

1. REPORT DATE: 00/00/00 :  
 2. BUREAU: OSA :  
 3. SECTION(S): : 4. PUBLIC MEETING DATE:  
 5. APPROVED BY: : 00/00/00  
 DIRECTOR: :  
 SUPERVISOR: :  
 6. PERSON IN CHARGE: : 7. DATE FILED: 11/23/01  
 8. DOCKET NO: A-310832 F7000 : 9. EFFECTIVE DATE: 00/00/00

PARTY/COMPLAINANT: VERIZON PENNSYLVANIA INC

RESPONDENT/APPLICANT: IG2 INC

COMP/APP COUNTY:

UTILITY CODE: 310832

ALLEGATION OR SUBJECT

.... 11/23/01 - JOINT PETITION OF VERIZON PENNSYLVANIA INC. AND IG2 INC. FOR APPROVAL OF A REPLACEMENT INTERCONNECTION AGREEMENT UNDER SECTION 252(E) OF THE TELECOMMUNICATIONS ACT OF 1996.

DOCUMENT  
FOLDER

**DOCKETED**  
NOV 27 2001

Daniel E. Monagle  
Assistant General Counsel  
Pennsylvania

ORIGINAL



1717 Arch Street, 32N  
Philadelphia, PA 19103

November 23, 2001

RECEIVED

Tel: (215) 963-6004  
Fax: (215) 563-2658  
Daniel.Monagle@Verizon.com

VIA UPS OVERNIGHT

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

NOV 23 2001  
PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

RE: Joint Petition of Verizon Pennsylvania Inc. and IG2 Inc.  
(formerly known as Computer Business Sciences, Inc. d/b/a CBS)  
for Approval of an Interconnection Agreement  
Docket No. A-310832 ~~F0002~~ F7000

Dear Mr. McNulty:

Enclosed please find an original and three (3) copies of the Joint Petition of Verizon Pennsylvania Inc. and IG2 Inc. (formerly known as Computer Business Sciences, Inc. d/b/a CBS) for Approval of an Interconnection Agreement between Verizon and IG2. This Interconnection Agreement is intended as a replacement Interconnection Agreement, replacing the Agreement previously approved by the Commission by order dated November 19, 1999.

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/slb*  
Daniel E. Monagle

DEM/slb

Enclosure

cc: Deborah S. Arnott (Via UPS Overnight)  
Attached Service List

DOCUMENT  
FOLDER

6

**ORIGINAL**

**BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**JOINT PETITION OF VERIZON PENNSYLVANIA  
INC. AND IG2, INC. FOR APPROVAL OF AN  
INTERCONNECTION AGREEMENT UNDER  
SECTION 252(e) OF THE TELECOMMUNICATIONS  
ACT OF 1996.**

) *A. 3108 32 F 7000*  
) *F7000*  
) PUC Docket No. \_\_\_\_\_  
)  
)

**JOINT PETITION**

Verizon Pennsylvania Inc. ("Verizon PA") and IG2, Inc. ("IG2") respectfully submit for the Commission's approval, pursuant to Sections 251 and 252 of the Telecommunications Act of 1996 (the "1996 Act")<sup>1</sup>, the attached Interconnection Agreement dated September 10, 2001 (the "Agreement"). The Agreement provides for the interconnection of the two companies' networks and makes available to IG2 access to unbundled network elements, wholesale telecommunications services, and ancillary services offered by Verizon PA. Verizon PA and IG2 respectfully request that the Commission act within the 90 days specified by the 1996 Act and approve the Agreement.

**RECEIVED**

NOV 23 2001

In support of this request, Verizon PA and IG2 state as follows:

**PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU**

**THE PARTIES**

1. Verizon PA is an incumbent local exchange carrier authorized to provide local exchange telephone service in Pennsylvania.

2. IG2 is a competitive local exchange carrier that has been granted authority to provide local exchange service in Pennsylvania.

**DOCUMENT  
FOLDER**

**THE AGREEMENT**

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

**DOCKETED**

NOV 27 2001

3. Verizon PA and IG2 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 IG2 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) Reciprocal compensation for terminating local traffic at rates of \$.001723 or \$.002814 per minute of use, depending on where traffic is terminated on the Verizon PA and IG2 networks;

Unbundled loops – providing IG2 access to existing Verizon PA customers – based on a rate methodology specified in the Agreement;

(ii) Including IG2 customers' primary listings in the White Pages (two listings for each residence telephone number and one listing for each business telephone number) and Yellow Pages (one listing for each business telephone number) directories;

(iii) The resale of Verizon PA telecommunications services for a wholesale discount of 23.43% or 25.69% (depending upon whether IG2 provides its own operator services);

(iv) The continued provision of 911 services to all customers; and

(v) Performance standards for services provided by Verizon PA to IG2 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 IG2 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.

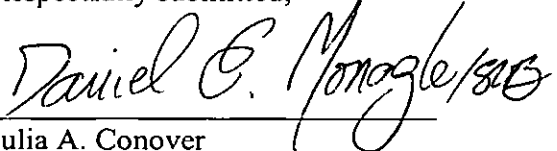
#### **APPROVAL OF THE AGREEMENT**

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 IG2 respectfully request that the Commission approve the attached interconnection agreement pursuant to Section 252(e) of the 1996 Act.

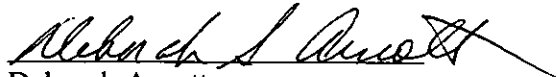
Of Counsel  
Jack H. White

Respectfully submitted,



Julia A. Conover  
Daniel E. Monagle  
Verizon Pennsylvania Inc.  
1717 Arch Street, 32N  
Philadelphia, PA 19103  
Tel. (215) 963-6001  
Fax (215) 563-2658

Attorneys For  
Verizon Pennsylvania Inc.



Deborah Arnott  
Compliance Department  
IG2, Inc.  
80-02 Kew Gardens Rd., Suite 5000  
Kew Gardens, NY 11415  
Phone No. (888) 428-8654

NOVEMBER  
DATED: ~~October~~ <sup>23</sup>, 2001

**ORIGINAL**

**RECEIVED**

A-310832 F7000

NOV 23 2001

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

AGREEMENT

by and between

IG2, INC.

and

VERIZON PENNSYLVANIA INC., F/K/A BELL ATLANTIC - PENNSYLVANIA, INC.

FOR THE COMMONWEALTH OF

PENNSYLVANIA

**DOCKETED**

NOV 27 2001

DOCUMENT  
FOLDER

TABLE OF CONTENTS

AGREEMENT .....1

1. The Agreement .....1

2. Term and Termination .....1

3. Glossary and Attachments.....2

4. Applicable Law .....2

5. Assignment.....3

6. Assurance of Payment .....3

7. Audits .....4

8. Authorization .....5

9. Billing and Payment; Disputed Amounts .....5

10. Confidentiality .....6

11. Counterparts.....8

12. Default .....8

13. Discontinuance of Service by IG2 .....8

14. Dispute Resolution .....9

15. Force Majeure .....9

16. Forecasts .....10

17. Fraud .....10

18. Good Faith Performance .....10

19. Headings .....10

20. Indemnification.....10

21. Insurance .....12

22. Intellectual Property.....13

23. Joint Work Product .....14

24. Law Enforcement. ....14

25. Liability.....14

26.	Network Management .....	15
27.	Non-Exclusive Remedies .....	16
28.	Notice of Network Changes .....	16
29.	Notices .....	16
30.	Ordering and Maintenance .....	17
31.	Performance Standards.....	18
32.	Point of Contact for IG2 Customers.....	18
33.	Predecessor Agreements.....	18
34.	Publicity and Use of Trademarks or Service Marks .....	19
35.	References .....	19
36.	Relationship of the Parties.....	19
37.	Reservation of Rights .....	20
38.	Subcontractors.....	20
39.	Successors and Assigns.....	20
40.	Survival .....	20
41.	Taxes .....	21
42.	Technology Upgrades .....	23
43.	Territory.....	23
44.	Third Party Beneficiaries.....	23
45.	251 and 271 Requirements.....	23
46.	252(i) Obligations .....	24
47.	Use of Service.....	24
48.	Waiver.....	24
49.	Warranties.....	24
50.	Withdrawal of Services .....	24
	SIGNATURE PAGE .....	26
	GLOSSARY.....	27
1.	General Rule .....	27

2.	Definitions.....	27
<b>ADDITIONAL SERVICES ATTACHMENT .....</b>		<b>39</b>
1.	Alternate Billed Calls .....	39
2.	Dialing Parity - Section 251(b)(3).....	39
3.	Directory Assistance (DA) and Operator Services (OS) .....	39
4.	Directory Listing and Directory Distribution .....	39
5.	Voice Information Service Traffic.....	41
6.	<i>Intercept and Referral Announcements</i> .....	42
7.	Originating Line Number Screening (OLNS) .....	42
8.	Operations Support Systems (OSS) Services.....	42
9.	Poles, Ducts, Conduits and Rights-of-Way .....	48
10.	Telephone Numbers.....	49
11.	Routing for Operator Services and Directory Assistance Traffic .....	50
<b>INTERCONNECTION ATTACHMENT.....</b>		<b>51</b>
1.	General .....	51
2.	Methods for Interconnection and Trunk Types.....	51
3.	Alternative Interconnection Arrangements .....	57
4.	Initiating Interconnection .....	57
5.	Transmission and Routing of Telephone Exchange Service Traffic .....	58
6.	Traffic Measurement and Billing over Interconnection Trunks.....	59
7.	Reciprocal Compensation Arrangements Pursuant to Section 251(b)(5) of the Act.....	60
8.	<i>Other Types of Traffic</i> .....	63
9.	Transmission and Routing of Exchange Access Traffic .....	63
10.	Meet-Point Billing Arrangements .....	64
11.	Toll Free Service Access Code (e.g., 800/888/877) Traffic.....	67
12.	Tandem Transit Traffic .....	68
13.	Number Resources, Rate Center Areas and Routing Points.....	69

14.	Joint Network Implementation and Grooming Process; and Installation, Maintenance, Testing and Repair .....	69
15.	Number Portability - Section 251(B)(2) .....	71
<b>RESALE ATTACHMENT .....</b>		<b>75</b>
1.	General .....	75
2.	Use of Verizon Telecommunications Services .....	75
3.	Availability of Verizon Telecommunications Services .....	76
4.	Responsibility for Charges .....	76
5.	Operations Matters .....	76
6.	Rates and Charges.....	77
<b>NETWORK ELEMENTS ATTACHMENT .....</b>		<b>78</b>
1.	General .....	78
2.	Verizon's Provision of Network Elements .....	79
3.	Loop Transmission Types.....	80
4.	Line Sharing.....	86
5.	Line Splitting.....	92
6.	Sub-Loop.....	93
7.	Inside Wire .....	97
8.	Dark Fiber.....	97
9.	Network Interface Device .....	101
10.	Unbundled Switching Elements .....	102
11.	Unbundled Interoffice Facilities.....	103
12.	Signaling Networks and Call-Related Databases .....	103
13.	Operations Support Systems.....	105
14.	Availability of Other Network Elements on an Unbundled Basis.....	105
15.	Maintenance of Network Elements.....	106
16.	Combinations .....	107
17.	Rates and Charges.....	107

<b>COLLOCATION ATTACHMENT .....</b>	<b>108</b>
1. <b>Verizon's Provision of Collocation.....</b>	<b>108</b>
2. <b>IG2's Provision of Collocation .....</b>	<b>108</b>
<b>911 ATTACHMENT.....</b>	<b>109</b>
1. <b>911/E-911 Arrangements .....</b>	<b>109</b>
2. <b>Electronic Interface.....</b>	<b>109</b>
3. <b>911 Interconnection .....</b>	<b>110</b>
4. <b>911 Facilities .....</b>	<b>110</b>
5. <b>Local Number Portability for use with 911 .....</b>	<b>110</b>
6. <b>PSAP Coordination .....</b>	<b>110</b>
7. <b>911 Compensation .....</b>	<b>110</b>
8. <b>911 Rules and Regulations .....</b>	<b>110</b>
<b>PRICING ATTACHMENT.....</b>	<b>112</b>
1. <b>General.....</b>	<b>112</b>
2. <b>Verizon Telecommunications Services Provided to IG2 for Resale Pursuant to           the Resale Attachment .....</b>	<b>112</b>
3. <b>IG2 Prices.....</b>	<b>114</b>
4. <b>Section 271 .....</b>	<b>114</b>
5. <b>Regulatory Review of Prices.....</b>	<b>114</b>
<b>APPENDIX A TO THE PRICING ATTACHMENT .....</b>	<b>115</b>

## AGREEMENT

### PREFACE

This Agreement ("Agreement") shall be deemed effective as of September 10, 2001 (the "Effective Date"), between IG2, Inc. ("IG2"), a corporation organized under the laws of the State of Delaware, with offices at 80-02 Kew Gardens Rd., Suite 5000, Kew Gardens, New York 11415 and Verizon Pennsylvania Inc., f/k/a Bell Atlantic - 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 IG2 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 IG2 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. 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 September 9, 2003 (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 IG2 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 IG2 or Verizon provides notice of termination pursuant to Section 2.2 and on or before the proposed date of termination either IG2 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 IG2 and Verizon; or, (b) the date one (1) year after the proposed date of termination.
- 2.4 If either IG2 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 IG2 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 SGAT.

### **3. Glossary and Attachments**

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

Additional Services Attachment  
Interconnection Attachment  
Resale Attachment  
UNE 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.
- 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 IG2 hereunder, then Verizon may discontinue the provision of any such Service, payment or benefit, and IG2 shall reimburse Verizon for any payment previously made by Verizon to IG2 that was not required by Applicable Law. Verizon will provide thirty (30) days prior written notice to IG2 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, IG2 shall 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 IG2 (a) in Verizon's reasonable judgment, at the Effective Date or at any time thereafter, does not have established credit with Verizon, (b) in Verizon's reasonable judgment, at the Effective Date or at any time thereafter, is unable to demonstrate that it is creditworthy, (c) fails to timely pay a bill rendered to IG2 by Verizon, 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, at Verizon's option, consist of (a) a cash security deposit in U.S. dollars held by Verizon or (b) 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 cash security deposit or 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 IG2 in connection with this Agreement.
- 6.4 To the extent that Verizon elects to require a cash deposit, the Parties intend that the provision of such deposit shall constitute the grant of a security interest in the deposit pursuant to Article 9 of the Uniform Commercial Code as in effect in any relevant jurisdiction.
- 6.5 If payment of interest on a cash deposit is required by an applicable Verizon Tariff or by Applicable Law, interest will be paid on any such cash deposit held by Verizon at the higher of the interest rate stated in such Tariff or the interest rate required by Applicable Law.
- 6.6 Verizon may (but is not obligated to) draw on the letter of credit or cash deposit, as applicable, upon notice to IG2 in respect of any amounts to be paid by IG2 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 or cash deposit, upon request by Verizon, IG2 shall provide a replacement or supplemental letter of credit or cash deposit conforming to the requirements of Section 6.2.
- 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 IG2 has provided Verizon with such assurance of payment.
- 6.9 The fact that a deposit or a letter of credit is requested by Verizon hereunder shall in no way relieve IG2 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 IG2 represents and warrants that it is a corporation 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 IG2 Certification.

Notwithstanding any other provision of this Agreement, Verizon shall have no obligation to perform under this Agreement until such time as IG2 has obtained such FCC and Commission authorization as may be required by Applicable Law for conducting business in Pennsylvania. IG2 shall not place any orders under this Agreement until it has obtained such authorization. IG2 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 IG2**

- 13.1 If IG2 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, IG2 shall send written notice of such discontinuance to Verizon, the Commission, and each of IG2's Customers. IG2 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, IG2 shall send such notice at least thirty (30) days prior to its discontinuance of service.
- 13.2 Such notice must advise each IG2 Customer that unless action is taken by the IG2 Customer to switch to a different carrier prior to IG2's proposed discontinuance of service, the IG2 Customer will be without the service provided by IG2 to the IG2 Customer.

- 13.3 Should a IG2 Customer subsequently become a Verizon Customer, IG2 shall provide Verizon with all information necessary for Verizon to establish service for the IG2 Customer, including, but not limited to, the IG2 Customer's billed name, listed name, service address, and billing address, and the services being provided to the IG2 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, IG2 shall provide to Verizon forecasts regarding the Services that IG2 expects to purchase from Verizon, including, but not limited to, forecasts regarding the types and volumes of Services that IG2 expects to purchase and the locations where such Services will be purchased.

**17. Fraud**

IG2 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 IG2's account in cases of, fraud by IG2'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.

**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 20.2.1 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 Person, 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 IG2 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, IG2 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 IG2'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 IG2.
- 21.3 IG2 shall name Verizon and Verizon's Affiliates as additional insureds on the foregoing liability insurance.
- 21.4 IG2 shall, within two (2) weeks of the Effective Date hereof at the time of each renewal of, or material change in, IG2'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 IG2 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 IG2 or IG2'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 IG2 shall reimburse Verizon for the cost of the insurance.
- 21.7 Certificates furnished by IG2 or IG2's contractors shall contain a clause stating: "Verizon Pennsylvania Inc., f/k/a Bell Atlantic - 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 IG2 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 IG2, directly or through a third party, of any such terms, conditions or restrictions that may limit any IG2 use of a Service provided by Verizon that is otherwise

permitted by this Agreement. At IG2'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 IG2 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. IG2 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. IG2 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,
- 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;



provisioning, maintenance or repair, transaction offered by Verizon, IG2 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 IG2.
- 31.3 IG2 shall provide Services under this Agreement in accordance with the performance standards required by Applicable Law.

**32. Point of Contact for IG2 Customers**

- 32.1 IG2 shall establish telephone numbers and mailing addresses at which IG2 Customers may communicate with IG2 and shall advise IG2 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 IG2 customer, including, but not limited to, a IG2 Customer request for repair or maintenance of a Verizon Service provided to IG2.

**33. Predecessor Agreements**

- 33.1 Except as stated in Section 33.1.1 or as otherwise agreed in writing by the Parties:
  - 33.1.1 any prior interconnection or resale agreement between the Parties for the Commonwealth of Pennsylvania pursuant to Section 252 of the Act and in effect immediately prior to the Effective Date is hereby terminated; 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 immediately 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 33.1.1, 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; and, (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. 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 IG2 acknowledges IG2 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 IG2:

Deborah S. Arnott, Vice President  
IG2, Inc.  
Compliance Department  
80-02 Kew Gardens Rd., Suite 5000  
Kew Gardens, New York 11415

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 IG2'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. IG2 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.

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 IG2 with at least 90 calendar days prior written notice of such termination, which shall be effective upon the date specified in the notice. Verizon shall be obligated to provide Services under this Agreement only within this territory.

**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 IG2 of any rights it may have under Section 252(i) or the Merger Order MFN Provisions results in the rearrangement of Services by Verizon, IG2 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 IG2.
- 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 IG2 terminate any provision of this Agreement that provides for the payment by Verizon to IG2 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 IG2. Following such termination, except as otherwise agreed in writing by the Parties, Verizon shall be obligated to provide compensation to IG2 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 IG2 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.

IG2, INC.

By: Deborah S. Arnott

Printed: Deborah S. Arnott

Title: VP - Director of Compliance

VERIZON PENNSYLVANIA INC.

By: Steven J. Pitterle

Printed: Steven J. Pitterle

Title: Director - Negotiations  
Network Services

## 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 ADSL (Asymmetrical Digital Subscriber Line).  
A transmission technology on twisted pair copper Loop plant, which transmits an asymmetrical digital signal of up to 8 Mbps toward the Customer and up to 1 Mbps from the Customer, as specified in ANSI standards T1.413-1998 and Bell Atlantic Technical Reference TR-72575.
- 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.

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 . IG2 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 Digital Signal Level.

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

- 2.27 DS0 (Digital Signal Level 0).  
The 64kbps zero-level signal in the time-division multiplex hierarchy.
- 2.28 DS1 (Digital Signal Level 1).  
The 1.544 Mbps first-level signal in the time-division multiplex hierarchy.
- 2.29 DS3 (Digital Signal Level 3).  
The 44.736 Mbps third-level signal in the time-division multiplex hierarchy.
- 2.30 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.
- 2.31 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.
- 2.32 Entrance Facility.  
The facilities between a Party's designated premises and the Central Office serving that designated premises.
- 2.33 Exchange Access.  
Shall have the meaning set forth in the Act.
- 2.34 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.
- 2.35 FCC.  
The Federal Communications Commission.
- 2.36 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).
- 2.37 FCC Regulations.

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

2.38 HDSL (High-Bit Rate Digital Subscriber Line).

A transmission technology that transmits up to a DS1 level signal, using any one of the following line codes: 2 Binary/1 Quaternary (2B1Q), Carrierless AM/PM, Discrete Multitone (DMT), or 3 Binary/1 Octal (3BO).

2.39 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.

2.40 ILEC (Incumbent Local Exchange Carrier).

Shall have the meaning stated in the Act.

2.41 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.

2.42 Internet Traffic.

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

2.43 InterLATA Service.

Shall have the meaning set forth in the Act.

2.44 IntraLATA.

Telecommunications that originate and terminate within the same LATA.

2.45 IP (Interconnection Point).

For Reciprocal Compensation Traffic, the point at which a Party who receives Reciprocal Compensation Traffic from the other Party assesses Reciprocal Compensation charges for the further transport and termination of that Reciprocal Compensation Traffic.

2.46 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).

2.47 IXC (Interexchange Carrier).

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

- 2.48 LATA (Local Access and Transport Area).  
Shall have the meaning set forth in the Act.
- 2.49 LEC (Local Exchange Carrier).  
Shall have the meaning set forth in the Act.
- 2.50 LERG (Local Exchange Routing Guide).  
A Telcordia Technologies reference containing NPA/NXX routing and homing information.
- 2.51 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).
- 2.52 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.
- 2.53 Loop.  
A transmission path that extends from a Main Distribution Frame, DSX-panel, 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.
- 2.54 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.
- 2.55 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.
- 2.56 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.

2.57 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.

2.58 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-STS-002643, establishes methods for processing orders for Exchange Access Service that is to be provided by two or more LECs.

2.59 Merger Order.

The FCC's ORDER "In re Application of GTE Corporation, Transferor, and Bell Atlantic Corporation, Transferee, For Consent to Transfer of Control of Domestic and International Section 214 and 310 Authorizations and Application to Transfer 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.

2.60 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.

2.61 Network Element.

Shall have the meaning stated in the Act.

2.62 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.

2.63 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.

2.64 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).

2.65 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).

2.66 POI (Point of Interconnection).

The physical location where the one Party's facilities physically interconnect with the other Party's facilities for the purpose of exchanging traffic.

2.67 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.

2.68 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

2.69 Providing Party.

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

2.70 Purchasing Party.

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

2.71 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.

2.72 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."

2.73 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.

2.74 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).

2.75 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: (1) any Internet Traffic; (2) traffic that does not originate and terminate within the same Verizon local calling area as defined by Verizon; (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; or, (7) Voice Information Service Traffic (as defined in Section 5 of the Additional Services 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.

2.76 Retail Prices.

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

2.77 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.

2.78 Service.

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

2.79 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 IG2 currently utilize this out-of-band signaling protocol.

2.80 Subsidiary.

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

2.81 Switched Access Detail Usage Data.

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

2.82 Switched Access Summary Usage Data.

A category 1150XX record as defined in the EMI Telcordia Practice BR-010-200-010.

2.83 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.

2.84 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.

2.85 Tariff.

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

2.85.2 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.

2.86 Telcordia Technologies.

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

2.87 Telecommunications Carrier.

Shall have the meaning set forth in the Act.

2.88 Telecommunications Services.

Shall have the meaning set forth in the Act.

2.89 Telephone Exchange Service.

Shall have the meaning set forth in the Act.

2.90 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.

2.91 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.

2.92 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.

2.93 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. ((Interstate Traffic Total Minutes of Use {excluding Measured Internet Traffic

Total Minutes of Use} ÷ {Interstate Traffic Total Minutes of Use + Intrastate Traffic Total Minutes of Use} x 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."

2.94 Traffic Factor 2.

For traffic exchange via Interconnection Trunks, a percentage calculated by dividing the combined total number of minutes of Reciprocal Compensation Traffic and Measured Internet Traffic by the total number of minutes of intrastate traffic. ( $\frac{\text{Reciprocal Compensation Traffic Total Minutes of Use} + \text{Measured Internet Traffic Total Minutes of Use}}{\text{Intrastate Traffic Total Minutes of Use}} \times 100$ ). Until the form of a Party's bills is updated to use the term "Traffic Factor 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."

2.95 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.

2.96 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.

2.97 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.

2.98 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.

2.99 Wire Center.

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

## 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 IG2 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 IG2. Such services will be provided in accordance with the terms set forth herein.

#### 4.1 Listing Information.

As used herein, "Listing Information" means a IG2 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.

IG2 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 IG2 Customer whose service address location falls within the geographic area covered by the relevant Verizon directory. IG2 shall also provide to Verizon on a daily basis, (a) information showing IG2 Customers who have disconnected or terminated their service with IG2; and (b) delivery information for each *non-listed* or *non-published* IG2 Customer to enable Verizon to perform its directory distribution responsibilities. Verizon shall promptly provide to IG2, (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 IG2 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 IG2 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 IG2's Customers shall be interfiled with listings of Verizon's Customers and the Customers of other LECs included in the Verizon directories. IG2 shall pay Verizon's tariffed charges for additional and foreign alphabetical listings and other alphabetical services (e.g. caption arrangements) for IG2's Customers.

4.4 Verizon Information.

Upon request by IG2, Verizon shall make available to IG2 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, publishing data, and Yellow Pages headings. Verizon also will make available to IG2, upon written request, a copy of Verizon's alphabetical listings standards and specifications manual.

4.5 Confidentiality of Listing Information.

Verizon shall accord IG2 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 IG2 Listing Information for directory publishing, direct marketing, or any other purpose for which Verizon uses or licenses its own listing information; so long as IG2 Customers are not separately identified as such; and provided further that IG2 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 it does so for its own Customers. Verizon shall not be obligated to compensate IG2 for Verizon's use or licensing of IG2 Listing Information.

4.6 Accuracy.

Both Parties shall use commercially reasonable efforts to ensure the accurate publication of IG2 Customer listings. At IG2's request, Verizon shall provide IG2 with a report of all IG2 Customer listings normally no more than ninety (90) days and no less than thirty (30) days prior to the service order close date for the applicable directory. Verizon shall process any corrections made by IG2 with respect to its listings, provided such corrections are received prior to the close date of the particular directory.

4.7 Indemnification.

IG2 shall adhere to all practices, standards, and ethical requirements established by Verizon with regard to listings. By providing Verizon with Listing Information, IG2 warrants to Verizon that IG2 has the right to provide such Listing Information to Verizon on behalf of its Customers. IG2 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. IG2 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 IG2 hereunder.

4.8 Liability.

Verizon's liability to IG2 in the event of a Verizon error in or omission of a listing shall not exceed the lesser of the amount of charges actually paid by IG2 for such listing or the amount by which Verizon would be liable to its own customer for such error or omission. IG2 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 IG2'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.

4.9 Service Information Pages.

Verizon shall include all IG2 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. IG2's NXX codes shall appear in such lists in the same manner as Verizon's NXX information. In addition, when IG2 is authorized to, and is offering, local service to Customers located within the geographic area covered by a specific directory, at IG2's request, Verizon shall include, at no charge, in the "Customer Guide" or comparable section of the applicable alphabetical directories, IG2's critical contact information for IG2's installation, repair and Customer service, as provided by IG2. Such critical contact information shall appear alphabetically by local exchange carrier and in accordance with Verizon's generally applicable policies. IG2 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.

IG2 acknowledges that if IG2 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 the Interconnection Attachment.

- 5.2 If a IG2 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, IG2 shall pay to Verizon without discount any Voice Information Service provider charges billed by Verizon to IG2. IG2 shall pay Verizon such charges in full regardless of whether or not IG2 collects such charges from its own Customer.
- 5.3 IG2 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 IG2 exercises such option, IG2 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 IG2 to route Voice Information Service Traffic originated on its network to Verizon. For such Voice Information Service Traffic, unless IG2 has entered into a written agreement with Verizon under which IG2 will collect from IG2's Customer and remit to Verizon the Voice Information Service provider's charges, IG2 shall pay to Verizon without discount any Voice Information Service provider charges billed by Verizon to IG2. IG2 shall pay Verizon such charges in full regardless of whether or not IG2 collects such charges from its own Customer.

## **6. Intercept and Referral Announcements**

- 6.1 When a Customer changes its service provider from Verizon to IG2, or from IG2 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 IG2'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 IG2 Usage Information to IG2 pursuant to Section 8.3 below; and, (b) "Verizon OSS Information", as defined in Section 8.1.4 below.
- 8.1.3 Verizon OSS Facilities: Any gateways, interfaces, databases, facilities, equipment, software, or systems, used by Verizon to provide Verizon OSS Services to IG2.
- 8.1.4 Verizon OSS Information: Any information accessed by, or disclosed or provided to, IG2 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 IG2 Customer accessed by, or disclosed or provided to, IG2 through or as a part of Verizon OSS Services; and, (b) any IG2 Usage Information (as defined in Section 8.1.6 below) accessed by, or disclosed or provided to, IG2.
- 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 IG2 Usage Information: For a Verizon Retail Telecommunications Service purchased by IG2 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 IG2 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 IG2, Verizon shall provide to IG2 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 IG2.

8.2.3 To the extent required by Applicable Law, in providing Verizon OSS Services to IG2, 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 IG2 Usage Information.

8.3.1 Upon request by IG2, Verizon shall provide to IG2 IG2 Usage Information. Such IG2 Usage Information will be provided in accordance with, but only to the extent required by, Applicable Law.

8.3.2 IG2 Usage Information will be available to IG2 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 IG2 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 above will be issued each day, Monday through Friday, except holidays observed by Verizon.

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, IG2 Usage Information will be provided to IG2 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 IG2 only to the extent necessary for IG2'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 IG2 only to provide Telecommunications Services to IG2 Customers.

8.4.3 IG2 shall restrict access to and use of Verizon OSS Facilities to IG2. This Section 8 does not grant to IG2 any right or license to grant sublicenses to other persons, or permission to other persons (except IG2's employees, agents and contractors, in accordance with Section 8.4.7 below), to access or use Verizon OSS Facilities.

8.4.4 IG2 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 IG2's use under this Section 8.

- 8.4.5 IG2 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 IG2 only in connection with IG2's use of Verizon OSS Facilities permitted by this Section 8; (c) shall be treated by IG2 as Confidential Information of Verizon pursuant to Section 10 of the General Terms and Conditions; and, (d) shall be destroyed or returned by IG2 to Verizon upon the earlier of request by Verizon or the expiration or termination of this Agreement.
- 8.4.7 IG2's employees, agents and contractors may access and use Verizon OSS Facilities only to the extent necessary for IG2's access to and use of the Verizon OSS Facilities permitted by this Agreement. Any access to or use of Verizon OSS Facilities by IG2'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 8.5.2.3 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 IG2 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, IG2 shall acquire no rights in or to any Verizon OSS Information.
  - 8.5.2.1 The provisions of this Section 8.5.2 shall apply to all Verizon OSS Information, except (a) IG2 Usage Information, (b) CPNI of IG2, and (c) CPNI of a Verizon Customer or a IG2 Customer, to the extent the Customer has authorized IG2 to use the CPNI.
  - 8.5.2.2 Verizon OSS Information may be accessed and used by IG2 only to provide Telecommunications Services to IG2 Customers.
  - 8.5.2.3 IG2 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.
  - 8.5.2.4 Except as expressly stated in this Section 8, this Agreement does not grant to IG2 any right or license to grant sublicenses to other persons, or permission to other persons (except IG2's employees, agents or contractors, in

accordance with Section 8.5.2.5 below), to access, use or disclose Verizon OSS Information.

- 8.5.2.5 IG2's employees, agents and contractors may access, use and disclose Verizon OSS Information only to the extent necessary for IG2'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 IG2'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 8.5.2.3 above.
- 8.5.2.6 IG2'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 IG2 to provide Telecommunications Services to IG2 Customers; (b) termination of the license in accordance with this Section 8; or (c) expiration or termination of this Agreement.
- 8.5.2.7 All Verizon OSS Information received by IG2 shall be destroyed or returned by IG2 to Verizon, upon expiration, suspension or termination of the license to use such Verizon OSS Information.
- 8.5.3 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 below), IG2's access to Verizon OSS Information through Verizon OSS Services shall terminate upon the expiration or termination of this Agreement.
- 8.5.4 Audits.
  - 8.5.4.1 Verizon shall have the right (but not the obligation) to audit IG2 to ascertain whether IG2 is complying with the requirements of Applicable Law and this Agreement with regard to IG2 's access to, and use and disclosure of, Verizon OSS Information.
  - 8.5.4.2 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 IG2 's access to and use of Verizon OSS Information which is made available by Verizon to IG2 pursuant to this Agreement, to ascertain whether IG2 is complying with the requirements of Applicable Law and this Agreement, with regard to IG2 '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 IG2 's access to and use of Verizon OSS Information which is made available by Verizon to IG2 through Verizon OSS Facilities.
  - 8.5.4.3 Information obtained by Verizon pursuant to this Section 8.5.4 shall be treated by Verizon as Confidential Information of IG2 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 this Section 8.5.4 to enforce Verizon's rights under this Agreement or Applicable Law.

8.5.5 IG2 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 IG2, or IG2's employees, agents or contractors, of the provisions of Sections 8.4 or 8.5 above shall be deemed a material breach of this Agreement. In addition, if IG2 or an employee, agent or contractor of IG2 at any time breaches a provision of Sections 8.4 or 8.5 above 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 IG2, to suspend the license to use Verizon OSS Information granted by Section 8.5.1 above and/or the provision of Verizon OSS Services, in whole or in part.

8.6.2 IG2 agrees that Verizon would be irreparably injured by a breach of Sections 8.4 or 8.5 above by IG2 or the employees, agents or contractors of IG2, 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 above 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.

IG2, at IG2'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, IG2 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 IG2 anticipates submitting in each week of the next Calendar Quarter.

8.8.2 IG2 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 IG2 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 IG2 Customers.

8.9.1 Verizon shall have the right to access, use and disclose information related to IG2 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 IG2 Customer in the manner required by Applicable Law.

8.9.2 Upon request by Verizon, IG2 shall negotiate in good faith and enter into a contract with Verizon, pursuant to which Verizon may obtain access to IG2'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 IG2 Customers (as authorized by the applicable IG2 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 IG2 prior to, or in lieu of, Verizon's provision of the Verizon OSS Service to IG2. 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 IG2.

8.10.3 Subject to the requirements of Applicable Law, the prices 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 above 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 above to Verizon OSS Services shall be deemed to include Verizon Pre-OSS Services; and, (b) references in Sections 8.4 through 8.8 above to Verizon OSS Information shall be deemed to include information made available to IG2 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 IG2 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 IG2 shall afford Verizon non-discriminatory access to poles, ducts, conduits and rights-of-way owned or controlled by IG2. Such access shall be provided pursuant to IG2's applicable Tariffs, or, in the absence of an applicable IG2 Tariff, IG2'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 IG2 for such access shall be no less favorable than the terms, conditions and prices offered to IG2 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 IG2 Customers served by Telecommunications Services provided by Verizon to IG2 for resale or a Local Switching Network Element provided by Verizon to IG2.
- 10.2 IG2'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, if a Customer of either Verizon or IG2 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 IG2, from IG2 to Verizon, or from IG2 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 IG2 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 IG2 under this Agreement is terminated and the telephone numbers associated with such VTS or VLSNE have not been ported to a IG2 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, IG2, or Telecommunications Carriers other than Verizon and IG2.
- 10.6 IG2 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 IG2 for resale pursuant to the Resale Attachment, upon request by IG2, Verizon will establish an arrangement that will permit IG2 to route the IG2 Customer's calls for operator and directory assistance services to a provider of operator and directory assistance services, selected by IG2. 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 IG2 and a mutually agreed-upon schedule. This routing arrangement will be implemented at IG2's expense, with charges determined on an individual case basis. In addition to charges for initially establishing the routing arrangement, IG2 will be responsible for ongoing monthly and/or usage charges for the routing arrangement. IG2 shall arrange, at its own expense, the trunking and other facilities required to transport traffic to IG2's selected provider of operator and directory assistance services.

## INTERCONNECTION ATTACHMENT

### 1. General

Each Party ("Providing Party") shall provide to the other Party, in accordance with this Agreement, the Providing Party's applicable Tariffs, and Applicable Law, interconnection with the Providing Party's network for the transmission and routing of Telephone Exchange Service and Exchange Access.

### 2. Methods for Interconnection and Trunk Types

#### 2.1 Methods for Interconnection.

- 2.1.1 In accordance with, but only to the extent required by, Applicable Law, the Parties shall provide interconnection of their networks at any technically feasible point as specified in this Agreement.
- 2.1.2 Each Party ("Originating Party"), at its own expense, shall provide for delivery to the relevant IP of the other Party ("Receiving Party") Reciprocal Compensation Traffic and Measured Internet Traffic that the Originating Party wishes to deliver to the Receiving Party.
- 2.1.3 IG2 may use any of the following methods for interconnection with Verizon:
  - 2.1.3.1 a Collocation arrangement IG2 has established at the Verizon-IP pursuant to the Collocation Attachment; and/or
  - 2.1.3.2 a Collocation arrangement that has been established separately at the Verizon-IP by a third party and that is used by IG2 to interconnect with Verizon; and/or
  - 2.1.3.3 an Entrance Facility and transport obtained from Verizon (and any necessary multiplexing) pursuant to the applicable Verizon access Tariff, from the IG2 network to the Verizon-IP.
- 2.1.4 IG2 may order from Verizon, in accordance with the rates, terms and conditions set forth in this Agreement and applicable Verizon Tariff(s) (or in the absence of applicable rates, terms and conditions set forth in this Agreement and Verizon Tariff(s), in accordance with rates, terms and conditions to be negotiated by the Parties), any of the methods for interconnection specified in Section 2.1.3 above.
- 2.1.5 Verizon may use any of the following methods for interconnection with IG2:
  - 2.1.5.1 a Collocation arrangement Verizon has established at the IG2-IP pursuant to the Collocation Attachment, or an interconnection arrangement Verizon has established at the IG2-IP that is operationally equivalent to a Collocation arrangement (including, but not limited to, a Verizon provided Entrance Facility); and/or

2.1.5.2 a Collocation arrangement that has been established separately at the IG2-IP by a third party and that is used by Verizon to interconnect with IG2; and/or

2.1.5.3 a non-distance sensitive Entrance Facility obtained from IG2 (and any necessary multiplexing), from the Verizon network to the IG2-IP (including, but not limited to, at Verizon's election, an Entrance Facility accessed by Verizon through interconnection at a Collocation arrangement that IG2 has established at a Verizon Wire Center pursuant to the Collocation Attachment, or through interconnection at a Collocation arrangement that has been established separately at a Verizon Wire Center by a third party and that is used by IG2), or an Entrance Facility obtained from a third party that has established an interconnection arrangement with IG2.

2.1.6 Verizon may order from IG2, in accordance with the rates, terms and conditions set forth in this Agreement and applicable IG2 Tariff(s) (or in the absence of applicable rates, terms and conditions set forth in this Agreement and IG2 Tariff(s), in accordance with rates, terms and conditions to be negotiated by the Parties), any of the methods for interconnection specified in Section 2.1.5 above.

## 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 IG2 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).

- 2.2.3 Except as otherwise provided in this Agreement, the Parties will mutually agree upon where 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) will be deployed.
- 2.2.4 In the event the volume of traffic between a Verizon End Office and the IG2 network, 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 End Office One-Way Interconnection Trunk groups between the Verizon End Office and the IG2 network; or, (b) if Two-Way Interconnection Trunks are used, IG2 shall promptly submit an ASR to Verizon to establish new End Office Two-Way Interconnection Trunk group(s) between that Verizon End Office and the IG2 network.
- 2.2.5 Except as otherwise agreed in writing by the Parties, the total number of Tandem Interconnection Trunks between IG2's network and a Verizon Tandem will be limited to a maximum of 240 trunks. In the event that the volume of traffic between IG2's network and a Verizon Tandem exceeds, or reasonably can be expected to exceed, the capacity of the 240 trunks, IG2 shall promptly submit an ASR to Verizon to establish new or additional End Office Trunks to insure that the volume of traffic between IG2'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 have agreed to use One-Way Interconnection Trunks for the delivery of traffic from IG2 to Verizon, IG2, at IG2's own expense, shall:
  - 2.3.1.1 provide its own facilities for delivery of the traffic to the IG2 Collocation arrangement at the Verizon-IP or to the third-party Collocation arrangement used by IG2 at the Verizon-IP; and/or
  - 2.3.1.2 obtain transport for delivery of the traffic to the IG2 Collocation arrangement at the Verizon-IP or to the third-party Collocation arrangement used by IG2 at the Verizon-IP (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
  - 2.3.1.3 order the One-Way Trunks from Verizon in accordance with the rates, terms and conditions set forth in this Agreement and applicable Verizon Tariffs, for installation on an Entrance Facility obtained by IG2 from Verizon pursuant to Sections 2.1.3.3 and 2.1.4, and also order multiplexing and transport from Verizon pursuant to Sections 2.1.3.3 and 2.1.4.
    - 2.3.1.3.1 For each Tandem One -Way Interconnection Trunk group provided by Verizon to IG2 with a utilization level of less than sixty percent (60%),

unless the Parties agree otherwise, IG2 will promptly submit ASRs to disconnect a sufficient number of Interconnection Trunks to attain a utilization level of approximately sixty percent (60%).

- 2.3.2 Where the Parties have agreed to use One-Way Interconnection Trunks for the delivery of traffic from Verizon to IG2, Verizon, at Verizon's own expense, shall:
- 2.3.2.1 provide its own facilities for delivery of the traffic to the Verizon Collocation arrangement or interconnection arrangement at the IG2-IP or to the third-party Collocation arrangement used by Verizon at the IG2-IP; or
  - 2.3.2.2 obtain transport for delivery of the traffic to the Verizon Collocation arrangement or interconnection arrangement at the IG2-IP or to the third-party Collocation arrangement used by Verizon at the IG2-IP (a) from a third-party, or, (b) if IG2 offers such transport pursuant to this Agreement or an applicable IG2 Tariff, from IG2; or
  - 2.3.2.3 order the One-Way Trunks from IG2 in accordance with the rates, terms and conditions set forth in this Agreement and applicable IG2 Tariffs for installation on an Entrance Facility obtained by Verizon from IG2 pursuant to Sections 2.1.5.3 and 2.1.6, or obtain the One-Way Trunks from a third-party that has established an interconnection arrangement with IG2.

2.4 Two-Way Interconnection Trunks.

- 2.4.1 Where the Parties have agreed to use Two-Way Interconnection Trunks for the exchange of traffic between Verizon and IG2, IG2 shall order from Verizon, and Verizon shall provide, the Two-Way Interconnection Trunks and the Entrance Facility, on which such Trunks will ride, and transport and multiplexing, in accordance with the rates, terms and conditions set forth in this Agreement and Verizon's applicable Tariffs.
- 2.4.2 Prior to ordering any Two-Way Interconnection Trunks from Verizon, IG2 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 Two-Way End Office and Tandem Interconnection Trunks and the interface specifications at the Point of Interconnection (POI). 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.
- 2.4.3 Two-Way Interconnection Trunks shall be from a Verizon End Office or Tandem to a mutually agreed upon POI.

- 2.4.4 On a semi-annual basis, IG2 shall submit a good faith forecast to Verizon of the number of End Office and Tandem Two-Way Interconnection Trunks that IG2 anticipates Verizon will need to provide during the ensuing two (2) year period to carry traffic from IG2 to Verizon and from Verizon to IG2. IG2'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-Wilkenson 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-Wilkenson B.01 during the average time consistent busy hour. Verizon and IG2 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 IG2 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. IG2 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. IG2 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 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 IG2 has not notified Verizon that it has corrected such blocking, Verizon may submit to IG2 a Trunk Group Service Request directing IG2 to remedy the blocking. Upon receipt of a Trunk Group Service Request, IG2 will complete an ASR to augment the 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. IG2 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, IG2 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 IG2 fails to submit an ASR for Two-Way Interconnection Trunks in conformance with this section, Verizon may bill IG2 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 IG2'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 Upon three (3) months prior written notice and with the mutual agreement of the Parties, either Party may withdraw its traffic from a Two-Way Interconnection Trunk group and install One-Way Interconnection Trunks to the other Party's relevant POI, provided that, if a Party has failed to comply with this Agreement with regard to Two-Way Interconnection Trunks, the other Party may upon three (3) months prior written notice and without mutual agreement of the non-complying Party, withdraw its traffic from a Two-Way Interconnection Trunk group and install One-Way Interconnection Trunks to the non-complying Party's relevant POI.
- 2.4.15 IG2 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 IG2 to a Verizon End Office will first be routed to the End Office Interconnection Trunk group between IG2 and the Verizon End Office.
- 2.4.16 When the Parties implement Two-Way Interconnection Trunks, the Parties will work cooperatively to calculate a Proportionate Percentage of Use ("PPU") factor for each facility on which the Two-Way Interconnection Trunks ride, based on the total number of minutes of traffic that each Party sends over the Two-Way Interconnection Trunks riding on that facility. IG2 will pay a percentage of Verizon's monthly recurring charges for each facility on which the Two-Way Interconnection Trunks ride equal to IG2's percentage of use of that facility as shown by the PPU. The PPU shall not be applied to calculate the charges for any portion of a facility that is on IG2's side of IG2's-IP, which charges shall be solely the financial responsibility of IG2. During the first full calendar quarter (and any partial calendar

quarter preceding such first full calendar quarter) after the first Two-Way Interconnection Trunk is established on a facility, the PPU for that facility will be fifty percent (50%) for each Party. For each calendar quarter thereafter, the Parties shall recalculate the PPU using actual traffic usage data for the preceding calendar quarter.

Non-recurring charges for the facility on which the Two-Way Interconnection Trunks ride shall be apportioned as follows: (a) for the portion of the facility on Verizon's side of the IG2-IP, IG2 shall pay fifty percent (50%) of the Verizon non-recurring charges; and, (b) for the portion of the facility on IG2's side of the IG2-IP, IG2 shall be solely responsible for the non-recurring charges.

Notwithstanding the foregoing provisions of this Section 2.4.16, if IG2 fails to provide IG2-IPs in accordance with this Agreement, IG2 will be responsible for one hundred percent (100%) of all recurring and non-recurring charges associated with Two-Way Interconnection Trunk groups until IG2 establishes such IG2-IPs.

### **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 an End Point Fiber Meet arrangement, which may include a SONET backbone with an optical interface at the OC-n level in accordance with the terms of this Section. The Fiber Distribution Frame at the IG2 location shall be designated as the POI for both Parties.
- 3.2 The establishment of any End Point 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 End Point Fiber Meet arrangement.
- 3.3 Except as otherwise agreed by the Parties, End Point 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 IG2 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, IG2 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 shall include (a) the initial Routing Point(s); (b) the applicable IG2-IPs to be established in the relevant LATA in accordance with this Agreement; (c) IG2's intended Interconnection activation date; (d) a forecast of IG2's trunking requirements conforming to Section 14.3; 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 IG2's notice

provided for in Section 4.1, Verizon and IG2 shall confirm the Verizon-IP(s), the IG2-IP(s) 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 One-Way or Two-Way Interconnection Trunks, both Parties shall use either a DS-1 or DS-3 facilities interface at the POI. When and where an STS-1 interface is available, the Parties may agree to use such an interface. Upon mutual agreement, the Parties may agree to use an optical interface (such as OC-n).

5.2.2 When One-Way or Two-Way Interconnection Trunks are provisioned using a DS-3 interface facility, then IG2 shall order the multiplexed DS-3 facilities to the Verizon Central Office that is designated in the NECA 4 Tariff as an Intermediate Hub location, unless otherwise agreed to in writing by Verizon. The specific NECA 4 Intermediate Hub location to be used for One-Way or Two-Way Interconnection Trunks shall be in the appropriate Tandem subtending area based on the LERG. In the event the appropriate DS-3 Intermediate Hub is not used, then IG2 shall pay 100% of the facility charges for the One-Way or Two-Way Interconnection Trunks.

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 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 IG2 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. For purposes of routing Verizon traffic to IG2, the subtending arrangements between IG2 Tandem Switches and IG2 End Office Switches shall be the same as the Tandem/End Office subtending arrangements that IG2 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.

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. Determinations

as to whether traffic is Reciprocal Compensation Traffic or Measured Internet Traffic shall be made in accordance with Section 7.3.2.1 below.

- 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.

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

### 7.1 Reciprocal Compensation Traffic Interconnection Points.

7.1.1 Except as otherwise agreed by the Parties, the Interconnection Points ("IPs") from which IG2 will provide transport and termination of Reciprocal Compensation Traffic to its Customers ("IG2-IPs") shall be as follows:

7.1.1.1 For each LATA in which IG2 requests to interconnect with Verizon, except as otherwise agreed by the Parties, IG2 shall establish a IG2 IP in each Verizon Local Calling Area (as defined below) where IG2 chooses to assign telephone numbers to its Customers. IG2 shall establish such IG2-IP consistent with the methods of interconnection and interconnection trunking architectures that it will use pursuant to Section 2 or Section 3 of this Attachment. For purposes of this Section 7.1.1.1, Verizon Local Calling Areas shall be as defined in Verizon's effective Customer tariffs and include a non-optional Extended Local Calling Scope Arrangement, but do not include an optional Extended Local Calling Scope Arrangement. If IG2 fails to establish IPs in accordance with the preceding sentences of this Section 7.1.1.1, (a) Verizon may pursue available dispute resolution mechanisms; and, (b) IG2 shall bill and Verizon shall pay the lesser of the negotiated intercarrier compensation rate or the End Office Reciprocal Compensation rate for the relevant traffic less Verizon's transport rate, tandem switching rate (to the extent traffic is tandem switched), and other costs (to the extent that Verizon purchases such transport from IG2 or a third party), from the originating Verizon End Office to the receiving IG2-IP.

7.1.1.2 At any time that IG2 establishes a Collocation site at a Verizon End Office Wire Center in a LATA in which IG2 is interconnected or requesting interconnection with Verizon, either Party may request in writing that such IG2 Collocation site be established as the IG2-IP for traffic originated by Verizon Customers served by that End Office. Upon such request, the Parties shall negotiate in good faith mutually acceptable arrangements for the transition to such IG2-IP.

If the Parties have not reached agreement on such arrangements within thirty (30) days, (a) either Party may pursue available dispute resolution mechanisms; and, (b) IG2 shall bill and Verizon shall pay the lesser of the negotiated intercarrier compensation rate or the End Office Reciprocal Compensation rate for the relevant traffic less Verizon's transport rate, tandem switching rate (to the extent traffic is tandem switched), and other costs (to the extent that Verizon purchases such transport from IG2 or a third party), from the originating Verizon End Office to the receiving IG2-IP:

- 7.1.1.3 In any LATA where the Parties are already interconnected prior to the effective date of this Agreement, IG2 may maintain existing CLEC-IPs, except that Verizon may request in writing to transition such IG2-IPs to the IG2-IPs described in subsections 7.1.1.1 and 7.1.1.2, above. Upon such request, the Parties shall negotiate mutually satisfactory arrangements for the transition to CLEC-IPs that conform to subsections 7.1.1.1 and 7.1.1.2 above. If the Parties have not reached agreement on such arrangements within thirty (30) days, (a) either Party may pursue available dispute resolution mechanisms; and, (b) IG2 shall bill and Verizon shall pay only the lesser of the negotiated intercarrier compensation rate or the End Office reciprocal compensation rate for relevant traffic, less Verizon's transport rate, tandem switching rate (to the extent traffic is tandem switched), and other costs (to the extent that Verizon purchases such transport from IG2 or a third party), from Verizon's originating End Office to the IG2 IP.
- 7.1.2 Except as otherwise agreed by the Parties, the Interconnection Points ("IPs") from which Verizon will provide transport and termination of Reciprocal Compensation Traffic to its Customers ("Verizon-IPs") shall be as follows:
  - 7.1.2.1 For Reciprocal Compensation Traffic delivered by IG2 to the Verizon Tandem subtended by the terminating End Office serving the Verizon Customer, the Verizon-IP will be the Verizon Tandem switch.
  - 7.1.2.2 For Reciprocal Compensation Traffic delivered by IG2 to the Verizon terminating End Office serving the Verizon Customer, the Verizon-IP will be Verizon End Office switch.
- 7.1.3 Should either Party offer additional IPs to any Telecommunications Carrier that is not a Party to this Agreement, the other Party may elect to deliver traffic to such IPs for the NXXs or functionalities served by those IPs. To the extent that any such IG2-IP is not located at a Collocation site at a Verizon Tandem Wire Center or Verizon End Office Wire Center, then IG2 shall permit Verizon to establish physical Interconnection through collocation or other operationally comparable arrangements acceptable to Verizon at the IG2-IP.
- 7.1.4 Each Party is responsible for delivering its Reciprocal Compensation Traffic that is to be terminated by the other Party to the other Party's relevant IP.

7.2 Reciprocal Compensation.

The Parties shall compensate each other for the transport and termination of *Reciprocal Compensation Traffic delivered to the terminating Party in accordance with Section 251(b)(5) of the Act at the rates stated in the Pricing Attachment.* These rates are to be applied at the IG2-IP for traffic delivered by Verizon for termination by IG2, and at the Verizon-IP for traffic delivered by IG2 for termination by Verizon. Except as expressly specified in this Agreement, no additional charges shall apply for the termination from the IP to the Customer of Reciprocal Compensation Traffic delivered to the Verizon-IP by IG2 or the IG2-IP by Verizon. When such Reciprocal Compensation Traffic is delivered over the same trunks as Toll Traffic, any port or transport or other applicable access charges related to the delivery of Toll Traffic from the IP to an end user shall be prorated to be applied 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.

7.3 Traffic Not Subject to Reciprocal Compensation.

7.3.1 Reciprocal Compensation shall not apply to interstate or intrastate Exchange Access, Information Access, or exchange services for Exchange Access or Information Access.

7.3.2 Reciprocal Compensation shall not apply to Internet Traffic.

7.3.2.1 The determination of whether traffic is Reciprocal Compensation Traffic or Internet Traffic shall be performed 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 Internet Traffic, and in accordance with the process established by the FCC Internet Order for rebutting such presumption before the Commission).

7.3.3 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/101XXXX) basis.

7.3.4 Reciprocal Compensation shall not apply to Optional Extended Local Calling Area Traffic.

7.3.5 Reciprocal Compensation shall not apply to special access, private line, or any other traffic that is not switched by the terminating Party.

7.3.6 Reciprocal Compensation shall not apply to Tandem Transit Traffic.

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

7.4 The Reciprocal Compensation charges (including, but not limited to, the Reciprocal Compensation per minute of use charges) billed by IG2 to Verizon shall not exceed the Reciprocal Compensation charges (including, but not limited to, Reciprocal Compensation per minute of use charges) billed by Verizon to IG2.

**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 above, 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 IG2 to Verizon, IG2 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 IG2.

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 Interconnection Points.

8.5.1 The IP of a Party ("Receiving Party") for Measured Internet Traffic delivered to the Receiving Party by the other Party shall be the same as the IP of the Receiving Party for Reciprocal Compensation Traffic under Section 7.1 above.

8.5.2 Except as otherwise set forth in the applicable Tariff of a Party ("Receiving Party") that receives Toll Traffic from the other Party, the IP of the Receiving Party for Toll Traffic delivered to the Receiving Party by the other Party shall be the same as the IP of the Receiving Party for Reciprocal Compensation Traffic under Section 7.1 above.

8.5.3 The IP for traffic exchanged between the Parties that is not Reciprocal Compensation Traffic, Measured Internet Traffic or Toll Traffic, shall be as specified in the applicable provisions of this Agreement or the applicable Tariff of the receiving Party, or in the absence of applicable provisions in this Agreement or a Tariff of the receiving Party, as mutually agreed by the Parties.

**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 IG2 Telephone Exchange Service Customers and Interexchange Carriers ("Access Toll Connecting Trunks"), in any case where IG2 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 IG2 chooses to subtend a Verizon access Tandem, IG2's NPA/NXX must be assigned by IG2 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 IG2 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 IG2's Customers.
- 9.2.3 The Access Toll Connecting Trunks shall be two-way trunks. Such trunks shall connect the End Office IG2 utilizes to provide Telephone Exchange Service and Switched Exchange Access to its Customers in a given LATA to the Tandem 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 IG2'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 IG2 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 IG2 Routing Point/Verizon Serving Wire Center combinations.
- 10.3 Interconnection for the MPB arrangement shall occur at the Verizon access Tandems in the LATA, unless otherwise agreed to by the Parties.
- 10.4 IG2 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 IG2 Routing Point/Verizon Serving Wire Center combination, the MPB billing percentages for transport between the IG2 Routing Point and the Verizon Serving Wire Center shall be calculated in accordance with the formula set forth in Section 10.17.
- 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 IG2 with the Switched Access Detail Usage Data (EMI category 1101XX records) on magnetic tape 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 IG2 shall provide Verizon with the Switched Access Summary Usage Data (EMI category 1150XX records) on magnetic tape or via such other media as the Parties may agree, no later than ten (10) Business Days after the date of its rendering of the bill to the relevant IXC, which bill shall be rendered no less frequently than monthly.
- 10.10 All usage data to be provided pursuant to Sections 10.8 and 10.9 shall be sent to the following addresses:

To IG2:

Deborah S. Arnott, Vice President  
IG2, Inc.  
Compliance Department  
80-02 Kew Gardens Rd., Suite 5000  
Kew Gardens, New York 11415

For Verizon (Former BA service area):

New York State Access Pool  
C/O ACM, Inc.  
120 Erie Blvd.  
Schenectady, N.Y. 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 IG2 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 IG2 determines to offer Telephone Exchange Services in a LATA in which Verizon operates an access Tandem Switch, Verizon shall permit and enable IG2 to subtend the Verizon access Tandem Switch(es) designated for the Verizon End Offices in the area where there are located IG2 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:
- $$a / (a + b) = \text{IG2 Billing Percentage}$$
- and
- $$b / (a + b) = \text{Verizon Billing Percentage}$$
- where:
- a = the airline mileage between IG2 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 IG2 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 IG2's delivery of notice to Verizon, Verizon and IG2 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 then IG2 originating, "untranslated" 8YY traffic will be routed over a separate one-way trunk group.

**11.1 When IG2 delivers translated 8YY calls to Verizon for completion,**

**11.1.1 to an IXC, IG2 shall:**

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

**11.1.1.2** bill the IXC the IG2 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, IG2 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 IG2's Tariffed Feature Group D ("FGD") Switched Exchange Access or Reciprocal Compensation charges, as applicable, and the IG2 query charge; and

**11.1.2.3** Verizon shall bill applicable Tandem Transit Service charges and associated passthrough charges to IG2.

**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 IG2 in it's capacity as a toll free service access code service provider, Verizon shall:**

**11.2.1.1** bill IG2 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 IG2; and

**11.2.1.3** bill IG2 Verizon's Tariffed FGD Switched Exchange Access or Reciprocal Compensation charges as applicable.

**11.3 When IG2: 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 IG2 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 IG2; 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 IG2.

## 12. Tandem Transit Traffic

- 12.1 As used in this Section 12, Tandem Transit Traffic is Telephone Exchange Service traffic that originates on IG2'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 IG2 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 IG2 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 3 through 6. IG2 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 IG2 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 IG2 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 Verizon may, at its sole discretion, terminate Tandem Transit Service at anytime upon thirty (30) days written notice to IG2.
- 12.5 IG2 shall pay Verizon for Transit Service that IG2 originates at the rate specified in the Pricing Attachment, plus 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.
- 12.6 Verizon will not provide Tandem Transit Traffic Service for Tandem Transit Traffic to be delivered to a CLEC, ILEC, CMRS carrier, or other LEC, if the volume of Tandem Transit Traffic to be delivered to that carrier exceeds one (1) DS1 level volume of calls.

- 12.7 If or when a third party carrier's Central Office subtends a IG2 Central Office, then IG2 shall offer to Verizon a service arrangement equivalent to or the same as Tandem Transit Service provided by Verizon to IG2 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 IG2 Central Office ("Reciprocal Tandem Transit Service"). IG2 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, IG2 shall adopt the Rate Center Area and Rate Center Points that the Commission has approved for Verizon within the LATA and Tandem serving area. IG2 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 IG2 will also designate a Routing Point for each assigned NXX code. IG2 shall designate one location for each Rate Center Area in which the IG2 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 IG2 will be routed in the same manner as calls to IG2'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 IG2's choices regarding the size of the local calling area(s) that IG2 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 and geographically relevant IP(s) in a LATA as provided in Section 2; 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 Installation, Maintenance, Testing and Repair.

Unless otherwise agreed in writing by the Parties, to the extent required by Applicable Law, Interconnection provided by a Party shall be equal in quality to that provided by such Party to itself, any subsidiary, affiliates or third party. If either Party is unable to fulfill its obligations under this Section 14.2, it shall notify the other Party of its inability to do so and will negotiate alternative intervals in good faith. The Parties agree that to the extent required by Applicable Law, the standards to be used by a Party for isolating and clearing any disconnections and/or other outages or troubles shall be at parity with standards used by such Party with respect to itself, any subsidiary, affiliate or third party.

14.3 Forecasting Requirements for Trunk Provisioning.

Within ninety (90) days of executing this Agreement, IG2 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 (CLL codes for IG2-IPs and Verizon-IPs), interface type (e.g., DS1), and trunks in service each year (cumulative).

- 14.3.1 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 IG2 decides to market its services, Verizon will be largely dependent on IG2 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 IG2 as IG2 provides to terminate Reciprocal Compensation Traffic to Verizon. At Verizon's discretion, when IG2 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 IG2 suggests; provided, however, that in all cases Verizon's provision of the forecasted number of trunks to IG2 is conditioned on the following: that such forecast is based on reasonable engineering criteria, there are no capacity constraints, and IG2's previous forecasts have proven to be reliable and accurate.

14.3.1.1 Monitoring and Adjusting Forecasts. Verizon will, for ninety (90) days, monitor traffic on each trunk group that it establishes at IG2's suggestion or request pursuant to the procedures identified in Section 14.3. 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 IG2 financially responsible for the excess facilities.

14.3.1.2 In subsequent periods, Verizon may also monitor traffic for ninety (90) days on additional trunk groups that IG2 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 IG2 financially responsible for the excess facilities. At any time during the relevant ninety-(90) day period, IG2 may request that Verizon disconnect trunks to meet a revised forecast. In such instances, Verizon may hold IG2 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 14.2.7, 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 grand-fathered, subject to Section 15.4.5, below.

- 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 IG2 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 rules.

- 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.

## RESALE ATTACHMENT

### 1. General

Verizon shall provide to IG2, 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 IG2; provided, that notwithstanding any other provision of this Agreement, Verizon shall be obligated to provide Telecommunications Services to IG2 only to the extent required by Applicable Law and may decline to provide a Telecommunications Service to IG2 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 IG2 under this Resale Attachment only for the purpose of resale by IG2 as a Telecommunications Carrier. Verizon Telecommunications Services to be purchased by IG2 for other purposes (including, but not limited to, IG2's own use) must be purchased by IG2 pursuant to other applicable Attachments to this Agreement (if any), or separate written agreements, including, but not limited to, applicable Verizon Tariffs.

2.2 IG2 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 IG2 to comply with this Section 2.2, IG2 shall take those actions required by Applicable Law to determine the eligibility of IG2 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. IG2 shall indemnify Verizon from any Claims resulting from IG2's failure to take such actions required by Applicable Law.

2.2.6 Verizon may perform audits to confirm IG2'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 IG2 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 IG2 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 IG2 Customers.

**3. Availability of Verizon Telecommunications Services**

- 3.1 Verizon will provide a Verizon Telecommunications Service to IG2 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, Verizon shall have the right to add, modify, grandfather, discontinue or withdraw, Verizon Telecommunications Services at any time, without the consent of IG2.
- 3.3 To the extent required by Applicable Law, the Verizon Telecommunications Services to be provided to IG2 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 IG2.

**4. Responsibility for Charges**

IG2 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 IG2 Customer locations for the purpose of installing, inspecting, maintaining, repairing, and removing, facilities, equipment, software, and wiring, used to provide the Verizon Telecommunications Services. IG2 shall, at IG2'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 IG2 or IG2 Customers for use with Verizon Telecommunications Services.

5.2 Branding.

5.2.1 Except as stated in Section 5.2.2, in providing Verizon Telecommunications Services to IG2, 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 IG2 to use Verizon's Marks.

5.2.2 To the extent required by Applicable Law, upon request by IG2 and at prices, terms and conditions to be negotiated by IG2 and Verizon, Verizon shall provide Verizon Telecommunications Services for resale that are identified by IG2'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, IG2 will be responsible for entering into a direct contractual arrangement with the third-party contractor at IG2's expense (a) to obtain identification of Verizon Operator Services or Verizon Directory Assistance Services purchased by IG2 for resale with IG2's trade name, or (b) to obtain removal of trade name, trademark or service mark identification from Verizon Operator Services or Verizon Directory Assistance Services purchased by IG2 for resale.

**6. Rates and Charges**

The rates and charges for Verizon Telecommunication Services purchased by IG2 for resale pursuant to this Attachment shall be as provided in this Attachment and the Pricing Attachment.

## NETWORK ELEMENTS ATTACHMENT

### 1. General

- 1.1 Verizon shall provide to IG2, 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 IG2 only to the extent required by Applicable Law and may decline to provide UNEs or Combinations to IG2 to the extent that provision of such UNEs or Combinations is not required by Applicable Law.
- 1.2 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; (b) Verizon shall have no obligation to construct or deploy new facilities or equipment to offer any UNE or Combination; and, (c) Verizon shall not be obligated to combine Network Elements that are not already combined in Verizon's network. Except as otherwise required by Applicable Law, Verizon shall not be obligated, and may decline, to provide a UNE or Combination to IG2, if IG2, either itself or through a third party (e.g., IG2's Customer), has ordered Telecommunications Services from Verizon in order to impose on Verizon an obligation to provide such UNE or a Combination. For example, except as otherwise required by Applicable Law, Verizon shall not be obligated, and may decline, to provide a UNE or Combination to IG2 if IG2 ordered Telecommunications Services or advised its Customer to order Telecommunications Services where the UNE or Combination desired by IG2 was not available in order to permit IG2 to subsequently convert the Telecommunications Services to the UNE or Combination desired by IG2.
- 1.3 IG2 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 IG2. Without limiting the foregoing, IG2 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 IG2 in order to allow IG2 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 IG2 a UNE or Combination that is not offered under this Agreement to IG2 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 IG2, and IG2 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 IG2, 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 IG2. If Verizon terminates its provision of a UNE or a Combination to IG2 pursuant to this Section 1.5 and IG2 elects to purchase other services offered by Verizon in place of such UNE or Combination, then: (a) Verizon shall reasonably cooperate with IG2 to coordinate the termination of such UNE or Combination and the installation of such services to minimize the interruption of service to Customers of IG2; and, (b) IG2 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 IG2 on an unbundled basis or in combination with other Network Elements.
- 1.7 Except as otherwise expressly stated in this Agreement, IG2 shall access Verizon's UNEs specifically identified in this Agreement via Collocation in accordance with the Collocation Attachment at the Verizon Wire Center where those UNEs exist, and each Loop or Port shall, in the case of Collocation, be delivered to IG2's Collocation node by means of a Cross Connection.
- 1.8 If as the result of IG2 Customer actions (i.e., Customer Not Ready ("CNR")), Verizon cannot complete requested work activity when a technician has been dispatched to the IG2 Customer premises, IG2 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, in accordance with, but only to the extent required by, Applicable Law, Verizon shall provide IG2 access to the following:

- 2.1 Loops, as set forth in Section 3;
- 2.2 Line Sharing, as set forth in Section 4;
- 2.3 Line Splitting, as set forth in Section 5;
- 2.4 Sub-Loops, as set forth in Section 6;
- 2.5 Inside Wire, as set forth in Section 7;
- 2.6 Dark Fiber, as set forth in Section 8;
- 2.7 Network Interface Device, as set forth in Section 9;
- 2.8 Switching Elements, as set forth in Section 10;

- 2.9 Interoffice Transmission Facilities (IOF), as set forth in Section 11;
- 2.10 Signaling Networks and Call-Related Databases, as set forth in Section 12;
- 2.11 Operations Support Systems, as set forth in Section 13; and
- 2.12 Other UNEs in accordance with Section 14.

### 3. Loop Transmission Types

Subject to the conditions set forth in Section 1, Verizon shall allow IG2 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 IG2 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 "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 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.
- 3.2 "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.
- 3.3 "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 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.
- 3.4 "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 copper 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.
- 3.5 "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 local loops will be provided only where existing facilities are available and can meet applicable specifications. Verizon will not build new copper facilities. The 2-wire HDSL-compatible loop is available only in Bell Atlantic Service Areas.
- 3.6 "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 local loops will be provided only where existing facilities are available and can meet applicable specifications. Verizon will not build new copper facilities.
- 3.7 "4-Wire DS1-compatible Loop" provides a channel with 4-wire interfaces at each end. Each 4-wire channel is suitable for the transport of 1.544 Mbps digital signals simultaneously in both directions using PCM line code. This Loop type is more fully described in ANSI T1.403 and Verizon TR 72575, as revised from time-to-time. DS-1-compatible Loops will be available only where existing facilities can meet the specifications in ANSI T1.403 and Verizon TR 72575, as revised from time-to-time.
- 3.8 "2-Wire IDSL-Compatible Metallic Loop" consists of a single 2-wire non-loaded, twisted copper pair that meets revised resistance design criteria. This UNE 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 draft 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. This loop cannot be provided via UDLC. IDLC-compatible local loops will be provided only where facilities are available and can meet applicable specifications. Verizon will not build new copper facilities.
- 3.9 "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 draft T1E1.4 loop spectrum management standard (T1E1.4/2000-002R3). This UNE 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. SDSL-compatible local loops will be provided only where facilities are available and can meet applicable specifications. Verizon will not build new copper facilities.
- 3.10 "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 IG2 in accordance with, and subject to, the technical specifications set forth in Verizon Technical Reference TR72575, Issue 2, as revised from time-to-time.
- 3.11 "DS-3 Loops" will support the transmission of isochronous bipolar serial data at a rate of 44.736 Mbps or 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 only be provided where the electronics are at the requested installation date currently available for the requested loop. Verizon will not install new electronics.

- 3.12 "Digital Designed Loops" are comprised of designed loops that meet specific IG2 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:
- 3.12.1 a 2W Digital Designed Metallic Loop with a total loop length of 18k to 30k ft., unloaded, with the option to remove bridged tap;
  - 3.12.2 a 2W ADSL Loop of 12k to 18k ft. with an option to remove bridged tap;
  - 3.12.3 a 2W ADSL Loop of less than 12k ft. with an option to remove bridged tap;
  - 3.12.4 a 2W HDSL Loop of less than 12k ft. with an option to remove bridged tap;
  - 3.12.5 a 4W HDSL Loop of less than 12k ft with an option to remove bridged tap;
  - 3.12.6 a 2 W Digital Designed Metallic Loop with Verizon-placed ISDN loop extension electronics;
  - 3.12.7 a 2W SDSL Loop with an option to remove bridged tap; and
  - 3.12.8 a 2W IDSL Loop of less than 18k ft. with an option to remove bridged tap;
- 3.13 Verizon shall make Digital Designed Loops available to IG2 at the rates as set forth in the Pricing Attachment.
- 3.14 The following ordering procedures shall apply to the xDSL Loops and Digital Designed Loops:
- 3.14.1 IG2 shall place orders for xDSL Loops and Digital Designed 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.
  - 3.14.2 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 ADSL, HDSL, IDSL, SDSL and BRI ISDN signals. The results of this survey will be stored in a mechanized database and made available to IG2 as the process is completed in each Central Office. IG2 must utilize this mechanized loop qualification database, where available, in advance of submitting a valid electronic transmittal *service order for an ADSL, HDSL, IDSL, SDSL or BRI ISDN Loop*. Charges for mechanized loop qualification information are set forth in the Pricing Attachment.

- 3.14.3 If the Loop is not listed in the mechanized database described in Section 3.14.2, IG2 must request a manual loop qualification prior to submitting a valid electronic service order for an ADSL, HDSL, SDSL, IDSL, or BRI ISDN Loop. The rates for manual loop qualification are set forth in the Pricing Attachment. In general, Verizon will complete a manual loop qualification request within three Business Days, although Verizon may require additional time due to poor record conditions, spikes in demand, or other unforeseen events.
- 3.14.4 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), IG2 may request an Engineering Query, as described in Section 3.14.6, 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).
- 3.14.5 If IG2 submits a service order for an ADSL, HDSL, SDSL, IDSL, or BRI ISDN Loop that has not been prequalified, Verizon will query the service order back to IG2 for qualification and will not accept such service order until the Loop has been prequalified on a mechanized or manual basis. If IG2 submits a service order for an ADSL, HDSL, SDSL, IDSL, or BRI ISDN Loop that is, in fact, not compatible with such services in its existing condition, Verizon will respond back to IG2 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).
- 3.14.6 Where IG2 has followed the prequalification procedure described above and has determined that a Loop is not compatible with ADSL, HDSL, SDSL, IDSL, or BRI ISDN service in its existing condition, it may either request an Engineering Query to determine whether conditioning may make the Loop compatible with the applicable service; or if IG2 is already aware of the conditioning required (e.g., where IG2 has previously requested a qualification and has obtained loop characteristics), IG2 may submit a service order for a Digital Designed Loop. Verizon will undertake to condition or extend the Loop in accordance with this Section 3.14 upon receipt of IG2's valid, accurate and pre-qualified service order for a Digital Designed Loop.
- 3.15 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 IG2, 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:
- 3.15.1 Three (3) Business Days will be required following receipt of IG2's valid, accurate and pre-qualified service order for a Digital Designed Loop to analyze the loop and related plant records and to create an Engineering Work Order.
- 3.15.2 Upon completion of an Engineering Work Order, Verizon will initiate the construction order to perform the changes/modifications to the Loop requested by IG2. 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.

- 3.16 If IG2 requires a change in scheduling, it must contact Verizon to issue a supplement to the original service order. If IG2 cancels the request for conditioning after a loop analysis has been completed but prior to the commencement of construction work, IG2 shall compensate Verizon for an Engineering Work Order charge as set forth in the Pricing Attachment. If IG2 cancels the request for conditioning after the loop analysis has been completed and after construction work has started or is complete, IG2 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.
- 3.17 Conversion of Live Telephone Exchange Service to Analog 2W Loops.
  - 3.17.1 The following coordination procedures shall apply to "live" cutovers of Verizon Customers who are converting their Telephone Exchange Services to IG2 Telephone Exchange Services provisioned over Analog 2W unbundled Local Loops ("Analog 2W Loops") to be provided by Verizon to IG2:
    - 3.17.1.1 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 IG2 does not request a coordinated cutover, Verizon will process IG2's order as a new installation subject to applicable standard provisioning intervals.
    - 3.17.1.2 IG2 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 IG2 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, IG2 and Verizon shall mutually agree on a New Conversion Time, as defined below. IG2 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 IG2 the scheduled due date for conversion of the Analog 2W Loops covered by such LSR.
    - 3.17.1.3 IG2 shall provide dial tone at the IG2 Collocation site at least forty-eight (48) hours prior to the Scheduled Conversion Time.
    - 3.17.1.4 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.

3.17.1.5 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:

3.17.1.5.1 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 waived upon request from IG2; and

3.17.1.5.2 If IG2 requests to reschedule outside the one (1) hour time frame above, IG2 shall be charged an additional Analog 2W Loops Service Order Charge for rescheduling the conversion to the New Conversion Time.

3.17.1.6 If IG2 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 IG2 will reschedule and, upon request from IG2, Verizon will waive the Analog 2W Loop Service Order Charge for the original Scheduled Conversion Time.

3.17.1.7 The standard time interval expected from disconnection of a live Telephone Exchange Service to the connection of the Analog 2W Loops to IG2 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.

3.17.1.8 Conversions involving LNP will be completed according to North American Numbering Council ("NANC") standards, via the regional Number Portability Administration Center ("NPAC").

3.17.1.9 If IG2 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.

3.18 Verizon shall provide IG2 access to its Loops at each of Verizon's Wire Centers for Loops terminating in that Wire Center. In addition, if IG2 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 IG2. If, however, no spare physical Loop is available, Verizon shall within three (3) Business Days of IG2's request notify IG2 of the lack of available facilities. IG2 may then at its discretion make a Network Element Bona Fide Request pursuant to Section 14.3 to Verizon to provide the unbundled Local Loop through the demultiplexing of the integrated digitized Loop(s). IG2 may also make a Network Element Bona Fide Request pursuant to Section 14.3 for access to Unbundled Local Loops 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 3.18.

#### 4. Line Sharing

- 4.1 "Line Sharing" is an arrangement by which Verizon facilitates IG2's provision of ADSL (in accordance with T1.413), Splitterless ADSL (in accordance with T1.419), RADSL (in accordance with TR # 59), Multiple Virtual Line (MVL) (a proprietary technology), or any other xDSL technology that is presumed to be acceptable for shared line deployment in accordance with FCC rules, to a particular Customer location over an existing copper Loop that is being used simultaneously by Verizon to provide analog circuit-switched voice grade service to that Customer by making available to IG2, solely for IG2's own use, the frequency range above the voice band on the same copper Loop required by IG2 to provide such services. This Section 4 addresses line sharing over loops that are entirely copper loops.
- 4.2 Subject to the conditions set forth in Section 1, Verizon shall provide Line Sharing to IG2 for IG2's provision of ADSL (in accordance with T1.413), Splitterless ADSL (in accordance with T1.419), RADSL (in accordance with TR # 59), MVL (a proprietary technology), or any other xDSL technology that is presumed to be acceptable for shared line deployment in accordance with FCC rules, in accordance with this Section 4 and the rates and charges provided in the Pricing Attachment. Verizon shall provide Line Sharing to IG2 in accordance with, but only to the extent required by, Applicable Law. In order for a Loop to be eligible for Line Sharing, the following conditions must be satisfied for the duration of the Line Sharing arrangement: (i) the Loop must consist of a copper loop compatible with an xDSL service that is presumed to be acceptable for shared-line deployment in accordance with FCC rules; (ii) Verizon must be providing simultaneous circuit-switched analog voice grade service to the Customer served by the Loop in question; (iii) the Verizon Customer's dial tone must originate from a Verizon End Office Switch in the Wire Center where the Line Sharing arrangement is being requested; and (iv) the xDSL technology to be deployed by IG2 on that Loop must not significantly degrade the performance of other services provided on that Loop.
- 4.3 Verizon shall make Line Sharing available to IG2 at the rates and charges set forth in the Pricing Attachment. In addition to the recurring and nonrecurring charges shown in the Pricing Attachment for Line Sharing itself, the following rates shown in the Pricing Attachment and in Verizon's applicable Tariffs are among those that may apply to a Line Sharing arrangement: (i) prequalification charges to determine whether a Loop is xDSL compatible (i.e., compatible with an xDSL service that is presumed to be acceptable for shared-line deployment in accordance with FCC rules); (ii) engineering query charges, engineering work order charges, or Loop conditioning (Digital Designed Loop) charges; (iii) charges associated with Collocation activities requested by IG2; and (iv)

misdirected dispatch charges, charges for installation or repair, manual intervention surcharges, trouble isolation charges, and pair swap/line and station transfer charges.

- 4.4 The following ordering procedures shall apply to Line Sharing:
- 4.4.1 To determine whether a Loop qualifies for Line Sharing, the Loop must first be prequalified to determine if it is xDSL compatible. IG2 must utilize the Loop qualification processes described in the terms applicable to xDSL and Digital Designed Loops to make this determination.
  - 4.4.2 IG2 shall place orders for Line Sharing 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.
  - 4.4.3 If the Loop is prequalified by IG2 through the Loop prequalification database, and if a positive response is received and followed by receipt of IG2's valid, accurate and pre-qualified service order for Line Sharing, Verizon will return an LSR confirmation within twenty-four (24) hours (weekends and holidays excluded) for LSRs with less than six (6) loops and within 72 hours (weekends and holidays excluded) for LSRs with six (6) or more loops.
  - 4.4.4 If the Loop requires qualification manually or through an Engineering Query, three (3) additional Business Days will generally be required to obtain Loop qualification results before an order confirmation can be returned following receipt of IG2's valid, accurate request. Verizon may require additional time to complete the Engineering Query where there are poor record conditions, spikes in demand, or other unforeseen events.
  - 4.4.5 If conditioning is required to make a Loop capable of supporting Line Sharing and IG2 orders such conditioning, then Verizon shall provide such conditioning in accordance with the terms of this Agreement pertaining to Digital Designed Loops; or if this Agreement does not contain provisions pertaining to Digital Designed Loops, then in accordance with Verizon's generally available rates, terms and conditions applicable to Digital Design Loops; provided, however, that Verizon shall not be obligated to provide Loop conditioning if Verizon establishes, in the manner required by Applicable Law, that such conditioning is likely to degrade significantly the voice-grade service being provided to Verizon's Customers over such Loops.
  - 4.4.6 The standard Loop provisioning and installation process will be initiated for the Line Sharing arrangement only once the requested engineering and conditioning tasks have been completed on the Loop. Scheduling changes and charges associated with order cancellations after conditioning work has been initiated are addressed in the terms pertaining to Digital Designed Loops, as referenced in Section 4.4.5, above. The standard provisioning interval for the Line Sharing arrangement shall be as set out in the Verizon Product Interval Guide; provided that the standard provisioning interval for the Line Sharing arrangement shall not exceed the shortest of the following intervals:
    - (a) six (6) business days;
    - (b) the standard provisioning interval for the

Line Sharing arrangement that is stated in an applicable Verizon Tariff; or, (c) the standard provisioning interval for the Line Sharing arrangement that is required by Applicable Law. The standard provisioning interval for the Line Sharing arrangement shall commence only once any requested engineering and conditioning tasks have been completed. Line Sharing arrangements that require pair swaps or line and station transfers in order to free-up facilities may have a provisioning interval that is longer than the standard provisioning interval for the Line Sharing arrangement. In no event shall the Line Sharing interval offered to IG2 be longer than the interval offered to any similarly situated Affiliate of Verizon.

- 4.4.7 IG2 must provide all required Collocation, CFA, Special Bill Number (SBN) and NC/NCI information when a Line Sharing Arrangement is ordered. Collocation augments required, either at the Point of Termination (POT) Bay, Collocation node, or for splitter placement, must be ordered using standard collocation applications and procedures, unless otherwise agreed to by the Parties or specified in this Agreement.
- 4.4.8 The Parties recognize that Line Sharing is an offering that requires both Parties to make reasonable efforts to coordinate their respective roles in order to minimize provisioning problems and facility issues. IG2 will provide reasonable, timely, and accurate forecasts of its Line Sharing requirements, including splitter placement elections and ordering preferences. These forecasts are in addition to projections provided for other stand-alone unbundled Loop types.
- 4.5 To the extent required by Applicable Law, IG2 shall provide Verizon with information regarding the type of xDSL technology that it deploys on each shared Loop. Where any proposed change in technology is planned on a shared Loop, IG2 must provide this information to Verizon in order for Verizon to update Loop records and anticipate effects that the change may have on the voice grade service and other Loops in the same or adjacent binder groups.
- 4.6 As described more fully in Verizon Technical Reference 72575, the xDSL technology used by IG2 for Line Share Arrangements shall operate within the Power Spectral Density (PSD) limits set forth in T1.413-1998 (ADSL), T1.419-2000 (Splitterless ADSL), or TR59-1999 (RADSL), and MVL (a proprietary technology) shall operate within the 0 to 4 kHz PSD limits of T1.413-1998 and within the transmit PSD limits of T1.601-1998 for frequencies above 4 kHz, provided that the MVL PSD associated with audible frequencies above 4 kHz shall be sufficiently attenuated to preclude significantly degrading voice services. IG2's deployment of additional Advanced Services shall be subject to the applicable FCC Rules.
- 4.7 IG2 may only access the high frequency portion of a Loop in a Line Sharing arrangement through an established Collocation arrangement at the Verizon Serving Wire Center that contains the End Office Switch through which voice grade service is provided to Verizon's Customer. IG2 is responsible for providing, through one of the splitter options described below, a splitter at that Wire Center that complies with ANSI specification T1.413, employs Direct Current (DC) blocking capacitors or equivalent technology to assist in isolating high bandwidth trouble resolution and maintenance to the high frequency portion of the frequency spectrum, and operates so that the analog voice "dial tone" stays active when the splitter card is removed for testing or maintenance. IG2 is also responsible for providing its own Digital Subscriber Line Access Multiplexer

(DSLAM) equipment in the Collocation arrangement and any necessary Customer Provided Equipment (CPE) for the xDSL service it intends to provide (including CPE splitters, filters and/or other equipment necessary for the end user to receive separate voice and data services across the shared Loop).

Two splitter configurations are available. In both configurations, the splitter must be provided by IG2 and must satisfy the same NEBS requirements that Verizon imposes on its own splitter equipment or the splitter equipment of any Verizon Affiliate. IG2 must designate which splitter option it is choosing on the Collocation application or augment. Regardless of the option selected, the splitter arrangements must be installed before IG2 submits an order for Line Sharing.

#### Splitter Option 1: Splitter in IG2 Collocation Area

In this configuration, the IG2-provided splitter (ANSI T1.413 or MVL compliant) is provided, installed and maintained by IG2 in its own Collocation space within the Customer's serving End Office. The Verizon-provided dial tone is routed through the splitter in the IG2 Collocation area. Any rearrangements will be the responsibility of IG2.

#### Splitter Option 2: Splitter in Verizon Area

In this configuration, Verizon inventories and maintains a IG2-provided splitter (ANSI T1.413 or MVL compliant) in Verizon space within the Customer's serving End Office. The splitters will be installed shelf-at-a-time.

In those serving End Offices where Verizon employs the use of a POT Bay for interconnection of IG2's Collocation arrangement with Verizon's network, the splitter will be installed (mounted) in a relay rack between the POT Bay and the MDF. The demarcation point is at the splitter end of the cable connecting the POT Bay and the splitter. Installation of the splitter will be performed by Verizon or, at IG2's election, by a Verizon-approved vendor designated by IG2:

In those serving End Offices where Verizon does not employ a POT Bay for interconnection of IG2's Collocation arrangement with Verizon's network, the IG2 provided splitter will be installed (mounted) in a relay rack between the IG2 Collocation arrangement and the MDF. The demarcation point is at the splitter end of the cable connecting the IG2 Collocation arrangement and the splitter. Installation of the splitter will be performed by Verizon, or, at IG2's election, by a Verizon-approved vendor designated by IG2.

In either scenario, Verizon will control the splitter and will direct any required activity. Where a POT Bay is employed, Verizon will also perform all POT Bay work required in this configuration. Verizon will provide a splitter inventory to IG2 upon completion of the required work.

- 4.7.1 Where a new splitter is to be installed as part of an initial Collocation implementation, the splitter installation may be ordered as part of the initial Collocation application. Associated Collocation charges (application and engineering fees) apply. IG2 must submit a new Collocation application, with the application fee, to Verizon detailing its request. Except as otherwise required by Applicable Law, standard Collocation intervals will apply.

4.7.2 Where a new splitter is to be installed as part of an existing Collocation arrangement, or where the existing Collocation arrangement is to be augmented (e.g., with additional terminations at the POT Bay or IG2's collocation arrangement to support Line Sharing), the splitter installation or augment may be ordered via an application for Collocation augment. Associated Collocation charges (application and engineering fees) apply. IG2 must submit the application for Collocation augment, with the application fee, to Verizon. Unless a longer interval is stated in Verizon's applicable Tariff, an interval of seventy-six (76) business days shall apply.

4.8 IG2 will have the following options for testing shared Loops:

4.8.1 In serving End Offices where Verizon employs a POT Bay for interconnection of IG2 Collocation arrangement with Verizon's network, the following options shall be available to IG2.

4.8.1.1 Under Splitter Option 1, IG2 may conduct its own physical tests of the shared Loop from IG2's collocation area. If it chooses to do so, IG2 may supply and install a test head to facilitate such physical tests, provided that: (a) the test head satisfies the same NEBS requirements that Verizon imposes on its own test head equipment or the test head equipment of any Verizon Affiliate; and (b) the test head does not interrupt the voice circuit to any greater degree than a conventional MLT test. Specifically, the IG2-provided test equipment may not interrupt an in-in-progress voice connection and must automatically restore any circuits tested in intervals comparable to MLT. This optional IG2-provided test head will be installed in IG2's Collocaton area between the "line" port of the splitter and the POT Bay in order to conduct remote physical tests of the shared Loop.

4.8.1.2 Under Splitter Option 2, upon request by IG2, either Verizon or, at IG2's election, a Verizon-approved vendor selected by IG2 will install a IG2-provided test head to enable IG2 to conduct remote physical tests of the shared Loop. This optional IG2-provided test head will be installed at a point between the "line" port of the splitter and the Verizon-provided test head that is used by Verizon to conduct its own Loop testing. The IG2-provided test head must satisfy the same NEBS requirements that Verizon imposes on its own test head equipment or the test head equipment of any Verizon Affiliate, and may not interrupt the voice circuit to any greater degree than a conventional MLT test. Specifically, the IG2-provided test equipment may not interrupt an in-progress voice connection and must automatically restore any circuits tested in intervals comparable to MLT. Verizon will inventory, control and maintain the IG2-provided test head, and will direct all required activity.

4.8.1.3 Under either Splitter Option, if Verizon has installed its own test head, Verizon will conduct tests of the shared Loop using a Verizon-provided test head, and, upon request, will provide these test results to IG2 during normal trouble

isolation procedures in accordance with reasonable procedures.

- 4.8.1.4 Under either Splitter Option, upon request by IG2, Verizon will make MLT access available to IG2 via RETAS after the service order has been completed. IG2 will utilize the circuit number to initiate a test.
- 4.8.2 In those serving End Offices where Verizon has not employed a POT Bay for interconnection of IG2's Collocation arrangement with Verizon's network, IG2 will not be permitted to supply its own test head. Instead, Verizon will make a testing system available to IG2 through use of the on-line computer interface test system at [www.verizon.com/wise](http://www.verizon.com/wise).
- 4.8.3 The Parties will continue to work cooperatively on testing procedures. To this end, in situations where IG2 has attempted to use one or more of the foregoing testing options but is still unable to resolve the error or trouble on the shared Loop, Verizon and IG2 will each dispatch a technician to an agreed-upon point to conduct a joint meet test to identify and resolve the error or trouble. Verizon may assess a charge for a misdirected dispatch only if the error or trouble is determined to be one that IG2 should reasonably have been able to isolate and diagnose through one of the testing options available to IG2 above. The Parties will mutually agree upon the specific procedures for conducting joint meet tests.
- 4.8.4 Verizon and IG2 each have a responsibility to educate the Customer regarding which service provider should be called for problems with their respective service offerings. Verizon will retain primary responsibility for voice band trouble tickets, including repairing analog voice grade services and the physical line between the NID at the Customer premise and the point of demarcation in the Central Office. IG2 will be responsible for repairing services it offers over the Line Sharing arrangement. Each Party will be responsible for maintaining its own equipment. If a splitter or test head that IG2 has provided to Verizon malfunctions, IG2 shall provide a replacement splitter or test head to Verizon. Before either Party initiates any activity on a shared Loop that may cause a disruption of the service of the other Party, that Party shall first make a good faith effort to notify the other Party of the possibility of a service disruption. Verizon and IG2 will work together to address Customer initiated repair requests and to prevent adverse impacts to the Customer.
- 4.8.5 When Verizon provides Inside Wire maintenance services to the Customer, Verizon will only be responsible for testing and repairing the Inside Wire for voice-grade services. Verizon will not test, dispatch a technician, repair, or upgrade Inside Wire to clear trouble calls associated with IG2's Advanced Services. Verizon will not repair any CPE provided by IG2. Before a trouble ticket is issued to Verizon, IG2 shall validate whether the Customer is experiencing a trouble that arises from IG2's service. If the problem reported is isolated to the analog voice-grade service provided by Verizon, a trouble ticket may be issued to Verizon.

- 4.8.6 In the case of a trouble reported by the Customer on its voice-grade service, if Verizon determines the reported trouble arises from IG2's equipment, splitter problems, or IG2's activities, Verizon will:
- 4.8.6.1 Notify IG2 and request that IG2 immediately test the trouble on IG2's service.
  - 4.8.6.2 If the Customer's voice grade service is so degraded that the Customer cannot originate or receive voice grade calls, and IG2 has not cleared its trouble within a reasonable time frame, Verizon may take unilateral steps to temporarily restore the Customer's voice grade service if Verizon determines in good faith that the cause of the voice interruption is IG2's service.
  - 4.8.6.3 Upon completion of the steps in 4.8.6.1 and 4.8.6.2, above, Verizon may temporarily remove the IG2-provided splitter from the Customer's Loop and switch port if Verizon determines in good faith that the cause of the voice interruption is IG2's service.
  - 4.8.6.4 Upon notification from IG2 that the malfunction in IG2's service has been cleared, Verizon will restore IG2's service by restoring the splitter on the Customer's Loop.
  - 4.8.6.5 Upon completion of the above steps, IG2 will be charged a Trouble Isolation Charge (TIC) to recover Verizon's costs of isolating and temporarily removing the malfunctioning IG2 service from the Customer's line if the cause of the voice interruption was IG2's service.
  - 4.8.6.6 Verizon shall not be liable to IG2, the Customer, or any other person, for damages of any kind for disruptions to IG2's service that are the result of the above steps taken in good faith to restore the end user's voice-grade POTS service, and IG2 shall indemnify Verizon from any Claims that result from such steps.

## 5. Line Splitting

CLECs may provide integrated voice and data services over the same Loop by engaging in "line splitting" as set forth in paragraph 18 of the FCC's Line Sharing Reconsideration Order (CC Docket Nos. 98-147, 96-98), released January 19, 2001. Any line splitting between two CLECs shall be accomplished by prior negotiated arrangement between those CLECs. To achieve a line splitting capability, CLECs may utilize existing supporting OSS to order and combine in a line splitting configuration an unbundled xDSL capable Loop terminated to a collocated splitter and DSLAM equipment provided by a participating CLEC, unbundled switching combined with shared transport, collocator-to-collocator connections, and available cross-connects, under the terms and conditions set forth in their Interconnection Agreement(s). The participating CLECs shall provide any splitters used in a line splitting configuration. CLECs seeking to migrate existing UNE platform configurations to a line splitting configuration using the same unbundled elements utilized in the pre-existing platform arrangement may do so consistent with such implementation schedules, terms, conditions and guidelines as are agreed upon for such migrations in the ongoing DSL Collaborative in the State of New York, NY PSC Case 00-C-0127, allowing for local jurisdictional and OSS differences.

## 6. Sub-Loop

### 6.1 Sub-Loop – Distribution (USLA).

Subject to the conditions set forth in Section 1 and upon request by IG2, Verizon shall provide IG2 with access to a Sub-Loop Distribution Facility (as such term is hereinafter defined) in accordance with , and subject to, the terms and provisions of this Section 6, the rates set forth in the Pricing Attachment, and the rates, terms and conditions set forth in Verizon's applicable Tariffs. A "Distribution Sub-Loop" means a two-wire or four-wire metallic distribution facility in Verizon's network between a Verizon feeder distribution interface (an FDI) and the rate demarcation point for such facility (or network interface device (NID) if the NID is located at such rate demarcation point). Verizon shall provide IG2 with access to a Sub-Loop Distribution Facility in accordance with, but only to the extent required by, Applicable Law.

6.1.1 IG2 may request that Verizon reactivate (if available) an unused drop and NID or provide IG2 with access to a drop and NID that, at the time of IG2's request, Verizon is using to provide service to the Customer (as such term is hereinafter defined).

6.1.2 IG2 may obtain access to a Sub-Loop Distribution Facility only at an FDI and only from a Telecommunications outside plant interconnection cabinet (TOPIC) or, if IG2 is collocated at a remote terminal equipment enclosure and the FDI for such Sub-Loop Distribution Facility is located in such enclosure, from the collocation arrangement of IG2 at such terminal. To obtain access to a Sub-Loop Distribution Facility, IG2 shall install a TOPIC on an easement or Right of Way obtained by IG2 within 100 feet of the Verizon FDI to which such Distribution Sub-Loop is connected. A TOPIC must comply with applicable industry standards. Subject to the terms of applicable Verizon easements, Verizon shall furnish and place an interconnecting cable between a Verizon FDI and a IG2 TOPIC and Verizon shall install a termination block within such TOPIC. Verizon shall retain title to and maintain the interconnecting cable. Verizon shall not be responsible for building, maintaining or servicing the TOPIC and shall not provide any power that might be required by IG2 for any electronics in the TOPIC. IG2 shall provide any easement, Right of Way or trenching or supporting structure required for any portion of an interconnecting cable that runs beyond a Verizon easement.

6.1.3 IG2 may request from Verizon by submitting a loop make-up engineering query to Verizon, and Verizon shall provide to IG2, the following information regarding a Sub-Loop Distribution Facility that serves an identified Customer: the Sub-Loop Distribution Facility's length and gauge; whether Sub-Loop Distribution Facility has loading and bridged tap; the amount of bridged tap (if any) on the Sub-Loop Distribution Facility; and, the location of the FDI to which the Sub-Loop Distribution Facility is connected.

6.1.4 To order access to a Sub-Loop Distribution Facility, IG2 must first request that Verizon connect the Verizon FDI to which the Sub-Loop Distribution Facility is connected to a IG2 TOPIC. To make such a request, IG2 must submit to Verizon an application (a "Sub-Loop Distribution Facility Interconnection Application") that identifies the FDI at which IG2 wishes to access the Sub-Loop Distribution Facility. A

Sub-Loop Distribution Facility Interconnection Application shall state the location of the TOPIC, the size of the interconnecting cable and a description of the cable's supporting structure. A Sub-Loop Distribution Facility Interconnection Application shall also include a five-year forecast of IG2's demand for access to Sub-Loop Distribution Facilities at the requested FDI. IG2 must submit the application fee: set forth in the Pricing Attachment attached hereto and Verizon's applicable Tariffs (a "Sub-Loop Distribution Facility Application Fee") with Sub-Loop Distribution Facility Interconnection Application. IG2 must submit Sub-Loop Interconnection Applications to:

USLA Project Manager  
Verizon  
Room 509  
125 High Street  
Boston, MA 02110  
E-Mail: Collocation.applications@Verizon.com

- 6.1.5 Within sixty (60) days after it receives a complete Sub-Loop Distribution Facility Interconnection Application for access to a Sub-Loop Distribution Facility and the Sub-Loop Distribution Facility Application Fee for such application, Verizon shall provide to IG2 a work order that describes the work that Verizon must perform to provide such access (a "Sub-Loop Distribution Facility Work Order") and a statements of the cost of such work (a "Sub-Loop Distribution Facility Interconnection Cost Statement").
- 6.1.6 IG2 shall pay to Verizon fifty percent (50%) of the cost set forth in a Sub-Loop Distribution Facility Interconnection Cost Statement within sixty (60) days of IG2's receipt of such statement and the associated Sub-Loop Distribution Facility Work Order, and Verizon shall not be obligated to perform any of the work set forth in such order until Verizon has received such payment. A Sub-Loop Distribution Facility Interconnection Application shall be deemed to have been withdrawn if IG2 breaches its payment obligation under this Section. Upon Verizon's completion of the work that Verizon must perform to provide IG2 with access to a Distribution Sub-Loop, Verizon shall bill IG2, and IG2 shall pay to Verizon, the balance of the cost set forth in the Sub-Loop Distribution Facility Interconnection Cost Statement for such access.
- 6.1.7 After Verizon has completed the installation of the interconnecting cable to a IG2 TOPIC and IG2 has paid the full cost of such installation, IG2 can request the connection of Verizon Sub-Loop Distribution Facilities to the IG2 TOPIC. At the same time, IG2 shall advise Verizon of the services that IG2 plans to provide over the Sub-Loop Distribution Facility, request any conditioning of the Sub-Loop Distribution Facility and assign the pairs in the interconnecting cable. IG2 shall run any crosswires within the TOPIC.
- 6.1.8 If IG2 requests that Verizon reactivate an unused drop and NID, then IG2 shall provide dial tone (or its DSL equivalent) on the IG2 side of the applicable Verizon FDI at least twenty-four (24) hours before the due date. On the due date, a Verizon technician will run the appropriate cross connection to connect the Verizon Sub-Loop Distribution Facility to the IG2 dial tone or equivalent from the TOPIC.

If IG2 requests that Verizon provide IG2 with access to a Sub-Loop Distribution Facility that, at the time of IG2's request, Verizon is using to provide service to a Customer, then, after IG2 has looped two interconnecting pairs through the TOPIC and at least twenty four (24) hours before the due date, a Verizon technician shall crosswire the dial tone from the Verizon central office through the Verizon side of the TOPIC and back out again to the Verizon FDI and Verizon Sub-Loop Distribution Facility using the "loop through" approach. On the due date, IG2 shall disconnect Verizon's dial tone, crosswire its dial tone to the Sub-Loop Distribution Facility and submit IG2's long-term number portability request.

- 6.1.9 Verizon will not provide access to a Sub-Loop Distribution Facility if Verizon is using the loop of which the Sub-Loop Distribution Facility is a part to provide line sharing service to another CLEC or a service that uses derived channel technology to a Customer unless such other CLEC first terminates the Verizon-provided line sharing or such Customer first disconnects the service that utilizes derived channel technology.
- 6.1.10 Verizon shall provide IG2 with access to a Sub-Loop Distribution Facility in accordance with negotiated intervals
- 6.1.11 Verizon shall repair and maintain a Sub-Loop Distribution Facility at the request of IG2 and subject to the time and material rates set forth in Pricing Attachment and the rates, terms and conditions of Verizon's applicable Tariffs. IG2 accepts responsibility for initial trouble isolation for Sub-Loop Distribution Facilities and providing Verizon with appropriate dispatch information based on its test results. If (a) IG2 reports to Verizon a Customer trouble, (b) IG2 requests a dispatch, (c) Verizon dispatches a technician, and (d) such trouble was not caused by Verizon Sub-Loop Distribution Facility facilities or equipment in whole or in part, IG2 shall pay Verizon the charges set forth in the Pricing Attachment and Verizon's applicable Tariffs for time associated with said dispatch. In addition, these charges also apply when the Customer contact as designated by IG2 is not available at the appointed time. If as the result of IG2 instructions, Verizon is erroneously requested to dispatch to a site on Verizon company premises ("dispatch in"), the charges set forth in Pricing Attachment and Verizon's applicable Tariffs will be assessed per occurrence to IG2 by Verizon. If as the result of IG2 instructions, Verizon is erroneously requested to dispatch to a site outside of Verizon company premises ("dispatch out"), the charges set forth in Pricing Attachment and Verizon's applicable Tariffs will be assessed per occurrence to IG2 by Verizon.

6.2 Sub-Loop – Feeder (UFSE).

- 6.2.1 Subject to the conditions set forth in Section 1 of this agreement and upon request by IG2, Verizon shall provide IG2 with access to a Feeder Sub-Loop (as such term is hereinafter defined) in accordance with, and subject to, the terms and provisions of this Section 6.2, the rates and charges provided in the Pricing Attachment and the rates, terms and conditions of Verizon's applicable Tariffs. A "Feeder Sub-Loop" means 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 feeder distribution interface (such an interface, an "FDI") that subtends the end office.

- 6.2.2 IG2 may obtain access to a Feeder Sub-Loop only from a IG2 collocation arrangement in the Verizon end office where such Feeder Sub-Loop originates and Verizon shall terminate a Feeder Sub-Loop in an RTEE that subtends such end office only if IG2 has a collocation arrangement in such RTEE. Upon IG2's request, Verizon will connect a Feeder Sub-Loop to a IG2 collocation arrangement in the Verizon end office where the Feeder Sub-Loop originates and to either a IG2 collocation arrangement in the Verizon RTEE that subtends such end office or a Telecommunications Carrier Outside Plant Cabinet (such a cabinet, a "TOPIC") located within 100 feet of the FDI that subtends the end office and that IG2 has established in accordance with, and subject to the terms and provisions of, an agreement between Verizon and IG2 that governs the establishment of such TOPIC. Verizon shall connect a Feeder Sub-Loop to the point of termination bay of a IG2 collocation arrangement in a Verizon Central Office or to a IG2 TOPIC, by installing appropriate cross connections and Verizon shall be solely responsible for installing such cross connections. IG2 may obtain access to a Feeder Sub-Loop between an end office and an RTEE or an FDI only if DS1 or DS3-capable transmission facilities are available and not in use between such office and RTEE or FDI.
- 6.2.3 IG2 shall run any crosswires within a IG2 physical collocation arrangement and a IG2 TOPIC and IG2 will have sole responsibility for identifying to Verizon where a Feeder Sub-Loop should be connected to a IG2 collocation arrangement. IG2 shall be solely responsible for providing power and space for any cross connects and other equipment that Verizon installs in a TOPIC, and IG2 shall not bill Verizon, and Verizon shall not pay IG2, for providing such power and space.
- 6.2.4 Verizon shall not be obligated to provide to IG2 any multiplexing at an RTEE or at a TOPIC or to combine a Feeder Sub-Loop with a Distribution Sub-Loop. If IG2 requests access to a Feeder Sub-Loop and a Distribution Sub-Loop that are already combined, such combination shall be deemed to be a loop and Verizon shall provide such loop to IG2 in accordance with, but only to the extent required by, the terms, provisions and rates in this Agreement that govern loops, if any.
- 6.2.5 Verizon shall provide IG2 with access to a Feeder Sub-Loop in accordance with negotiated intervals.
- 6.2.6 Verizon shall repair and maintain a Feeder Sub-Loop at the request of IG2 and subject to the time and material rates set forth in the Pricing Attachment and the rates, terms and conditions of Verizon's applicable Tariffs. IG2 may not rearrange, disconnect, remove or attempt to repair or maintain any Verizon equipment or facilities without the prior written consent of Verizon. IG2 accepts responsibility for initial trouble isolation for Feeder Sub-Loops and providing Verizon with appropriate dispatch information based on its test results. If (a) IG2 reports to Verizon a trouble, (b) IG2 requests a dispatch, (c) Verizon dispatches a technician, and (d) such trouble was not caused by Feeder Sub-Loop facilities or equipment in whole or in part, then IG2 shall pay Verizon the charges set forth in Pricing Attachment and Verizon's

applicable Tariffs for time associated with said dispatch. In addition, these charges also apply when a IG2 contact as designated by IG2 is not available at the appointed time. If as the result of IG2 instructions, Verizon is erroneously requested to dispatch to a site on Verizon company premises ("dispatch in"), the charges set forth in Pricing Attachment and Verizon's applicable Tariffs will be assessed per occurrence to IG2 by Verizon. If as the result of IG2 instructions, Verizon is erroneously requested to dispatch to a site outside of Verizon company premises ("dispatch out"), the charges set forth in Pricing Attachment and Verizon's applicable Tariffs will be assessed per occurrence to IG2 by Verizon.

6.3 Collocation in Remote Terminals.

To the extent required by Applicable Law, Verizon shall allow IG2 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 and upon request, Verizon shall provide IG2 with access to unbundled Dark Fiber Loops, Dark Fiber Subloops and Dark Fiber IOF (as such terms are hereinafter defined) 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 Subloops and Dark Fiber IOF will be provided by Verizon only where existing facilities are available at the requested availability date. Access to Dark Fiber Loops, Dark Fiber Subloops and Dark Fiber IOF will be provided in accordance with, but only to the extent required by, Applicable Law. Except as otherwise required by Applicable Law, the following terms and conditions apply to Verizon's Dark Fiber offerings.

8.1.1 A "Dark Fiber Loop" consists of continuous 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 main termination point at a Customer premise, such as the fiber patch panel located within a Customer premise, and that has not been activated through connection to electronics that "light" it and render it capable of carrying Telecommunications Services.

8.1.2 A "Dark Fiber Subloop" consists of continuous 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 main termination point located within a Customer premise, 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.

8.1.3 A "Dark Fiber IOF" consists of continuous fiber strand(s) that are located within a fiber optic cable between either (a) Accessible Terminals in two Verizon Central Offices or (b) an Accessible Terminal in a Verizon Central Office and a IG2 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.

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 Subloops 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 IG2's collocation arrangement located in that same Verizon Central Office and the other end terminates at the Customer premise. Verizon shall be required to provide a Dark Fiber Subloop only where (1) one end of the Dark Fiber Subloop terminates at Verizon's Accessible Terminal in Verizon's Central Office that can be cross-connected to IG2'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 IG2's collocation arrangement or adjacent structure, or (2) one end of the Dark Fiber Subloop terminates at Verizon's main termination point located within the Customer premise and the other end terminates at Verizon's Accessible Terminal at a Verizon remote terminal equipment enclosure that can be cross-connected to IG2's collocation arrangement or adjacent structure, or (3) one end of the Dark Fiber Subloop terminates at Verizon's Accessible Terminal at a Verizon remote terminal equipment enclosure that can be cross-connected to IG2'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 IG2's collocation arrangement or adjacent structure. A IG2 demarcation point at a Customer premise shall be established in the main telco room of the Customer premise 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 IG2 demarcation point at a Customer premise shall be established at a location that is no more than 30 feet from Verizon's Accessible Terminal on which the Dark Fiber Loop or Dark Fiber Subloop terminates. Verizon shall connect a Dark Fiber Loop or Dark Fiber Subloop to the IG2 demarcation point by installing a fiber jumper no greater than 30 feet in length

8.2.2 IG2 may access a Dark Fiber Loop, a Dark Fiber Subloop, or Dark Fiber IOF only at a pre-existing Verizon Accessible Terminal of such Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF, and IG2 may not access a Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF at any other point, including, but not limited to, a splice point or case. Dark Fiber Loops, Dark Fiber Subloops and Dark Fiber IOF are not available IG2 unless such Dark Fiber Loops, Dark Fiber Subloops or

Dark Fiber IOF already are terminated on a Verizon Accessible Terminal. Except where required by Applicable Law, Verizon will not introduce additional splice points or open existing splice points or cases to accommodate IG2's request. 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 IG2.

- 8.2.3 A strand shall not be deemed to be continuous if splicing is required to provide fiber continuity between two locations. Dark Fiber Loops, Dark Fiber Subloops and Dark Fiber IOF will only be offered on a route-direct basis where facilities exist (i.e., no intermediate offices).
- 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 IG2 collocation arrangement or (2) from a Verizon Accessible Terminal to IG2's demarcation point at a Customer premise or IG2 Central Office.
- 8.2.5 A Dark Fiber Inquiry must be submitted prior to submitting an ASR. Upon receipt of the completed Dark Fiber Inquiry, Verizon will initiate a review of its cable records to determine whether Dark Fiber Loop, Dark Fiber Subloop 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 IG2's request, indicating whether Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF may be available 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 Loops, Dark Fiber Subloops or Dark Fiber IOF.
- 8.2.6 IG2 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 Access to Dark Fiber Loops, Dark Fiber Sub-Loops and Dark Fiber IOF that terminate in a Verizon premise must be accomplished via a collocation arrangement in that premise. In circumstances where collocation cannot be accomplished in the premises, the Parties agree to negotiate for possible alternative arrangements.
- 8.2.8 A Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF will be offered to IG2 in the condition that it is available in Verizon's network at the time that IG2 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 Subloop or Dark Fiber IOF for IG2'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 Subloops or Dark Fiber IOF, and, therefore, will not be offered to IG2 as Dark Fiber Loops, Dark Fiber Subloops or Dark Fiber IOF.
- 8.2.10 Fiber that has been assigned to fulfill a Customer order or for maintenance purposes will not be offered to IG2 as Dark Fiber Loops, Dark Fiber Sub-Loops or Dark Fiber IOF.

- 8.2.11 IG2 shall be responsible for providing all transmission, terminating and regeneration equipment necessary to light and use Dark Fiber Loops, Dark Fiber Subloops, or Dark Fiber IOF.
- 8.2.12 IG2 may not resell Dark Fiber Loops, Dark Fiber Subloops 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 Subloops or Dark Fiber IOF to IG2 for use for Special or Switched Exchange Access Services, IG2 shall not use Dark Fiber Loops, Dark Fiber Subloops or Dark Fiber IOF, for Special or Switched Exchange Access Services.
- 8.2.14 In order to preserve the efficiency of its network, Verizon will limit IG2 to leasing up to a maximum of twenty-five percent (25%) of the Dark Fiber Loops, Dark Fiber Subloops or Dark 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 Subloops or Dark Fiber IOF leased to IG2 upon a showing of need to the Commission and twelve (12) months' advance written notice to IG2; and
- 8.2.14.2 Revoke Dark Fiber Loops, Dark Fiber Subloops or Dark Fiber IOF leased to IG2 upon a showing to the Commission that IG2 underutilized fiber within any twelve (12) month period;
- 8.2.14.3 Verizon reserves and shall not waive, Verizon's right to claim before the Commission that Verizon should not have to fulfill a IG2 order for Dark Fiber Loops, Dark Fiber Subloops, 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 IG2, or impair Verizon's ability to meet a legal obligation.
- 8.2.15 IG2 may not reserve Dark Fiber Loops, Dark Fiber Subloops, or Dark Fiber IOF.
- 8.2.16 IG2 shall be solely responsible for: (a) determining whether or not the transmission characteristics of the Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF accommodate the requirements of IG2; (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 Subloop or Dark Fiber IOF; (c) installation of fiber optic transmission equipment needed to power the Dark Fiber Loop, Dark Fiber Subloop 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) IG2's collocation arrangements with any proper optical cross connects or other equipment that IG2 needs to access Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF before it submits an order for such access. IG2 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 dark fiber, on or

before the date that IG2 places an order for the applicable dark fiber, and that it shall maintain the same going forward.

- 8.2.17 IG2 is responsible for trouble isolation before reporting trouble to Verizon. Verizon will restore continuity to Dark Fiber Loops, Dark Fiber Subloops and Dark Fiber IOF that have been broken. Verizon will not repair a Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF that is capable of transmitting light, even if the transmission characteristics of the Dark Fiber Loop, Dark Fiber Subloop or Dark Fiber IOF have changed.
- 8.2.18 IG2 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 IG2.

## **9. Network Interface Device**

- 9.1 Subject to the conditions set forth in Section 1, at IG2's request, Verizon shall permit IG2 to connect a IG2 Loop to the Inside Wiring of a Customer through the use of a Verizon NID in accordance with this Section 9 and the rates and charges provided in the Pricing Attachment. Verizon shall provide IG2 with access to NIDs in accordance with, but only to the extent required by, Applicable Law. IG2 may access a Verizon NID either by means of a connection (but only if the use of such connection is technically feasible) from an adjoining IG2 NID deployed by IG2 or, if an entrance module is available in the Verizon NID, by connecting a IG2 Loop to the Verizon NID. In all cases, Verizon shall perform this connection. When necessary, Verizon will rearrange its facilities to provide access to an existing Customer's Inside Wire. An entrance module is available only if facilities are not connected to it.
- 9.2 In no case shall IG2 access, remove, disconnect or in any other way rearrange, Verizon's Loop facilities from Verizon's NIDs, enclosures, or protectors.
- 9.3 In no case shall IG2 access, remove, disconnect or in any other way rearrange, a Customer's Inside Wiring from Verizon's NIDs, enclosures, or protectors where such Customer Inside Wiring is used in the provision of ongoing Telecommunications Service to that Customer.
- 9.4 In no case shall IG2 remove or disconnect ground wires from Verizon's NIDs, enclosures, or protectors.
- 9.5 In no case shall IG2 remove or disconnect NID modules, protectors, or terminals from Verizon's NID enclosures.
- 9.6 Maintenance and control of premises Inside Wiring is the responsibility of the Customer. Any conflicts between service providers for access to the Customer's Inside Wiring must be resolved by the person who controls use of the wiring (e.g., the Customer).
- 9.7 When IG2 is connecting a IG2-provided Loop to the Inside Wiring of a Customer's premises through the Customer's side of the Verizon NID, IG2 does not need to submit a request to Verizon and Verizon shall not charge IG2 for access to the Verizon NID. In such instances, IG2 shall comply with the provisions of Sections 9.2 through 9.7 of this Agreement and shall access the Customer's Inside Wire in the manner set forth in Section 9.8 of this Agreement.

9.8 Due to the wide variety of NIDs utilized by Verizon (based on Customer size and environmental considerations), IG2 may access the Customer's Inside Wiring, acting as the agent of the Customer by any of the following means:

9.8.1 Where an adequate length of Inside Wiring is present and environmental conditions permit, IG2 may remove the Inside Wiring from the Customer's side of the Verizon NID and connect that Inside Wiring to IG2's NID.

9.8.2 Where an adequate length of Inside Wiring is not present or environmental conditions do not permit, IG2 may enter the Customer side of the Verizon NID enclosure for the purpose of removing the Inside Wiring from the terminals of Verizon's NID and connecting a connectorized or spliced jumper wire from a suitable "punch out" hole of such NID enclosure to the Inside Wiring within the space of the Customer side of the Verizon NID. Such connection shall be electrically insulated and shall not make any contact with the connection points or terminals within the Customer side of the Verizon NID.

9.8.3 IG2 may request Verizon to make other rearrangements to the Inside Wiring terminations or terminal enclosure on a time and materials cost basis to be charged to the requesting party (i.e. IG2, its agent, the building owner or the Customer). If IG2 accesses the Customer's Inside Wiring as described in this Section 9.8.3, time and materials charges will be billed to the requesting party (i.e. IG2, its agent, the building owner or the Customer).

## 10. Unbundled Switching Elements

10.1 Subject to the conditions set forth in Section 1, Verizon shall make available to IG2 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 IG2 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 IG2 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. IG2 may submit a Bona Fide Request in accordance with Section 14.3 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 IG2 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), IG2 shall complete the NDR process. As part of the NDR process, IG2 shall request standardized or customized routing of its Customer traffic in conjunction with the provision of unbundled Local Switching.

If IG2 selects customized routing, IG2 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**

Subject to the conditions set forth in Section 1, where facilities are available, at IG2's request, Verizon shall provide IG2 with 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 IG2 also purchases unbundled Local Switching capability from Verizon in accordance with Section 10 of this Attachment. Verizon shall provide IG2 with such IOF in accordance with, but only to the extent required by, Applicable Law.

**12. Signaling Networks and Call-Related Databases**

12.1 Subject to the conditions set forth in Section 1, Verizon shall provide IG2 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 IG2 shall provide Verizon with CCS Interconnection required for call routing and completion, and the billing of calls which involve IG2's Customers, at non-discriminatory rates (subject to the provisions of the Pricing Attachment), terms and conditions, provided further that if the IG2 information Verizon requires to

provide such call-related functionality is resident in a database, IG2 will provide Verizon with the access and authorization to query IG2'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 IG2 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 IG2.
- 12.4 Regardless of the manner in which IG2 obtains CCS Interconnection, IG2 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 IG2 signaling systems to the public Internet Protocol network may expose IG2 and Verizon signaling systems and information to interference by third parties. IG2 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. IG2 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 B8ZS 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 IG2 in accordance with the Pricing Attachment and the terms and conditions in applicable Tariffs. IG2 shall charge Verizon rates equal to the rates Verizon charges IG2, unless IG2's Tariffs for CCS signaling provide for lower generally available rates, in which case IG2 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 above and in Section 8 of the Additional Services Attachment, Verizon shall provide IG2 with access via electronic interfaces to databases required for pre-ordering, ordering, provisioning, maintenance and repair, and billing. Verizon shall provide IG2 with such access in accordance with, but only to the extent required by, Applicable Law. All such transactions shall be submitted by IG2 through such electronic interfaces.

### **14. Availability of Other Network Elements on an Unbundled Basis**

- 14.1 Any request by IG2 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, below. IG2 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) IG2 reports to Verizon a Customer trouble, (b) IG2 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 IG2 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 IG2 is not available at the appointed time. IG2 accepts responsibility for initial trouble isolation and providing Verizon with appropriate dispatch information based on its test results. If, as the result of IG2 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 IG2 by Verizon. If as the result of IG2 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 IG2 by Verizon. Verizon agrees to respond to IG2 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, Verizon shall be obligated to provide a combination of Network Elements (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 IG2, Verizon shall provide such Combination in accordance with, and subject to, requirements established by Verizon that are consistent with Applicable Law (such requirements, the "Combo Requirements"). Verizon shall make the Combo Requirements publicly available in an electronic form.

**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.

## COLLOCATION ATTACHMENT

### 1. Verizon's Provision of Collocation

Verizon shall provide to IG2, 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 IG2'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 IG2 only to the extent required by Applicable Law and may decline to provide Collocation to IG2 to the extent that provision of Collocation is not required by Applicable Law. Subject to the foregoing, Verizon shall provide Collocation to IG2 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.

### 2. IG2's Provision of Collocation

Upon request by Verizon, IG2 shall provide to Verizon collocation of facilities and equipment for the purpose of facilitating Verizon's interconnection with facilities or services of IG2. IG2 shall provide collocation on a non-discriminatory basis in accordance with IG2's applicable Tariffs, or in the absence of applicable IG2 Tariffs, in accordance with terms, conditions and prices to be negotiated by the Parties. The terms, conditions and prices offered to Verizon by IG2 for collocation shall be no less favorable than the terms, conditions and prices offered to IG2 by Verizon for collocation.

## 911 ATTACHMENT

### 1. 911/E-911 Arrangements

- 1.1 IG2 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 IG2 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 IG2 with the appropriate CLLI codes and specifications of the Tandem Office serving area. In areas where E-911 is not available, IG2 and Verizon will negotiate arrangements to connect IG2 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 IG2-IP, the Verizon-IP, 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 IG2, to include all required information and applicable forms, and to the extent authorized by the relevant federal, state, and local authorities, Verizon will provide IG2, 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 IG2 is providing, or represents to Verizon that it intends to provide within sixty (60) days of IG2'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 IG2;
  - 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 IG2 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 IG2 911/E-911 data entry files containing errors, so that IG2 may ensure the accuracy of the Customer records.

### 2. Electronic Interface

IG2 shall use, where available, the appropriate Verizon electronic interface, through which IG2 shall input and provide a daily update of 911/E-911 database information related to appropriate IG2 Customers. In those areas where an electronic interface is not available, IG2 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). IG2 may also use the electronic interface, where available, to query the 911/E-911 database to verify the accuracy of IG2 Customer information.

**3. 911 Interconnection**

Verizon and IG2 will use commercially reasonable efforts to facilitate the prompt, robust, reliable and efficient interconnection of IG2 systems to the 911/E-911 platforms and/or systems.

**4. 911 Facilities**

IG2 shall be responsible for providing facilities from the IG2 End Office to the 911 Tandem or selective router. IG2 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 IG2. Therefore, for those ported telephone numbers using INP, IG2 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, IG2 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. IG2 will include their NENA five character Company Identification ("COID") for inclusion in the ALI display.

5.1 IG2 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 IG2's NENA COID to lock and unlock records and the posting of IG2'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 IG2 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**

IG2 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**

IG2 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 Pennsylvania (BA).



## 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, below, 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, the Charges shall be as stated in Appendix A of this Pricing Attachment.
- 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, 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, 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, the Charges for the Service shall be mutually agreed to by the Parties in writing.

### 2. Verizon Telecommunications Services Provided to IG2 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 IG2 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 IG2 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 IG2 for resale pursuant to Section 251(c)(4) of the Act.
- 2.1.3 Notwithstanding Sections 2.1 and 2.2, 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 IG2 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 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 rate 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 IG2 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 IG2 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 IG2.

**3. IG2 Prices**

Notwithstanding any other provision of this Agreement, the Charges that IG2 bills Verizon for IG2's Services shall not exceed the Charges for Verizon's comparable Services, except to the extent that IG2's cost to provide such IG2 Services to Verizon exceeds the Charges for Verizon's comparable

Services and IG2 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 IG2

A. INTERCONNECTION<sup>1</sup>

<u>Service or Element Description</u> <sup>2</sup> :	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>I. Reciprocal Compensation Traffic Termination</b> <sup>3</sup>		
Traffic Delivered at Verizon End Office	\$.001723/MOU	Not Applicable
Traffic Delivered at Verizon Tandem	\$.002814/MOU	Not Applicable

<sup>1</sup> All rates and charges specified herein are pertaining to the Interconnection Attachment.

<sup>2</sup> Unless a citation is provided to a generally applicable Verizon tariff, all listed rates and services are available only to «CLEC Acronym TXT» 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 «CLEC Acronym TXT» 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.

<sup>3</sup> 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 IG2 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 ELEMENTS<sup>4</sup>****Service or Element Description<sup>5</sup>:****Recurring Charges:****Non-Recurring Charge:****I. Dedicated Transport<sup>6</sup>**

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

\$378.21\*/Month &  
\$15.23\*/Mile/Month

OC-3

\$1,144.03\*/Month &  
\$46.79\*/Mile/Month

OC-12

\$2,887.97\*/Month &  
\$95.12\*/Mile/Month**II. Common Transport**

Tandem Switching

\$.000795/MOU

Not Applicable

Transport Fixed

\$.000144/MOU

Not Applicable

Transport Per Mile

\$.000003/MOU

Not Applicable

<sup>4</sup> All rates and charges specified herein are pertaining to the Unbundled Network Elements Attachment.

<sup>5</sup> All rates and/or rate structures set forth herein, that are marked with an asterisk (\*), as applied to wholesale discount of retail Telecommunications Services, unbundled Network Elements or call transport and/or termination of Reciprocal Compensation Traffic purchased for the provision of Telephone Exchange Service or Exchange Access, shall be interim rates and/or rate structures. These interim rates and/or rate structures shall be replaced on a prospective basis by such permanent rates and/or rate structures (applicable to wholesale discount of retail Telecommunications Services, unbundled Network Elements or call transport and/or termination of Reciprocal Compensation Traffic purchased for the provision of Telephone Exchange Service or Exchange Access) as may be approved by the Commission and if appealed as may be ordered at the conclusion of such appeal.

<sup>6</sup> 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.

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 residential UNE Loops and UNE Advance Services Loops. The terms and conditions on which these promotional discounts are being made available can be found on <http://www.verizon.com/wise> for former GTE service areas and former Bell Atlantic service areas.

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

		<u>All:</u>
		\$1.06/Service Order plus installation charges for each initial and additional facility purchased at the time of order:
2 Wire Voice Grade Channel Termination	\$14.04/Month	\$503.05/Initial & \$292.96/Additional
4 Wire Voice Grade Channel Termination	\$28.78/Month	\$504.74/Initial & \$293.52/Additional
DS-1 to Voice Grade Multiplexing	\$73.28/Month	\$554.67/Initial & \$554.67/Additional
DS-1 Channel Termination	\$155.68/Month	\$676.43/Initial & \$335.87/Additional
DS-3 to DS-1 Multiplexing	\$242.57/Month	\$554.67/Initial & \$554.67/Additional
DS-3 Channel Termination	\$975.90/Month	\$676.43/Initial & \$335.87/Additional
STS-1	\$325.52*/Month	\$676.43*/Initial & \$335.87*/Additional
OC-3	\$530.56*/Month	\$676.43*/Initial & \$335.87*/Additional
OC-12	\$2,129.17*/Month	\$676.43*/Initial & \$335.87*/Additional

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

V. Unbundled Switching<sup>7</sup>

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

\$.16/Month

Centrex Intercom

\$.002/Call

Custom Ringing

Calling Number Delivery Block

ISDN (BRI)

\$9.74Port/Month

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

<sup>7</sup> 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 \$1.32/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>b. Tandem Switching Usage</b>	\$0.000795/MOU	Not Applicable
<b>c. Local Switching Usage</b>		

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

Originating With Vertical Features  
Terminating With Vertical Features  
**d. Trunk Ports**  
End Office (Dedicated)  
Tandem

\$.001802/MOU  
\$.001615/MOU  
\$87.81  
\$214.57

Not Applicable  
Not Applicable  
\$1.06/Service Order  
Initial facility \$357.97  
Additional facility (when ordered at time of Initial Facility) \$24.29

**VI. Unbundled Loops<sup>8</sup>**

2 Wire Analog Loops (POTS Loops)

Density Cell:

1 - \$10.25/Month  
2 - \$11.00/Month  
3 - \$14.00/Month  
4 - \$17.50/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

<sup>8</sup> 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 residential UNE Loops and UNE Advance Services Loops. The terms and conditions on which these promotional discounts are being made available can be found on <http://www.verizon.com/wise> for former GTE service areas and former Bell Atlantic service areas.

**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 - \$17.50/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:<sup>9</sup>  
If premises visit not required - \$3.28 per order

If premises visit required - \$12.25 per order

Designed Circuit:  
\$41.42 per order

<sup>9</sup> Coordinated Cutover not available with ADSL, HDSL, SDSL, IDSL or Digital Designed Loops.

**Service or Element Description:**

Customer Specified Signaling - 4 Wire

**Recurring Charges:**

Density Cell:  
1 - \$19.93/Month  
2 - \$22.81/Month  
3 - \$28.69/Month  
4 - \$34.43/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:<sup>10</sup>  
If premises visit not required - \$3.28 per order  
If premises visit required - \$12.25 per order

Designed Circuit:  
\$41.42 per order

---

<sup>10</sup> Coordinated Cutover not available with ADSL, HDSL, SDSL, IDSL or Digital Designed Loops.

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:  
If premises visit not required - \$3.28 per order

If premises visit required - \$12.25 per order

Designed Circuit:  
\$41.42 per order

Service or Element Description:

DS3

Recurring Charges:

Density Cell:  
1 - \$915.64/Month  
2 - \$915.64/Month  
3 - \$915.64/Month  
4 - \$915.64/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: If premises visit not required - \$3.28 per order  
If premises visit required - \$12.25 per order

Designed Circuit:  
\$41.42 per order

**Service or Element Description:**

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

**Recurring Charges:**

Density Cell:  
1 - \$10.25/Month  
2 - \$11.00/Month  
3 - \$14.00/Month  
4 - \$17.50/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

Cooperative Testing,  
per loop-\$31.72

Engineering query,  
\$123.60

Engineering Work  
Order,  
\$555.40

**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

**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-\$31.72

Engineering query, \$123.60

Engineering Work Order, \$555.40

Digital Four-Wire (56 KD) Loops

Density Cell:  
1 - \$37.54\*/Month  
2 - \$40.06\*/Month  
3 - \$47.07\*/Month  
4 - \$51.79\*/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, premise visit- \$12.25\*  
no premises visit - \$3.28\*

CCS Design, per order \$41.42\*

**Service or Element Description:**

Standard Digital Loop

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

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

**Recurring Charges:**

All:  
\$.45/ Mechanized Loop  
Qualification per Loop  
Provisioned

See rates for 2 Wire ADSL Loops as set forth above

See rates for 2 Wire ADSL Loops as set forth above

**Non-Recurring Charge:**

All:  
\$95.27/ Manual Loop  
Qualification per Loop  
Request

\$193.13\*  
Removal of one Bridged  
Tap per Request

\$469.83\*  
Removal of Multiple  
Bridged Taps per Loop  
per Request (up to  
18,000 feet)

\$123.60\*  
Engineering Query

\$555.40\*  
Engineering Work Order  
Charge

\$193.13\*  
Removal of one Bridged  
Tap per Request

\$469.83\*  
Removal of Multiple  
Bridged Taps per Loop  
per Request (up to  
18,000 feet)

\$123.60\*  
Engineering Query

\$555.40\*  
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

\$883.54\*  
Required Removal of Load Coils (up to 21,000 feet)

\$1175.10\*  
Required removal of Load Coils (up to 27,000 feet)

\$193.13\*  
Removal of one Bridged Tap per Request

\$469.83\*  
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)

\$123.60\*  
Engineering Query

\$555.40\*  
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

\$883.54\*  
Required Removal of Load Coils (up to 21,000 feet)

\$1175.10\*  
Required Removal of Load Coils (up to 27,000 feet)

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

		\$193.13* Removal of one Bridged Tap per Request
		\$469.83* Removal of Multiple Bridged Taps per Loop per Request
		\$1,055.72* Addition of Range Electronics
		\$123.60* Engineering Query
		\$555.40* 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	\$193.13* Removal of one Bridged Tap per Request
		\$469.83* Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)
		\$123.60* Engineering Query
		\$555.40* 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

\$193.13\*  
Removal of one Bridged Tap per Request

\$469.83\*  
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)  
\$123.60\*  
Engineering Query

\$555.40\*  
Engineering Work Order Charge

2 Wire SDSL compatible Loops with Bridged Tap removal

See rates for 2 Wire SDSL Loops as set forth above

\$193.13\*  
Removal of one Bridged Tap per Request

\$469.83\*  
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)  
\$123.60\*  
Engineering Query

\$555.40\*  
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

\$193.13\*  
Removal of one Bridged Tap per Request

\$469.83\*  
Removal of Multiple Bridged Taps per Loop per Request (up to 18,000 feet)

Service or Element Description:

Recurring Charges:

Non-Recurring Charge:

VII. Intrastate Collocation

\$123.60\*  
Engineering Query

\$555.40\*  
Engineering Work Order  
Charge

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

VIII. Line Sharing

Rate Element	\$ Amount	Mo.	NRC	*Option 1 <sup>11</sup>	*Option 2 VERIZON installs/ CLEC vendor installs	
Application Fee - Augment	\$2500*		X	Not applicable unless adding line-sharing terminations	(1)	(1)
Engineering & Implementation Fee -Additional Cabling	\$1095.80*		X	Not applicable unless adding line-sharing terminations	(1)	(1)
Splitter Installation Cost	\$1,300.91*		X	Not applicable	(1)	
Collocation cross-connect perVG	\$1.17* for virtual \$0.40* for physical	X		(2) SAC <sup>12</sup> s	(2) SACs	(2) SACs

\*Both Option 1 and Option 2 assume there is an existing Collocation Arrangement.

(1) = one required

(2) = two required

<sup>11</sup> 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.

<sup>12</sup> Service Access Charge (SAC) is the same as Interconnection Access Charge or a cross connect.

Rate Element	\$ Amount	Mo.	NRC	*Option 1	Option 2 VERIZON installs/ CLEC vendor installs	
Splitter Option A	\$20.49*	X		(1)		
Splitter Option B	\$26.29*	X			(1)	(1)
Splitter Equipment Support	\$3.97*	X		(1)	(1)	(1)
WideBand Test Access per line	\$2.10*	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 1	Option 2 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	\$0.45*	X		(1)	(1)	(1)
Manual Loop Qualification	\$95.27*		X	(1)	(1)	(1)
Engineering Query	\$123.60*		X	(1)	(1)	(1)
Engineering Work Order	\$555.40*		X	(1)	(1)	(1)
OSS Charges per transaction	TBD*					
Unbundled Loops	\$0.00*	X				
Conditioning charges for Digital Loops and Line Sharing	See Digital Designed Loop Rates		X			

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

Service or Element Description:

Recurring  
Charges:

Non-Recurring  
Charge:

**IX. EEL**

DS0 Connection Charge  
2 Wire Analog Loop

\$0.08\*

2 Wire Digital Loop

\$0.09\*

4 Wire Analog Loop

\$0.17\*

DS1 Connection Charge

\$0.91\*

DS3 Connection Charge

\$108.39\*

Digital Four Wire DS0 Loop Connection Charge

\$0.27\*

**X. UNE Platform Conversion**

Initial

\$4.20\*

Additional

\$4.04\*

Service or Element Description:

Recurring  
Charges:

Non-Recurring  
Charge:

**XI. DARK FIBER**

Records Review		\$224.67*
Dark Fiber – IOF		
Verizon C.O. to Verizon C.O		
Service Order		\$55.22*
Serving Wire Center ("SWC") Charge/SWC/Pair	\$7.41*	\$45.59*
IOF Mileage/Pair/ mile	\$66.30*	
IOF Mileage Installation Charge/Pair		\$204.94*
Verizon C.O. to CLEC C.O.		
Service Order		\$55.22*
SWC Charge/SWC/Pair	\$7.41*	\$42.59*
Channel Termination Charge/CLEC C.O.	\$68.60*	\$353.23*
Dark Fiber – LOOP		
Loop Charge/Pair		
Rate Group A1	\$44.49*	\$566.97*
Rate Group A2	\$82.27*	\$566.97*
Rate Group B1	\$120.55*	\$566.97*
Rate Group B2	\$153.34*	\$566.97*
Service Order		\$55.22*
Serving Wire Center (SWC) Charge/SWC/Pair	\$7.41*	\$38.53*

**XII. UNBUNDLED SUBLOOP ARRANGEMENT (USLA)**

USLA - 2 Wire - Distribution	<u>Density Cell</u>	<u>New:</u>
	1-\$3.44*	Initial \$128.93*
	2-\$3.47*	Additional \$58.05*
	3-\$5.31*	<u>Loop Through:</u>
	4-\$8.25*	Initial \$222.89*
		Additional \$130.13*
USLA - 4 Wire – Distribution	<u>Density Cell</u>	<u>New:</u>
	1-\$4.39*	Initial \$159.25*
	2-\$5.07*	Additional \$73.55*
	3-\$8.18*	<u>Loop Through:</u>
	4-\$13.44*	Initial \$253.10*
		Additional \$154.73*

**Service or Element Description:**

**Recurring Charges:**

**Non-Recurring Charge:**

**XIII. 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 IG2'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

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
Help Desk Support	\$82.55/Hour	Not Applicable
<b>5. Service Charges</b>		
Subscription Charge	\$5.25/Month	Not Applicable
Database Queries		
a. Network Query	\$.0006/Query	Not Applicable
b. IG2 Network Query	\$.0006/Query	Not Applicable
c. IG2 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. IG2 Network Service Activation	Not Applicable	\$8.48/Service Activated/Line

**Service or Element Description:**

**Recurring Charges:**

**Non-Recurring Charge:**

c. IG2 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

**XIV. Network Interface Device (NID)**

2-wire NID

\$.64\*/Month

Not Applicable

4-wire NID

\$.64\*/Month

Not Applicable

DS1 NID

\$3.81\*

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 Call Dispatch

\$25.56\*

Each 15 minutes (period or part)

\$12.25\*

**C. RESALE<sup>13</sup>**

**I. Wholesale Discount for Resale of Retail Telecommunications Services<sup>14</sup>**

Resale of retail services if IG2 provides own operator services platform	25.69%
Resale of retail services if IG2 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

---

<sup>13</sup> 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.

<sup>14</sup> 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.

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>D. OPERATIONS SUPPORT SYSTEM</b>		
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	\$.000261/Message	Not Applicable
b.2. Delivery of DUF		
Data Tape	\$17.34/Tape	\$62.13/Programming Hour
Network Data Mover	\$.000095/Message	Not Applicable
CMDS	\$.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		
<b>E. 911/E911</b>		
Transport	Access pass-through to number portability purchaser	
Data Entry and Maintenance	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  
\$25.56/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 IG2 per separate  
arrangement

RECIPROCAL COMPENSATION TRAFFIC TERMINATION RATES

A. Charges by Verizon

- (a) Traffic delivered to Verizon Access Tandem: \$.002814 per mou.
- (b) Traffic delivered directly to terminating Verizon End Office: \$.001723 per mou.

B. Charges by IG2

1. Single-tiered interconnection structure:

IG2'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:

*Access Tandem Minutes* = Total minutes of use of Reciprocal Compensation Traffic delivered by IG2 to Verizon Access Tandem for most recent billed quarter.

*End Office Minutes* = Total minutes of use Reciprocal Compensation Traffic delivered by IG2 directly to the terminating Verizon End Office for most recent billed quarter.

*Total Minutes* = Total minutes of use of Reciprocal Compensation Traffic delivered by IG2 to Verizon for most recent billed quarter.

IG2 Charge at the IG2-IP =

$$\frac{(\text{Access Tandem Minutes} \times \$0.002814) + (\text{End Office Minutes} \times \$0.001723)}{\text{Total Minutes}}$$

For the first year after the Effective Date, the IG2 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 Access Tandems.

2. Multiple-tiered interconnection structure (if offered by IG2 to any carrier)

- (a) Reciprocal Compensation Traffic delivered to IG2 Access Tandem: \$.002814
- (b) Reciprocal Compensation Traffic delivered to terminating IG2 End Office/node: \$.001723

C. Miscellaneous Notes

1. The IG2 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 IG2-IP within each LATA that is reciprocal and equal to the actual rates that will be charged by Verizon to IG2 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 IG2 termination rate is also intended to provide financial incentives to IG2 to deliver traffic directly to Verizon's terminating End Offices once IG2's traffic volumes reach an appropriate threshold.

SERVICE LIST

**ORIGINAL**

J. G. Harrington  
Dow, Lohnes and Albertson  
1200 New Hampshire Ave. N.W.  
Suite 800  
Washington, D.C. 20036-6802

Irvin A. Popowsky  
Office of Consumer Advocate  
555 Walnut Street, 5<sup>th</sup> Floor  
Harrisburg, PA 17101-1921

Office of the Attorney General  
Bureau of Consumer Protection  
Strawberry Square, 14th Floor  
Harrisburg, PA 17120

Andrew O. Isar  
Telecommunications Resellers  
4321 92<sup>nd</sup> Avenue N.W.  
Gig Harbor, WA 98335

Brian Barno  
PA Cable & Telecommunications  
127 State Street  
Harrisburg, PA 17101-1025

John Short, Esq.  
United Telephone Co. of PA  
1201 Walnut Bottom Road  
Carlisle, PA 17013

Bernard Ryan  
Office of Sm. Business Advocate  
Commerce Building, Suite 1102  
300 North Second Street  
Harrisburg, PA 17101

Bureau of Consumer Services  
PA Public Utility Commission  
P. O. Box 3265  
Harrisburg, PA 17105-3265

H. R. Brown  
North Pittsburgh Telephone Co.  
4008 Gibsonia Road  
Gibsonia, PA 15044-0395

Russell Blau  
Swidler & Berlin, Chartered  
3000 K Street, N.W. - Suite 300  
Washington, D.C. 20007-5116

James H. Cawley  
Rhoads & Sinon  
1 South Market Square, 12th Fl.  
Harrisburg, PA 17108-1146

Norman J. Kennard  
Malatesta Hawke & McKeon  
100 North Tenth Street  
Harrisburg, PA 17101

Kandace F. Melillo  
Office of Trial Staff  
PA Public Utility Commission  
Commonwealth Keystone Bldg  
400 North Street  
Harrisburg, PA 17105-3265

Bureau of Fixed Utility Services  
PA Public Utility Commission  
P. O. Box 3265  
Harrisburg, PA 17105-3265

David E. Freet  
Pennsylvania Telephone Assoc.  
P.O. Box 1169  
Harrisburg, PA 17108-1169

Susan S. Shanaman  
Central Atlantic Payphone Assoc  
212 North Third Street, Suite 203  
Harrisburg, PA 17101

Michelle Painter  
MCI WorldCom  
1133 19th Street, N.W., 11th Fl.  
Washington, D.C. 20036

Joseph Laffey  
Commonwealth Telephone 100  
CTE Drive  
Dallas, PA 18612

D. Mark Thomas  
Regina L. Martz  
Thomas, Thomas, Armstrong  
212 Locust Street  
Harrisburg, PA 17108-9500

Office of Special Assistants  
PA Public Utility Commission  
P.O. Box 3265  
Harrisburg, PA 17105-3265

Linda Oliver & Kyle Dixon  
Hogan & Hartson  
555 Thirteenth Street, N.W.  
Washington, D.C. 20004

Robert C. Barber  
AT&T Communications  
3033 Chain Bridge Road  
Oakton, VA 22185

Daniel Clearfield, Esq.  
Wolf, Block  
212 Locust Street, Suite 300  
Harrisburg, PA 17101-1236

**RECEIVED**

NOV 23 2001

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

DATE: November 27, 2001

SUBJECT: A-310832F7000

TO: Office of Special Assistants

FROM: James J. McNulty, Secretary

LAF

JOINT PETITION OF VERIZON PENNSYLVANIA INC. AND IG2 INC. FOR APPROVAL OF A REPLACEMENT INTERCONNECTION AGREEMENT UNDER SECTION 252(e) OF THE TELECOMMUNICATIONS ACT OF 1996.

---

Attached is a copy of a Joint Petition for Approval of a Replacement 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 December 8, 2001. 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

**DOCKETED**  
NOV 27 2001

DOCUMENT  
FOLDER

PENNSYLVANIA PUBLIC UTILITY COMMISSION

LEADING REFERENCE  
BUREAU

01 NOV 27 PM 3:37

P.A. CODE & BULLETIN

NOTICE TO BE PUBLISHED

Joint Petition of Verizon Pennsylvania Inc. and IG2 Inc. for Approval of a Replacement Interconnection Agreement Under Section 252(e) of The Telecommunications Act of 1996.

Docket Number: A-310832F7000.

Verizon Pennsylvania Inc. and IG2 Inc. filed on November 23, 2001, at the Public Utility Commission, a Joint Petition for approval of a Replacement 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 IG2 Inc. 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

**DOCKETED**  
NOV 27 2001

*James J. McNulty*  
James J. McNulty  
Secretary

DOCUMENT  
FOLDER