffic data of the quarter immediately preceding such Effective Date, or if no such traffic exists, on the proportion of Reciprocal Compensation Traffic termination trunks to Verizon End Offices and to Verizon Tandems.

2. Multiple-tiered interconnection structure (if offered by DSLnet to any carrier)

- (a) Reciprocal Compensation Traffic delivered to DSLnet Tandem: Tandem Rate
- (b) Reciprocal Compensation Traffic delivered to terminating DSLnet End Office/node: End Office Rate

C. Miscellaneous Notes

1. The DSLnet termination rate under the single-tiered interconnection structure set forth above is intended to be a Reciprocal Compensation Traffic termination rate for Interconnection to the DSLnet-IP within each LATA that is reciprocal and equal to the actual rates that will be charged by Verizon to DSLnet under the two-tiered Reciprocal Compensation Traffic termination rate structure described above that will apply after the first anniversary of the Effective Date. The single DSLnet termination rate is also intended to provide financial incentives to DSLnet to deliver traffic directly to Verizon's terminating End Offices once DSLnet's traffic volumes reach an appropriate threshold.

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* Pennsylvania Telephone Association has requested not to receive hardcopies, so none has been sent

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APR 14 2003

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

DATE: April 17, 2003

SUBJECT: A-310824F7000

DOCKETED

APR 23 2003

TO: Office of Special Assistants

FROM: James J. McNulty, Secretary *KB*

DOCUMENT

JOINT PETITION OF VERIZON PENNSYLVANIA INC. AND
DSLNET COMMUNICATIONS LLC FOR APPROVAL OF AN AMENDED,
EXTENDED AND RESTATED INTERCONNECTION AGREEMENT UNDER
SECTION 252(e) OF THE TELECOMMUNICATIONS ACT OF 1996.

Attached is a copy of a Joint Petition for Approval of an Amended, Extended and Restated Interconnection Agreement filed in connection with the above-docketed proceeding.

Enclosed is a copy of the notice that we provided to the Pennsylvania Bulletin to be published on May 3, 2003. Comments are due on or before 10 days after the publication of this notice.

This matter is assigned to your Office for appropriate action.

Attachment

cc: Bureau of Fixed Utility Services
Office of Administrative Law Judge-copy of memo only

PENNSYLVANIA PUBLIC UTILITY COMMISSION

NOTICE TO BE PUBLISHED

DOCKETED

APR 23 2003

Joint Petition of Verizon Pennsylvania Inc. and DSLnet Communications LLC for Approval of an Amended, Extended and Restated Interconnection Agreement Under Section 252(e) of The Telecommunications Act of 1996.
Docket Number: A-310824F7000.

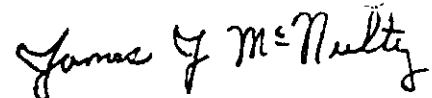
DOCUMENT

Verizon Pennsylvania Inc. and DSLnet Communications LLC, by its counsel, filed on April 14, 2003, at the Public Utility Commission, a Joint Petition for approval of an Amended, Extended and Restated Interconnection Agreement under Sections 251 and 252 of the Telecommunications Act of 1996.

Interested parties may file comments concerning the petition and agreement with the Secretary, Pennsylvania Public Utility Commission, P. O. Box 3265, Harrisburg, PA 17105-3265. All such Comments are due on or before 10 days after the date of publication of this notice. Copies of the Verizon Pennsylvania Inc. and DSLnet Communications LLC Joint Petition are on file with the Pennsylvania Public Utility Commission and are available for public inspection.

Contact person is Cheryl Walker Davis, Director, Office of Special Assistants, (717) 787-1827.

BY THE COMMISSION



James J. McNulty
Secretary

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