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November 1, 2018

Docket No. 18-00115

Robin Morrison, Chairman
Tennessee Public Utility Commission
c/o Sharla Dillon, Dockets and Records Manager
502 Deaderick Street, 4th Floor
Nashville, TN 37243-0200

RE: Agreement for Local Interconnection between Citizens Telecommunications Company of Tennessee d/b/a Frontier Communications of Tennessee, LLC, and Onvoy, LLC

Dear Chairman Morrison:

Enclosed for the Tennessee Public Utility Commission's review and approval are an original and four (4) copies of an Agreement between Frontier Communications Company of Tennessee, LLC, ("Frontier") and Onvoy, LLC ("Onvoy").

Frontier's ID is 74668 and Onvoy is 129200.

This is a new agreement for Local Resale Services and a check in the amount of \$50 is also enclosed for the filing fees associated with this filing.

Please date-stamp the enclosed copy of the cover letter and return it to me in the enclosed postage-paid envelope, indicating the docket number assigned to this filing.

If you have any questions, please don't hesitate to contact me at 304-325-1688.

Sincerely,

A handwritten signature in blue ink that reads "Angela McCall".

Angela McCall
Manager – Government & External Affairs

Enclosure: Original + 4 copies
Check for filing fees

cc: Sherri Schlabs – Frontier – via e-mail
Sharla Dillon – TN PUC

**AGREEMENT FOR
LOCAL INTERCONNECTION**

by and between

ONVOY, LLC

and

**CITIZENS TELECOMMUNICATIONS COMPANY OF TENNESSEE L.L.C.
d/b/a FRONTIER COMMUNICATIONS COMPANY OF TENNESSEE**

FOR THE STATE OF

TENNESSEE

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AGREEMENT

PREFACE

This Agreement ("Agreement") shall be deemed effective as of September 3, 2018 (the "Effective Date"), between Onvoy, LLC ("Onvoy"), a limited liability company organized under the laws of the State of Minnesota, with offices at 10300 6th Avenue North, Plymouth, MN 55441 and Citizens Telecommunications Company of Tennessee L.L.C., d/b/a Frontier Communications Company of Tennessee ("Frontier"), a limited liability company organized under the laws of the State of Delaware, with offices at 401 Merritt 7, Norwalk, CT 06851, (Frontier and Onvoy 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, Frontier and Onvoy hereby agree as follows:

1. The Agreement

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

- 1.4 Except as otherwise provided 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 2, 2020 (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 Onvoy or Frontier 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 Onvoy or Frontier provides notice of termination pursuant to Section 2.2 and on or before the proposed date of termination either Onvoy or Frontier 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 Onvoy and Frontier; or, (b) the date one (1) year after the proposed date of termination.
- 2.4 If either Onvoy or Frontier provides notice of termination pursuant to Section 2.2 and by 11:59 PM Eastern Time on the proposed date of termination neither Onvoy nor Frontier has requested negotiation of a new interconnection agreement, (a) this Agreement will terminate at 11:59 PM Eastern Time on the proposed date of termination, and (b) the Services being provided under this Agreement at the time of termination will be terminated, except to the extent that the Purchasing Party has requested that such Services continue to be provided pursuant to an applicable Tariff or Statement of Generally Available Terms (SGAT).

3. Glossary and Attachments

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

Additional Services Attachment
Interconnection Attachment
Traffic Exchange Attachment
Resale Attachment
Network Elements Attachment
Collocation Attachment
9-1-1 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 State of Tennessee, without regard to its conflicts of laws rules. All disputes relating to this Agreement shall be resolved through the application of such laws.
- 4.2 Each Party shall remain in compliance with Applicable Law in the course of performing this Agreement.
- 4.3 Neither Party shall be liable for any delay or failure in performance by it that results from requirements of Applicable Law, or acts or failures to act of any governmental entity or official.
- 4.4 Each Party shall promptly notify the other Party in writing of any governmental action that limits, suspends, cancels, withdraws, or otherwise materially affects, the notifying Party's ability to perform its obligations under this Agreement.
- 4.5 If any provision of this Agreement shall be invalid or unenforceable under Applicable Law, such invalidity or unenforceability shall not invalidate or render unenforceable any other provision of this Agreement, and this Agreement shall be construed as if it did not contain such invalid or unenforceable provision; provided, that if the invalid or unenforceable provision is a material provision of this Agreement, or the invalidity or unenforceability materially affects the rights or obligations of a Party hereunder or the ability of a Party to perform any material provision of this Agreement, the Parties shall promptly renegotiate in good faith and amend in writing this Agreement in order to make such mutually acceptable revisions to this Agreement as may be required in order to conform the Agreement to Applicable Law.
- 4.6 If any legislative, regulatory, judicial or other governmental decision, order, determination or action, or any change in Applicable Law, materially affects any material provision of this Agreement, the rights or obligations of a Party hereunder, or the ability of a Party to perform any material provision of this Agreement, the Parties shall promptly renegotiate in good faith and amend in writing this Agreement in order to make such mutually acceptable revisions to this Agreement as may be required in order to conform the Agreement to Applicable Law. If within thirty (30) days of the effective date of such decision, determination, action or change, the Parties are unable to agree in writing upon mutually acceptable revisions to this Agreement, either Party may pursue any remedies available to it under this Agreement, at law, in equity, or otherwise, including, but not limited to, instituting an appropriate proceeding before the Commission, the FCC, or a court of competent jurisdiction, without first pursuing dispute resolution in accordance with Section 14 of this Agreement.
- 4.6.1 Notwithstanding Section 4.6 above, to the extent Frontier is required by a change in Applicable Law to provide to Onvoy a Service that is not offered under this Agreement to Onvoy, the terms, conditions and prices for such Service (including, but not limited to, the terms and conditions defining the Service and stating when and where the Service 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 Frontier Tariff, or, in the absence of an applicable Frontier Tariff, as mutually agreed by the Parties in a written amendment to the Agreement that, upon the request of either Party, the Parties shall negotiate in accordance with the requirements of Section 252 of the Act. In no event shall Frontier be required to provide any such Service in the absence of such a Frontier Tariff or amendment.

- 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, Frontier is not required by Applicable Law to provide any Service, payment or benefit, otherwise required to be provided to Onvoy hereunder, then Frontier may discontinue the provision of any such Service, payment or benefit, and Onvoy shall reimburse Frontier for any payment previously made by Frontier to Onvoy that was not required by Applicable Law. Frontier will provide thirty (30) days prior written notice to Onvoy 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 the Networks Element Attachment or an applicable Tariff) or Applicable Law for termination of such Service in which event such specified period and/or conditions shall apply. For the avoidance of any doubt, this Section 4.7 is self-effectuating and no amendment to this Agreement shall be required to implement it.

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 If an event specified in Section 6.2 occurs, then upon request by Frontier, Onvoy shall, at any time and from time to time, provide to Frontier adequate assurance of payment of amounts due (or to become due) to Frontier hereunder. Adequate assurance of payment is subject to the limitations in Section 6.3.
- 6.2 Assurance of payment of charges may be requested by Frontier if Onvoy (a) prior to the Effective Date, has failed to timely pay a bill rendered to Onvoy by Frontier or its Affiliates, (b) on or after the Effective Date, fails to timely pay a bill rendered to Onvoy by Frontier or its Affiliates, (c) in Frontier's reasonable judgment, at the Effective Date or at any time thereafter, is unable to demonstrate that it is creditworthy, or (d) admits its inability to pay its debts as such debts become due, has commenced a voluntary case (or has had a case commenced against it) under the U.S. Bankruptcy Code or any other law relating to bankruptcy, insolvency, reorganization, winding-up, composition or adjustment of debts or the like, has made an assignment for the benefit of creditors or is subject to a receivership or similar proceeding.
- 6.3 Unless otherwise agreed by the Parties, the assurance of payment shall consist of, at Onvoy's election, a cash security deposit or an unconditional, irrevocable standby letter of credit naming Frontier as the beneficiary thereof and otherwise in form and substance satisfactory to Frontier from a financial institution acceptable to Frontier. The adequate assurance of payment 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 Frontier, for the Services to be provided by Frontier to Onvoy in connection with this Agreement. If Onvoy meets the condition in subsection 6.2(d) above or has failed to timely pay two or more bills rendered by Frontier or a Frontier Affiliate in any twelve (12)-month period, Frontier may, at its option, demand (and Onvoy shall provide) additional assurance of payment, consisting of monthly advanced payments of estimated charges as reasonably determined by Frontier, with

appropriate true-up against actual billed charges no more frequently than once per Calendar Quarter.

- 6.4 [Intentionally Left Blank].
- 6.5 [Intentionally Left Blank].
- 6.6 Frontier may (but is not obligated to) draw on the assurance of payment upon notice to Onvoy in respect of any amounts to be paid by Onvoy 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 Frontier draws on the assurance of payment, upon request by Frontier, Onvoy shall provide a replacement or supplemental assurance of payment conforming to the requirements of Section 6.3.
- 6.8 Notwithstanding anything else set forth in this Agreement, if Frontier makes a request for assurance of payment in accordance with the terms of this Section, then Frontier shall have no obligation thereafter to perform under this Agreement until such time as Onvoy has provided Frontier with such assurance of payment.
- 6.9 The fact that adequate assurance of payment is requested by Frontier hereunder shall in no way relieve Onvoy 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 at reasonable times 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 Citizens Telecommunications Company of Tennessee L.L.C., d/b/a Frontier Communications Company of Tennessee represents and warrants that it is a limited liability company duly organized, validly existing and in good standing under the laws of the State of Delaware and has full power and authority to execute and deliver this Agreement and to perform its obligations under this Agreement.

8.2 Onvoy, LLC represents and warrants that it is a limited liability company duly organized, validly existing and in good standing under the laws of the State of Minnesota, and has full power and authority to execute and deliver this Agreement and to perform its obligations under this Agreement.

8.3 Onvoy Certification.

Notwithstanding any other provision of this Agreement, Frontier shall have no obligation to perform under this Agreement until such time as Onvoy has obtained such FCC and Commission authorization as may be required by Applicable Law for conducting business in the State of Tennessee. Onvoy shall not place any Orders under this Agreement until it has obtained such authorization. Onvoy shall provide proof of such authorization to Frontier 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. Neither Party shall initiate credit claims or bill the other Party for previously unbilled, under-billed or over-billed charges for Services that were provided more than two (2) years prior to the applicable Invoice date or date on which a credit was claimed.

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 directory assistance, 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" or any other information that a reasonable person would obviously understand to be confidential due to the context of the disclosure or the nature of the information itself.

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 breach of this Agreement by 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 (including government or court orders), 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 Onvoy

- 13.1 If Onvoy 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, Onvoy shall send written notice of such discontinuance to Frontier, the Commission, and each of Onvoy's Customers. Onvoy 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, Onvoy shall send such notice at least thirty (30) days prior to its discontinuance of service.
- 13.2 Such notice must advise each Onvoy Customer that unless action is taken by the Onvoy Customer to switch to a different carrier prior to Onvoy's proposed discontinuance of service, the Onvoy Customer will be without the service provided by Onvoy to the Onvoy Customer.
- 13.3 Subject to any limitations under Applicable Law, Should an Onvoy Customer subsequently become a Frontier Customer, Onvoy shall provide Frontier with all information necessary for Frontier to establish service for the Onvoy Customer, including, but not limited to, the Onvoy Customer's billed name, listed name, service address, and billing address, and the services being provided to the Onvoy Customer.

- 13.4 Nothing in this Section 13 shall limit Frontier'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 forty-five (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 forty-five (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 Frontier, Onvoy shall provide to Frontier forecasts regarding the Services that Onvoy expects to purchase from Frontier, including, but not limited to, forecasts regarding the types and volumes of Services that Onvoy expects to purchase and the locations where such Services will be purchased.

17. Fraud

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

18. Good Faith Performance

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

19. Headings

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

20. Indemnification

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

20.2 Indemnification Process.

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

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

- 20.2.3 The Indemnified Person: (a) shall give the Indemnifying Party notice of the Claim promptly after becoming aware thereof (including a statement of facts known to the Indemnified Person related to the Claim and an estimate of the amount thereof); (b) prior to taking any material action with respect to a Third Party Claim, shall consult with the Indemnifying Party as to the procedure to be followed in defending, settling, or compromising the Claim; (c) shall not consent to any settlement or compromise of a Third Party Claim without the written consent of the Indemnifying Party; (d) shall permit the Indemnifying Party to assume the defense of a Third Party Claim (including, except as provided below, the compromise or settlement thereof) at the Indemnifying Party's own cost and expense, provided, however, that the Indemnified Person shall have the reasonable right to approve the Indemnifying Party's choice of legal counsel.
- 20.2.4 If the Indemnified Person fails to comply with Section 20.2.3 with respect to a Claim, to the extent such failure shall have a material adverse effect upon the Indemnifying Party, the Indemnifying Party shall be relieved of its obligation to indemnify, defend and hold harmless the Indemnified Person with respect to such Claim under this Agreement.
- 20.2.5 Subject to 20.2.6 and 20.2.7, below, the Indemnifying Party shall have the authority to defend and settle any Third Party Claim.
- 20.2.6 With respect to any Third Party Claim, the Indemnified Person shall be entitled to participate with the Indemnifying Party in the defense of the Claim if the Claim requests equitable relief or other relief that could affect the rights of the Indemnified Person. In so participating, the Indemnified Person shall be entitled to employ separate counsel for the defense at the Indemnified Person's expense. The Indemnified Person shall also be entitled to participate, at its own expense, in the defense of any Claim, as to any portion of the Claim as to which it is not entitled to be indemnified, defended and held harmless by the Indemnifying Party.
- 20.2.7 The Indemnifying Party may settle a Third Party Claim without the Indemnified Person's consent if the settlement contains an unconditional release of the Indemnified Person, does not contain any admission of liability, and otherwise has no adverse effect on the Indemnified Person. In no other event shall the Indemnifying Party settle a Third Party Claim or consent to any judgment with regard to a Third Party Claim without the prior written consent of the Indemnified Party, which shall not be unreasonably withheld, conditioned or delayed. In the event the settlement or judgment requires a contribution from or affects the rights of an Indemnified Person, the Indemnified Person shall have the right to refuse such settlement or judgment with respect to itself and, at its own cost and expense, take over the defense against the Third Party Claim, provided that in such event the Indemnifying Party shall not be responsible for, nor shall it be obligated to indemnify or hold harmless the Indemnified Person against, the Third Party Claim for any amount in excess of such refused settlement or judgment.
- 20.2.8 The Indemnified Person shall, in all cases, assert any and all provisions in applicable Tariffs and Customer contracts that limit

liability to third persons as a bar to, or limitation on, any recovery by a third-person claimant.

20.2.9 The Indemnifying Party and the Indemnified Person shall offer each other all reasonable cooperation and assistance in the defense of any Third Party Claim.

20.3 Each Party agrees that it will not implead or bring any action against the other Party, the other Party's Affiliates, or any of the directors, officers or employees of the other Party or the other Party's Affiliates, based on any claim by any person for personal injury or death that occurs in the course or scope of employment of such person by the other Party or the other Party's Affiliate and that arises out of performance of this Agreement.

20.4 Each Party's obligations under this Section 20 shall survive expiration, cancellation or termination of this Agreement.

21. Insurance

21.1 Onvoy shall maintain during the term of this Agreement and for a period of two years thereafter all insurance required to satisfy its obligations under this Agreement (including, but not limited to, its obligations set forth in Section 20 hereof) and all insurance required by Applicable Law. The insurance 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, Onvoy 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 Onvoy's real and personal property located at any Collocation site or otherwise located on or in any Frontier premises (whether owned, leased or otherwise occupied by Frontier), 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 Frontier pursuant to Sections 21.4 and 21.5, and Frontier reserves the right to reject any such Retentions in its reasonable discretion. All Retentions shall be the responsibility of Onvoy.

- 21.3 Onvoy shall name Frontier and Frontier's Affiliates as additional insureds on the foregoing liability insurance.
- 21.4 Onvoy shall, within two (2) weeks of the Effective Date hereof at the time of each renewal of, or material change in, Onvoy's insurance policies, and at such other times as Frontier may reasonably specify, furnish certificates or other proof of the foregoing insurance reasonably acceptable to Frontier. The certificates or other proof of the foregoing insurance shall be sent to: Contract Management, Frontier Communications, 7979 N. Belt Line Road, MC: S1C74, Irving, TX 75063.
- 21.5 Onvoy shall require its contractors, if any, that may enter upon the premises or access the facilities or equipment of Frontier or Frontier's affiliates to maintain insurance in accordance with Sections 21.1 through 21.3 and, if requested, to furnish Frontier certificates or other adequate proof of such insurance acceptable to Frontier in accordance with Section 21.4.
- 21.6 Failure of Onvoy or Onvoy's contractors to maintain insurance and provide certificates of insurance as required in Sections 21.1 through 21.5, above, shall be deemed a material breach of this Agreement.
- 21.7 Certificates furnished by Onvoy or Onvoy's contractors shall contain a clause stating: "Citizens Telecommunications Company of Tennessee L.L.C., d/b/a Frontier Communications Company of Tennessee" 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 Onvoy agrees that the Services provided by Frontier 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 Frontier and Frontier's vendors. Frontier agrees to advise Onvoy, directly or through a third party, of any such terms, conditions or restrictions that may limit any Onvoy use of a Service provided by Frontier that is otherwise permitted by this Agreement. At Onvoy's written request, to the extent required by Applicable Law, Frontier will use Frontier's best efforts, as commercially practicable, to obtain intellectual property rights from Frontier's vendor to allow Onvoy to use the Service in the same manner as Frontier that are coextensive with Frontier's intellectual property rights, on terms and conditions that are equal in quality to the terms and conditions under which Frontier has obtained Frontier's intellectual property rights. Onvoy shall reimburse Frontier 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. Onvoy and Frontier will exchange appropriate information (e.g., network information, maintenance contact numbers, escalation procedures, and information required to comply with requirements of law enforcement and national security agencies) to achieve this

desired reliability. In addition, the Parties will work cooperatively in a commercially reasonable manner to apply sound network management principles to alleviate or to prevent traffic congestion and subject to Section 17, to minimize fraud associated with third number billed calls, calling card calls, and other services related to this Agreement.

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

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

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

26.3.2 Upon correction of the interference or impairment, the Impaired Party will promptly restore the interrupted or suspended Service. The Impaired Party shall not be obligated to provide an out-of-service credit allowance or other compensation to the Interfering Party in connection with the suspended Service.

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

27. Non-Exclusive Remedies

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

28. Notice of Network Changes

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

29. Notices

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

29.1.1 shall be in writing;

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

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

To Onvoy:

Onvoy, LLC
General Counsel
Attention: Richard Monto
550 West Adams Street, Suite 900
Chicago, Illinois 60661
Telephone: 312-384-8090
Internet Address: Richard.Monto@inteliquent.com
and kyle.bertrand@inteliquent.com

To Frontier:

Contract Management
Frontier Communications
7979 N. Belt Line Road, MC: S1C74
Irving, TX 75063
Internet Address: contract.management@ftr.com

with a copy to:

Frontier Communications
Legal Department - Interconnection
401 Merritt 7
Norwalk, CT 06851

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

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

Onvoy shall notify Frontier, by written notice pursuant to this Section 29, of any changes in the addresses or other Onvoy contact information identified under Section 29.1.3 above.

30. Ordering and Maintenance

Onvoy shall use Frontier's electronic Operations Support System access platforms to submit Orders and requests for maintenance and repair of Services, and to engage in other pre-ordering, ordering, provisioning, maintenance and repair transactions. If Frontier has not yet deployed an electronic capability for Onvoy to perform a pre-ordering, ordering, provisioning, maintenance or repair, transaction offered by Frontier, Onvoy shall use such other processes as Frontier 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 Frontier 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 Onvoy shall provide Services under this Agreement in accordance with the performance standards required by Applicable Law.

32. Point of Contact for Onvoy Customers

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

33. Predecessor Agreements

- 33.1 Except as stated in Section 33.2 or as otherwise agreed in writing by the Parties:
 - 33.1.1 Further to the provisions of Section 1 of the General Terms and Conditions of this Agreement, any prior interconnection or resale agreement between the Parties for the State of Tennessee pursuant to Section 252 of the Act and in effect prior to the Effective Date is hereby amended, extended and restated; and
 - 33.1.2 any Services that were purchased by one Party from the other Party under a prior interconnection or resale agreement between the Parties for the State of Tennessee pursuant to Section 252 of the Act and in effect prior to the Effective Date, shall as of the Effective Date be subject to and purchased under this Agreement.
- 33.2 Except as otherwise agreed in writing by the Parties, if a Service purchased by a Party under a prior interconnection or resale agreement between the Parties pursuant to Section 252 of the Act was subject to a contractual commitment that it would be purchased for a period of longer than one month, and such period had not yet expired as of the Effective Date and the Service had not been terminated prior to the Effective Date, to the extent not inconsistent with this Agreement, such commitment shall remain in effect and the Service will be purchased under this Agreement; provided, that if this Agreement would materially alter the terms of the commitment, either Party may elect to cancel the commitment.

- 33.3 If either Party elects to cancel the commitment pursuant to the proviso in Section 33.2, the Purchasing Party shall not be liable for any termination charge that would otherwise have applied. However, if the commitment was cancelled by the Purchasing Party, the Providing Party shall be entitled to payment from the Purchasing Party of the difference between the price of the Service that was actually paid by the Purchasing Party under the commitment and the price of the Service that would have applied if the commitment had been to purchase the Service only until the time that the commitment was cancelled.

34. Publicity and Use of Trademarks or Service Marks

- 34.1 A Party, its Affiliates, and their respective contractors and Agents, shall not use the other Party's trademarks, service marks, logos or other proprietary trade dress, in connection with the sale of products or services, or in any advertising, press releases, publicity matters or other promotional materials, unless the other Party has given its written consent for such use, which consent the other Party may grant or withhold in its sole discretion.
- 34.2 Neither Party may imply any direct or indirect affiliation with or sponsorship or endorsement of it or its services or products by the other Party.
- 34.3 Any violation of this Section 34 shall be considered a material breach of this Agreement.

35. References

- 35.1 All references to Sections, Appendices and Exhibits shall be deemed to be references to Sections, Appendices and Exhibits of this Agreement unless the context shall otherwise require.
- 35.2 Unless the context shall otherwise require, any reference to a Tariff, agreement, technical or other document (including Frontier 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, Federal Insurance Contributions Act (FICA), Medicaid or other taxes that it is required by Applicable Law to pay in conjunction with its employees, Agents and contractors, and for withholding and remitting to the applicable taxing authorities any taxes that it is required by Applicable Law to collect from its employees.

- 36.5 Except as otherwise expressly provided in this Agreement, no Party undertakes to perform any obligation of the other Party, whether regulatory or contractual, or to assume any responsibility for the management of the other Party's business.
- 36.6 The relationship of the Parties under this Agreement is a non-exclusive relationship.

37. Reservation of Rights

- 37.1 Notwithstanding anything to the contrary in this Agreement, neither Party waives, and each Party hereby expressly reserves, its rights: (a) to appeal or otherwise seek the reversal of and changes in any arbitration decision associated with this Agreement; (b) to challenge the lawfulness of this Agreement and any provision of this Agreement; (c) to seek changes in this Agreement (including, but not limited to, changes in rates, charges and the Services that must be offered) through changes in Applicable Law; (d) to challenge the lawfulness and propriety of, and to seek to change, any Applicable Law, including, but not limited to any rule, regulation, order or decision of the Commission, the FCC, or a court of applicable jurisdiction; and (e) to collect debts owed to it under any prior interconnection or resale agreements. Nothing in this Agreement shall be deemed to limit or prejudice any position a Party has taken or may take before the Commission, the FCC, any other state or federal regulatory or legislative bodies, courts of applicable jurisdiction, or industry fora. The provisions of this Section shall survive the expiration, cancellation or termination of this Agreement.
- 37.2 Onvoy acknowledges Onvoy has been advised by Frontier that it is Frontier's position that this Agreement contains certain provisions which are intended to reflect Applicable Law and Commission and/or FCC arbitration decisions.

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 of Services under this Agreement, if any federal, state or local tax, fee, surcharge or other tax-like charge, excluding any tax levied on property or net income, (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 bill the Purchasing Party for such Tax, as a separately stated item on the invoice, (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 as and to the extent required by Applicable Law.
- 41.2 Taxes Imposed on the Providing Party or Receipts. With respect to any purchase of Services under this Agreement, 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 to a public utility, distributor, telephone company, local exchange carrier, telecommunications company or other communications company ("Telecommunications Company"), such exclusion being based on the fact that the Purchasing Party is also subject to a tax based upon receipts ("Receipts Tax"), then the Purchasing Party shall pay and remit the Receipts Tax as required by Applicable Law.
- 41.3 Taxes Imposed on Subscriber. With respect to any purchase of Services under this Agreement 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, or if any federal, state or local Tax is imposed on the Providing Party and required by Applicable Law to be passed through to the Subscriber, then the Purchasing Party (a) shall impose and/or collect such Tax from the Subscriber and (b) shall timely remit such Tax to the applicable taxing authority.
- 41.4 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 41.7. 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, acceptable to the Providing Party, which holds the Providing Party harmless on an after-tax basis with respect to its forbearing to collect such Tax.
- 41.5 Liability for Uncollected Tax, Interest and Penalty.
- 41.5.1 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 any interest assessed thereon and (b) the Providing Party shall be liable for any penalty assessed with respect to such unbilled Tax by a taxing authority.

- 41.5.2 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 41.2, 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.
- 41.5.3 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, invalid or inapplicable 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.
- 41.5.4 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, (a) the Providing Party shall be liable for any Tax imposed on its receipts and (b) 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 the applicable taxing authority.
- 41.5.5 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.
- 41.6 Audit Cooperation. 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.
- 41.7 Notices. 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 Frontier:

Frontier Communications
Tax Department
401 Merritt 7
Norwalk, CT 06851

To Onvoy:

Onvoy, LLC
Tax Department
Attention: Connie Loepke
550 West Adams Street, Suite 900
Chicago, Illinois 60661

Each 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, Frontier shall have the right to deploy, upgrade, migrate and maintain its network at its discretion. The Parties acknowledge that Frontier, at its election, may deploy fiber throughout its network and that such fiber deployment may inhibit or facilitate Onvoy's ability to provide service using certain technologies. Nothing in this Agreement shall limit Frontier's ability to modify its network through the incorporation of new equipment or software or otherwise. Onvoy 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 Frontier operates as an Incumbent Local Exchange Carrier in the State of Tennessee. Frontier shall be obligated to provide Services under this Agreement only within this territory.
- 43.2 Notwithstanding any other provision of this Agreement, Frontier may terminate this Agreement as to a specific operating territory or portion thereof if Frontier sells or otherwise transfers its operations in such territory or portion thereof to a third-person. Frontier shall provide Onvoy with at least 90 calendar days prior written notice of such termination, which shall be effective upon the date specified in the notice.

44. Third Party Beneficiaries

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

45. [This Section Intentionally Left Blank]

46. 252(i) Obligations

To the extent required by Applicable Law, each Party shall comply with Section 252(i) of the Act. To the extent that the exercise by Onvoy of any rights it may have under Section 252(i) results in the rearrangement of Services by Frontier, Onvoy shall be solely liable for all costs associated therewith, as well as for any termination charges associated with the termination of existing Frontier 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.

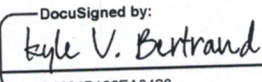
50. Withdrawal of Services

- 50.1 Notwithstanding anything contained in this Agreement, except as otherwise required by Applicable Law, Frontier may terminate its offering and/or provision of any Service under this Agreement upon thirty (30) days prior written notice to Onvoy.
- 50.2 Notwithstanding anything contained in this Agreement, except as otherwise required by Applicable Law, Frontier may with thirty (30) days prior written notice to Onvoy terminate any provision of this Agreement that provides for the payment by Frontier to Onvoy of compensation related to traffic, including, but not limited to, Reciprocal Compensation and other types of compensation for termination of traffic delivered by Frontier to Onvoy. Following such termination, except as otherwise agreed in writing by the Parties, Frontier shall be obligated to provide compensation to Onvoy related to traffic only to the extent required by Applicable Law. If Frontier 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 Frontier in writing in its sole discretion, Frontier shall be obligated to provide compensation to Onvoy related to traffic only to the extent required by Applicable Law. If within thirty (30) days after Frontier'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.

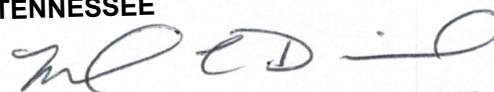
ONVOY, LLC

By: 
DocuSigned by:
B1691B160EA9420...

Printed: Kyle V. Bertrand

Title: VP Procurement MGMT and Ntwk Opt.

**CITIZENS TELECOMMUNICATIONS COMPANY
OF TENNESSEE L.L.C.
d/b/a FRONTIER COMMUNICATIONS COMPANY
OF TENNESSEE**

By: 

Printed: Michael Daniel

Title: SVP, Carrier 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 Advanced Services.

As a general matter, shall have the meaning set forth by the FCC.
- 2.3 Affiliate.

Shall have the meaning set forth in the Act.
- 2.4 Agent.

An agent or servant.
- 2.5 Agreement.

This Agreement, as defined in Section 1 of the General Terms and Conditions.
- 2.6 ALI (Automatic Location Identification) Database.

The emergency services (E9-1-1) database controlled by Frontier containing caller address/location information including the carrier name, National

Emergency Numbering Administration ("NENA") ID, Call Back Number, and other carrier information used to process caller location records.

2.7 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, 9-1-1/E9-1-1, operator services (IntraLATA call completion), IntraLATA third party, collect and calling card, 800/888 database query and LIDB.

2.8 ANI (Automatic Number Identification).

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

2.9 Applicable Law.

All effective laws, government regulations and government orders, applicable to each Party's performance of its obligations under this Agreement. For the avoidance of any doubt, when used in relation to unbundled Network Elements or Combinations of unbundled Network Elements, the term "Applicable Law" means the Federal Unbundling Rules.

2.10 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.

2.11 ATIS.

The Alliance for Telecommunications Industry Solutions.

2.12 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.

2.13 Business Day.

Monday through Friday, except for holidays observed by Frontier.

2.14 Calendar Quarter.

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

2.15 Calendar Year.

January through December.

2.16 [Intentionally Left Blank].

2.17 Call Back Number.

A telephone number that can be used by the PSAP to re-contact the location from which a 9-1-1/E9-1-1 Call was placed. The telephone number may or may not be the telephone number of the station used to originate the 9-1-1/E9-1-1 Call.

2.18 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.

2.19 Central Office.

An End Office or Tandem. Sometimes this term is used to refer to a telephone company building in which switching systems and telephone equipment are installed.

2.20 [Intentionally Left Blank].

2.21 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).

2.22 CLEC (Competitive Local Exchange Carrier).

Any Local Exchange Carrier other than Frontier that is operating as a Local Exchange Carrier in the territory in which Frontier operates as an ILEC in the State of Tennessee. Onvoy is or shortly will become a CLEC.

2.23 CLLI Codes.

Common Language Location Identifier Codes.

2.24 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.

2.25 Commission.

Tennessee Regulatory Authority.

2.26 Controlling 9-1-1 Authority.

The duly authorized state, county or local government agency empowered by law to oversee the 9-1-1/E9-1-1 services, operations and systems within a defined jurisdiction.

2.27 CPN (Calling Party Number).

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

2.28 CPNI (Customer Proprietary Network Information).

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

2.29 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).

2.30 Customer.

A third party residence or business end-user subscriber to Telephone Exchange Services provided by either of the Parties. For clarity's sake, a Customer also includes an Interconnected VoIP Provider to which Onvoy is providing such Interconnected VoIP Provider with its underlying network in locations where such Interconnected VoIP Provider does not have its own network.

2.31 Intentionally Left Blank

2.32 Intentionally Left Blank

2.33 Dedicated Transport.

A DS0-, DS1-, or DS3-capacity transmission facility between Frontier switches (as identified in the LERG) or UNE Wire Centers, within a LATA, that is dedicated to a particular end user or carrier. Dedicated Transport is sometimes referred to as dedicated interoffice facilities ("IOF"). Dedicated Transport does not include any facility that does not connect a pair of Frontier UNE Wire Centers.

2.34 Default PSAP.

The PSAP designated by the Controlling 9-1-1 Authority to receive a 9-1-1/E9-1-1 Call when it is not feasible to route that 9-1-1/E9-1-1 Call to the Designated PSAP.

2.35 Designated PSAP.

The primary PSAP designated by the Controlling 9-1-1 Authority to receive a 9-1-1/E9-1-1 Call based upon the geographic location of the end user.

2.36 Digital Signal Level.

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

2.37 Discontinued Facility.

Any facility, element, arrangement or the like that the Federal Unbundling Rules do not require Frontier to provide on an unbundled basis to Onvoy, whether because the facility was never subject to an unbundling requirement under the Federal Unbundling Rules, because the facility by operation of law has ceased or ceases to be subject to an unbundling requirement under the Federal Unbundling Rules, or otherwise.

2.38 DS0 (Digital Signal Level 0).

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

- 2.39 DS1 (Digital Signal Level 1).
The 1.544 Mbps first-level signal in the time-division multiplex hierarchy.
- 2.40 DS1 Dedicated Transport.
Dedicated Transport having a total digital signal speed of 1.544 Mbps.
- 2.41 DS3 (Digital Signal Level 3).
The 44.736 Mbps third-level signal in the time-division multiplex hierarchy.
- 2.42 DS3 Dedicated Transport.
Dedicated Transport having a total digital signal speed of 44.736 Mbps.
- 2.43 DS3 Loop.
A digital transmission channel, between the main distribution frame (or its equivalent) in an end user's serving UNE Wire Center and the demarcation point at the end user customer's premises, suitable for the transport of isochronous bipolar serial data at a rate of 44.736 Mbps (the equivalent of 28 DS1 channels). This Loop type is more fully described in Frontier TR 72575, as revised from time to time. A DS3 Loop requires the electronics necessary to provide the DS3 transmission rate.
- 2.44 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 ATIS.
- 2.45 End Office.
A switching entity that is used for connecting lines to lines or lines to trunks for the purpose of originating/terminating calls. Sometimes this term is used to refer to a telephone company building in which switching systems and telephone equipment are installed.
- 2.46 [Intentionally Left Blank].
- 2.47 Exchange Access.
Shall have the meaning set forth in the Act.
- 2.48 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.

2.49 FCC.

The Federal Communications Commission.

2.50 FCC Internet Orders.

The following FCC orders: (a) 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, 16 FCC Rcd 9151 (adopted April 18, 2001) (hereinafter the "April 18, 2001 FCC Internet Order"); and, (b) Order on Remand and Report and Order and Further Notice of Proposed Rulemaking, *In the Matter of High-Cost Universal Service Support; Federal-State Joint Board on Universal Service; Lifeline and Link Up; Universal Service Contribution Methodology; Numbering Resource Optimization; Implementation of the Local Competition Provisions in the Telecommunications Act of 1996; Developing a Unified Intercarrier Compensation Regime; Intercarrier Compensation for ISP-Bound Traffic; IP-Enabled Services*, FCC 08-262, CC Docket Nos. 96-45, 96-98, 99-68, 99-200, 01-92, WC Docket Nos. 03-109, 04-36, 05-337, 06-122 (adopted November 5, 2008) (hereinafter the "November 5, 2008 FCC Internet Order").

2.51 FCC Regulations.

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

2.52 Federal Unbundling Rules.

Any lawful requirement to provide access to unbundled Network Elements or Combinations of unbundled Network Elements that is imposed upon Frontier by the FCC pursuant to both 47 U.S.C. § 251(c)(3) and 47 C.F.R. Part 51. Any reference in this Agreement to "Federal Unbundling Rules" shall not include an unbundling requirement if the unbundling requirement does not exist under both 47 U.S.C. § 251(c)(3) and 47 C.F.R. Part 51.

2.53 Feeder.

The fiber optic cable (lit or unlit) or metallic portion of a Loop between a serving End Office and a remote terminal or feeder/distribution interface.

2.54 FNID (Fiber Network Interface Device).

A passive fiber optic demarcation unit designed for the interconnection and demarcation of optical fibers between two separate network providers.

2.55 FTTP Loop.

A Loop consisting entirely of fiber optic cable, whether dark or lit, that extends from the main distribution frame (or its equivalent) in an end user's serving End Office to the demarcation point at the end user's customer premises or to a serving area interface at which the fiber optic cable connects to copper or coaxial distribution facilities that extend to the end user's customer premises demarcation point, provided that all copper or coaxial distribution facilities extending from such serving area interface are not more than 500 feet from the demarcation point at the respective end users' customer premises; provided, however, that in the case of predominantly residential multiple dwelling units

(MDUs), an FTTP Loop is a Loop consisting entirely of fiber optic cable, whether dark or lit, that extends from the main distribution frame (or its equivalent) in the End Office that serves the multiunit premises: (a) to or beyond the multiunit premises' minimum point of entry (MPOE), as defined in 47 C.F.R. § 68.105; or (b) to a serving area interface at which the fiber optic cable connects to copper or coaxial distribution facilities that extend to or beyond the multiunit premises' MPOE, provided that all copper or coaxial distribution facilities extending from such serving area interface are not more than 500 feet from the MPOE at the multiunit premises.

2.56 House and Riser Cable.

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

2.57 Hybrid Loop.

A Loop composed of both fiber optic cable and copper wire or cable. An FTTP Loop is not a Hybrid Loop.

2.58 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.

2.59 ILEC (Incumbent Local Exchange Carrier).

Shall have the meaning stated in the Act.

2.60 Information Access.

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

2.61 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.

2.62 Interconnected VoIP Provider.

A provider authorized by the FCC to provide Interconnected VoIP service as defined by 47 CFR 9.3.

2.63 Interconnection Wire Center.

A building or portion thereof which serves as the premises for one or more End Offices, Tandems and related facilities.

2.64 Internet Traffic.

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

2.65 InterLATA Service.

Shall have the meaning set forth in the Act.

2.66 IntraLATA.

Telecommunications that originate and terminate within the same LATA.

2.67 [Intentionally Left Blank].

2.68 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).

2.69 IXC (Interexchange Carrier).

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

2.70 LATA (Local Access and Transport Area).

Shall have the meaning set forth in the Act.

2.71 LEC (Local Exchange Carrier).

Shall have the meaning set forth in the Act.

2.72 LERG (Local Exchange Routing Guide).

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

2.73 LIDB (Line Information Data Base).

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

2.74 [Intentionally Left Blank].

2.75 Line Side.

An End Office 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.

2.76 Loop.

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

2.77 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.

2.78 Maintenance Control Office.

Either Party's center responsible for control of the maintenance and repair of a circuit.

2.79 MDF (Main Distribution Frame).

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

2.80 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 Frontier 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 Frontier local calling area. Frontier local calling areas shall be as defined by Frontier. For the purposes of this definition, a Frontier local calling area includes a Frontier non-optional Extended Local Calling Scope Arrangement, but does not include a Frontier optional Extended Local Calling Scope Arrangement. Calls originated on a 1+ presubscription basis, or on a casual dialed (10XXX/101XXXX) basis, are not considered Measured Internet Traffic. For the avoidance of any doubt, Virtual Foreign Exchange Traffic (i.e., V/FX Traffic) (as defined in the Interconnection Attachment) does not constitute Measured Internet Traffic.

2.81 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 ATIS. The MECAB document, published by ATIS as "ATIS/OBF-MECAB", as revised from time to time, 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.

2.82 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 ATIS. The MECOD document, published by ATIS as "ATIS/OBF-MECOD", as revised from time to

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

2.83 [Intentionally Left Blank].

2.84 Mobile Wireless Services.

Any mobile wireless Telecommunications Service, including any commercial mobile radio service.

2.85 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.

2.86 Network Element.

Shall have the meaning stated in the Act.

2.87 NID (Network Interface Device).

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

2.88 9-1-1/E9-1-1 Call(s).

Call(s) made by the Onvoy end user by dialing the three digit telephone number "9-1-1" to facilitate the reporting of an emergency requiring response by a public safety agency.

2.89 9-1-1/E9-1-1 Service Provider.

An entity authorized to provide 9-1-1/E9-1-1 network and database services within a particular jurisdiction.

2.90 Non-Revertive.

Where traffic is redirected to a protection line because of failure of a working line and the working line is repaired, traffic will remain on the protection line until there is either manual intervention or a failure of the protection line.

2.91 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.

- 2.92 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).
- 2.93 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).
- 2.94 Originating Switched Access Detail Usage Data.
- A category 1101XX record as defined in the EMI Telcordia Practice BR-010-200-010.
- 2.95 POI (Point of Interconnection).
- The physical location where the Parties' respective facilities physically interconnect for the purpose of mutually exchanging their traffic. As set forth in the Interconnection Attachment, a Point of Interconnection shall be at (i) a technically feasible point on Frontier's network in a LATA and/or (ii) a fiber meet point to which the Parties mutually agree under the terms of this Agreement. By way of example, a technically feasible Point of Interconnection on Frontier's network in a LATA would include an applicable Frontier Tandem Interconnection Wire Center or Frontier End Office Interconnection Wire Center but, notwithstanding any other provision of this Agreement or otherwise, would not include an Onvoy Interconnection Wire Center, Onvoy switch or any portion of a transport facility provided by Frontier to Onvoy or another party between (x) a Frontier Interconnection Wire Center or switch and (y) the Interconnection Wire Center or switch of Onvoy or another party.
- 2.96 Primary Reference Source.
- Equipment that provides a timing signal to synchronize network elements.
- 2.97 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.
- 2.98 Providing Party.
- A Party offering or providing a Service to the other Party under this Agreement.
- 2.99 PSAP.
- Public Safety Answering Point.
- 2.100 Purchasing Party.
- A Party requesting or receiving a Service from the other Party under this Agreement.
- 2.101 Qualifying UNE.

An unbundled Network Element or a combination of unbundled Network Elements obtained, pursuant to the Federal Unbundling Rules, under this Agreement or a Frontier UNE Tariff.

2.102 Qualifying Wholesale Services.

Wholesale services obtained from Frontier under a Frontier access Tariff or a separate wholesale agreement.

2.103 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.

2.104 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".

2.105 Rate Demarcation Point.

The physical point in a Frontier provided network facility at which Frontier'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, Frontier's applicable Tariffs, if any, or as otherwise prescribed under Applicable Law.

2.106 Reciprocal Compensation.

The arrangement for recovering, in accordance with Section 251(b)(5) of the Act, the FCC Internet Orders, 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).

2.107 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 Frontier's local calling areas as defined by Frontier. Reciprocal Compensation Traffic does not include the following traffic (it being understood that certain traffic types will fall into more than one (1) of the categories below that do not constitute Reciprocal Compensation Traffic): (1) any Internet Traffic; (2) traffic that does not originate and terminate within the same Frontier local calling area as defined by Frontier, and based on the actual originating and

terminating points of the complete end-to-end communication; (3) Toll Traffic, including, but not limited to, calls originated on a 1+ presubscription basis, or on a casual dialed (10XXX/101XXX) basis; (4) Optional Extended Local Calling Scope Arrangement Traffic; (5) special access, private line, Frame Relay, ATM, or any other traffic that is not switched by the terminating Party; (6) Tandem Transit Traffic (as defined in Section 12 of the Interconnection Attachment); (7) Voice Information Service Traffic (as defined in Section 5 of the Additional Services Attachment); or, (8) Virtual Foreign Exchange Traffic (or V/FX Traffic) (as defined in the Interconnection Attachment). For the purposes of this definition, a Frontier local calling area includes a Frontier non-optional Extended Local Calling Scope Arrangement, but does not include a Frontier optional Extended Local Calling Scope Arrangement.

2.108 Retail Prices.

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

2.109 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.

2.110 Service.

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

2.111 [Intentionally Left Blank].

2.112 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). Frontier and Onvoy utilize this out-of-band signaling protocol in relation to their routing and completion of traffic.

2.113 Subsidiary.

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

2.114 Sub-Loop Distribution Facility.

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

2.115 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.

2.116 Tandem.

A switching entity that has billing and recording capabilities and is used to connect and switch trunk circuits between and among End Offices and between and among End Offices and carriers' aggregation points, points of termination, or points of presence, and to provide Switched Exchange Access Services. Sometimes this term is used to refer to a telephone company building in which switching systems and telephone equipment are installed.

2.117 Tariff.

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

2.117.2 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 Frontier 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.

2.118 Telcordia Technologies.

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

2.119 Telecommunications Carrier.

Shall have the meaning set forth in the Act.

2.120 Telecommunications Services.

Shall have the meaning set forth in the Act.

2.121 Telephone Exchange Service.

Shall have the meaning set forth in the Act.

2.122 Terminating Switched Access Detail Usage Data.

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

2.123 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.

2.124 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.

2.125 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.

2.126 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.
$$\left(\frac{\text{Interstate Traffic Total Minutes of Use (excluding Measured Internet Traffic)}}{\text{Interstate Traffic Total Minutes of Use} + \text{Intrastate Traffic Total Minutes of Use}} \right) \times 100$$
. Until the form of a Party's bills is updated to use the term "Traffic Factor 1", the term "Traffic Factor 1" may be referred to on the Party's bills and in billing related communications as "Percent Interstate Usage" or "PIU".

2.127 Traffic Factor 2.

For traffic exchanged via Interconnection Trunks, a percentage calculated by dividing the combined total number of minutes of Reciprocal Compensation Traffic and Measured Internet Traffic by the combined total number of minutes of intrastate traffic and Measured Internet Traffic.
$$\left(\frac{\text{Reciprocal Compensation Traffic Total Minutes of Use} + \text{Measured Internet Traffic Total Minutes of Use}}{\text{Intrastate Traffic Total Minutes of Use} + \text{Measured Internet Traffic Total Minutes of Use}} \right) \times 100$$
. 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".

2.128 Triennial Review Remand Order (TRRO).

The FCC's Order on Remand in WC Docket No. 04-313 and CC Docket No. 01-338, released on February 4, 2005.

2.129 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.

2.130 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.

2.131 UNE Wire Center.

Shall have the same meaning as "Wire Center" set forth in 47 C.F.R. § 51.5.

2.132 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.

2.133 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.

2.134 xDSL.

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

ADDITIONAL SERVICES ATTACHMENT

1. **Alternate Billed Calls**

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

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

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

3. **[This Section Intentionally Left Blank]**

4. **Directory Listing and Directory Distribution**

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

4.1 Listing Information.

As used herein, "Listing Information" means an Onvoy 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 Frontier deems necessary for the publication and delivery of directories.

4.2 Listing Information Supply.

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

4.3 Listing Inclusion and Distribution.

Frontier shall include each Onvoy 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 Frontier in its sole discretion, and shall provide initial distribution of such directories to such Onvoy 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 Onvoy's Customers shall be interfiled with listings of

Frontier's Customers and the Customers of other LECs included in the Frontier directories. Onvoy shall pay Frontier's Tariffed charges for additional, foreign, and other listings products (as documented in local Tariff) for Onvoy's Customers.

4.4 Frontier Information.

Upon request by Onvoy, Frontier shall make available to Onvoy the following information to the extent that Frontier provides such information to its own business offices: a directory list of relevant NXX codes, directory and Customer Guide close dates, and Yellow Pages headings. Frontier shall also make available to Onvoy, on Frontier's Wholesale website (or, at Frontier's option, in writing) Frontier's directory listings standards and specifications.

4.5 Confidentiality of Listing Information.

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

4.6 Accuracy.

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

4.7 Indemnification.

Onvoy shall adhere to all practices, standards, and ethical requirements established by Frontier with regard to listings. By providing Frontier with Listing Information, Onvoy warrants to Frontier that Onvoy has the right to provide such Listing Information to Frontier on behalf of its Customers. Onvoy 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. Onvoy agrees to release, defend, hold harmless and indemnify Frontier 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 Frontier's publication or dissemination of the Listing Information as provided by Onvoy hereunder.

4.8 Liability.

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

4.9 Service Information Pages.

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

4.10 Directory Publication.

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

4.11 Other Directory Services.

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

5. Voice Information Service Traffic

5.1 For purposes of this Section 5, (a) Voice Information Service means a service that provides [i] recorded voice announcement information or [ii] a vocal discussion program open to the public, and (b) Voice Information Service Traffic means intraLATA switched voice traffic, delivered to a Voice Information Service. Voice Information Service Traffic does not include any form of Internet Traffic. Voice Information Service Traffic also does not include 555 traffic or similar traffic with AIN service interfaces, which traffic shall be subject to separate arrangements between the Parties. Voice Information Service Traffic is not subject to Reciprocal Compensation charges under Section 7 of the Interconnection Attachment.

5.2 If an Onvoy Customer is served by resold Frontier dial tone line Telecommunications Service, to the extent reasonably feasible, Frontier will route Voice Information Service Traffic originating from such Service to the appropriate Voice Information Service connected to Frontier's network unless a feature blocking such Voice Information Service Traffic has been installed. For such Voice Information Service Traffic, Onvoy shall pay to Frontier without discount

any Voice Information Service provider charges billed by Frontier to Onvoy. Onvoy shall pay Frontier such charges in full regardless of whether or not Onvoy collects such charges from its Customer.

- 5.3 Onvoy shall have the option to route Voice Information Service Traffic that originates on its own network to the appropriate Voice Information Service connected to Frontier's network. In the event Onvoy exercises such option, Onvoy will establish, at its own expense, a dedicated trunk group to the Frontier Voice Information Service serving switch. This trunk group will be utilized to allow Onvoy to route Voice Information Service Traffic originated on its network to Frontier. For such Voice Information Service Traffic, unless Onvoy has entered into a written agreement with Frontier under which Onvoy will collect from Onvoy's Customer and remit to Frontier the Voice Information Service provider's charges, Onvoy shall pay to Frontier without discount any Voice Information Service provider charges billed by Frontier to Onvoy. Onvoy shall pay Frontier such charges in full regardless of whether or not Onvoy collects such charges from its own Customer.

6. Intercept and Referral Announcements

- 6.1 When a Customer changes its service provider from Frontier to Onvoy, or from Onvoy to Frontier, 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 Onvoy's request, Frontier 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 Frontier Operations Support Systems: Frontier systems for pre-ordering, ordering, provisioning, maintenance and repair, and billing.
- 8.1.2 Frontier OSS Services: Access to Frontier Operations Support Systems functions. The term "Frontier OSS Services" includes, but is not limited to: (a) Frontier's provision of Onvoy Usage Information to Onvoy pursuant to Section 8.3 of this Attachment; and, (b) "Frontier OSS Information", as defined in Section 8.1.4 of this Attachment.
- 8.1.3 Frontier OSS Facilities: Any gateways, interfaces, databases, facilities, equipment, software, or systems, used by Frontier to provide Frontier OSS Services to Onvoy.
- 8.1.4 Frontier OSS Information: Any information accessed by, or disclosed or provided to, Onvoy through or as a part of Frontier OSS Services. The term "Frontier OSS Information" includes, but is not limited to: (a) any Customer Information related to a Frontier Customer or an Onvoy Customer accessed by, or disclosed or provided to, Onvoy through or as a part of Frontier OSS Services; and, (b) any Onvoy Usage Information (as defined in Section 8.1.6 of this Attachment) accessed by, or disclosed or provided to, Onvoy.
- 8.1.5 Frontier Retail Telecommunications Service: Any Telecommunications Service that Frontier provides at retail to subscribers that are not Telecommunications Carriers. The term "Frontier 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 Frontier.
- 8.1.6 Onvoy Usage Information: For a Frontier Retail Telecommunications Service purchased by Onvoy pursuant to the Resale Attachment, the usage information that Frontier would record if Frontier was furnishing such Frontier Retail Telecommunications Service to a Frontier 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 Frontier OSS Services.
 - 8.2.1 Upon request by Onvoy, Frontier shall provide to Onvoy Frontier OSS Services. Such Frontier 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, Frontier Operations Support Systems, Frontier Operations Support Systems functions, Frontier OSS Facilities, Frontier OSS Information, and the Frontier OSS Services that will be offered by Frontier, shall be as determined by Frontier. Subject to the requirements of Applicable Law, Frontier shall have the right to change Frontier Operations Support Systems, Frontier Operations Support Systems functions, Frontier OSS Facilities, Frontier OSS Information, and the Frontier OSS Services, from time-to-time, without the consent of Onvoy.
 - 8.2.3 To the extent required by Applicable Law, in providing Frontier OSS Services to Onvoy, Frontier will comply with Frontier'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 Frontier OSS Services. Frontier's OSS Change Management Guidelines will be set out on a Frontier website.

8.3 Onvoy Usage Information.

- 8.3.1 Upon request by Onvoy, Frontier shall provide to Onvoy Onvoy Usage Information. Such Onvoy Usage Information will be provided in accordance with, but only to the extent required by, Applicable Law.
- 8.3.2 Onvoy Usage Information will be available to Onvoy through Network Data Mover (NDM) or other such media as mutually agreed by both Parties.
- 8.3.3 Onvoy Usage Information will be provided in an ATIS EMI format.
- 8.3.4 Except as stated in this Section 8.3, subject to the requirements of Applicable Law, the manner in which, and the frequency with which, Onvoy Usage Information will be provided to Onvoy shall be determined by Frontier.

8.4 Access to and Use of Frontier OSS Facilities.

- 8.4.1 Frontier OSS Facilities may be accessed and used by Onvoy only to the extent necessary for Onvoy's access to and use of Frontier OSS Services pursuant to this Agreement.
- 8.4.2 Frontier OSS Facilities may be accessed and used by Onvoy only to provide Telecommunications Services to Onvoy Customers.
- 8.4.3 Onvoy shall restrict access to and use of Frontier OSS Facilities to Onvoy. This Section 8 does not grant to Onvoy any right or license to grant sublicenses to other persons, or permission to other persons (except Onvoy's employees, agents and contractors, in accordance with Section 8.4.7 of this Attachment), to access or use Frontier OSS Facilities.
- 8.4.4 Onvoy shall not (a) alter, modify or damage the Frontier OSS Facilities (including, but not limited to, Frontier software), (b) copy, remove, derive, reverse engineer, or decompile, software from the Frontier OSS Facilities, or (c) obtain access through Frontier OSS Facilities to Frontier databases, facilities, equipment, software, or systems, which are not offered for Onvoy's use under this Section 8.
- 8.4.5 Onvoy shall comply with all practices and procedures established by Frontier for access to and use of Frontier OSS Facilities (including, but not limited to, Frontier 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 Frontier OSS Facilities, and all access and user identification codes for Frontier OSS Facilities: (a) shall remain the property of Frontier; (b) shall be used by Onvoy only in connection with Onvoy's use of Frontier OSS Facilities permitted by this Section 8; (c) shall be treated by Onvoy as Confidential Information of Frontier pursuant to Section 10 of the

General Terms and Conditions; and, (d) shall be destroyed or returned by Onvoy to Frontier upon the earlier of request by Frontier or the expiration or termination of this Agreement.

8.4.7 Onvoy's employees, agents and contractors may access and use Frontier OSS Facilities only to the extent necessary for Onvoy's access to and use of the Frontier OSS Facilities permitted by this Agreement. Any access to or use of Frontier OSS Facilities by Onvoy's employees, agents, or contractors, shall be subject to the provisions of this Agreement, including, but not limited to, Section 10 of the General Terms and Conditions and Section 8.5.3.2 of this Attachment.

8.5 Frontier 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, Frontier grants to Onvoy a non-exclusive license to use Frontier OSS Information.

8.5.2 All Frontier OSS Information shall at all times remain the property of Frontier. Except as expressly stated in this Section 8, Onvoy shall acquire no rights in or to any Frontier OSS Information.

8.5.3 The provisions of this Section 8.5.3 shall apply to all Frontier OSS Information, except (a) Onvoy Usage Information, (b) CPNI of Onvoy, and (c) CPNI of a Frontier Customer or an Onvoy Customer, to the extent the Customer has authorized Onvoy to use the CPNI.

8.5.3.1 Frontier OSS Information may be accessed and used by Onvoy only to provide Telecommunications Services to Onvoy Customers.

8.5.3.2 Onvoy shall treat Frontier OSS Information that is designated by Frontier, through written or electronic notice (including, but not limited to, through the Frontier OSS Services), as "Confidential" or "Proprietary" as Confidential Information of Frontier pursuant to Section 10 of the General Terms and Conditions.

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

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

- 8.5.3.5 Onvoy's license to use Frontier OSS Information shall expire upon the earliest of: (a) the time when the Frontier OSS Information is no longer needed by Onvoy to provide Telecommunications Services to Onvoy Customers; (b) termination of the license in accordance with this Section 8; or (c) expiration or termination of this Agreement.
 - 8.5.3.6 All Frontier OSS Information received by Onvoy shall be destroyed or returned by Onvoy to Frontier, upon expiration, suspension or termination of the license to use such Frontier OSS Information.
 - 8.5.4 Unless sooner terminated or suspended in accordance with this Agreement or this Section 8 (including, but not limited to, Section 2.2 of the General Terms and Conditions and Section 8.6.1 of this Attachment), Onvoy's access to Frontier OSS Information through Frontier OSS Services shall terminate upon the expiration or termination of this Agreement.
 - 8.5.5 Audits.
 - 8.5.5.1 Frontier shall have the right (but not the obligation) to audit Onvoy to ascertain whether Onvoy is complying with the requirements of Applicable Law and this Agreement with regard to Onvoy's access to, and use and disclosure of, Frontier OSS Information.
 - 8.5.5.2 Without in any way limiting any other rights Frontier may have under this Agreement or Applicable Law, Frontier shall have the right (but not the obligation) to monitor Onvoy's access to and use of Frontier OSS Information which is made available by Frontier to Onvoy pursuant to this Agreement, to ascertain whether Onvoy is complying with the requirements of Applicable Law and this Agreement, with regard to Onvoy's access to, and use and disclosure of, such Frontier OSS Information. The foregoing right shall include, but not be limited to, the right (but not the obligation) to electronically monitor Onvoy's access to and use of Frontier OSS Information which is made available by Frontier to Onvoy through Frontier OSS Facilities.
 - 8.5.5.3 Information obtained by Frontier pursuant to this Section 8.5.5 shall be treated by Frontier as Confidential Information of Onvoy pursuant to Section 10 of the General Terms and Conditions; provided that, Frontier shall have the right (but not the obligation) to use and disclose information obtained by Frontier pursuant to Section 8.5.5 of this Attachment to enforce Frontier's rights under this Agreement or Applicable Law.
 - 8.5.6 Onvoy acknowledges that the Frontier OSS Information, by its nature, is updated and corrected on a continuous basis by Frontier, and therefore that Frontier OSS Information is subject to change from time to time.
- 8.6 Liabilities and Remedies.

- 8.6.1 Any breach by Onvoy, or Onvoy's employees, agents or contractors, of the provisions of Sections 8.4 or 8.5 of this Attachment shall be deemed a material breach of this Agreement. In addition, if Onvoy or an employee, agent or contractor of Onvoy at any time breaches a provision of Sections 8.4 or 8.5 of this Attachment and such breach continues for more than ten (10) days after written notice thereof from Frontier, then, except as otherwise required by Applicable Law, Frontier shall have the right, upon notice to Onvoy, to suspend the license to use Frontier OSS Information granted by Section 8.5.1 of this Attachment and/or the provision of Frontier OSS Services, in whole or in part.
- 8.6.2 Onvoy agrees that Frontier would be irreparably injured by a breach of Sections 8.4 or 8.5 of this Attachment by Onvoy or the employees, agents or contractors of Onvoy, and that Frontier shall be entitled to seek equitable relief, including injunctive relief and specific performance, in the event of any such breach. Such remedies shall not be deemed to be the exclusive remedies for any such breach, but shall be in addition to any other remedies available under this Agreement or at law or in equity.
- 8.7 Relation to Applicable Law.
- The provisions of Sections 8.4, 8.5 and 8.6 of this Attachment with regard to the confidentiality of information shall be in addition to and not in derogation of any provisions of Applicable Law with regard to the confidentiality of information, including, but not limited to, 47 U.S.C. § 222, and are not intended to constitute a waiver by Frontier of any right with regard to protection of the confidentiality of the information of Frontier or Frontier Customers provided by Applicable Law.
- 8.8 Cooperation.
- Onvoy, at Onvoy's expense, shall reasonably cooperate with Frontier in using Frontier OSS Services. Such cooperation shall include, but not be limited to, the following:
- 8.8.1 Upon request by Frontier, Onvoy shall by no later than the fifteenth (15th) day of the last month of each Calendar Quarter submit to Frontier reasonable, good faith estimates of the volume of each type of OSS transaction that Onvoy anticipates submitting in each week of the next Calendar Quarter.
- 8.8.2 Onvoy shall reasonably cooperate with Frontier in submitting orders for Frontier Services and otherwise using the Frontier OSS Services, in order to avoid exceeding the capacity or capabilities of such Frontier OSS Services.
- 8.8.3 Onvoy shall participate in cooperative testing of Frontier OSS Services and shall provide assistance to Frontier in identifying and correcting mistakes, omissions, interruptions, delays, errors, defects, faults, failures, or other deficiencies, in Frontier OSS Services.
- 8.9 Frontier Access to Information Related to Onvoy Customers.
- 8.9.1 Frontier shall have the right to access, use and disclose information related to Onvoy Customers that is in Frontier's possession (including, but not limited to, in Frontier OSS Facilities) to the extent such access,

use and/or disclosure has been authorized by the Onvoy Customer in the manner required by Applicable Law.

- 8.9.2 Upon request by Frontier, Onvoy shall negotiate in good faith and enter into a contract with Frontier, pursuant to which Frontier may obtain access to Onvoy's operations support systems (including, systems for pre-ordering, ordering, provisioning, maintenance and repair, and billing) and information contained in such systems, to permit Frontier to obtain information related to Onvoy Customers (as authorized by the applicable Onvoy 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 [Intentionally Left Blank].

8.11 Cancellations.

Frontier 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 Frontier shall afford Onvoy non-discriminatory access to poles, ducts, conduits and rights-of-way owned or controlled by Frontier. Such access shall be provided in accordance with, but only to the extent required by, Applicable Law, pursuant to Frontier's applicable Tariffs, or, in the absence of an applicable Frontier Tariff, Frontier'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 Onvoy shall afford Frontier non-discriminatory access to poles, ducts, conduits and rights-of-way owned or controlled by Onvoy. Such access shall be provided pursuant to Onvoy's applicable Tariffs, or, in the absence of an applicable Onvoy Tariff, Onvoy'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 Frontier by Onvoy for such access shall be no less favorable than the terms, conditions and prices offered to Onvoy by Frontier for access to poles, ducts, conduits and rights of way owned or controlled by Frontier.

10. Telephone Numbers

- 10.1 This Section applies in connection with Onvoy Customers served by Telecommunications Services provided by Frontier to Onvoy for resale.
- 10.2 Onvoy's use of telephone numbers shall be subject to Applicable Law and the rules of the North American Numbering Council, the North American Numbering Plan Administrator, the applicable provisions of this Agreement (including, but not limited to, this Section 10), and Frontier's practices and procedures for use and assignment of telephone numbers, as amended from time-to-time.
- 10.3 Subject to Sections 10.2 and 10.4 of this Attachment, if a Customer of either Frontier or Onvoy who is served by a Frontier Telecommunications Service ("VTS") changes the LEC that serves the Customer using such VTS (including a change from Frontier to Onvoy, from Onvoy to Frontier, or from Onvoy to a LEC other than Frontier), after such change, the Customer may continue to use with

such VTS the telephone numbers that were assigned to the VTS for the use of such Customer by Frontier immediately prior to the change.

- 10.4 Frontier 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 Frontier switch and the Frontier 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 Frontier to Onvoy for resale, the type or class of service subscribed to by the Customer changes.
- 10.5 If service on a VTS provided by Frontier to Onvoy under this Agreement is terminated and the telephone numbers associated with such VTS have not been ported to an Onvoy switch, the telephone numbers shall be available for reassignment by Frontier to any person to whom Frontier elects to assign the telephone numbers, including, but not limited to, Frontier, Frontier Customers, Onvoy, or Telecommunications Carriers other than Frontier and Onvoy.
- 10.6 Onvoy may reserve telephone numbers only to the extent Frontier's Customers may reserve telephone numbers.

11. Routing for Operator Services and Directory Assistance Traffic

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

12. Unauthorized Carrier Change Charges

In the event either Party requests that the other Party install, provide, change, or terminate a Customer's Telecommunications Service (including, but not limited to, a Customer's selection of a primary Telephone Exchange Service Provider) without having obtained authorization from the Customer for such installation, provision, selection, change or termination in accordance with Applicable Laws, the requesting Party shall be liable to the other Party for all charges that would be applicable to the Customer for the initial change in the Customer's Telecommunications Service and any charges for restoring the Customer's Telecommunications Service to its Customer-authorized condition (all such charges together, the "Carrier Change Charges"), including to the appropriate primary Telephone Exchange Service provider. Such Carrier Change Charges may be assessed on the requesting Party by the other Party at any time after the Customer is restored to its Customer-authorized condition.

13. Good Faith Performance

If and, to the extent that, Frontier, prior to the Effective Date of this Agreement, has not provided in the State of Tennessee a Service offered under this Attachment, Frontier reserves the right to negotiate in good faith with Onvoy reasonable terms and conditions

(including, without limitation, rates and implementation timeframes) for such Service; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.

INTERCONNECTION ATTACHMENT

1. General

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

2. Points of Interconnection and Trunk Types

2.1 Point(s) of Interconnection.

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

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 Onvoy Telephone Exchange Service Customers and purchasers of Switched Exchange Access Service via a Frontier 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., 9-1-1/E9-1-1 Trunks) or in other separate agreements between the Parties (e.g., directory assistance trunks, operator services trunks, BLV/BLVI trunks or trunks for 500/555 traffic).
- 2.2.3 In accordance with the terms of this Agreement, the Parties will deploy One-Way Interconnection Trunks (trunks with traffic going in one direction, including one-way trunks and uni-directional two-way trunks) and/or Two-Way Interconnection Trunks (trunks with traffic going in both directions).
- 2.2.4 Onvoy shall establish, at the technically feasible Point(s) of Interconnection on Frontier's network in a LATA, separate Interconnection Trunk group(s) between such POI(s) and each Frontier Tandem in a LATA with a subtending End Office(s) to which Onvoy originates calls for Frontier to terminate.
- 2.2.5 In the event the volume of traffic between a Frontier End Office and a technically feasible Point of Interconnection on Frontier's network in a LATA, which is carried by a Final Tandem Interconnection Trunk group, exceeds (a) the Centum Call Seconds (Hundred Call Seconds) busy hour equivalent of one (1) DS1 at any time; (b) 200,000 minutes of use for a single month; and/or; (c) 600 busy hour Centum Call Seconds (BHCCS) of use for a single month: (i) if One-Way Interconnection Trunks are used, the originating Party shall promptly establish new or augment existing End Office One-Way Interconnection Trunk groups between the Frontier End Office and the technically feasible Point of Interconnection on Frontier's network; or, (ii) if Two-Way Interconnection Trunks are used, Onvoy shall promptly submit an ASR to Frontier to establish new or augment existing End Office Two-Way Interconnection Trunk group(s) between that Frontier End Office and the technically feasible Point of Interconnection on Frontier's network.
- 2.2.6 Except as otherwise agreed in writing by the Parties, the total number of Tandem Interconnection Trunks between a technically feasible Point of Interconnection on Frontier's network and a Frontier Tandem will be limited to a maximum of 240 trunks. In the event that the volume of traffic between a technically feasible Point of Interconnection on Frontier's network and a Frontier Tandem exceeds, or reasonably can be expected to exceed, the capacity of the 240 trunks, Onvoy shall promptly submit an ASR to Frontier to establish new or additional End Office Trunks to insure that the volume of traffic between the technically feasible Point of Interconnection on Frontier's network and the Frontier Tandem does not exceed the capacity of the 240 trunks.
- 2.3 One-Way Interconnection Trunks.
 - 2.3.1 Where the Parties use One-Way Interconnection Trunks for the delivery of traffic from Onvoy to Frontier, Onvoy, at Onvoy's own expense, shall:
 - 2.3.1.1 provide its own facilities for delivery of the traffic to the technically feasible Point(s) of Interconnection on Frontier's network in a LATA; and/or

- 2.3.1.2 obtain transport for delivery of the traffic to the technically feasible Point(s) of Interconnection on Frontier's network in a LATA (a) from a third party, or, (b) if Frontier offers such transport pursuant to a Frontier access Tariff, from Frontier.
 - 2.3.2 For each Tandem or End Office One-Way Interconnection Trunk group for delivery of traffic from Onvoy to Frontier with a utilization level of less than sixty percent (60%) for final trunk groups and eighty-five percent (85%) for high usage trunk groups, unless the Parties agree otherwise, Onvoy will promptly submit ASRs to disconnect a sufficient number of Interconnection Trunks to attain a utilization level of approximately sixty percent (60%) for all final trunk groups and eighty-five percent (85%) for all high usage trunk groups. In the event Onvoy fails to submit an ASR to disconnect One-Way Interconnection Trunks as required by this Section, Frontier may disconnect the excess Interconnection Trunks or bill (and Onvoy shall pay) for the excess Interconnection Trunks at the rates set forth in the Pricing Attachment.
 - 2.3.3 Where the Parties use One-Way Interconnection Trunks for the delivery of traffic from Frontier to Onvoy, Frontier, at Frontier's own expense, shall provide its own facilities for delivery of the traffic to the technically feasible Point(s) of Interconnection on Frontier's network in a LATA.
- 2.4 Two-Way Interconnection Trunks.
 - 2.4.1 Where the Parties use Two-Way Interconnection Trunks for the exchange of traffic between Frontier and Onvoy, Onvoy, at its own expense, shall:
 - 2.4.1.1 provide its own facilities to the technically feasible Point(s) of Interconnection on Frontier's network in a LATA; and/or
 - 2.4.1.2 obtain transport to the technically feasible Point(s) of Interconnection on Frontier's network in a LATA (a) from a third party, or, (b) if Frontier offers such transport pursuant to a Frontier access Tariff, from Frontier.
 - 2.4.2 Where the Parties use Two-Way Interconnection Trunks for the exchange of traffic between Frontier and Onvoy, Frontier, at its own expense, shall provide its own facilities to the technically feasible Point(s) of Interconnection on Frontier's network in a LATA.
 - 2.4.3 Prior to establishing any Two-Way Interconnection Trunks, Onvoy shall meet with Frontier to conduct a joint planning meeting ("Joint Planning Meeting"). At that Joint Planning Meeting, each Party shall provide to the other Party originating Centum Call Seconds (Hundred Call Seconds) information, and the Parties shall mutually agree on the appropriate initial number of End Office and Tandem Two-Way Interconnection Trunks and the interface specifications at the technically feasible Point(s) of Interconnection on Frontier's network in a LATA at which the Parties interconnect for the exchange of traffic. Where the Parties have agreed to convert existing One-Way Interconnection Trunks to Two-Way Interconnection Trunks, at the Joint Planning Meeting, the Parties shall also mutually agree on the conversion process and project intervals for conversion of such One-Way Interconnection Trunks to Two-Way Interconnection Trunks.

- 2.4.4 On a semi-annual basis, Onvoy shall submit a good faith forecast to Frontier of the number of End Office and Tandem Two-Way Interconnection Trunks that Onvoy anticipates Frontier will need to provide during the ensuing two (2) year period for the exchange of traffic between Onvoy and Frontier. Onvoy's trunk forecasts shall conform to the Frontier 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 Centum Call Seconds (Hundred Call Seconds) equal to five (5). Either Party may disconnect End Office Two-Way Interconnection Trunks that, based on reasonable engineering criteria and capacity constraints, are not warranted by the actual traffic volume experienced.
- 2.4.8 Two-Way Interconnection Trunk groups that connect to a Frontier access Tandem shall be engineered using a design blocking objective of Neal-Wilkinson B.005 during the average time consistent busy hour. Two-Way Interconnection Trunk groups that connect to a Frontier local Tandem shall be engineered using a design blocking objective of Neal-Wilkinson B.01 during the average time consistent busy hour. Frontier and Onvoy shall engineer Two-Way Interconnection Trunks using Telcordia Notes on the Networks SR 2275 (formerly known as 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 Onvoy 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. Onvoy shall order Two-Way Interconnection Trunks by submitting ASRs to Frontier setting forth the number of Two-Way Interconnection Trunks to be installed and the requested installation dates within Frontier's effective standard intervals or negotiated intervals, as appropriate. Onvoy shall complete ASRs in accordance with OBF Guidelines as in effect from time to time.
- 2.4.11 Frontier may (but shall not be obligated to) monitor Two-Way Interconnection Trunk groups using service results for the applicable design blocking objective. If Frontier observes blocking in excess of the applicable design objective on any Tandem Two-Way Interconnection Trunk group and Onvoy has not notified Frontier that it has corrected such blocking, Frontier may submit to Onvoy a Trunk

Group Service Request directing Onvoy to remedy the blocking. Upon receipt of a Trunk Group Service Request, Onvoy will complete an ASR to establish or augment the End Office Two-Way Interconnection Trunk group(s), or, if mutually agreed, to augment the Tandem Two-Way Interconnection Trunk group with excessive blocking and submit the ASR to Frontier 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. Onvoy 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, Onvoy 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 Onvoy fails to submit an ASR for Two-Way Interconnection Trunks in conformance with this Section, Frontier may disconnect the excess Interconnection Trunks or bill (and Onvoy shall pay) for the excess Interconnection Trunks at the applicable Frontier rates.
- 2.4.13 Because Frontier will not be in control of when and how many Two-Way Interconnection Trunks are established between its network and Onvoy's network, Frontier'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 Onvoy will route its traffic, or traffic belonging to its Interconnected VoIP Provider Customers, to Frontier 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 Onvoy to a Frontier End Office will first be routed to the End Office Interconnection Trunk group between Onvoy and the Frontier End Office.

3. Alternative Interconnection Arrangements

3.1 Fiber Meet Arrangement Provisions.

- 3.1.1 Each Party may request a Fiber Meet arrangement by providing written notice thereof to the other Party if each of the following conditions has been met: (a) the Parties have consistently been exchanging an amount of applicable traffic (as set forth in Section 3.1.3 below) in the relevant exchanges equal to at least one (1) DS-3 and (b) neither Onvoy nor any of Onvoy's affiliates has an overdue balance on any bill rendered to Onvoy or Onvoy's affiliates for charges that are not subject to a good faith dispute. Any such Fiber Meet arrangement shall be subject to the terms of this Agreement. In

addition, the establishment of any Fiber Meet arrangement is expressly conditioned upon the Parties mutually agreeing to the technical specifications and requirements for such Fiber Meet arrangement including, but not limited to, the location of the Fiber Meet points, routing, equipment (e.g., specifications of Add/Drop Multiplexers, number of strands of fiber, etc.), software, ordering, provisioning, maintenance, repair, testing, augment and on any other technical specifications or requirements necessary to implement the Fiber Meet arrangement. For each Fiber Meet arrangement the Parties agree to implement, the Parties will complete and sign a Technical Specifications and Requirements document, the form of which is attached hereto as Exhibit A to Section 3 of the Interconnection Attachment Fiber Meet Arrangement Provisions. Each such document will be treated as Confidential Information.

3.1.2 The Parties agree to consider the possibility of using existing fiber cable with spare capacity, where available, to implement any such request for a Fiber Meet arrangement. If existing fiber cable with spare capacity is not available, the Parties agree to minimize the construction and deployment of fiber cable necessary for any Fiber Meet arrangement to which they agree. Except as otherwise agreed by the Parties, any and all Fiber Meet points established between the Parties shall extend no further than three (3) miles from an applicable Frontier Tandem or End Office and Frontier shall not be required to construct or deploy more than five hundred (500) feet of fiber cable for a Fiber Meet arrangement.

3.1.3 A Fiber Meet arrangement established under this Agreement may be used for the transmission and routing of only the following traffic types (over the Interconnection Trunks):

- 3.1.3.1 Reciprocal Compensation Traffic between the Parties' respective Telephone Exchange Service Customers;
- 3.1.3.2 Translated LEC IntraLATA toll free service access code (e.g., 800/888/877) traffic between the Parties' respective Telephone Exchange Service Customers;
- 3.1.3.3 IntraLATA Toll Traffic between the Parties' respective Telephone Exchange Service Customers;
- 3.1.3.4 Tandem Transit Traffic; and
- 3.1.3.5 Measured Internet Traffic.

To the extent that a Fiber Meet arrangement established under this Agreement is used for the transmission and routing of traffic of the types set forth in Sections 3.1.3.1 and/or 3.1.3.5, other than the obligation to pay intercarrier compensation charges pursuant to the terms of the Agreement, neither Party shall have any obligation to pay the other Party any charges in connection with any Fiber Meet arrangements established under this Agreement. To the extent that a Fiber Meet arrangement established under this Agreement is used for the transmission and routing of traffic of the type set forth in Section 3.1.3.2, the transport and termination of such traffic shall be subject to the rates and charges set forth in the Agreement and applicable Tariffs. To the extent that a Fiber Meet arrangement established

under this Agreement is used for the transmission and routing of traffic of the type set forth in Section 3.1.3.3, the Party originating such traffic shall compensate the terminating Party for the transport and termination of such traffic at the rates and charges set forth in the Agreement and applicable Tariffs. To the extent that a Fiber Meet arrangement established under this Agreement is used for the transmission and routing of traffic of the type set forth in Section 3.1.3.4, Frontier shall charge (and Onvoy shall pay) Frontier's applicable rates and charges as set forth in the Agreement and Frontier's applicable Tariffs, including transport charges to the terminating Frontier Tandem.

3.1.4 At Onvoy's written request, a Fiber Meet arrangement established under this Agreement may be used for the transmission and routing of the following traffic types over the following trunk types:

3.1.4.1 Operator services traffic from Onvoy's Telephone Exchange Service Customers to an operator services provider over operator services trunks;

3.1.4.2 Directory assistance traffic from Onvoy's Telephone Exchange Service Customers to a directory assistance provider over directory assistance trunks;

3.1.4.3 9-1-1 traffic from Onvoy's Telephone Exchange Service Customers to 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s) over 9-1-1 trunks; and

3.1.4.4 Jointly-provided Switched Exchange Access Service traffic, including translated InterLATA toll free service access code (e.g., 800/888/877) traffic, between Onvoy's Telephone Exchange Service Customers and third-party purchasers of Switched Exchange Access Service via a Frontier access Tandem over Access Toll Connecting Trunks.

To the extent that a Fiber Meet arrangement established under this Agreement is used for the transmission and routing of any traffic of the types set forth in this Section 3.1.4 Frontier may bill (and Onvoy shall pay) Frontier's applicable Tariff rates and charges. Except as otherwise agreed in writing by the Parties or as expressly set forth in Sections 3.1.3 and/or 3.1.4 of this Interconnection Attachment, access services (switched and unswitched) and unbundled network elements shall not be provisioned on or accessed through Fiber Meet arrangements.

3.1.5 Onvoy will include traffic to be exchanged over Fiber Meet arrangements in its forecasts provided to Frontier under the Agreement.

4. Initiating Interconnection

4.1 If Onvoy determines to offer Telephone Exchange Services and to interconnect with Frontier in any LATA in which Frontier also offers Telephone Exchange Services and in which the Parties are not already interconnected pursuant to this Agreement, Onvoy shall provide written notice to Frontier of the need to establish Interconnection in such LATA pursuant to this Agreement.

- 4.2 The notice provided in Section 4.1 of this Attachment shall include (a) the initial Routing Point(s); (b) the applicable technically feasible Point(s) of Interconnection on Frontier's network to be established in the relevant LATA in accordance with this Agreement; (c) Onvoy's intended Interconnection activation date; (d) a forecast of Onvoy's trunking requirements conforming to Section 14.2 of this Attachment; and (e) such other information as Frontier 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 Frontier of all necessary information as indicated above. Within ten (10) Business Days of Frontier's receipt of Onvoy's notice provided for in Section 4.1 of this Attachment, Frontier and Onvoy shall confirm the technically feasible Point of Interconnection on Frontier's network in the new LATA and the mutually agreed upon Interconnection activation date for the new LATA.

5. Transmission and Routing of Telephone Exchange Service Traffic

5.1 Scope of Traffic.

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

5.2 Trunk Group Connections and Ordering.

- 5.2.1 For both One-Way and Two-Way Interconnection Trunks, if Onvoy wishes to use a technically feasible interface other than a DS1 or a DS3 facility at the POI, the Parties shall negotiate reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.
- 5.2.2 When One-Way or Two-Way Interconnection Trunks are provisioned using a DS3 interface facility, if Onvoy orders the multiplexed DS3 facilities to a Frontier Central Office that is not designated in the NECA 4 Tariff as the appropriate Intermediate Hub location (i.e., the Intermediate Hub location in the appropriate Tandem subterminating area based on the LERG), and the provision of such facilities to the subject Central Office is technically feasible, the Parties shall negotiate in good faith reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such arrangement; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement's dispute resolution procedures.
- 5.2.3 Each Party will identify its Carrier Identification Code, a three or four digit numeric code obtained from Telcordia, to the other Party when ordering a trunk group.
- 5.2.4 For multi-frequency (MF) signaling each Party will out pulse ten (10) digits to the other Party, unless the Parties mutually agree otherwise.
- 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 Onvoy traffic to Frontier, the subtending arrangements between Frontier Tandems and Frontier End Offices shall be the same as the Tandem/End Office subtending arrangements Frontier maintains for the routing of its own or other carriers' traffic (i.e., traffic will be routed to the appropriate Frontier Tandem subtended by the terminating End Office serving the Frontier Customer). For purposes of routing Frontier traffic to Onvoy, the subtending arrangements between Onvoy Tandems and Onvoy End Offices shall be the same as the Tandem/End Office subtending arrangements that Onvoy 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 of this Agreement and any applicable Tariff.

5.5 Grades of Service.

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

6. Traffic Measurement and Billing over Interconnection Trunks

6.1 For billing purposes, each Party shall pass Calling Party Number (CPN) information on at least ninety-five percent (95%) of calls carried over the Interconnection Trunks. In addition each party shall pass Charge Number (CN) unaltered where it is different than CPN.

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 Orders.

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 traffic studies determine the originating Party combined 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.

- 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. Measured Internet Traffic and Reciprocal Compensation Traffic shall be exchanged by the parties on a bill and keep basis.
- 6.3 Each Party reserves the right to audit all Traffic, up to a maximum of two audits per Calendar Year, to ensure that rates are being applied appropriately; provided, however, that either Party shall have the right to conduct additional audit(s) if the preceding audit disclosed material errors or discrepancies. Each Party agrees to provide the necessary Traffic data in conjunction with any such audit in a timely manner.
- 6.4 Nothing in this Agreement shall be construed to limit either Party's ability to designate the areas within which that Party's Customers may make calls which that Party rates as "local" in its Customer Tariffs.
- 6.5 If and, to the extent that, an Onvoy Customer receives V/FX Traffic, Onvoy shall promptly provide notice thereof to Frontier (such notice to include, without limitation, the specific telephone number(s) that the Customer uses for V/FX Traffic, as well as the LATA in which the Customer's station is actually physically located) and shall not bill Frontier Reciprocal Compensation, intercarrier compensation or any other charges for calls placed by Frontier's Customers to such Onvoy Customers.

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

7.1 Reciprocal Compensation.

The Parties shall exchange Reciprocal Compensation Traffic at the technically feasible Point(s) of Interconnection on Frontier's network in a LATA designated in accordance with the terms of this Agreement. The Parties will exchange Reciprocal Compensation Traffic on a bill and keep basis. No additional charges shall be assessed by the terminating Party for the transport and termination of such traffic from the technically feasible Point(s) of Interconnection on Frontier's network in a LATA to its Customer; provided, however, for the avoidance of any doubt, Onvoy shall also pay Frontier, at the rates set forth in the Pricing Attachment, for any multiplexing, cross connects or other collocation related Services that Onvoy obtains from Frontier. When Toll Traffic is delivered over

the same Interconnection Trunks as Reciprocal Compensation Traffic, any port, transport or other applicable access charges related to the delivery of Toll Traffic from the technically feasible Point of Interconnection on Frontier's network in a LATA to the terminating Party's Customer shall be prorated so as to apply only to the Toll Traffic. The designation of traffic as Reciprocal Compensation Traffic for purposes of Reciprocal Compensation shall be based on the actual originating and terminating points of the complete end-to-end communication.

7.2 Traffic Not Subject to Reciprocal Compensation.

- 7.2.1 Reciprocal Compensation shall not apply to interstate or intrastate Exchange Access (including, without limitation, Virtual Foreign Exchange Traffic (i.e., V/FX Traffic), Information Access, or exchange services for Exchange Access or Information Access.
- 7.2.2 Reciprocal Compensation shall not apply to Internet Traffic.
- 7.2.3 Reciprocal Compensation shall not apply to Toll Traffic, including, but not limited to, calls originated on a 1+ presubscription basis, or on a casual dialed (10XXX/101XXXX) basis.
- 7.2.4 Reciprocal Compensation shall not apply to Optional Extended Local Calling Scope Arrangement Traffic.
- 7.2.5 Reciprocal Compensation shall not apply to special access, private line, or any other traffic that is not switched by the terminating Party.
- 7.2.6 Reciprocal Compensation shall not apply to Tandem Transit Traffic.
- 7.2.7 Reciprocal Compensation shall not apply to Voice Information Service Traffic (as defined in Section 5 of the Additional Services Attachment).
- 7.2.8 Reciprocal Compensation shall not apply to traffic that is not subject to Reciprocal Compensation under Section 251(b)(5) of the Act.
- 7.2.9 Reciprocal Compensation shall not apply to Virtual Foreign Exchange Traffic (i.e., V/FX Traffic). As used in this Agreement, "Virtual Foreign Exchange Traffic" or "V/FX Traffic" is defined as calls in which an Onvoy Customer is assigned a telephone number with an NXX Code (as set forth in the LERG) associated with an exchange that is different than the exchange (as set forth in the LERG) associated with the actual physical location of such Customer's station. For the avoidance of any doubt, Onvoy shall pay Frontier's originating access charges for all V/FX Traffic originated by a Frontier Customer, and Onvoy shall pay Frontier's terminating access charges for all V/FX Traffic originated by an Onvoy Customer.

8. Other Types of Traffic

- 8.1 [Intentionally Left Blank].
- 8.2 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 Onvoy to Frontier, Onvoy shall pay Frontier the same amount that such third party carrier

would have been obligated to pay Frontier for termination of that traffic at the location the traffic is delivered to Frontier by Onvoy.

- 8.4 Any traffic not specifically addressed in this Agreement shall be treated as required by the applicable Tariff of the Party transporting and/or terminating the traffic.
- 8.5 The Parties may also exchange Internet Traffic at the technically feasible Point(s) of Interconnection on Frontier's network in a LATA established hereunder for the exchange of Reciprocal Compensation Traffic. Any intercarrier compensation that may be due in connection with the Parties' exchange of Internet Traffic shall be applied at such technically feasible Point of Interconnection on Frontier's network in a LATA in accordance with the FCC Internet Orders and other applicable FCC orders and FCC Regulations.

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 Onvoy Telephone Exchange Service Customers and Interexchange Carriers ("Access Toll Connecting Trunks"), in any case where Onvoy elects to have its End Office Switch subtend a Frontier Tandem. This includes casually-dialed (1010XXX and 101XXXX) traffic.

9.2 Access Toll Connecting Trunk Group Architecture.

- 9.2.1 If Onvoy chooses to subtend a Frontier access Tandem, Onvoy's NPA/NXX must be assigned by Onvoy to subtend the same Frontier access Tandem that a Frontier NPA/NXX serving the same Rate Center Area subtends as identified in the LERG.
- 9.2.2 Onvoy 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 Onvoy's Customers.
- 9.2.3 The Access Toll Connecting Trunks shall be two-way trunks. Such trunks shall connect the End Office Onvoy utilizes to provide Telephone Exchange Service and Switched Exchange Access to its Customers in a given LATA to the access Tandem(s) Frontier 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 Onvoy's Customers to connect to or be connected to the interexchange trunks of any Interexchange Carrier which is connected to a Frontier access Tandem.

10. Meet-Point Billing (MPB) Arrangements

- 10.1 Onvoy and Frontier will establish MPB arrangements in order to provide a common transport option to Switched Exchange Access Services customers via a Frontier access Tandem Switch in accordance with the MPB guidelines contained in the OBF's MECAB and MECOD documents, except as modified

herein, and in Frontier'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 Frontier.

- 10.2 In each LATA, the Parties shall establish MPB arrangements for the applicable Onvoy Routing Point/Frontier Serving Interconnection Wire Center combinations.
- 10.3 Interconnection for the MPB arrangement shall occur at each of the Frontier access Tandems in the LATA, unless otherwise agreed to by the Parties.
- 10.4 Onvoy and Frontier 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 MPB 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 Onvoy Routing Point/Frontier Serving Interconnection Wire Center combination, the MPB billing percentages for transport between the Onvoy Routing Point and the Frontier Serving Interconnection Wire Center shall be calculated in accordance with the formula set forth in Section 10.17 of this Attachment.
- 10.7 Each Party shall provide the other Party with the billing name, billing address, and Carrier Identification Code (CIC) of the IXC, and identification of the Frontier Interconnection Wire Center serving the IXC in order to comply with the MPB notification process as outlined in the MECAB document.
- 10.8 Frontier shall provide Onvoy with the Terminating Switched Access Detail Usage Data (EMI category 1101XX records) recorded at the Frontier access Tandem on cartridge or via such other media as the Parties may agree to, no later than ten (10) Business Days after the date the usage occurred.
- 10.9 Onvoy shall provide Frontier with the Originating Switched Access Detail Usage Data (EMI category 1101XX records) on cartridge or via such other media as the Parties may agree, no later than ten (10) Business Days after the date the usage occurred.
- 10.10 All usage data to be provided pursuant to Sections 10.8 and 10.9 of this Attachment shall be sent to the following addresses:

To Onvoy:

Onvoy, LLC
Attention: John Green
550 West Adams Street, Suite 900
Chicago, IL 60661

For Frontier:

Frontier Communications
Attention: Access Billing
1225 Jefferson Road, Suite A 201
Rochester, NY 14623

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 Onvoy and Frontier 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 Onvoy determines to offer Telephone Exchange Services in a LATA in which Frontier operates an access Tandem Switch, Frontier shall permit and enable Onvoy to subtenant the Frontier access Tandem Switch(es) designated for the Frontier End Offices in the area where there are located Onvoy 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/Frontier Serving Interconnection Wire Center combination shall be calculated according to the following formula, unless as mutually agreed to by the Parties:

$$a / (a + b) = \text{Onvoy Billing Percentage}$$

and

$$b / (a + b) = \text{Frontier Billing Percentage}$$

where:

a = the airline mileage between Onvoy Routing Point and the actual point of interconnection for the MPB arrangement; and

b = the airline mileage between the Frontier Serving Interconnection Wire Center and the actual point of interconnection for the MPB arrangement.

- 10.18 Onvoy shall inform Frontier 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 Onvoy's delivery of notice to Frontier, Frontier and Onvoy shall confirm the Routing Point/Frontier Serving Interconnection 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 Onvoy originating "untranslated" 8YY traffic will be routed over a separate One-Way miscellaneous Trunk group.

- 11.1 When Onvoy delivers translated 8YY calls to Frontier to be completed by

11.1.1 an IXC:

11.1.1.1 Onvoy will provide an appropriate EMI record to Frontier;

11.1.1.2 Onvoy will bill the IXC the Onvoy's applicable Switched Exchange Access Tariff charges and the Onvoy's applicable Tariff query charges; and

11.1.1.3 Frontier will bill the IXC Frontier's applicable Switched Exchange Access Tariff charges.

11.1.2 Frontier:

11.1.2.1 Onvoy will provide an appropriate EMI record to Frontier; and

11.1.2.2 Onvoy will bill Frontier the Onvoy's Switched Exchange Access Tariff charges and the Onvoy's applicable Tariff query charge.

- 11.1.3 a toll free service access code service provider in that LATA:
 - 11.1.3.1 Onvoy will provide an appropriate EMI record to Frontier and the toll free service access code service provider;
 - 11.1.3.2 Onvoy will bill the toll free service access code service provider the Onvoy's applicable Switched Exchange Access Tariff charges and the Onvoy's applicable Tariff query charges; and
 - 11.1.3.3 Frontier will bill the toll free service access code service provider Frontier's applicable Switched Exchange Access Tariff charges.
- 11.2 When Frontier performs the query and delivers translated 8YY calls, originated by Frontier's Customer or another LEC's Customer to Onvoy to be completed by
 - 11.2.1 Onvoy:
 - 11.2.1.1 Frontier will provide an appropriate EMI record to Onvoy; and
 - 11.2.1.2 Frontier will bill Onvoy Frontier's applicable Switched Exchange Access Tariff charges and Frontier's applicable Tariff query charges.
 - 11.2.2 a toll free service access code service provider in that LATA:
 - 11.2.2.1 Frontier will provide an appropriate EMI record to Onvoy and the toll free service access code service provider;
 - 11.2.2.2 Frontier will bill the toll free service access code service provider Frontier's applicable Switched Exchange Access Tariff charges and Frontier's applicable Tariff query charges; and
 - 11.2.2.3 Onvoy will bill the toll free service access code service provider the Onvoy's applicable Switched Exchange Access Tariff charges.
- 11.3 When Onvoy delivers untranslated 8YY calls to Frontier to be completed by
 - 11.3.1 an IXC:
 - 11.3.1.1 Frontier will query the call and route the call to the appropriate IXC;
 - 11.3.1.2 Frontier will provide an appropriate EMI record to Onvoy;
 - 11.3.1.3 Frontier will bill the IXC Frontier's applicable Switched Exchange Access Tariff charges and Frontier's applicable Tariff query charges; and
 - 11.3.1.4 Onvoy will bill the IXC Onvoy's applicable Switched Exchange Access Tariff charges.
 - 11.3.2 Frontier:

- 11.3.2.1 Frontier will query the call and complete the call;
- 11.3.2.2 Frontier will provide an appropriate EMI record to Onvoy;
- 11.3.2.3 Onvoy will bill Frontier the Onvoy's applicable Switched Exchange Access Tariff charges.
- 11.3.3 a toll free service access code service provider in that LATA:
 - 11.3.3.1 Frontier will query the call and route the call to the appropriate toll free service access code service provider;
 - 11.3.3.2 Frontier will provide an appropriate EMI record to Onvoy and the toll free service access code service provider;
 - 11.3.3.3 Frontier will bill the toll free service access code service provider Frontier's applicable Switched Exchange Access Tariff and Frontier's applicable Tariff query charges; and
 - 11.3.3.4 Onvoy will bill the toll free service access code service provider the Onvoy's applicable Switched Exchange Access Tariff charges.
- 11.4 Frontier will not direct untranslated toll free service access code calls to Onvoy.

12. Tandem Transit Traffic

- 12.1 As used in this Section, Tandem Transit Traffic is Telephone Exchange Service traffic that originates on Onvoy's network, and is transported through Frontier's Tandem to the subtending End Office or its equivalent of another carrier (CLEC, ILEC other than Frontier, Commercial Mobile Radio Service (CMRS) carrier, or other LEC ("Other Carrier")). Neither the originating nor terminating customer is a Customer of Frontier. Subtending End Offices shall be determined in accordance with and as identified in the Local Exchange Routing Guide (LERG). For the avoidance of any doubt, under no circumstances shall Frontier be required to transit traffic through a Frontier Tandem to a Central Office that the LERG does not identify as subtending that particular Frontier Tandem. Switched Exchange Access Service traffic is not Tandem Transit Traffic.
- 12.2 Tandem Transit Traffic Service provides Onvoy with the transport of Tandem Transit Traffic as provided below.
- 12.3 Tandem Transit Traffic may be routed over the Interconnection Trunks described in Sections 2 through 6 of this Attachment. Onvoy shall deliver each Tandem Transit Traffic call to Frontier's Tandem with CCS and the appropriate Transactional Capabilities Application Part ("TCAP") message to facilitate full interoperability of CLASS Features and billing functions.
- 12.4 Onvoy may use Tandem Transit Traffic Service only for traffic that originates on Onvoy's network and only to send traffic to an Other Carrier with whom Onvoy has a reciprocal traffic exchange arrangement (either via written agreement or mutual tariffs) that provides for the Other Carrier, to terminate or complete traffic originated by Onvoy and to bill Onvoy, and not to bill Frontier, for such traffic. Onvoy agrees not to use Frontier's Tandem Transit Traffic Service to send traffic to an Other Carrier with whom Onvoy does not have such a reciprocal traffic exchange arrangement or to send traffic that does not originate on Onvoy's network.

- 12.5 Onvoy shall pay Frontier for Tandem Transit Traffic Service at the rates specified in the Pricing Attachment. Frontier will not be liable for compensation to any Other Carrier for any traffic that is transported through Frontier's Tandem and Frontier reserves the right to assess to Onvoy any additional charges or costs any Other Carrier imposes or levies on Frontier for the delivery or termination of such traffic, including any Switched Exchange Access Service charges. If Frontier is billed by any Other Carrier for any traffic originated by Onvoy, Frontier may provide notice to Onvoy of such billing. Upon receipt of such notice, Onvoy shall immediately stop using Frontier's Tandem Transit Traffic Service to send any traffic to such Other Carrier until it has provided to Frontier certification that the Other Carrier has removed such billed charges from its bill to Frontier and that the Other Carrier will not bill Frontier for any traffic originated by Onvoy. Such certification must be signed by an authorized officer or agent of the Other Carrier and must be in a form acceptable to Frontier.
- 12.6 If Onvoy uses Tandem Transit Traffic Service for traffic volumes that exceed the Centum Call Seconds (Hundred Call Seconds) busy hour equivalent of 200,000 combined minutes of use per month (a DS1 equivalent) to the subtending End Office of a particular Other Carrier for any month (the "Threshold Level"). Onvoy shall use good faith efforts to establish direct interconnection with such Other Carrier and reduce such traffic volumes below the Threshold Level. If Frontier believes that Onvoy has not exercised good faith efforts promptly to obtain such direct interconnection, either Party may use the Dispute Resolution processes of this Agreement.
- 12.7 If Onvoy fails to comply with Section 12 of this Attachment, such failure shall be a material breach of a material provision of this Agreement and Frontier may exercise any and all remedies under this Agreement and Applicable Law for such breach.
- 12.8 If or when a third party carrier plans to subtend an Onvoy switch, then Onvoy shall provide written notice to Frontier at least ninety (90) days before such subtending service arrangement becomes effective so that Frontier may negotiate and establish direct interconnection with such third party carrier. Upon written request from Frontier, Onvoy shall offer to Frontier a service arrangement equivalent to or the same as Tandem Transit Traffic Service provided by Frontier to Onvoy as defined in this Section such that Frontier may terminate calls to a Central Office or its equivalent of a CLEC, ILEC other than Frontier, CMRS carrier, or other LEC, that subtends an Onvoy Central Office or its equivalent ("Reciprocal Tandem Transit Service"). Onvoy shall offer such Reciprocal Transit Service arrangements under terms and conditions of an amendment to this Agreement or a separate agreement no less favorable than those provided in this Section.
- 12.9 Neither Party shall take any actions to prevent the other Party from entering into a direct and reciprocal traffic exchange arrangement 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, Onvoy shall adopt the Rate Center Area and Rate Center Points that the Commission has approved for Frontier within the LATA and Tandem serving area. Onvoy 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 Onvoy will also designate a Routing Point for each assigned NXX code. Onvoy shall designate one location for each Rate Center Area in which the Onvoy 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 Onvoy will be routed in the same manner as calls to Onvoy'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 Onvoy's choices regarding the size of the local calling area(s) that Onvoy may establish for its Customers, which local calling areas may be larger than, smaller than, or identical to Frontier's local calling areas.

14. Joint Network Implementation and Grooming Process; Forecasting

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 Frontier's network and in accord with all appropriate relevant industry-accepted quality, reliability and availability standards. Except as otherwise stated in this Agreement, trunks provided by either Party for Interconnection services will be engineered using a design-blocking objective of B.01.
- 14.1.2 the respective duties and responsibilities of the Parties with respect to the administration and maintenance of the trunk groups, including, but not limited to, standards and procedures for notification and discoveries of trunk disconnects;
- 14.1.3 disaster recovery provision escalations;
- 14.1.4 additional technically feasible Point(s) of Interconnection on Frontier's network in a LATA as provided in Section 2 of this Attachment; and
- 14.1.5 such other matters as the Parties may agree, including, e.g., End Office to End Office high usage trunks as good engineering practices may dictate.

14.2 Trunk Forecasting Requirements.

- 14.2.1 Initial Trunk Forecast Requirements. At least ninety (90) days before initiating interconnection in a LATA, Onvoy shall provide Frontier a two (2)-year traffic forecast that complies with the Frontier Interconnection Trunking Forecast Guide, as revised from time to time. This initial traffic forecast will provide the amount of traffic to be delivered to and from Frontier over each of the Interconnection Trunk groups in the LATA over the next eight (8) quarters.
- 14.2.2 Ongoing Trunk Forecast Requirements. Where the Parties have already established interconnection in a LATA, Onvoy shall provide a new or revised traffic forecast that complies with the Frontier Interconnection Trunking Forecast Guide when Onvoy develops plans or becomes aware of information that will materially affect the Parties' interconnection in that LATA. Instances that require a new or revised forecast include, but are not limited to: (a) Onvoy plans to deploy a new switch; (b) Onvoy plans to implement a new POI or network architecture; (c) Onvoy plans to rearrange its network; (d) Onvoy plans to convert a One-Way Interconnection Trunk group to a Two-Way Interconnection Trunk group; (e) Onvoy plans to convert a Two-Way Interconnection Trunk group to a One-Way Interconnection Trunk group; or (f) Onvoy expects a significant change in interconnection traffic volume. In addition, upon request by either Party, the Parties shall meet to: (i) review traffic and usage data on End Office and Tandem Interconnection Trunk groups and (ii) determine whether the Parties should establish new Interconnection Trunk groups, augment existing Interconnection Trunk groups, or disconnect existing Interconnection Trunks.
- 14.2.3 Use of Trunk Forecasts. Trunk forecasts provided pursuant to this Agreement must be prepared in good faith but are not otherwise binding on Onvoy or Frontier.

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 ("Local Number Portability").

The Parties will follow the LNP provisioning process recommended by the North American Numbering Council (NANC) and the Industry Numbering Council (INC), 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), according to industry standards.
- 15.2.6 Where LNP is commercially available, the NXXs in the office shall be defined as portable, except as noted in 15.2.7, and translations will be changed in the Parties' switches to open those NXXs for database queries in all applicable LNP capable offices within the LATA of the given switch(es). On a prospective basis, all newly deployed switches will be equipped with LNP capability and so noted in the LERG.
- 15.2.7 All NXXs assigned to LNP capable switches are to be designated as portable unless a NXX(s) has otherwise been designated as non-portable. Non-portable NXXs include NXX codes assigned to paging services; NXX 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 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 Frontier has deployed LNP throughout its network in compliance with FCC 96-286 and other applicable FCC Regulations.

15.4.1 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.

15.4.2 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 15.4.

15.5 Onvoy shall submit orders to port numbers electronically using an LSR via the Frontier web Graphical User Interface ("GUI") or Electronic Data Interface ("EDI") pursuant to the instructions, business rules and guidelines set forth on the Frontier Communications website (formerly referred to as the Frontier wholesale website).

16. Good Faith Performance

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

TRAFFIC EXCHANGE ATTACHMENT

1. General

Where both Parties subtend the same Tandem Switch operated by a third party (such third party hereinafter referred to as the "Third Party Tandem Provider" and such switch hereinafter referred to as the "Third Party Tandem Switch"), then, subject to the terms and conditions of this Attachment, for those NPA/NXX codes assigned by each Party to Rate Center Areas served by that Third Party Tandem Switch, the Parties may reciprocally exchange Reciprocal Compensation Traffic, Measured Internet Traffic, intraLATA Toll Traffic, and translated IntraLATA toll free service access code traffic, originated by their respective Customers, through that Third Party Tandem Switch. For the avoidance of any doubt, nothing in this Attachment shall preclude the Parties from interconnecting their networks in accordance with the Interconnection Attachment, which Interconnection Attachment must be a part of the Agreement.

2. Arrangements With Third Party Tandem Provider

2.1 The Parties acknowledge and agree that, in order to exchange Reciprocal Compensation Traffic, Measured Internet Traffic, IntraLATA Toll Traffic, and translated IntraLATA toll free service access code traffic under this Attachment, each Party must have established and must maintain its own interconnection and compensation arrangements with the Third Party Tandem Provider for the routing and exchange of the foregoing traffic between the Parties under this Attachment (e.g., arrangements that permit the subject traffic to be exchanged through the Third Party Tandem Provider). In addition, the Parties must also fulfill each of the other requirements of this Attachment.

2.1.1 If such arrangements between a Party and the Third Party Tandem Provider are terminated (e.g., where a Third Party Tandem Provider does not permit a Party to exchange the foregoing traffic using the Third Party Tandem Switch), that Party shall promptly give written notice thereof to the other Party. Absent the existence of such arrangements with the Third Party Tandem Provider, each Party shall have the right, on written notice to the other Party, to discontinue exchanging the foregoing traffic with the other Party (i.e., receiving such traffic from or, sending such traffic to, the other Party) under this Attachment.

2.1.2 Notwithstanding any other provision of this Agreement, on one hundred twenty (120) days written notice, a Party may discontinue exchanging the foregoing traffic with the other Party under this Attachment.

2.2 Forecasting Requirements.

2.2.1 Within ninety (90) days of executing the Agreement, Onvoy shall provide Frontier a two (2)-year traffic forecast. This initial forecast will provide the amount of traffic to be delivered to and from Frontier pursuant to this Attachment, over the next eight (8) quarters.

2.2.2 Ongoing forecast requirements. Where the Parties are already exchanging traffic through a Third Party Tandem Switch in a LATA, Onvoy shall provide a new or revised traffic forecast when Onvoy develops plans or becomes aware of information that will materially affect the Parties' exchange of traffic through such Third Party

Tandem Switch in that LATA. Instances that require a new or revised forecast include, but are not limited to: (i) Onvoy plans to deploy a new switch; (ii) Onvoy plans to implement interconnection in accordance with the Interconnection Attachment or a new network architecture; (iii) Onvoy plans to rearrange its network; or (iv) Onvoy expects a significant change in traffic volume.

2.2.3 Use of Forecasts. Forecasts provided pursuant to this Agreement are not binding on Onvoy or Frontier.

- 2.3 Prior to exchanging traffic through a Third Party Tandem Switch, Onvoy shall meet with Frontier to conduct a joint planning meeting ("Third Party Tandem Provider Joint Planning Meeting"). At that Third Party Tandem Provider Joint Planning Meeting, each Party shall, among other things, provide to the other Party originating Centum Call Second (Hundred Call Second) information.
- 2.4 If and, when, the volume of traffic exchanged between a Frontier End Office and Onvoy switch through a Third Party Tandem Switch exceeds (a) the Centum Call Second (Hundred Call Second) busy hour equivalent of one (1) DS-1 at any time; (b) 200,000 combined minutes of use for any month; (c) 600 busy hour Centum Call Seconds (BHCCS) of use for a single month, upon the written request of either Party, the Parties shall meet promptly and consider whether to interconnect their respective networks pursuant to the Interconnection Attachment. In the event the Parties so interconnect their respective networks, the Parties shall discontinue exchanging any and all traffic through the Third Party Tandem Switch, unless the Parties otherwise agree to continue exchanging traffic but, on an overflow basis, through the Third Party Tandem Switch.
- 2.5 Nothing in this Attachment shall be read to require either Party to establish and/or maintain a subtending arrangement with a Third Party Tandem Provider.

3. Initiating Traffic Exchange Under This Attachment

- 3.1 If Onvoy determines to offer Telephone Exchange Services and wishes to exchange traffic with Frontier through a Third Party Tandem Switch in any LATA in which Frontier also offers Telephone Exchange Services, Onvoy shall provide written notice to Frontier of its request to exchange traffic through a Third Party Tandem Switch in such LATA pursuant to this Attachment.
- 3.2 The notice provided in Section 3.1 of this Attachment shall include (a) Onvoy's proposed traffic exchange activation date; (b) a forecast of Onvoy's traffic volumes conforming to Section 2 of this Attachment; and (c) such other information as Frontier shall reasonably request in order to facilitate traffic exchange under this Attachment.
- 3.3 The traffic exchange activation date in the new LATA shall be mutually agreed to by the Parties after receipt by Frontier of all necessary information as indicated in Section 3.2 of this Attachment.

4. Traffic Measurement and Billing

- 4.1 The Parties agree that they will make commercially reasonable efforts to obtain and utilize accurate and complete recordings, of any traffic exchanged between them under this Attachment, for use in billing.
- 4.2 At such time as a receiving Party has the capability, on an automated basis, to use CPN to classify traffic from the other Party, exchanged under this

Attachment, by traffic type (i.e., Reciprocal Compensation Traffic, Measured Internet Traffic, intraLATA Toll Traffic, and IntraLATA toll free service access code traffic), such receiving Party shall bill the originating Party the rate applicable to each relevant minute of traffic for which CPN is received. If the receiving Party lacks the capability, on an automated basis, to use CPN information on an automated basis to classify traffic received from the other Party by traffic type, the originating Party will supply Traffic Factor 1 and Traffic Factor 2. In any case, 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 a Party's equipment is used for a completed call, measured from the receipt of answer supervision to the receipt of disconnect supervision). Measurement of billing minutes for originating toll free service access code (e.g., 800/888/877) calls shall be in accordance with applicable Tariffs. Determination as to whether traffic is Reciprocal Compensation Traffic or Measured Internet Traffic shall be made in accordance with Paragraphs 8 and 79, and other applicable provisions, of the FCC Internet Order (including, but not limited to, in accordance with the rebuttable presumption established by the FCC Internet Order that traffic delivered to a carrier that exceeds a 3:1 ratio of terminating to originating traffic is Measured Internet Traffic, and in accordance with the process established by the FCC Internet Order for rebutting such presumption before the Commission).

- 4.3 Each Party reserves the right to audit all traffic exchanged under this Attachment, 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.
- 4.4 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.
- 4.5 If and, to the extent that, an Onvoy Customer receives V/FX Traffic exchanged under this Attachment, Onvoy shall promptly provide notice thereof to Frontier (such notice to include, without limitation, the specific telephone number(s) that the Customer uses for V/FX Traffic, as well as the LATA in which the Customer's station is actually physically located) and shall not bill Frontier Reciprocal Compensation, intercarrier compensation or any other charges for calls placed by Frontier's Customers to such Onvoy Customers.
- 4.6 In the event Onvoy provides service to any Customer who is also a third party Interconnected VoIP Provider and Onvoy chooses to combine its traffic and the third party Interconnected VoIP Provider's traffic onto Onvoy's trunk groups, Onvoy agrees to be responsible for any compensation required under this Agreement. Frontier will not provide any billing break down by OCN when traffic is commingled.

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

5.1 Reciprocal Compensation.

The Party originating Reciprocal Compensation Traffic shall compensate the terminating Party for the transport and termination of such traffic to its Customer in accordance with Section 251(b)(5) of the Act at the equal and symmetrical

rates stated in the Pricing Attachment; it being understood and agreed that because the Third Party Tandem Provider is providing the tandem functionally to both Parties, Frontier shall charge (and Onvoy shall pay Frontier) the End Office Reciprocal Compensation rate set forth in the Pricing Attachment for Reciprocal Compensation Traffic Frontier receives from Onvoy and Onvoy shall charge (and Frontier shall pay Onvoy) the End Office Reciprocal Compensation rate set forth in the Pricing Attachment for Reciprocal Compensation Traffic Onvoy receives from Frontier. No additional charges shall be assessed by the terminating Party for the transport and termination of such traffic received from the other Party; provided, however, for the avoidance of any doubt, neither Party may assess upon, or pass through to, the other Party any charges billed by (or on behalf of) the Third Party Tandem Provider. 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.

5.2 Traffic Not Subject to Reciprocal Compensation.

- 5.2.1 Reciprocal Compensation shall not apply to interstate or intrastate Exchange Access (including, without limitation, Virtual Foreign Exchange Traffic (i.e., V/FX Traffic)), Information Access, or exchange services for Exchange Access or Information Access.
- 5.2.2 Reciprocal Compensation shall not apply to Internet Traffic.
- 5.2.3 Reciprocal Compensation shall not apply to Toll Traffic, including, but not limited to, calls originated on a 1+ presubscription basis, or on a casual dialed (10XXX/101XXXX) basis.
- 5.2.4 Reciprocal Compensation shall not apply to Optional Extended Local Calling Area Traffic.
- 5.2.5 Reciprocal Compensation shall not apply to special access, private line, or any other traffic that is not switched by the terminating Party.
- 5.2.6 Reciprocal Compensation shall not apply to Tandem Transit Traffic.
- 5.2.7 Reciprocal Compensation shall not apply to Voice Information Service Traffic (as defined in Section 5 of the Additional Services Attachment).
- 5.2.8 Reciprocal Compensation shall not apply to traffic that is not subject to Reciprocal Compensation under Section 251(b)(5) of the Act.
- 5.2.9 Reciprocal Compensation shall not apply to Virtual Foreign Exchange Traffic (i.e., V/FX Traffic). As used in this Agreement, "Virtual Foreign Exchange Traffic" or "V/FX Traffic" is defined as calls in which an Onvoy Customer is assigned a telephone number with an NXX Code (as set forth in the LERG) associated with an exchange that is different than the exchange (as set forth in the LERG) associated with the actual physical location of such Customer's station. For the avoidance of any doubt, Onvoy shall pay Frontier's originating access charges for all V/FX Traffic originated by a Frontier Customer, and Onvoy shall pay Frontier's terminating access charges for all V/FX Traffic originated by an Onvoy Customer.

5.3 The Reciprocal Compensation rates (including, but not limited to, the Reciprocal Compensation per minute of use charges) billed by Onvoy to Frontier shall not

exceed the Reciprocal Compensation rates (including, but not limited to, Reciprocal Compensation per minute of use charges) billed by Frontier to Onvoy.

6. Other Types of Traffic

- 6.1 Notwithstanding any other provision of this Agreement or otherwise: (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.
- 6.2 Subject to Section 6.1 of this Attachment, IntraLATA Toll Traffic exchanged under this Attachment shall be governed by the applicable provisions of this Agreement and applicable Tariffs.
- 6.3 For any traffic originating with a third party carrier and delivered by Onvoy to Frontier, Onvoy shall pay Frontier the same amount that such third party carrier would have been obligated to pay Frontier for termination of that traffic at the location the traffic is delivered to Frontier by Onvoy.
- 6.4 Notwithstanding any provision of this Agreement or otherwise, no Interexchange Carrier (IXC) traffic may be exchanged under this Attachment.
- 6.5 Any traffic not specifically addressed in this Attachment shall be treated as required by the applicable Tariff of the Party transporting and/or terminating the traffic.

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

The following terms shall apply when either Party delivers IntraLATA toll free service access code (e.g., 800/877/888) ("8YY") calls to the other Party under this Attachment. For the purposes of this Section 7, the terms "translated" refer to those toll free service access code calls that have been queried ("translated") to an 8YY database.

- 7.1 When Onvoy delivers translated IntraLATA 8YY calls to Frontier for completion:
 - 7.1.1 by Frontier:
 - 7.1.1.1 Onvoy will provide an appropriate EMI record to Frontier; and
 - 7.1.1.2 Onvoy will bill Frontier the Onvoy's Switched Exchange Access Tariff charges and the Onvoy's applicable Tariff query charge.
 - 7.1.2 by a toll free service access code service provider in that LATA:
 - 7.1.2.1 Onvoy will provide an appropriate EMI record to Frontier and the toll free service access code service provider; and
 - 7.1.2.2 Onvoy will bill the toll free service access code service provider the Onvoy's applicable Switched Exchange Access Tariff charges and the Onvoy's applicable Tariff query charges; and

- 7.1.2.3 Frontier will bill the toll free service access code service provider Frontier's applicable Switched Exchange Access Tariff charges.
- 7.2 When Frontier performs the query and delivers translated IntraLATA 8YY calls, originated by Frontier's or another LEC's Customer for completion:
 - 7.2.1 by Onvoy:
 - 7.2.1.1 Frontier will provide an appropriate EMI record to Onvoy; and
 - 7.2.1.2 Frontier will bill Onvoy Frontier's applicable Switched Exchange Access Tariff charges and Frontier's applicable Tariff query charges.
 - 7.2.2 by a toll free service access code service provider in that LATA:
 - 7.2.2.1 Frontier will provide an appropriate EMI record to Onvoy and the toll free service access code service provider; and
 - 7.2.2.2 Frontier will bill the toll free service access code service provider Frontier's applicable Switched Exchange Access Tariff charges and Frontier's applicable Tariff query charges; and
 - 7.2.2.3 Onvoy will bill the toll free service access code service provider the Onvoy's applicable Switched Exchange Access Tariff charges.
- 7.3 Frontier will not direct untranslated toll free service access code calls to Onvoy. Onvoy will not direct untranslated toll free service access code calls to Frontier.

8. Number Resources, Rate Center Areas and Routing Points

- 8.1 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.
- 8.2 It shall be the responsibility of each Party to program and update its own switches and network systems pursuant to information provided in 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.
- 8.3 Unless otherwise required by Commission order, the Rate Center Areas will be the same for each Party. During the term of this Agreement, Onvoy shall adopt the Rate Center Area and Rate Center Points that the Commission has approved for Frontier within the LATA and Tandem serving area. Onvoy 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.
- 8.4 Onvoy will also designate a Routing Point for each assigned NXX code. Onvoy shall designate one location for each Rate Center Area in which the Onvoy 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 Onvoy will be routed in the same manner as calls to Onvoy's initial NXXs.

- 8.5 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 Onvoy's choices regarding the size of the local calling area(s) that Onvoy may establish for its Customers, which local calling areas may be larger than, smaller than, or identical to Frontier's local calling areas.

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

9.1 Scope.

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

9.2 Procedures for Providing LNP ("Local Number Portability").

The Parties will follow the LNP provisioning process recommended by the North American Numbering Council (NANC) and the Industry Numbering Council (INC), 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.

9.2.1 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.

9.2.2 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.

9.2.3 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.

9.2.4 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.

- 9.2.5 The Parties shall furnish each other with the Jurisdiction Information Parameter (JIP) in the Initial Address Message (IAM).
- 9.2.6 Where LNP is commercially available, the NXXs in the office shall be defined as portable, except as noted in Section 9.2.7, 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.
- 9.2.7 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 services; NXX 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 chocked 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.
- 9.2.8 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.

9.3 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.

9.4 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 Frontier has deployed LNP throughout its network in compliance with FCC 96-286 and other applicable FCC Regulations.

- 9.4.1 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.

9.4.2 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 9.4.

9.5 Onvoy shall submit orders to port numbers electronically using an LSR via the Frontier web Graphical User Interface ("GUI") or Electronic Data Interface ("EDI") pursuant to the instructions, business rules and guidelines set forth on the Frontier Communications website (formerly referred to as the Frontier wholesale website).

10. Good Faith Performance

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

RESALE ATTACHMENT

1. General

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

2. Use of Frontier Telecommunications Services

2.1 Frontier Telecommunications Services may be purchased by Onvoy under this Resale Attachment only for the purpose of resale by Onvoy as a Telecommunications Carrier. Frontier Telecommunications Services to be purchased by Onvoy for other purposes (including, but not limited to, Onvoy's own use) must be purchased by Onvoy pursuant to other applicable Attachments to this Agreement (if any), or separate written agreements, including, but not limited to, applicable Frontier Tariffs.

2.2 Onvoy shall not resell:

2.2.1 Residential service to persons not eligible to subscribe to such service from Frontier (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 Frontier;

2.2.3 Grandfathered or discontinued service offerings to persons not eligible to subscribe to such service offerings from Frontier; or

2.2.4 Any other Frontier service in violation of a restriction stated in this Agreement (including, but not limited to, a Frontier Tariff) that is not prohibited by Applicable Law.

2.2.5 In addition to any other actions taken by Onvoy to comply with this Section 2.2, Onvoy shall take those actions required by Applicable Law to determine the eligibility of Onvoy 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. Onvoy shall indemnify Frontier from any Claims resulting from Onvoy's failure to take such actions required by Applicable Law.

2.2.6 Frontier may perform audits to confirm Onvoy'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 Onvoy shall be subject to the same limitations that Frontier's Customers are subject to with respect to any Telecommunications Service that Frontier

grandfathers or discontinues offering. Without limiting the foregoing, except to the extent that Frontier follows a different practice for Frontier 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 Onvoy shall not be eligible to participate in any Frontier plan or program under which Frontier Customers may obtain products or services, which are not Frontier Telecommunications Services, in return for trying, agreeing to purchase, purchasing, or using Frontier Telecommunications Services.
- 2.5 In accordance with 47 CFR § 51.617(b), Frontier shall be entitled to all charges for Frontier Exchange Access services used by interexchange carriers to provide service to Onvoy Customers.

3. Availability of Frontier Telecommunications Services

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

4. Responsibility for Charges

- 4.1 Onvoy shall be responsible for and pay to Frontier all charges for any Telecommunications Services provided by Frontier or provided by persons other than Frontier and billed for by Frontier, that are ordered, activated or used by Onvoy, Onvoy Customers or any other persons, through, by means of, or in association with, Telecommunications Services provided by Frontier to Onvoy pursuant to this Resale Attachment.
- 4.2 Upon request by Onvoy, Frontier will provide for use on resold Frontier retail Telecommunications Service dial tone lines purchased by Onvoy such Frontier retail Telecommunications Service call blocking and call screening services as Frontier provides to its own end user retail Customers, where and to the extent Frontier provides such Frontier retail Telecommunications Service call blocking services to Frontier's own end user retail Customers. Onvoy understands and agrees that certain of Frontier's call blocking and call screening services are not guaranteed to block or screen all calls and that notwithstanding Onvoy's purchase of such blocking or screening services, Onvoy's end user Customers or other persons ordering, activating or using Telecommunications Services on the resold dial tone lines may complete or accept calls which Onvoy intended to block. Notwithstanding the foregoing, Onvoy shall be responsible for and shall

pay Frontier all charges for Telecommunications Services provided by Frontier or provided by persons other than Frontier and billed for by Frontier in accordance with the terms of Section 4.1 above.

5. Operations Matters

5.1 Facilities.

- 5.1.1 Frontier and its suppliers shall retain all of their right, title and interest in all facilities, equipment, software, information, and wiring used to provide Frontier Telecommunications Services.
- 5.1.2 Frontier shall have access at all reasonable times to Onvoy Customer locations for the purpose of installing, inspecting, maintaining, repairing, and removing, facilities, equipment, software, and wiring used to provide the Frontier Telecommunications Services. Onvoy shall, at Onvoy's expense, obtain any rights and authorizations necessary for such access.
- 5.1.3 Except as otherwise agreed to in writing by Frontier, Frontier shall not be responsible for the installation, inspection, repair, maintenance, or removal of facilities, equipment, software, or wiring provided by Onvoy or Onvoy Customers for use with Frontier Telecommunications Services.

5.2 Branding.

- 5.2.1 Except as stated in Section 5.2.2 of this Attachment, in providing Frontier Telecommunications Services to Onvoy, Frontier shall have the right (but not the obligation) to identify the Frontier Telecommunications Services with Frontier's trade names, trademarks and service marks ("Frontier Marks"), to the same extent that these Services are identified with Frontier's Marks when they are provided to Frontier's Customers. Any such identification of Frontier's Telecommunications Services shall not constitute the grant of a license or other right to Onvoy to use Frontier's Marks.
- 5.2.2 To the extent required by Applicable Law, upon request by Onvoy and at prices, terms and conditions to be negotiated by Onvoy and Frontier, Frontier shall provide Frontier Telecommunications Services for resale that are identified by Onvoy's trade name, or that are not identified by trade name, trademark or service mark.
- 5.2.3 If Frontier uses a third-party contractor to provide Frontier operator services or Frontier directory assistance, Onvoy will be responsible for entering into a direct contractual arrangement with the third-party contractor at Onvoy's expense (a) to obtain identification of Frontier operator services or Frontier directory assistance purchased by Onvoy for resale with Onvoy's trade name, or (b) to obtain removal of Frontier Marks from Frontier operator services or Frontier directory assistance purchased by Onvoy for resale.

6. Rates and Charges

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

7. Good Faith Performance

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

NETWORK ELEMENTS ATTACHMENT

1. General

- 1.1 Frontier shall provide to Onvoy, in accordance with this Agreement (including, but not limited to, Frontier's applicable Tariffs) and the requirements of the Federal Unbundling Rules, access to Frontier's Network Elements on an unbundled basis and in combinations (Combinations), and UNEs commingled with wholesale services ("Commingling"); provided, however, that notwithstanding any other provision of this Agreement, Frontier shall be obligated to provide access to unbundled Network Elements (UNEs), Combinations, and Commingling to Onvoy under the terms of this Agreement only to the extent required by the Federal Unbundling Rules and may decline to provide access to UNEs, Combinations, or Commingling to Onvoy to the extent that provision of such UNEs, Combinations, or Commingling is not required by the Federal Unbundling Rules.
- 1.2 Frontier shall be obligated to combine UNEs that are not already combined in Frontier's network only to the extent required by the Federal Unbundling Rules. Except as otherwise required by this Agreement and the Federal Unbundling Rules: (a) Frontier 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 already available in Frontier's network; and (b) Frontier shall have no obligation to construct, modify, or deploy facilities or equipment to offer any UNE or Combination.
- 1.3 Onvoy may use a UNE or Combination only for those purposes for which Frontier is required by the Federal Unbundling Rules to provide such UNE or Combination to Onvoy. Without limiting the foregoing, Onvoy may not access a UNE or Combination for the exclusive provision of Mobile Wireless Services or Interexchange Services. For purposes of this section, "Interexchange Services" shall have the meaning set forth in the Triennial Review Remand Order and subsequent applicable FCC orders.
 - 1.3.1 Frontier shall not be obligated to provide to Onvoy, and Onvoy shall not request from Frontier, access to a proprietary advanced intelligent network service.
- 1.4 Nothing contained in this Agreement shall be deemed to constitute an agreement by Frontier that any item identified in this Agreement as a Network Element is (i) a Network Element under the Federal Unbundling Rules, or (ii) a Network Element Frontier is required by the Federal Unbundling Rules to provide to Onvoy on an unbundled basis or in combination with other Network Elements.
- 1.5 If as the result of Onvoy Customer actions (e.g., Customer Not Ready ("CNR")), Frontier cannot complete requested work activity when a technician has been dispatched to the Onvoy Customer premises, Onvoy 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 Customer Not Ready Charge provided for in the Pricing Attachment (or, in the absence of a Customer Not Ready Charge, the Premises Visit Charge as provided in Frontier's applicable retail or wholesale Tariff or in the Pricing Attachment).

- 1.6 Absence or Cessation of Unbundling Obligation and Related Provisions. The following provisions shall apply notwithstanding any other provision of this Agreement or any Frontier Tariff or SGAT:
- 1.6.1 Discontinued Facilities.
- 1.6.1.1 Frontier may cease offering or providing Onvoy with access on an unbundled basis at rates prescribed under Section 251 of the Act to any facility that is or becomes a Discontinued Facility, whether as a stand-alone UNE, as part of a Combination, or otherwise. To the extent Frontier has not already ceased offering or providing unbundled access to a particular Discontinued Facility that is a Discontinued Facility as of the Effective Date, Frontier may cease offering or providing unbundled access to such Discontinued Facility immediately upon the Effective Date without further notice to Onvoy. Subject to Section 1.7 below, if a facility on or at any time after the Effective Date is or becomes a Discontinued Facility, Frontier, to the extent it has not already ceased providing unbundled access to such Discontinued Facility, and provided it has given at least ninety (90) days written notice of discontinuance in cases where it has not already ceased providing such access, will continue to provide unbundled access to such Discontinued Facility under the Agreement only through the effective date of the notice of discontinuance, and not beyond that date.
- 1.6.1.2 Where Frontier is permitted to cease providing a Discontinued Facility pursuant to Section 1.6.1 above and Onvoy has not submitted an LSR or ASR, as appropriate, to Frontier requesting disconnection of the Discontinued Facility and has not separately secured from Frontier an alternative arrangement to replace the Discontinued Facility, then Frontier, to the extent it has not already done so, may disconnect the subject Discontinued Facility without further notice to Onvoy. In lieu of disconnecting the subject Discontinued Facility in the foregoing circumstances, Frontier, in its sole discretion, may elect to: (a) convert the subject Discontinued Facility to an arrangement available under a Frontier access tariff (in which case month-to-month rates shall apply unless a different rate applies under an applicable special access term/volume plan or other special access tariff arrangement in which Onvoy is then enrolled), a resale arrangement, or other analogous arrangement that Frontier shall identify or has identified in writing to Onvoy, or (b) in lieu of such a conversion, reprice the subject Discontinued Facility by application of a new rate (or, in Frontier's sole discretion, by application of a surcharge to an existing rate) to be equivalent to an arrangement available under a Frontier access tariff (at month-to-month rates unless a different rate applies under an applicable special access term/volume plan or other special access tariff arrangement in which Onvoy is then enrolled), a resale arrangement, or other analogous arrangement that Frontier shall identify or has identified in

writing to Onvoy; provided, however, that Frontier may disconnect the subject Discontinued Facility (or the replacement service to which the Discontinued Facility has been converted) if Onvoy fails to pay when due any applicable new rate or surcharge billed by Frontier.

1.7 TRRO Certification and Related Provisions.

1.7.1 TRRO Certification. Before requesting unbundled access to a DS1 Loop, a DS3 Loop, DS1 Dedicated Transport, DS3 Dedicated Transport, including, but not limited to, any of the foregoing elements that constitute part of a Combination or that Onvoy seeks to convert from another wholesale service to an unbundled network element (collectively, "TRRO Certification Elements"), Onvoy must undertake a reasonably diligent inquiry and, based on that inquiry, certify that, to the best of its knowledge, Onvoy's request is consistent with the requirements of the TRRO and that Onvoy is entitled to unbundled access to the subject element pursuant to section 251(c)(3) of the Act. Onvoy shall provide such certification using the automated method that Frontier makes available for that purpose. Onvoy's reasonably diligent inquiry must include, at a minimum, consideration of any list of non-impaired UNE Wire Centers that Frontier makes or has made available to Onvoy by notice and/or by publication on Frontier's wholesale website (the "Wire Center List") and any back-up data that Frontier provides or has provided to Onvoy under a non-disclosure agreement or that is otherwise available to Onvoy.

1.7.2 Provision-then-Dispute Requirements.

1.7.2.1 Upon receiving a request from Onvoy for unbundled access to a TRRO Certification Element and the certification required by Section 1.7.1 above, and except as provided in Section 1.7.2.3 below, Frontier shall process the request in accordance with any applicable standard intervals. If Frontier wishes to challenge Onvoy's right to obtain unbundled access to the subject element pursuant to 47 U.S.C. § 251(c)(3), then (except as provided in Section 1.7.2.3 below) Frontier must provision the subject element as a UNE and then seek resolution of the dispute by the Commission or the FCC, or through such other dispute resolution process that Frontier elects to invoke under the dispute resolution provisions of this Agreement.

1.7.2.2 If a dispute pursuant to section 1.7.2.1 above is resolved in Frontier's favor, then Onvoy shall compensate Frontier for the additional charges that would apply if Onvoy had ordered the subject facility or service on a month-to-month term under Frontier's interstate special access tariff and any other applicable charges, applicable back to the date of provisioning (including, but not limited to, late payment charges for the unpaid difference between UNE and access tariff rates). The month-to-month rates shall apply until such time as Onvoy requests disconnection of the subject facility or an alternative term that Frontier offers under its interstate special access tariff for the subject facility or service.

1.7.2.2.1 Intentionally Left Blank

- 1.7.2.3 Notwithstanding any other provision of the Agreement, Frontier may reject an Onvoy order for a TRRO Certification Element without first seeking dispute resolution: (a) in any case where Onvoy's order conflicts with a provision of a Frontier Tariff, (b) in any case where Onvoy's order conflicts with a non-impaired UNE Wire Center designation set forth in a Wire Center List that Frontier has made available to Onvoy by notice and/or by publication on Frontier's wholesale website, (c) in any case where Onvoy's order conflicts with a non-impaired UNE Wire Center designation that the Commission or the FCC has ordered or approved or that has otherwise been confirmed through previous dispute resolution (regardless of whether Onvoy was a party to such dispute resolution), or (d) as otherwise permitted under the Federal Unbundling Rules (including, but not limited to, upon a determination by the Commission, the FCC, or a court of competent jurisdiction that Frontier may reject orders for TRRO Certification Elements without first seeking dispute resolution).

- 1.8 Limitation With Respect to Replacement Arrangements. Notwithstanding any other provision of this Agreement, any negotiations regarding any UNE-replacement arrangement, facility, service or the like that Frontier is not required to provide under the Federal Unbundling Rules (including without limitation any arrangement, facility, service or the like that Frontier offers under an access tariff) shall be deemed not to have been conducted pursuant to the Agreement, 47 U.S.C. § 252(a)(1), or 47 C.F.R. Part 51, and shall not be subject to arbitration or other requirements under to 47 U.S.C. § 252(b). Any reference in this Attachment to Frontier's provision of a arrangement, facility, service or the like that Frontier is not required to provide under the Federal Unbundling Rules is solely for the convenience of the Parties and shall not be construed to require or permit: (a) arbitration pursuant to 47 U.S.C. § 252(b) of the rates, terms, or conditions upon which Frontier may provide such arrangement, facility, service or the like, or (b) application of 47 U.S.C. § 252 in any other respect.

2. Frontier's Provision of Network Elements

Subject to the conditions set forth in Section 1 of this Attachment, in accordance with, but only to the extent required by, the Federal Unbundling Rules, Frontier shall provide Onvoy access to the following:

- 2.1 Loops, as set forth in Section 3 of this Attachment;
- 2.2 Line Splitting (also referred to as "Loop Sharing"), as set forth in Section 4 of this Attachment;
- 2.3 [Intentionally Left Blank];
- 2.4 Sub-Loops, as set forth in Section 6 of this Attachment;
- 2.5 Sub-Loop for Multiunit Tenant Premises Access, as set forth in Section 7 of this Attachment;
- 2.6 [Intentionally Left Blank]

- 2.7 Network Interface Device, as set forth in Section 9 of this Attachment;
- 2.8 [Intentionally Left Blank];
- 2.9 Dedicated Transport (may also be referred to as “Interoffice Transmission Facilities”) (or “IOF”), as set forth in Section 11 of this Attachment;
- 2.10 [Intentionally Left Blank];
- 2.11 Operations Support Systems, as set forth in Section 13 of this Attachment; and
- 2.12 Other UNEs in accordance with Section 14 of this Attachment.

3. Loop Transmission Types

- 3.1 Subject to the conditions set forth in Section 1 of this Attachment, Frontier shall allow Onvoy 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. Frontier shall allow Onvoy access to Loops in accordance with, but only to extent required by, the Federal Unbundling Rules. Subject to the foregoing and the provisions regarding FTTP Loops, in Section 3.5 below, and Hybrid Loops, in Section 3.6 below, the available Loop types are as set forth below:
 - 3.1.1 “2 Wire Analog Voice Grade Loop” or “Analog 2W” provides an effective 2-wire channel with 2-wire interfaces at each end that is suitable for the transport of analog Voice Grade (nominal 300 to 3000 Hz) signals and loop-start signaling. This Loop type is more fully described in Frontier Technical Reference (TR)-72565, as revised from time-to-time. If “Customer-Specified Signaling” is requested, the Loop will operate with one of the following signaling types that may be specified when the Loop is ordered: loop-start, ground-start, loop-reverse-battery, and no signaling. Customer specified signaling is more fully described in Frontier TR-72570, as revised from time-to-time. Frontier will not build new facilities or modify existing facilities except to the extent required in Section 17 of this Attachment.
 - 3.1.2 “4-Wire Analog Voice Grade Loop” or “Analog 4W” provides an effective 4-wire channel with 4-wire interfaces at each end that is suitable for the transport of analog Voice Grade (nominal 300 to 3000 Hz) signals. This Loop type will operate with one of the following signaling types that may be specified when the Loop is ordered: loop-start, ground-start, loop-reverse-battery, duplex, and no signaling. This Loop type is more fully described in Frontier TR-72570, as revised from time-to-time. Frontier will not build new facilities or modify existing facilities except to the extent required in Section 17 of this Attachment.
 - 3.1.3 “2-Wire ISDN Digital Grade Loop” or “BRI ISDN” provides a channel with 2-wire interfaces at each end that is suitable for the transport of 160 kbps digital services using the ISDN 2B1Q line code. This Loop type is more fully described in American National Standards Institute (ANSI) T1.601-1998 and Frontier 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. Frontier will provide loop extension equipment only upon request. A separate charge will apply for loop extension equipment. The 2-Wire ISDN Digital Grade Loop is

available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, Onvoy may order a 2-Wire Digital Compatible Loop using 2-wire ISDN ordering codes to provide similar capability. Frontier will not build new facilities or modify existing facilities except to the extent required in Section 17 of this Attachment.

- 3.1.4 “2-Wire ADSL-Compatible Loop” or “ADSL 2W” provides a channel with 2-wire interfaces at each end that is suitable for the transport of digital signals up to 8 Mbps toward the Customer and up to 1 Mbps from the Customer. This Loop type is more fully described in Frontier 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. Frontier will not build new facilities or modify existing facilities except to the extent required in Sections 3.2 or 17 of this Attachment. The upstream and downstream ADSL power spectral density masks and dc line power limits in Frontier TR 72575, as revised from time-to-time, must be met. The 2-Wire ADSL-Compatible Loop is available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, Onvoy may order a 2-Wire Digital Compatible Loop using 2-wire ADSL ordering codes to provide similar capability.
- 3.1.5 “2-Wire HDSL-Compatible Loop” or “HDSL 2W” consists of a single 2-wire non-loaded, twisted copper pair that meets the carrier serving area design criteria. This Loop type is more fully described in Frontier TR-72575, as revised from time-to-time. The HDSL power spectral density mask and dc line power limits referenced in Frontier TR 72575, as revised from time-to-time, must be met. 2-Wire HDSL-Compatible Loops will be provided only where existing facilities are available and can meet applicable specifications. The 2-Wire HDSL-Compatible Loop is available only in the former Bell Atlantic Service areas. In the former GTE Service Areas only, Onvoy may order a 2-Wire Digital Compatible Loop using 2-Wire HDSL ordering codes to provide similar capability. Frontier will not build new facilities or modify existing facilities except to the extent required in Sections 3.2 or 17 of this Attachment.
- 3.1.6 “4-Wire HDSL-Compatible Loop” or “HDSL 4W” consists of two 2-wire non-loaded, twisted copper pairs that meet the carrier serving area design criteria. This Loop type is more fully described in Frontier TR-72575, as revised from time-to-time. The HDSL power spectral density mask and dc line power limits referenced in Frontier TR 72575, as revised from time-to-time, must be met. 4-Wire HDSL-Compatible Loops will be provided only where existing facilities are available and can meet applicable specifications. Frontier will not build new facilities or modify existing facilities except to the extent required in Sections 3.2 or 17 of this Attachment.
- 3.1.7 “2-Wire IDSL-Compatible Metallic Loop” consists of a single 2-wire non-loaded, twisted copper pair that meets revised resistance design criteria. This Loop is intended to be used with very-low band symmetric DSL systems that meet the Class 1 signal power limits and other criteria in the T1E1.4 loop spectrum management standard (T1E1.4/2000-002R3) and are not compatible with 2B1Q 160 kbps ISDN transport systems. The actual data rate achieved depends upon the performance of CLEC-provided modems with the electrical

characteristics associated with the loop. This Loop type is more fully described in T1E1.4/2000-002R3, as revised from time-to-time. This loop cannot be provided via UDLC. The 2-Wire IDSL-Compatible Metallic Loop is available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, Onvoy may order a 2-Wire Digital Compatible Loop using ISDN ordering codes to provide similar capability. Frontier will not build new facilities or modify existing facilities except to the extent required in Sections 3.2 or 17 of this Attachment.

- 3.1.8 “2-Wire SDSL-Compatible Loop”, is intended to be used with low band symmetric DSL systems that meet the Class 2 signal power limits and other criteria in the T1E1.4 loop spectrum management standard (T1E1.4/2000-002R3). This Loop consists of a single 2-wire non-loaded, twisted copper pair that meets Class 2 length limit in T1E1.4/2000-002R3. The data rate achieved depends on the performance of the CLEC-provided modems with the electrical characteristics associated with the loop. This Loop type is more fully described in T1E1.4/2000-002R3, as revised from time-to-time. The 2-Wire SDSL-Compatible Loop is available only in the former Bell Atlantic Service Areas. In the former GTE Service Areas only, Onvoy may order a 2-Wire Digital Compatible Loop to provide similar capability. SDSL-compatible local loops will be provided only where facilities are available and can meet applicable specifications. Frontier will not build new facilities or modify existing facilities except to the extent required in Sections 3.2 or 17 of this Attachment.
- 3.1.9 “4-Wire 56 kbps Loop” is a 4-wire Loop that provides a transmission path that is suitable for the transport of digital data at a synchronous rate of 56 kbps in opposite directions on such Loop simultaneously. A 4-Wire 56 kbps Loop consists of two pairs of non-loaded copper wires with no intermediate electronics or it consists of universal digital loop carrier with 56 kbps DDS dataport transport capability. Frontier shall provide 4-Wire 56 kbps Loops to Onvoy in accordance with, and subject to, the technical specifications set forth in Frontier TR-72575, as revised from time-to-time. Frontier will not build new facilities or modify existing facilities except to the extent required in Section 17 of this Attachment.
- 3.1.10 “DS1 Loops” provide a digital transmission channel suitable for the transport of 1.544 Mbps digital signals. This Loop type is more fully described in Frontier TR 72575, as revised from time to time. The DS1 Loop includes the electronics necessary to provide the DS1 transmission rate. If, at the requested installation date, the electronics necessary to provide the DS1 transmission rate are not available for the requested DS1 Loop, then Frontier will not install new electronics except to the extent required in Section 17 of this Attachment. Frontier will not build new facilities and will not modify existing facilities except to the extent required in Section 17 of this Attachment. If the electronics necessary to provide Clear Channel (B8ZS) signaling are at the requested installation date available for a requested DS1 Loop, upon request by Onvoy, the DS1 Loop will be furnished with Clear Channel (B8ZS) signaling. Frontier will not install new electronics to furnish Clear Channel (B8ZS) signaling. For purposes of provisions implementing any right Frontier may have to cease providing unbundled access to DS1-capacity Loops under the TRRO pursuant to

Section 1 of this Attachment, the term "DS1 Loop" further includes any type of Loop described in Section 3.1 of the Network Elements Attachment that provides a digital transmission channel suitable for the transport of 1.544 Mbps digital signals, regardless of whether the subject Loop meets the specific definition of a DS1 Loop set forth in this section.

3.1.11 "DS3 Loops" will support the transmission of isochronous bipolar serial data at a rate of 44.736 Mbps (the equivalent of 28 DS1 channels). This Loop type is more fully described in Frontier TR 72575, as revised from time to time. The DS3 Loop includes the electronics necessary to provide the DS3 transmission rate. If, at the requested installation date, the electronics necessary to provide the DS3 transmission rate are not available for the requested DS3 Loop, then Frontier will not install new electronics except to the extent required in Section 17 of this Attachment. Frontier will not build new facilities and will not modify existing facilities except to the extent required in Section 17 of this Attachment. For purposes of provisions implementing any right Frontier may have to cease providing unbundled access to DS3-capacity loops under the TRRO pursuant to Section 1 of this Attachment, the term "DS3 Loop" further includes any type of Loop described in Section 3.1 of the Network Elements Attachment that provides a digital transmission channel suitable for the transport of 44.736 Mbps digital signals, regardless of whether the subject Loop meets the specific definition of a DS3 Loop set forth in this section.

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

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

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

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

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

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

3.1.12.6 a 2 W Digital Designed Metallic Loop with Frontier-placed ISDN loop extension electronics;

3.1.12.7 a 2W SDSL Loop with an option to remove bridged tap; and

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

xDSL loop qualification information to help identify those loops that meet applicable technical characteristics for compatibility with xDSL Services that the CLEC may wish to offer to its end user Customers. Onvoy must access Frontier's mechanized loop qualification system through the use of the on-line computer interface at <http://wholesale.frontier.com/wholesale/> in advance of submitting a valid electronic transmittal Service Order for xDSL service arrangements. The loop qualification information provided by Frontier gives Onvoy the ability to determine loop composition and loop length, and may provide other loop characteristics, when present, that may indicate incompatibility with xDSL Services such as load coils or Digital Loop Carrier. Information provided by the mechanized loop qualification system also indicates whether loop conditioning may be necessary. It is the responsibility of Onvoy to evaluate the loop qualification information provided by Frontier and determine whether a loop meets Onvoy requirements for xDSL Service, including determining whether conditioning should be ordered, prior to submitting an Order.

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

existing Loop facility onto an alternate existing xDSL Compatible Loop facility serving the same location. Frontier performs Line and Station Transfers in accordance with the procedures developed in the DSL Collaborative in the State of New York, NY PSC Case 00-C-0127. Standard intervals do not apply when Frontier performs a Line and Station Transfer, and additional charges shall apply as set forth in the Pricing Attachment.

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

- 3.2.9 If Onvoy requires a change in scheduling, it must contact Frontier to issue a supplement to the original Service Order. If Onvoy cancels the request for conditioning after a loop analysis has been completed but prior to the commencement of construction work, Onvoy shall compensate Frontier for an Engineering Work Order charge as set forth in the Pricing Attachment. If Onvoy cancels the request for conditioning after the loop analysis has been completed and after construction work has started or is complete, Onvoy shall compensate Frontier for an Engineering Work Order charge as well as the charges associated with the conditioning tasks performed as set forth in the Pricing Attachment.
- 3.3 Conversion of Live Telephone Exchange Service to Analog 2W Unbundled Local Loops (Analog 2W Loops).
- 3.3.1 The following coordination procedures shall apply to “live” cutovers of Frontier Customers who are converting their Telephone Exchange Services to Onvoy Telephone Exchange Services provisioned over Analog 2W Loops to be provided by Frontier to Onvoy:
- 3.3.1.1 Coordinated cutover charges shall apply to conversions of live Telephone Exchange Services to Analog 2W Loops. When an outside dispatch is required to perform a conversion, additional charges may apply. If Onvoy does not request a coordinated cutover, Frontier will process Onvoy’s order as a new installation subject to applicable standard provisioning intervals.
- 3.3.1.2 Onvoy shall request Analog 2W Loops for coordinated cutover from Frontier by delivering to Frontier a valid electronic Local Service Request (“LSR”). Frontier agrees to accept from Onvoy 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 Frontier Regional CLEC Control Center (“RCCC”) and subject to the availability of Frontier’s work force. In the event that Frontier’s work force is not available, Onvoy and Frontier shall mutually agree on a New Conversion Time, as defined below. Onvoy shall designate the Scheduled Conversion Time subject to Frontier standard provisioning intervals as stated in the Frontier CLEC Handbook, as may be revised from time to time. Within three (3) Business Days of Frontier’s receipt of such valid LSR, or as otherwise required by the Federal Unbundling Rules, Frontier shall provide Onvoy the scheduled due date for conversion of the Analog 2W Loops covered by such LSR.
- 3.3.1.3 Onvoy shall provide dial tone at the Onvoy collocation site at least forty-eight (48) hours prior to the Scheduled Conversion Time.
- 3.3.1.4 Either Party may contact the other Party to negotiate a new Scheduled Conversion Time (the “New Conversion Time”); provided, however, that each Party shall use commercially reasonable efforts to provide four (4) business hours’ advance notice to the other Party of its request for a New

Conversion Time. Any Scheduled Conversion Time or New Conversion Time may not be rescheduled more than one (1) time in a Business Day, and any two New Conversion Times for a particular Analog 2W Loop shall differ by at least eight (8) hours, unless otherwise agreed to by the Parties.

3.3.1.5 If the New Conversion Time is more than one (1) business hour from the original Scheduled Conversion Time or from the previous New Conversion Time, the Party requesting such New Conversion Time shall be subject to the following:

3.3.1.5.1 If Frontier requests to reschedule outside of the one (1) hour time frame above, the Analog 2W Loops Service Order Charge for the original Scheduled Conversion Time or the previous New Conversion Time shall be credited upon request from Onvoy; and

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

3.3.1.6 If Onvoy 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 Frontier is not available or ready to perform the conversion within thirty (30) minutes of the Scheduled Conversion Time or New Conversion Time, as applicable, Frontier and Onvoy will reschedule and, upon request from Onvoy, Frontier will credit the Analog 2W Loop Service Order Charge for the original Scheduled Conversion Time.

3.3.1.7 The standard time interval expected from disconnection of a live Telephone Exchange Service to the connection of the Analog 2W Loops to Onvoy is fifteen (15) minutes per Analog 2W Loop for all orders consisting of twenty (20) Analog 2W Loops or less. Orders involving more than twenty (20) Loops will require a negotiated interval.

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

3.3.1.9 If Onvoy requires Analog 2W Loop conversions outside of the regularly scheduled Frontier RCCC operating hours, such conversions shall be separately negotiated. Additional charges (e.g. overtime labor charges) may apply for desired dates and times outside of regularly scheduled RCCC operating hours.

3.4 [Intentionally Left Blank].

3.5 FTTP Loops.

- 3.5.1 New Builds. Notwithstanding any other provision of the Agreement or any Frontier Tariff, Onvoy shall not be entitled to obtain access to a FTTP Loop, or any segment thereof, on an unbundled basis when Frontier deploys such a Loop to the Customer premises of an end user that has not been served by any Frontier Loop other than a FTTP Loop.
- 3.5.2 Overbuilds. Notwithstanding any other provision of the Agreement or any Frontier Tariff, if (a) Frontier deploys an FTTP Loop to replace a copper Loop previously used to serve a particular end user's customer premises, and (b) Frontier retires that copper Loop and there are no other available copper Loops or Hybrid Loops for Onvoy's provision of a voice grade service to that end user's customer premises, then in accordance with, but only to the extent required by, the Federal Unbundling Rules, Frontier shall provide Onvoy with nondiscriminatory access on an unbundled basis to a transmission path capable of providing DS0 voice grade service to that end user's customer premises.
- 3.6 Hybrid Loops.
- 3.6.1 Packet Switched Features, Functions, and Capabilities. Notwithstanding any other provision of this Agreement or any Frontier Tariff or SGAT, Onvoy shall not be entitled to obtain access to the Packet Switched features, functions, or capabilities of any Hybrid Loop on an unbundled basis.
- 3.6.2 Broadband Services. Subject to the conditions set forth in Section 1 of this Attachment, when Onvoy seeks access to a Hybrid Loop for the provision of "broadband services", as such term is defined by the FCC, then in accordance with, but only to the extent required by, the Federal Unbundling Rules, Frontier shall provide Onvoy with unbundled access to the existing time division multiplexing features, functions, and capabilities of that Hybrid Loop, including DS1 or DS3 capacity (but only where impairment has been found to exist, which, for the avoidance of any doubt, does not include instances where Frontier is not required to provide unbundled access to a DS1 Loop or a DS3 Loop under Section 1 of this Attachment) to establish a complete time division multiplexing transmission path between the main distribution frame (or equivalent) in a Frontier End Office serving an end user to the demarcation point at the end user's Customer premises. This access includes access to all features, functions, and capabilities of the Hybrid Loop that are not used to transmit packetized information.
- 3.6.3 Narrowband Services. Subject to the conditions set forth in Section 1 of this Attachment, when Onvoy seeks access to a Hybrid Loop for the provision to its Customer of "narrowband services", as such term is defined by the FCC, then in accordance with, but only to the extent required by, the Federal Unbundling Rules, Frontier shall, in its sole discretion, either (a) provide access to a spare home-run copper Loop serving that Customer on an unbundled basis, or (b) provide access, on an unbundled basis, to a DS0 voice-grade transmission path between the main distribution frame (or equivalent) in the end user's serving End Office and the end user's Customer premises, using time division multiplexing technology.

- 3.6.4 IDLC Hybrid Loops and Loops Provisioned via Loop Concentrator. Subject to the conditions set forth in Section 1 of this Attachment, if Onvoy requests, in order to provide narrowband services, unbundling of a 2 wire analog or 4 wire analog Loop currently provisioned via Integrated Digital Loop Carrier (over a Hybrid Loop) or via Remote Switching technology deployed as a Loop concentrator Frontier shall, in accordance with but only to the extent required by the Federal Unbundling Rules, provide Onvoy unbundled access to a Loop capable of voice-grade service to the end user Customer served by the Hybrid Loop.
- 3.6.4.1 Frontier will endeavor to provide Onvoy with an existing copper Loop or a Loop served by existing Universal Digital Loop Carrier ("UDLC"). Standard recurring and non-recurring Loop charges will apply. In addition, a non-recurring charge will apply whenever a line and station transfer is performed.
- 3.6.4.2 If neither a copper Loop nor a Loop served by UDLC is available, Frontier shall, upon request of Onvoy, provide unbundled access to a DS0 voice-grade transmission path between the main distribution frame (or equivalent) in the end user's serving End Office and the end user's Customer premises via such technically feasible alternative that Frontier in its sole discretion may elect to employ. In addition to the rates and charges payable in connection with any unbundled Loop so provisioned by Frontier, Onvoy shall be responsible for any of the following charges that apply in the event the technically feasible option involves construction, installation, or modification of facilities: (a) an engineering query charge for preparation of a price quote; (b) upon Onvoy's submission of a firm construction order, an engineering work order nonrecurring charge; and (c) construction charges, as set forth in the price quote. If the order is cancelled by Onvoy after construction work has started, Onvoy shall be responsible for cancellation charges and a pro-rated charge for construction work performed prior to the cancellation.
- 3.6.4.3 Frontier may exclude its performance in connection with providing unbundled Loops pursuant to this Section 3.6.4 from standard provisioning intervals and performance measures and remedies, if any, contained in the Agreement or elsewhere.

4. Line Splitting (also referred to as "Loop Sharing")

- 4.1 Line Splitting is a process in which one CLEC provides narrowband voice service over the low frequency portion of an unbundled copper Loop obtained from Frontier (such CLEC may be referred to as the "VLEC") and a second CLEC provides digital subscriber line service over the high frequency portion of that same Loop (such CLEC may be referred to as the "DLEC"). Line Splitting is accomplished through the use of a splitter collocated at the Frontier central office where the Loop terminates into a distribution frame or its equivalent.
- 4.2 Subject to the conditions set forth in Section 1 of this Attachment, Onvoy may engage in Line Splitting, in accordance with this Section 4 and the rates and

charges provided for in the Pricing Attachment. Frontier shall provide access to Line Splitting in accordance with, but only to the extent required by, the Federal Unbundling Rules.

- 4.3 Any Line Splitting between Onvoy and another CLEC shall be accomplished by prior negotiated arrangement between Onvoy and the other CLEC. Onvoy shall give Frontier written notice of this arrangement through the Frontier Communications Local Service Customer Profile Form (formerly referred to as the Frontier Wholesale Local Service Customer Profile Form) on the Frontier Communications website (formerly referred to as the Frontier wholesale website), or such other electronic notice mechanism that Frontier may make available, at least thirty (30) days prior to placing an order for a Line Splitting arrangement with such other CLEC. The other CLEC must have an interconnection agreement with Frontier that permits it to engage in Line Splitting with Onvoy. The VLEC shall be responsible for all rates and charges associated with the subject Loop as well as rates and charges associated with the DLEC's use of the high frequency portion of the Loop, including, but not limited to, service order charges, provisioning and installation charges, central office wiring, loop qualification charges, and OSS charges.
- 4.4 In order to facilitate Onvoy's engaging in Line Splitting pursuant to this Section 4, Onvoy may order for use in a Line Splitting arrangement, those Network Elements, Combinations, Collocation arrangements, services, facilities, equipment and arrangements, appropriate for Line Splitting, that are offered to Onvoy by Frontier under the other sections of this Agreement. Such Network Elements, Combinations, Collocation arrangements, services, facilities, equipment and arrangements, will be provided to Onvoy in accordance with, and subject to, the rates and charges and other provisions of this Agreement and Frontier's applicable Tariffs. Frontier shall be obligated to provide Network Elements, Combinations, Collocation arrangements, services, facilities, equipment and arrangements, for Line Splitting only to the extent required by the Federal Unbundling Rules.
- 4.5 Onvoy and/or the other participating CLEC shall provide any splitters and/or Digital Subscriber Line Access Multiplexers used in a Line Splitting arrangement.
- 4.6 The standard provisioning interval for the Line Splitting arrangement shall be as set out in the Frontier Product Interval Guide; provided that the standard provisioning interval for a Line Splitting arrangement shall not exceed the shortest of the following intervals: (1) the standard provisioning interval for a Line Splitting arrangement if stated in an applicable Frontier Tariff; or, (2) the standard provisioning interval for a Line Splitting arrangement, if any, established in accordance with the Federal Unbundling Rules. The standard provisioning interval for a Line Splitting arrangement shall commence only after any required engineering and conditioning tasks have been completed. The standard provisioning interval shall not apply where a Line and Station Transfer is performed.
- 4.7 Frontier shall not be liable for any claims, damages, penalties, liabilities or the like of any kind for disruptions to either Onvoy's or the other CLEC's respective voice or data services over a Line Splitting arrangement.

5. [This Section Intentionally Left Blank]

6. Sub-Loop

Subject to the conditions set forth in Section 1 of this Attachment and upon request by

Onvoy, Frontier shall allow Onvoy to access Sub-Loops unbundled from local switching and transport, in accordance with the terms of this Section 6 and the rates and charges set forth in the Pricing Attachment. Frontier shall allow Onvoy access to Sub-Loops in accordance with, but only to the extent required by, the Federal Unbundling Rules. The available Sub-Loop types are as set forth below.

6.1 Unbundled Sub-Loop Arrangement– Distribution (USLA).

Subject to the conditions set forth in Section 1 of this Attachment and upon request by Onvoy, Frontier shall provide Onvoy with access to a Sub-Loop Distribution Facility in accordance with, and subject to, the terms and provisions of this Section 6.1, the rates set forth in the Pricing Attachment, and the rates, terms and conditions set forth in Frontier's applicable Tariffs. Frontier shall provide Onvoy with access to a Sub-Loop Distribution Facility in accordance with, but only to the extent required by, the Federal Unbundling Rules.

- 6.1.1 Onvoy may request that Frontier reactivate (if available) an unused drop and NID or provide Onvoy with access to a drop and NID that, at the time of Onvoy's request, Frontier is using to provide service to the Customer (as such term is hereinafter defined).
- 6.1.2 Upon site-specific request, Onvoy may obtain access to the Sub-Loop Distribution Facility at a technically feasible access point located near a Frontier remote terminal equipment enclosure at the rates and charges provided for in the Pricing Attachment. It is not technically feasible to access the Sub-Loop Distribution Facility if a technician must access the facility by removing a splice case to reach the wiring within the cable. Onvoy may obtain access to a Sub-Loop Distribution Facility through any method required by the Federal Unbundling Rules, in addition to existing methods such as from a Telecommunications outside plant interconnection cabinet (TOPIC) or, if Onvoy 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 Onvoy at such terminal. If Onvoy obtains access to a Sub-Loop Distribution Facility from a TOPIC, Onvoy shall install a TOPIC on an easement or Right of Way obtained by Onvoy within 100 feet of the Frontier FDI to which such Sub-Loop Distribution Facility is connected. A TOPIC must comply with applicable industry standards. Subject to the terms of applicable Frontier easements, Frontier shall furnish and place an interconnecting cable between a Frontier FDI and an Onvoy TOPIC and Frontier shall install a termination block within such TOPIC. Frontier shall retain title to and maintain the interconnecting cable. Frontier shall not be responsible for building, maintaining or servicing the TOPIC and shall not provide any power that might be required by Onvoy for any of Onvoy's electronics in the TOPIC. Onvoy shall provide any easement, Right of Way or trenching or supporting structure required for any portion of an interconnecting cable that runs beyond a Frontier easement.
- 6.1.3 Onvoy may request from Frontier by submitting a loop make-up engineering query to Frontier, and Frontier shall provide to Onvoy, the following information regarding a Sub-Loop Distribution Facility that serves an identified Customer: the Sub-Loop Distribution Facility's length and gauge; whether the 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 from a TOPIC, Onvoy must first request that Frontier connect the Frontier FDI to which the Sub-Loop Distribution Facility is connected to an Onvoy TOPIC. To make such a request, Onvoy must submit to Frontier an application (a "Sub-Loop Distribution Facility Interconnection Application") that identifies the FDI at which Onvoy 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 Onvoy's demand for access to Sub-Loop Distribution Facilities at the requested FDI. Onvoy must submit the application fee set forth in the Pricing Attachment attached hereto and Frontier's applicable Tariffs (a "Sub-Loop Distribution Facility Application Fee") with Sub-Loop Distribution Facility Interconnection Application. Onvoy must submit Sub-Loop Interconnection Applications to:
- Onvoy's Account Manager
- 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, Frontier shall provide to Onvoy a work order that describes the work that Frontier must perform to provide such access (a "Sub-Loop Distribution Facility Work Order") and a statement of the cost of such work (a "Sub-Loop Distribution Facility Interconnection Cost Statement").
- 6.1.6 Onvoy shall pay to Frontier fifty percent (50%) of the cost set forth in a Sub-Loop Distribution Facility Interconnection Cost Statement within sixty (60) days of Onvoy's receipt of such statement and the associated Sub-Loop Distribution Facility Work Order, and Frontier shall not be obligated to perform any of the work set forth in such order until Frontier has received such payment. A Sub-Loop Distribution Facility Interconnection Application shall be deemed to have been withdrawn if Onvoy breaches its payment obligation under this Section. Upon Frontier's completion of the work that Frontier must perform to provide Onvoy with access to a Sub-Loop Distribution Facility, Frontier shall bill Onvoy, and Onvoy shall pay to Frontier, the balance of the cost set forth in the Sub-Loop Distribution Facility Interconnection Cost Statement for such access.
- 6.1.7 After Frontier has completed the installation of the interconnecting cable to an Onvoy TOPIC and Onvoy has paid the full cost of such installation, Onvoy can request the connection of Frontier Sub-Loop Distribution Facilities to the Onvoy TOPIC. At the same time, Onvoy shall advise Frontier of the services that Onvoy 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. Onvoy shall run any crosswires within the TOPIC.
- 6.1.8 If Onvoy requests that Frontier reactivate an unused drop and NID, then Onvoy shall provide dial tone (or its DSL equivalent) on the

Onvoy side of the applicable Frontier FDI at least twenty-four (24) hours before the due date. On the due date, a Frontier technician will run the appropriate cross connection to connect the Frontier Sub-Loop Distribution Facility to the Onvoy dial tone or equivalent from the TOPIC. If Onvoy requests that Frontier provide Onvoy with access to a Sub-Loop Distribution Facility that, at the time of Onvoy's request, Frontier is using to provide service to a Customer, then, after Onvoy has looped two interconnecting pairs through the TOPIC and at least twenty four (24) hours before the due date, a Frontier technician shall crosswire the dial tone from the Frontier central office through the Frontier side of the TOPIC and back out again to the Frontier FDI and Frontier Sub-Loop Distribution Facility using the "loop through" approach. On the due date, Onvoy shall disconnect Frontier's dial tone, crosswire its dial tone to the Sub-Loop Distribution Facility and submit Onvoy's LNP request.

6.1.9 Frontier will not provide access to a Sub-Loop Distribution Facility if Frontier 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 Frontier-provided line sharing or such Customer first disconnects the service that utilizes derived channel technology.

6.1.10 Frontier shall provide Onvoy with access to a Sub-Loop Distribution Facility in accordance with negotiated intervals

6.1.11 Frontier shall repair and maintain a Sub-Loop Distribution Facility at the request of Onvoy and subject to the time and material rates set forth in Pricing Attachment and the rates, terms and conditions of Frontier's applicable Tariffs. Onvoy accepts responsibility for initial trouble isolation for Sub-Loop Distribution Facilities and providing Frontier with appropriate dispatch information based on its test results. If (a) Onvoy reports to Frontier a Customer trouble, (b) Onvoy requests a dispatch, (c) Frontier dispatches a technician, and (d) such trouble was not caused by Frontier Sub-Loop Distribution Facility facilities or equipment in whole or in part, Onvoy shall pay Frontier the charges set forth in the Pricing Attachment and Frontier's applicable Tariffs for time associated with said dispatch. In addition, these charges also apply when the Customer contact as designated by Onvoy is not available at the appointed time. If as the result of Onvoy instructions, Frontier is erroneously requested to dispatch to a site on Frontier company premises ("dispatch in"), the charges set forth in Pricing Attachment and Frontier's applicable Tariffs will be assessed per occurrence to Onvoy by Frontier. If as the result of Onvoy instructions, Frontier is erroneously requested to dispatch to a site outside of Frontier company premises ("dispatch out"), the charges set forth in Pricing Attachment and Frontier's applicable Tariffs will be assessed per occurrence to Onvoy by Frontier.

6.2 [Intentionally Left Blank].

6.3 Collocation in Remote Terminals.

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

7. Sub-Loop for Multiunit Tenant Premises Access

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8. [Intentionally Left Blank]

9. Network Interface Device

- 9.1 Subject to the conditions set forth in Section 1 of this Attachment and upon request by Onvoy, Frontier shall permit Onvoy to connect an Onvoy Loop to the Inside Wiring of a Customer's premises through the use of a Frontier NID in accordance with this Section 9 and the rates and charges provided in the Pricing Attachment. Frontier shall provide Onvoy with access to NIDs in accordance with, but only to the extent required by, the Federal Unbundling Rules. Onvoy may access a Frontier NID either by means of a connection (but only if the use of such connection is technically feasible) from an adjoining Onvoy NID deployed by Onvoy or, if an entrance module is available in the Frontier NID, by connecting an Onvoy Loop to the Frontier NID. When necessary, Frontier 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 Onvoy access, remove, disconnect or in any other way rearrange Frontier's Loop facilities from Frontier's NIDs, enclosures, or protectors.
- 9.3 In no case shall Onvoy access, remove, disconnect or in any other way rearrange, a Customer's Inside Wiring from Frontier'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 Onvoy remove or disconnect ground wires from Frontier's NIDs, enclosures, or protectors.
- 9.5 In no case shall Onvoy remove or disconnect NID modules, protectors, or terminals from Frontier'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 Onvoy is connecting an Onvoy-provided Loop to the Inside Wiring of a Customer's premises through the Customer's side of the Frontier NID, Onvoy does not need to submit a request to Frontier and Frontier shall not charge Onvoy for access to the Frontier NID. In such instances, Onvoy shall comply with the provisions of Sections 9.2 through 9.7 of this Attachment and shall access the Customer's Inside Wire in the manner set forth in Section 9.8 of this Attachment.
- 9.8 Due to the wide variety of NIDs utilized by Frontier (based on Customer size and environmental considerations), Onvoy 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, Onvoy may remove the Inside Wiring

from the Customer's side of the Frontier NID and connect that Inside Wiring to Onvoy's NID.

9.8.2 Where an adequate length of Inside Wiring is not present or environmental conditions do not permit, Onvoy may enter the Customer side of the Frontier NID enclosure for the purpose of removing the Inside Wiring from the terminals of Frontier'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 Frontier 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 Frontier NID.

9.8.3 Onvoy may request Frontier 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. Onvoy, its agent, the building owner or the Customer). If Onvoy 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. Onvoy, its agent, the building owner or the Customer).

10. [This Section Intentionally Left Blank]

11. Dedicated Transport

11.1 Subject to the conditions set forth in Section 1 of this Attachment, where facilities are available, at Onvoy's request, Frontier shall provide Onvoy with Dedicated Transport unbundled from other Network Elements at the rates set forth in the Pricing Attachment. Frontier shall provide Onvoy with such Dedicated Transport in accordance with, but only to the extent required by, the Federal Unbundling Rules. Except as provided in Section 17 below, Frontier will not install new electronics, and Frontier will not build new facilities. For the avoidance of any doubt, notwithstanding any other provision of this Agreement, Frontier shall not be required to provide, and Onvoy shall not request or obtain, unbundled access to shared (or common) transport, or any other interoffice transport facility that does not meet the definition of Dedicated Transport.

11.2 If and, to the extent that, Onvoy has purchased (or purchases) transport from Frontier under a Frontier Tariff or otherwise, and Onvoy has a right under the Federal Unbundling Rules to convert (and wishes to convert) such transport to unbundled Dedicated Transport under this Agreement, it shall give Frontier written notice of such request (including, without limitation, through submission of ASRs if Frontier so requests) and provide to Frontier all information (including, without limitation, a listing of the specific circuits in question) that Frontier reasonably requires to effectuate such conversion. In the case of any such conversion, Onvoy shall pay any and all conversion charges (e.g., non-recurring charges), as well as any and all termination liabilities, minimum service period charges and like charges in accordance with Frontier's applicable Tariffs. If the transport to be converted comprises a portion of a High Capacity EEL (as defined in Section 16.2.1 below), the applicable provisions of Section 16 below shall apply.

12. [This Section Intentionally Left Blank]

13. Operations Support Systems

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

14. Availability of Other Network Elements on an Unbundled Basis

- 14.1 Any request by Onvoy for access to a Frontier Network Element that is not already available and that Frontier is required by the Federal Unbundling Rules to provide on an unbundled basis shall be treated as a Network Element Bona Fide Request pursuant to Section 14.3, of this Attachment. Onvoy shall provide Frontier access to its Network Elements as mutually agreed by the Parties or as required by the Federal Unbundling Rules.
- 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 the Federal Unbundling Rules.
- 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 the Federal Unbundling Rules.
 - 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 the Federal Unbundling Rules, 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) Onvoy reports to Frontier a Customer trouble, (b) Onvoy requests a dispatch, (c) Frontier dispatches a technician, and (d) such trouble was not caused by Frontier's facilities or equipment in whole or in part, then Onvoy shall pay Frontier 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 Onvoy is not available at the appointed time. Onvoy accepts responsibility for initial trouble isolation and providing Frontier with appropriate dispatch information based on its test results. If, as the result of Onvoy instructions, Frontier is erroneously requested to dispatch to a site on Frontier company premises ("dispatch in"), a charge set forth in the Pricing Attachment will be assessed per occurrence to Onvoy by Frontier. If as the result of Onvoy instructions, Frontier is erroneously requested to dispatch to a site outside of Frontier company premises ("dispatch out"), a charge set forth in the Pricing Attachment will be assessed per occurrence to Onvoy by Frontier. Frontier agrees to respond to Onvoy 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, Commingling, and Conversions

- 16.1 Subject to and without limiting the conditions set forth in Section 1 of this Attachment:
 - 16.1.1 Frontier will not prohibit the commingling of a Qualifying UNE with Qualifying Wholesale Services, but only to the extent and so long as commingling and provision of such Network Element (or combination of Network Elements) is required by the Federal Unbundling Rules. Moreover, to the extent and so long as required by the Federal Unbundling Rules, Frontier shall, upon request of Onvoy, perform the functions necessary to commingle Qualifying UNEs with Qualifying

Wholesale Services. The rates, terms and conditions of the applicable access Tariff or separate non-251 agreement will apply to the Qualifying Wholesale Services, and the rates, terms and conditions of the Agreement or the Frontier UNE Tariff, as applicable, will apply to the Qualifying UNEs; provided, however, that a nonrecurring charge will apply for each UNE circuit that is part of a commingled arrangement, as set forth in the Pricing Attachment. In addition, if any commingling requested by Onvoy requires Frontier to perform physical work that Frontier is required to perform under the Federal Unbundling Rules, then Frontier's standard charges for such work shall apply or, in the absence of a standard charge, a fee calculated using Frontier's standard time and materials rates shall apply until such time as a standard charge is established pursuant to the terms set forth in the Pricing Attachment.

- 16.1.2 Ratcheting, i.e., a pricing mechanism that involves billing a single circuit at multiple rates to develop a single, blended rate, shall not be required. UNEs that are commingled with Wholesale Services are not included in the shared use provisions of the applicable Tariff, and are therefore not eligible for adjustment of charges under such provisions. Frontier may exclude its performance in connection with the provisioning of commingled facilities and services from standard provisioning intervals and from performance measures and remedies, if any, contained in the Agreement or elsewhere.
- 16.1.3 Limitation on Section 16.1. Section 16.1 is intended only to address the Parties' rights and obligations as to combining and/or commingling of UNEs that Frontier is already required to provide to Onvoy under the Agreement and the Federal Unbundling Rules. Nothing contained in Section 16.1 shall be deemed to limit any right of Frontier under the Agreement to cease providing a facility that is or becomes a Discontinued Facility.
- 16.2 Service Eligibility Criteria for Certain Combinations and Commingled Facilities and Services. Subject to the conditions set forth in Sections 1 and 16.1 of this Attachment:
 - 16.2.1 Frontier shall not be obligated to provide:
 - 16.2.1.1 an unbundled DS1 Loop in combination with unbundled DS1 or DS3 Dedicated Transport, or commingled with DS1 or DS3 access services;
 - 16.2.1.2 an unbundled DS3 Loop in combination with unbundled DS3 Dedicated Transport, or commingled with DS3 access services;
 - 16.2.1.3 unbundled DS1 Dedicated Transport commingled with DS1 channel termination access service;
 - 16.2.1.4 unbundled DS3 Dedicated Transport commingled with DS1 channel termination access service; or
 - 16.2.1.5 unbundled DS3 Dedicated Transport commingled with DS3 channel termination service,

(individually and collectively "High Capacity EELs") except to the extent

Frontier is required by the Federal Unbundling Rules to do so, and then not unless and until Onvoy, using an ASR, certifies to Frontier that each combined or commingled DS1 circuit or DS1 equivalent circuit of a High Capacity EEL satisfies each of the service eligibility criteria on a circuit-by-circuit basis as set forth in 47 C.F.R. § 51.318. Onvoy must remain in compliance with said service eligibility criteria for so long as Onvoy continues to receive the aforementioned combined or commingled facilities and/or services from Frontier and Onvoy shall immediately notify Frontier at such time as a certification ceases to be accurate. The service eligibility criteria shall be applied to each combined or commingled DS1 circuit or DS1 equivalent circuit of a High Capacity EEL. If any combined or commingled DS1 circuit or DS1 equivalent circuit of a High Capacity EEL is, becomes, or is subsequently determined to be, noncompliant, the noncompliant High Capacity EEL circuit will be treated as described in Section 16.2.2 below. The foregoing shall apply whether the High Capacity EEL circuits in question are being provisioned to establish a new circuit or to convert an existing wholesale service, or any part thereof, to unbundled network elements. For existing High Capacity EEL circuits, Onvoy, within thirty (30) days of the Effective Date to the extent it has not already done so prior to the Effective Date of this Agreement, must re-certify, using an ASR, that each DS1 circuit or DS1 equivalent circuit satisfies the service eligibility criteria on a circuit-by-circuit basis as set forth in 47 C.F.R. § 51.318. Any existing High Capacity EEL circuits that Onvoy leased from Frontier as of the Effective Date of this Agreement that Onvoy fails to re-certify as required by this Section by the end of such 30-day period shall be treated as a non-compliant circuit as described under Section 16.2.2 below effective as of the Effective Date of this Agreement.

- 16.2.2 Without limiting any other right Frontier may have to cease providing circuits that are or become Discontinued Facilities, if a High Capacity EEL circuit is or becomes noncompliant as described in this Section 16.2 and Onvoy has not submitted an LSR or ASR, as appropriate, to Frontier requesting disconnection of the noncompliant facility and has not separately secured from Frontier an alternative arrangement to replace the noncompliant High Capacity EEL circuit, then Frontier, to the extent it has not already done so prior to execution of this Agreement, shall reprice the subject High Capacity EEL circuit (or portion thereof that had been previously billed at UNE rates), effective beginning on the date on which the circuit became non-compliant by application of a new rate (or, in Frontier's sole discretion, by application of a surcharge to an existing rate) to be equivalent to an analogous access service or other analogous arrangement that Frontier shall identify in a written notice to Onvoy.
- 16.2.3 Each certification to be provided by Onvoy pursuant to Section 16.2.1 above must contain the following information for each DS1 circuit or DS1 equivalent: (a) the local number assigned to each DS1 circuit or DS1 equivalent; (b) the local numbers assigned to each DS3 circuit (must have 28 local numbers assigned to it); (c) the date each circuit was established in the 9-1-1/E9-1-1 database; (d) the collocation termination connecting facility assignment for each circuit, showing that the collocation arrangement was established pursuant to 47 U.S.C. § 251(c)(6), and not under a federal collocation tariff; (e) the interconnection trunk circuit identification number that serves each DS1 circuit. There must be one such identification number per every

24 DS1 circuits; and (f) the local switch that serves each DS1 circuit. When submitting an ASR for a circuit, this information must be contained in the Remarks section of the ASR, unless provisions are made to populate other fields on the ASR to capture this information.

- 16.2.4 The charges for conversions are as specified in the Pricing Attachment and apply for each circuit converted.
- 16.2.5 All ASR-driven conversion requests will result in a change in circuit identification (circuit ID) from access to UNE or UNE to access. If such change in circuit ID requires that the affected circuit(s) be retagged, then a retag fee per circuit will apply as specified in the Pricing Attachment.
- 16.2.6 All requests for conversions will be handled in accordance with Frontier's conversion guidelines. Each request will be handled as a project and will be excluded from all ordering and provisioning metrics.
- 16.3 Once per calendar year, Frontier may obtain and pay for an independent auditor to audit Onvoy's compliance in all material respects with the service eligibility criteria applicable to High Capacity EELs. Any such audit shall be performed in accordance with the standards established by the American Institute for Certified Public Accountants, and may include, at Frontier's discretion, the examination of a sample selected in accordance with the independent auditor's judgment. To the extent the independent auditor's report concludes that Onvoy failed to comply with the service eligibility criteria, then (without limiting Frontier's rights under Section 16.2.2 above) Onvoy must convert all noncompliant circuits to the appropriate service, true up any difference in payments, make the correct payments on a going-forward basis, and reimburse Frontier for the cost of the independent auditor within thirty (30) days after receiving a statement of such costs from Frontier. Should the independent auditor confirm Onvoy's compliance with the service eligibility criteria, then Onvoy shall provide to the independent auditor for its verification a statement of Onvoy's out-of-pocket costs of complying with any requests of the independent auditor, and Frontier shall, within thirty (30) days of the date on which Onvoy submits such costs to the auditor, reimburse Onvoy for its out-of-pocket costs verified by the auditor. Onvoy shall maintain records adequate to support its compliance with the service eligibility criteria for each DS1 or DS1 equivalent circuit for at least eighteen (18) months after the service arrangement in question is terminated.

17. Routine Network Modifications

- 17.1 General Conditions. In accordance with, but only to the extent required by, the Federal Unbundling Rules, and subject to the conditions set forth in Section 1 of this Attachment:
 - 17.1.1 Frontier shall make such routine network modifications, at the rates and charges set forth in the Pricing Attachment, as are necessary to permit access by Onvoy to the Loop, Dedicated Transport facilities available under the Agreement (including DS1 Loops and DS1 Dedicated Transport, and DS3 Loops and DS3 Dedicated Transport), where the facility has already been constructed. Routine network modifications applicable to Loops or Transport are those modifications that Frontier regularly undertakes for its own Customers and may include, but are not limited to: rearranging or splicing of in-place cable at existing splice points; adding an equipment case; adding a doubler or repeater; installing a repeater shelf; deploying a new multiplexer or

reconfiguring an existing multiplexer; accessing manholes; and deploying bucket trucks to reach aerial cable. Routine network modifications do not include the construction of a new Loop or new Transport facilities, trenching, the pulling of cable, the installation of new aerial, buried, or underground cable for a requesting telecommunications carrier, the placement of new cable, securing permits or rights-of-way, or constructing and/or placing new manholes or conduits. Frontier shall not be required to build any time division multiplexing (TDM) capability into new packet-based networks or into existing packet-based networks that do not already have TDM capability. Frontier shall not be required to perform any routine network modifications to any facility that is or becomes a Discontinued Facility.

- 17.2 Performance Plans. Frontier may exclude its performance in connection with the provisioning of Loops or Transport for which routine network modifications are performed from standard provisioning intervals and performance measures and remedies, if any, contained in the Agreement or elsewhere.
- 17.3 Nothing contained in this Section 17 shall be deemed: (a) to establish any obligation of Frontier to provide on an unbundled basis under the Federal Unbundling Rules any facility that this Agreement does not otherwise require Frontier to provide on an unbundled basis under the Federal Unbundling Rules, (b) to obligate Frontier to provide on an unbundled basis under the Federal Unbundling Rules, for any period of time not required under the Federal Unbundling Rules, access to any Discontinued Facility, or (c) to limit any right of Frontier under the Agreement, any Frontier Tariff or SGAT, or otherwise, to cease providing a Discontinued Facility.

18. Rates and Charges

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

19. Good Faith Performance

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

COLLOCATION ATTACHMENT

1. Definitions

- 1.1 Space - For the purposes of this agreement Space shall refer to either partitioned (caged) or unpartitioned space (cageless), unless specified otherwise and mutually agreed upon. An enclosed secure area, designated by Frontier within a Frontier Central Office, of a size and dimension specified by Onvoy and agreed to by Frontier. Partitioned Space is subject to a minimum size requirement of one-hundred (100) square feet of assignable space or such lesser amount agreed to by both parties. Frontier shall design and construct at Onvoy's expense, subject to Onvoy's pre-approval of the price, a cage or room to establish a clear division between Frontier's and Onvoy's area, and for purposes of securing the space for Onvoy's equipment. Un-partitioned space will have a minimum size of one equipment bay, which shall be deemed the equivalent of 15 sq. feet.
- 1.2 Cable Space - Any passage or opening in, on, under, over or through the Central Office cable structure (e.g., electrical metallic tubing, cable vault or alternate splicing chamber, etc.) required to bring cable to the Space.
- 1.3 Conduit Space - Any reinforced passage or opening in, on, under, over or through the ground between the feeder route conduit system ("Manhole "0") and cable vault location capable of containing communications facilities, and includes: cable entrance facilities; main conduit; ducts; inner ducts; gas traps; underground dips such as short sections of conduit under roadway, driveways, parking lots and similar conduit installations that are required to bring the Onvoy provided fiber optic feeder cable into the Frontier Central Office.
- 1.4 Onvoy's Facilities - The telecommunications cables and equipment owned or leased by Onvoy, whether installed by Frontier or Onvoy that are for the sole use of Onvoy in connection with equipment installed within its Space.
- 1.5 Design and Construction Work - All work by Frontier, including but not limited to, space design and preparation, the rearrangement of existing facilities, design and construction of Partitioned Space enclosure, design and placement of required support structure or any other activity required to accommodate the installation of Onvoy's facilities in the Frontier space(s) covered under this Agreement. Similar work required by Onvoy after initial installation solely because of the existence of Onvoy's Facilities shall be referred to as "Additional Design and Construction," and shall be at Onvoy's expense, subject to Onvoy's pre-approval of the price of the work to be performed.
- 1.6 Cross Connect Fee - A monthly fee charged to Onvoy to compensate Frontier for the cable connection from Frontier's facilities to the point of termination for Onvoy's collocation facilities.
- 1.7 Manhole - An underground enclosure where conduit(s) are terminated and which provides ready access to conduit system.
- 1.8 Other CLECs - Any person, corporation, or other legal entity other than Onvoy herein, to whom Frontier has extended or hereafter shall extend an authorization to occupy its Central Office(s) or conduit system(s).

- 1.9 Post-Installation Inspection - The work activities performed to visually observe Onvoy's equipment and cable facilities and equipment installation during and shortly after the completion of the installation of such equipment and facilities to determine that all occupancies conform to the standards required by this Agreement as set forth in Frontier's Safety Manual.

2. Use of Space

- 2.1 The sole use of Space by Onvoy is to place equipment owned or leased, installed, operated and maintained by Onvoy, which interconnects with Frontier facilities for the exchange of Local Traffic or for access to UNEs. Onvoy may not locate its switching equipment in the Space. Onvoy may not interconnect equipment or facilities in its Space with equipment or facilities within another CLEC's Space without the specific written consent of Frontier which permission shall not be unreasonably withheld. Any violation of this paragraph shall be deemed a material breach of this Agreement.
- 2.2 Onvoy may provide or make available to any third-party space within Onvoy's Partitioned Space only upon prior written notice to Frontier and only if Onvoy remains ultimately responsible for any such third-party action and the third-party Onvoy enters into applicable agreements, including a collocation agreement with Frontier which will be substantially similar to this Agreement but without charge for physical real estate space within Onvoy's Partitioned Space. Any violation of this paragraph shall be deemed a material breach of this Agreement.
- 2.3 Onvoy may place in Space the equipment which meets the standards specified in Frontier's Safety Manual, or compliant with NEBS standards (which ever holds the higher standard). In addition, Onvoy, as specified in Frontier's Safety Manual, is also permitted to place in Partitioned Space ancillary equipment such as cross-connect frames, as well as storage cabinets and work surfaces (e.g., tables). To help ensure the availability of sufficient space for all Onvoys, Onvoy may order for office communications within the Space from Frontier, business message rate service under Frontier's applicable tariffs. Onvoy will provide, install and maintain in Space any repeaters, which may be necessary as a result of the physical distance between Space and the Central Office terminations of Frontier facilities and services. Onvoy's equipment and installation of Onvoy's equipment must comply with all applicable Federal, State, and Local environmental, health and safety requirements (hereafter "EHS requirements"), as well as Frontier's Policies and Practices relating to fire, safety, health, environmental, and network safeguards as set forth in Frontier's Safety Manual. Onvoy agrees its equipment and installation activities will not materially impact Frontier's services or facilities. Onvoy shall bear all cost of modifying and maintaining its equipment and the Space as required to comply with the EHS requirements, and policies and practices set forth in Frontier's Safety Manual.

3. Occupancy

- 3.1 Occupancy for all spaces will be granted upon completion of the Design and Construction Work including "cut down" of Frontier Cabling at the Point of Termination based on the requested Optical Fiber, DS-3, DS-1, and voice grade Interconnections identified by Onvoy in the applicable Application for Collocation. Frontier will provide occupancy of the space(s) at each affected Central Office on time as specified in the specific Collocation Schedule for that particular Central Office. However, if Frontier fails, for any reason beyond its reasonable control, to provide occupancy of the space(s) at the specified time(s), Frontier shall not be liable to Onvoy for such delay. In the event that Frontier is delayed in providing

occupancy to Onvoy for any reason other than the acts or omissions of Onvoy, Onvoy shall not be obliged to pay the license, power or house service fees for such space(s) under this Agreement until the date Frontier provides occupancy to Onvoy. Except for Force Majeure events or the acts or omissions of Onvoy, in the event of delay in Frontier's provision of the Space continues for sixty (60) days after the time set forth in the Collocation Schedule, Onvoy shall have the option of canceling such collocation request. Onvoy shall pay Frontier, charges it has incurred in preparing Onvoy's Space up to the point of cancellation.

- 3.2 Frontier shall have the right, for good cause shown, upon a minimum of four (4) months' notice, to reclaim any Space, Cable Space or Conduit Space, if necessary, in order to fulfill its obligations under the applicable law to provide telecommunications services to its End Users. In the event of such reclamation, Frontier shall use its best efforts to provide Onvoy with alternative space, if feasible. In the event of a dispute under this Agreement, the dispute shall be resolved per the Dispute Resolution Section outlined in the General Terms and Conditions. Provided Onvoy has brought such dispute in good faith, Frontier shall take no action to remove Onvoy before resolution of the dispute.
- 3.3 Frontier shall have the right to terminate use of any Space and associated Cable or Conduit Space(s) where the Central Office premises becomes the subject of a taking by eminent authority having such power. Frontier shall notify Onvoy that a taking by eminent domain of Frontier premises may occur or is contemplated for those facilities where Onvoy has an interest under this Agreement. Frontier shall also provide Onvoy with written notice of the outcome of such eminent domain procedure and identify the schedule by which Onvoy must proceed to have Onvoy's equipment or property removed from the Space(s) and associated Cable, and Conduit Space. Onvoy shall have no claim against Frontier for any relocation expenses, any part of any award that may be made for such taking or value of any unexpired initial term or Renewal Periods that results from a termination by Frontier under this provision, or any loss of business from full or partial interruption or interference due to any termination. However, nothing herein shall be construed as preventing Onvoy from making its own claim against the eminent authority ordering the taking of the Central Office premises.
- 3.4 Onvoy may terminate the use of any Space or portion thereof; Partitioned Space must be relinquished in twenty (20) square feet increments and Cageless Space must be relinquished in one (1) bay increments. Cable and Conduit Space, D.C. Power and Emergency A.C. Power described on the Collocation Application may be reduced or relinquished by giving ninety (90) days prior written notice to Frontier. However, any remaining Partitioned Space licensed under this Agreement may not be less than one-hundred (100) square feet, unless a lesser amount was originally occupied or agreed to by both parties. Any remaining Cageless Space licensed under this agreement, must be no less than one bay. Onvoy is responsible for the costs of such partial termination.
- 3.5 The term of the occupancy of the collocated space will coincide with the term of this Agreement.

4. Procedures

- 4.1 Application for Occupancy - Onvoy shall complete a written application for occupancy of any Space, Cable Space or Conduit Space.
 - 4.1.1 Onvoy must provide Frontier, along with completed applications described above, an appropriate and applicable application fee for each

Central Office Space requested. This amount will be charged against the price set forth in the Pricing Attachment for administration, engineering, design and construction related to a Onvoy application (the "Price"). Frontier will process applications for occupancy on a first-come, first-served basis as determined through the receipt of the application fee. Upon receipt of Onvoy's first application fees, Frontier will make available to Onvoy any Frontier-specific documentation required as indicated.

4.2 Pre-Construction Survey and Design and Construction

- 4.2.1 Frontier will conduct a Pre-Construction Survey for each Onvoy request for Space, Cable Space, Conduit Space and power for which occupancy is requested to determine the availability of such spaces to accommodate Onvoy's facilities. In determining the availability of power and space in Frontier's conduit system and Central Office(s), Frontier will consider, and give preference to, its reasonable present and foreseeable needs for such power and space in order to fulfill its obligations to provide its tariffed services to its End Users.
- 4.2.2 Frontier will notify Onvoy whether or not the request can be met. If space in the Central Office at issue is available, Frontier will provide a Collocation Schedule to Onvoy.
- 4.2.3 Onvoy shall have thirty (30) calendar days from the receipt of a Collocation Schedule to pay the total amount of the Price. The Estimated Interval for Turnover of Space(s) will run from the payment by Onvoy of the Price.
- 4.2.4 Frontier shall design and construct at Onvoy's expense, subject to Onvoy's pre-approval of the Price as set forth in Appendix A, a cage or room space, as applicable, to establish a clear division between Frontier's or another CLEC's area and Onvoy's area, and for purposes of securing the space for Onvoy's equipment. Frontier reserves the right to partition its equipment at its own expense from Onvoy's Space.
- 4.2.5 Frontier shall designate all spaces to be occupied by Onvoy's Facilities under this Agreement.
- 4.2.6 In the event Frontier determines that Frontier's or any other entity's cable facilities in Conduit Space or Cable Space or Frontier's Central Office equipment needs rearrangement to accommodate the facilities of Onvoy, Frontier will include these costs in the Price. Frontier will make reasonable efforts to minimize the cost of such rearrangements. Onvoy agrees to meet with Frontier on an as needed basis to review the Design and Construction Work plans and schedules for the Space, and installation of Onvoy's equipment within its Space.

4.3 Acceptance and Turnover of Space(s)

- 4.3.1 Frontier will notify Onvoy in writing of the completion of the Design and Construction Work.
- 4.3.2 Prior to beginning installation work or occupancy, Onvoy must sign the Design and Construction Completion Notice applicable to the Frontier Central Office at issue indicating acceptance of the Design and

Construction Work as specified in each Collocation Schedule. Onvoy access to the Spaces will be provided only after the execution of the Design and Construction Completion Notice.

- 4.3.3 Onvoy is responsible for procuring all cables from Manhole "0" to the Space, including fiber optic cable into the Central Office cable vault, and within cable support structures between the cable vault and the Space.

4.4 Temporary Staging Area

- 4.4.1 Frontier commits to providing Onvoy with access to temporary staging areas and other Central Office building facilities necessary for delivery, installation, replacement or removal work for equipment and facilities located or to be located within Onvoy's Space provided such access does not unreasonably interfere with Frontier's operations. Before beginning any such activity, Onvoy agrees to obtain Frontier's written approval of its proposed work scheduling in order to coordinate use of all necessary temporary staging areas and other building facilities. Frontier may request additional information before granting approval and may require minor scheduling changes. Frontier's approval of scheduling will not unreasonably delay work and its approval for the use of temporary staging areas and other building facilities by Onvoy will not be unreasonably withheld.
- 4.4.2 During any use of Frontier's facilities by Onvoy, its employees, agents or contractors, Onvoy is responsible for protecting Frontier's equipment, facilities and personnel within the staging areas and along the staging route. Onvoy will use its best efforts to store equipment and materials within the collocation space when work is not in progress (e.g., overnight). Interim storage of equipment and materials overnight will be permitted in the staging area(s) with Frontier's prior written consent. However, Onvoy shall bear all risk of loss for Onvoy's equipment and materials whether stored within or outside of the space, except to the extent resulting from the gross negligence of Frontier or its employees. Onvoy will meet all EHS requirements, and all Frontier fire, safety, security, environmental and housekeeping requirements as set forth in Frontier's Safety Manual. Frontier may revise Frontier's Safety Manual from time to time in its discretion for application to all of Frontier's facilities, and will provide copies of any revisions to Onvoy. Onvoy will comply with Frontier's Safety Manual as revised. The temporary staging area will be vacated and delivered to Frontier in a broom-clean condition upon completion of Onvoy's installation work.

4.5 Inspections of Onvoy's Facilities

- 4.5.1 Frontier has the right to inspect the completed installation of Onvoy's equipment and facilities. Onvoy shall have the right to be present at such inspection.
- 4.5.2 Frontier reserves the right to make subsequent inspections (of any part or all) of Onvoy's equipment and facilities occupying Space(s) and associated Cable Space and Conduit Space.
- 4.5.3 If Onvoy is found to be in violation of Frontier's requirements for construction in or use of the Premises, then Onvoy shall pay the reasonable costs of the inspection and shall have a reasonable period of

time to bring its facilities within Frontier's requirements. In the event of an emergency, Frontier will provide Onvoy a post-inspection report detailing the reasons for the emergency and the results of the inspection.

5. Fees and Payment Terms

- 5.1 Upon request for Space, Onvoy must provide Frontier with an application fee per Appendix A prior to the commencement of any activity.
- 5.2 Onvoy shall pay to Frontier at the specified time the monthly fees set forth in Appendix A. Failure to make such payment constitutes a material breach of this Agreement.
- 5.3 Billing for the fee(s), other than Design and Construction Work charges, delineated in Appendix A will commence on the Occupancy Dates set forth on the Collocation Application.
- 5.4 Onvoy shall reimburse Frontier for all reasonable repair or restoration costs incurred by Frontier associated with damage or destruction caused by Onvoy's personnel, Onvoy's agents or Onvoy's suppliers/contractors or Onvoy's visitors.

6. Intentionally Left Blank

7. Installation and Maintenance

7.1 Specifications

- 7.1.1 Onvoy's facilities shall be placed, maintained, relocated or removed in accordance with the applicable requirements and specifications of the current editions of the National Electrical Code (NEC), the National Electrical Safety Code (NESC) and rules and regulations of the Occupational Safety and Health Act (OSHA) and the Environmental Protection Agency (EPA) and any governing authority having jurisdiction, including state counterparts to OSHA and EPA. All Onvoy entrance facilities, splices and equipment must comply with EHS requirements, and Frontier's Policies and Practices, as set forth in Frontier's Safety Manual. Where a difference in specifications may exist, the more stringent shall apply.
- 7.1.2 Onvoy's facilities shall not physically, electronically, or inductively interfere with any of Frontier's or Other CLEC's or tenant's pre-existing facilities. In adding additional facilities, Onvoy and Frontier agree to cooperate with each other to avoid interference with Frontier or any other CLEC's or tenant's facilities. Despite such efforts, in the event Onvoy's facilities interfere with Frontier or any other CLEC's or tenant's facilities, the Parties shall work together in good faith to correct the interference.
- 7.1.3 While many of the standards and technical requirements for Onvoy's cable, equipment and facilities are set forth in Section 7.1.1 above, Frontier reserves the right to reasonably specify the type of cable, equipment and construction standards reasonably required in situations not otherwise covered in this Agreement. In such cases, Frontier will furnish to Onvoy written material which will specify and explain the required construction. If Onvoy disagrees with Frontier's explanation, Frontier agrees to meet in good faith to determine alternative equipment or construction standards that would be mutually acceptable.

- 7.1.4 Frontier and Onvoy will jointly determine the length of cable needed to reach from Manhole "0" to Onvoy's Space. Special arrangements will be agreed upon to meet unusual conditions. Added or special rearrangements requested by Onvoy will result in additional charges to Onvoy. All maintenance of fiber optic cables will be performed by Onvoy and/or vendors employed by Onvoy at Onvoy's expense. All installation, restoration and maintenance work on Onvoy's facilities between Manhole "0" and the Space will be performed by Onvoy and/or vendors employed by Onvoy at Onvoy's expense. This work will be performed in a timely and efficient manner. Ten (10) days prior to such maintenance, Onvoy shall provide Frontier notice that maintenance will occur and inform Frontier of the maintenance schedule. Onvoy shall be accompanied by a qualified Frontier representative in all Manhole "0" to Onvoy's Space locations at Onvoy's expense.

7.2 Entrance Facilities

- 7.2.1 Manhole "0" - Frontier reserves the right to prohibit all equipment and facilities, other than cable, from its entrance manholes. No splicing will be permitted in Manhole "0", the Frontier Cable vault or any location other than the Space. Onvoy must provide a length of underground fiber optic cable in Manhole "0" specified by Frontier of sufficient length to be pulled through the Central Office conduit and the Central Office cable vault and into the Space, without the need for splicing. Onvoy is responsible for the placement of the fiber optic facility within Manhole "0", and all work performed in or near the Manhole must be done in accordance with EHS requirements, and Frontier's policies as set forth in Frontier's Safety Manual. This installation shall be coordinated with and inspected by Frontier. Onvoy shall be accompanied by a qualified Frontier representative in all Manhole locations at Onvoy's expense. Onvoy shall notify Frontier's Network Operations Center of its intention to enter a Frontier Manhole "0" with no less than forty-eight (48) hours' advance notice informing Frontier of the Manhole "0" involved, the anticipated time and duration of entry and the names of entering employees. All maintenance work on Onvoy's fiber optic cables will be performed by Onvoy and/or vendors employed by Onvoy at Onvoy's expense. Ten (10) days prior to such maintenance, Onvoy shall provide Frontier notice that maintenance will occur and inform Frontier of the maintenance schedule.
- 7.2.2 Conduit Space - Onvoy and/or vendors employed by Onvoy will install the fiber optic cable provided by Onvoy in the Conduit Space at Onvoy's expense. Onvoy, at its expense, shall be accompanied by a qualified Frontier representative during all fiber optic cable installations involving Conduit Space. Onvoy will be required to provide a good faith three-year forecast for planning and duct allocation purposes. Frontier will consider any future requests for additional facilities based upon the availability of such facilities at the time the request is made. Frontier may provide shared conduit with dedicated inner duct. Onvoy will not be permitted to reserve space in the Central Office conduit. If new conduit is required, Frontier will negotiate with Onvoy to enter into a further agreement to address the specific location. Frontier reserves the right to manage its own Central Office conduit requirements and to reserve vacant space for reasonable facility additions planned for its primary use.

- 7.2.3 Cable Space - Central Office Cable Vault - Frontier will provide space for installing electrical metallic tubing ("EMT") within the Frontier cable vault. Where reasonably deemed necessary by Frontier, pull boxes and/or metallic flexible tubing will be installed to allow a secured and continuous path. These facilities will be installed by Frontier and/or vendors employed by Frontier at the expense of Onvoy. A separate EMT conduit will be installed for each CLEC with no more than one CLEC occupying a single EMT. Frontier will identify all Onvoy entrance facilities accordingly. Onvoy and/or vendors employed by Onvoy will install the Onvoy-provided fiber within the EMT conduit at the expense of Onvoy. Onvoy shall be accompanied by a qualified Frontier representative in all fiber optic cable installations involving EMT conduit cable vault locations at Onvoy's expense. To avoid unnecessary reinforcements or rearrangements, Onvoy agrees to size the fiber optic facilities to meet three-year forecasted demand, where feasible.
- 7.2.4 Cable Space-Central Office Risers and Cable Racks - Frontier will provide space for installing EMT between the Frontier cable vault and the Space. Where reasonably deemed necessary by Frontier, all boxes and/or metallic flexible tubing will be installed to allow a secured and continuous path. These facilities will be installed by Frontier and/or vendors employed by Frontier at the expense of Onvoy with no more than one CLEC occupying a single EMT. Onvoy and/or vendors employed by Onvoy will install the Onvoy-provided fiber optic cable in the conduit between the cable vault and the Space at the expense of Onvoy. Onvoy shall be accompanied by a qualified Frontier representative in all fiber optic cable installations involving Cable Space at Onvoy's expense. Fiber cables must comply with EHS requirements and Frontier Policies and Practices relating to fire, safety, health, environmental and network safeguards as set forth in Frontier's Safety Manual. Fiber cable sheaths must be adequately grounded within the Space to the nearest practicable Central Office ground.
- 7.2.5 Power - Frontier will provide power for Onvoy's equipment, pursuant to charges set forth in the Pricing Attachment. At Onvoy's expense, Frontier and/or vendors employed by Frontier shall install the equipment needed to deliver power from the D.C. Power Board to the Space and a ten-position ground bar shall be connected to the closest practicable Central Office ground. The D.C. Power plant will be subject to the normal voltage reductions common to battery plants occurring during commercial power failures. Where available the D.C. voltage for the Space will return to the nominal voltage level concurrent with, or prior to, restoration of a nominal voltage level for Frontier's own equipment once the back-up generator system is operational and placed back on-line,. Should Onvoy's power requirements increase to the point that Frontier must purchase additional power plant to meet their demands, Onvoy shall be responsible for compensating Frontier for the cost to purchase and install such additional plant. However, in the event that Frontier or other CLECs also have a need for additional power requirements to be supplied by such additional plant, the purchase and installation costs of such plant shall be allocated on a pro rata basis, based upon the parties' need for and use of such additional plant. The Collocation Application shall be amended accordingly. If emergency A.C. Power is available, and if Onvoy requests, Frontier shall provide such power to Onvoy, pursuant to the Collocation Application. Upon Onvoy's request, Frontier will investigate the feasibility of providing Protected A.C. Power. If

Protected A.C. Power is available, Frontier shall provide such power to Onvoy, pursuant to the Collocation Application. Onvoy shall also have the right to supply its own battery back-up power within the Partitioned Space, subject to Frontier's approval of the necessary equipment, which approval shall not unreasonably be withheld. Any battery back-up power supplied by Onvoy shall be installed, operated, and maintained in accordance with Frontier's Safety Manual.

- 7.2.6 All Collocation Space - Frontier is responsible for providing Space in accordance with this Attachment. Onvoy will properly ground the fiber cable within the Space to the nearest practicable Central Office ground. To avoid safety hazards, H Taps and C Taps are required connections for power leads and power distribution. Either fusion or mechanical splicing is acceptable for optics. Onvoy will be responsible for accepting delivery, installation and maintenance of its equipment within the Space. Onvoy may not construct improvements or make alterations or repairs to the Space without the prior written approval of Frontier, which Frontier will not unreasonably withhold.
- 7.2.7 Point of Termination - Frontier will designate DSX-3 and DSX-1 panel positions on DSX frames and distribution block locations on Frontier MDF as the Point of Termination for associated COAX, ABAM and analog cables extending from Space and used for interface with the Frontier network. Frontier and/or vendors employed by Frontier will provide, install and repair at Onvoy's expense, all cables, racks and Central Office termination equipment necessary to provide the interface required for connection to the Frontier network on the Frontier side of the Space. Onvoy will pay any costs incurred by Frontier whenever Frontier personnel are required to identify a trouble as being on Onvoy's side of the Point of Termination. Frontier will not perform maintenance on equipment on Onvoy's side of the Point of Termination.
- 7.2.8 Non-Compliant Installations - If at any time Frontier reasonably determines that either the equipment or the installation does not meet the requirements outlined in this Agreement and Onvoy fails to correct any non-compliance with these standards within twenty (20) Business Days after written notice to Onvoy, Frontier may have the equipment removed or the condition corrected at Onvoy's expense. If, during the installation phase, Frontier reasonably determines any Onvoy activities or equipment are unsafe, non-standard or in violation of any applicable Frontier requirements, or fire, safety, environmental or policy set forth in Frontier's Safety Manual, Frontier has the right to immediately stop the work or place it on hold for no longer than reasonably necessary to address the situation. Frontier must notify Onvoy of the stoppage and Frontier's basis for doing so. However, when such conditions pose an immediate threat to the safety of Frontier's employees, interfere with the performance of Frontier's service obligations, or pose an immediate threat to the physical security or integrity of the conduit system or the cable facilities of Frontier, Frontier will utilize its reasonable efforts to immediately notify Onvoy, but may perform such work and/or take such action that Frontier deems necessary without prior notice to Onvoy. The reasonable cost of said work and/or actions shall be borne by Onvoy. Frontier reserves the right, after giving Onvoy sixty (60) calendar days' notice, to require the removal of products, facilities and equipment reasonably determined by Frontier to be no longer in compliance with EHS requirements, NEBS and Frontier safety standards. Onvoy shall

within such sixty (60) day period, remove such products, facilities and equipment from its Partitioned Space, or otherwise bring its facilities into compliance.

7.2.9 Onvoy agrees to abide by all Frontier Security policies, procedures and practices, and all applicable Federal, State and Local environmental, health, safety and security requirements, for non-Frontier employees with access to Frontier Central Offices. Any violation of this Section shall be deemed a material breach.

7.2.9.1 Onvoy and its employees, agents or representatives shall take reasonable and prudent steps to ensure the adequate protection of Frontier property, equipment and services.

7.2.9.2 Onvoy will supply Frontier Security with a list of its employees who require access. Prior to supplying the list, Onvoy will perform a background check of each individual on the list to determine whether the individual has a criminal record. Onvoy will provide Frontier Security with information regarding the criminal record of any individual on the list, and Frontier Security may in its sole discretion exclude any individual with a criminal record. Frontier Security may require certain additional information to ensure positive identification of such individuals.

7.2.9.3 Frontier Security will issue non-employee identification cards for each Onvoy employee listed in accordance with Section 7.2.9.2 and Section 7.2.9.12 who will require frequent or regular access. Identification cards will not be issued to Onvoy's vendor or contracted installer. Onvoy's vendor or contracted installer shall be given access into the Frontier location housing Onvoy's Space and escorted to Onvoy's Space by an authorized Onvoy employee with a proper identification card. Identification cards must be worn and openly displayed at all times, while in any Frontier location housing Onvoy's Space. Onvoy will not be granted access without displaying an identification card. Onvoy is responsible for notifying Frontier Security immediately, both verbally by calling 585-777-7773 and in writing to 111 Field St. Rochester, NY 14620, of any employee on the access list that no longer requires said access. Onvoy must notify Frontier Security immediately in the event any listed employee's employment is terminated, by calling 585-777-7773, which is staffed twenty-four (24) hours a day seven (7) days a week. Onvoy is responsible for the collection and return, to Frontier Security, of ID cards of employees removed from the list. Onvoy is responsible for returning all ID cards, to Frontier Security, upon termination of this Agreement.

7.2.9.4 Onvoy's employees are restricted to a specific access route, designated by Frontier Security, from the designated Central Office exterior door to the Space. Onvoy's employees shall have access to its physical collocation space twenty-four (24) hours a day, seven (7) days a week without requiring either a security escort of any kind or requiring a Frontier employee or representative to be present during Onvoy's entry into the premises. Onvoy's employees and contractors shall make reasonable efforts to enter Frontier's Central Offices during the

6:00 a.m.-10:00 p.m. working hours Monday through Friday. For non-emergency access to Central Offices where Frontier's equipment is accessible to Onvoy's personnel, Onvoy's employees may enter Frontier's Central Offices between 10:00 p.m. and 6:00 a.m. Monday through Friday and on weekends only after notifying Frontier of its intention to enter a Frontier Central Office with no less than two (2) hours advanced notice. Frontier will provide Onvoy with a list of Central Offices where such advanced notice is required for access outside of Frontier's working hours. No advanced notice will be required for access to a Central Office where Frontier's equipment is not accessible to Onvoy's personnel and there is a separate entrance. Prior to emergency access, Onvoy shall give Frontier notice at or about the time that Onvoy's employees are dispatched to the Central Office. In all cases, Onvoy shall make such notification by contacting Frontier's twenty-four (24) hour Security Command Center at 585-777-7773 and informing Frontier of the Central Office involved, the anticipated time of entry, and the names of entering employees. In all cases where Onvoy requires entry into Frontier's premises outside of normal business hours, Onvoy must contact the Security Command Center upon arrival at the premises.

- 7.2.9.5 If Onvoy arrives at the Central Office and the access cards has not been activated within ten (10) minutes after Onvoy's notification, Onvoy shall escalate the issue to Frontier's escalation contact.
- 7.2.9.6 Frontier will provide security to protect and monitor the Space consistent with that required for similar Frontier facilities.
- 7.2.9.7 Where Onvoy provides the security device for its Space, Onvoy will provide keys or other provisions for access to Frontier Security in the event of an emergency and to perform the required housekeeping and equipment inspection activities under the terms and conditions specified in this Agreement. Frontier shall be responsible for ensuring that its employees will not be allowed access to the Space unless authorized under this Agreement.
- 7.2.9.8 Onvoy will provide Frontier Security with an emergency response list of persons to be notified of an environmental, safety or security emergency in any Frontier facility containing Onvoy Space. It is Onvoy's responsibility to update the list as necessary.
- 7.2.9.9 During the installation phase, or for subsequent maintenance, Onvoy will have access to its Space and any room or area required by them, to necessitate the installation. Onvoy may be escorted in areas outside its Space by qualified Frontier employees or Frontier Security personnel for these occasions.
- 7.2.9.10 In the event that there shall be a labor dispute involving any person working in or about the Frontier buildings that Onvoy's employees have access to, Frontier Security shall take reasonable steps to ensure that Onvoy's representatives have

uninterrupted access to the building for the purpose of performing all functions under this Agreement.

7.2.9.11 Frontier Security may from time to time change its security, environmental, health and safety arrangements. Onvoy will pay its proportional share of the costs of these changes based upon the percent of square footage occupied by Onvoy in proportion to the total square footage impacted or protected by the change in arrangements.

7.2.9.12 Onvoy shall at all times maintain compliance with federal, state and local laws as well as Frontier policies, practices and procedures as set forth in Frontier's Environmental, Health and Safety Manual. Onvoy shall at all times maintain its space in such a way as to not create a fire hazard, including, but not limited to, minimizing the use and storage of combustibles and flammables while on Frontier's premises.

7.2.9.13 Onvoy will provide Frontier with a certification or acceptable form or written representation that all listed employees and contractors have completed environmental, health and safety training to meet all legal requirements, and to enable them to perform their job safely, and in compliance, while on Frontier premises. Such certification or written representation must be provided to Frontier prior to issuance of a non-employee identification card. Onvoy shall be responsible for providing all of its employees and contractors with adequate personal protective equipment to perform the job safely.

7.3 Relocations and Rearrangements

7.3.1 As a last resort, Frontier may require Onvoy to move from its Space to Space in another location within the same Central Office if necessary for Frontier to fulfill its obligations under the applicable law. Frontier shall provide Onvoy notice of the need for such a move. Frontier will negotiate a schedule with Onvoy under which such relocation shall be effected. Frontier will bear the costs of relocating the Space, Point of Termination and associated Frontier cabling. Onvoy will be responsible for relocating its equipment and facilities. Frontier and Onvoy will work together in good faith to minimize any disruption of Onvoy's services as a result of such relocation. Should Onvoy wish to move equipment from one location to another, Onvoy will be responsible for removing and transporting its equipment to the new site and installing it. Frontier will treat the relocation as a new installation under the terms and conditions of this Agreement.

7.3.2 Should Frontier reasonably need to install additional facilities in any conduit system in which Onvoy occupies Conduit Space for the purpose of meeting its own service requirements or for providing for another CLEC, Frontier will, after notifying Onvoy in writing of the basis and schedule proposed, rearrange Onvoy's facilities in the conduit system so that the additional facilities of Frontier, or other CLEC, may be accommodated.

- 7.3.3 In an emergency affecting the safety of personnel, involving out of service End Users or integrity of the Frontier Network, Frontier will attempt to notify Onvoy, but nevertheless may rearrange Onvoy's facilities occupying a conduit, manhole, cable vault, riser system or cable support structure without prior notification. Such rearrangement will be at Onvoy's expense if such emergency is a result of Onvoy's occupancy of the space(s) under this Agreement or as a result of any act or omission on the part of Onvoy, its employees, agents or vendors.
- 7.3.4 Where Onvoy intends to modify, move, replace or add to equipment or facilities within or about the Space and requires special consideration (e.g., use of freight elevators, loading dock, staging area, etc.), Onvoy must request and receive written consent from Frontier.

7.4 Access Rights of Frontier

- 7.4.1 Onvoy will provide emergency access to its Space at all times to allow Frontier to react to emergencies, to inspect pursuant to the terms and limitations of this Agreement and to ensure compliance with Frontier policies and standards related to fire, safety, health and environmental safeguards as set forth in Frontier's Safety Manual.

8. Rules of Conduct

- 8.1 Onvoy agrees that its employees and vendors with access to Frontier Central Office(s) shall at times adhere to the rules of conduct established by Frontier for the Central Office and Frontier's personnel and vendors and provided to Onvoy as set forth in Frontier's Environmental, Health and Safety Manual. Frontier reserves the right to make changes to such policies, practices and procedures to preserve the integrity and operation of the Frontier network or facilities, or to comply with applicable laws and regulations.
- 8.2 Hazardous Materials. Onvoy will identify and will notify Frontier in writing of any Hazardous Materials Onvoy may bring onto the property and will provide Frontier copies of any inventories or other data provided to State Emergency Response Commissions ("SERCs"), Local Emergency Planning Committees ("LEPCs") or any other governmental agencies if required by the Emergency Planning and Community Right to Know Act (41 U.S.C. 11001, et seq.). Onvoy, its agents and employees will transport, store and dispose of Hazardous Materials in accordance with all applicable federal, state or local laws, ordinances, rules and regulations. Onvoy will promptly notify Frontier of any releases of Hazardous Materials and will copy Frontier on any notification of or correspondence with any governmental body as a result of such release.
- 8.3 For purposes of this Section, "Hazardous Materials" will mean any toxic substances and/or hazardous materials or hazardous wastes (including, without limitation asbestos and lead antimony batteries,) as defined in, or pursuant to the OSHA Hazard Communication Standard (29 CFR Part 1910, Subpart Z), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 6901, et seq.), or regulations adopted pursuant to those statutes, the Toxic Substances Control Act (15 U.S.C. Section 2601 et seq.) or any other federal, state or local environmental law, ordinance, rule or regulation. The provisions of this Section will survive the termination, cancellation, modification or rescission of this Attachment.

- 8.4 Onvoy will provide Frontier copies of all Material Safety Data Sheets ("MSDSs") for materials or chemicals regulated under the OSHA Hazard Communication Standard (29 C.F.R. 1910.1200) that are brought onto the property. All such materials will be labeled in accordance with 29 C.F.R. 1910.1200, and applicable state regulations if such regulations are more stringent.
- 8.5 If Frontier discovers that Onvoy has brought onto Frontier's property Hazardous Materials without notification, or is storing or disposing of such materials in violation of any applicable environmental law, Frontier may, at Frontier's option and without penalty, terminate this Attachment or suspend performance hereunder. Onvoy will be responsible for, without cost to Frontier, the complete remediation of any releases or other conditions caused by its storage, use or disposal of Hazardous Materials. Onvoy will also be responsible for removing and disposing of all Hazardous Materials on its Premises at the termination of this Attachment. If Frontier elects to terminate this Attachment or discontinue the performance of services hereunder due to the storage, use or disposal of Hazardous Materials, Onvoy will have no recourse against Frontier and will be responsible for all costs and expenses associated with such termination or suspension of service in addition to being responsible for any remedies available to Frontier for defaults under this Attachment.
- 8.6 Onvoy will indemnify and hold harmless Frontier, its successors and assigns against, and in respect of, any and all damages, claims, losses, liabilities and expenses, including, without limitation, all legal, accounting, consulting, engineering, and other expenses, which may be imposed upon, or incurred by, Frontier or asserted against Frontier by any other party or parties (including, without limitation, Frontier's employees and/or contractors and any governmental entity) arising out of, or in connection with, Onvoy's use, storage or disposal of Hazardous Materials on the Premises.
- 8.7 Various Prohibited Uses. Onvoy will not do or permit anything to be done upon the Premises, or bring or keep anything thereon that is in violation of any federal, state or local laws or regulations (including environmental laws or regulations not previously described), or any rules, regulations or requirements of the local fire department, Fire Insurance Rating Organization, or any other similar authority having jurisdiction over the Building. Onvoy will not do or permit anything to be done upon the Premises that may in any way create a nuisance, disturb, endanger, or otherwise interfere with the telecommunications services of Frontier, any other occupant of the Building, their patrons or End Users, or the occupants of neighboring property, or injure the reputation of the property. Onvoy will not, without the prior written consent of Frontier: (i) install or operate any lead-acid batteries, refrigerating, heating or air conditioning apparatus or carry on any mechanical business in the Premises; (ii) use the Premises for housing, lodging or sleeping purposes; (iii) permit preparation or warming of food, presence of cooking or vending equipment, sale of food or smoking in the Premises; or (iv) permit the use of any fermented, intoxicating or alcoholic liquors or substances in the Premises or permit the presence of any animals except those used by the visually impaired. Frontier may, in its sole discretion, withhold such consent, or impose any condition in granting it, and revoke its consent at will.
- 8.8 Cleanliness and Obstruction of Public Areas. Onvoy will not place anything or allow anything to be placed near the glass of any door, partition or window that Frontier determines is unsightly from outside the Premises; or take or permit to be taken in or out of other entrances of the Building, or take or permit to be taken on any passenger elevators, any item normally taken through service entrances

or elevators; or whether temporarily, accidentally, or otherwise, allow anything to remain in, place or store anything in, or obstruct in any way, any passageway, exit, stairway, elevator, or shipping platform. Onvoy will lend its full cooperation to keep such areas free from all obstruction and in a clean and sightly condition, move all supplies, furniture and equipment directly to the Premises as soon as received, and move all such items and waste, other than waste customarily removed by employees of the Building.

9. Rights Reserved to Frontier

- 9.1 Frontier will have the following rights, and others not specifically excluded in this Attachment, exercisable without notice and without liability to Onvoy for damage or injury to property, person or business (all claims for damage being hereby released), and without effecting an eviction or disturbance of Onvoy's use or possession or giving rise to any claim for offsets, or abatement of rent:
- 9.2 To designate any and all spaces to be occupied by Onvoy's facilities and equipment under this Attachment;
 - 9.2.1 To change the name or street address of the Building;
 - 9.2.2 To install and maintain signs on the exterior and interior of the Building or anywhere on the property;
 - 9.2.3 To have pass keys or access cards with which to unlock all doors in the Premise, excluding Onvoy's safes;
 - 9.2.4 To enter the Premises for the purposes of examining or inspecting same and of making such repairs or alterations as Frontier deems necessary (Onvoy hereby waives any claim for damage, injury, interference with Onvoy's business, any loss of occupancy or quiet enjoyment of the Premises and any other loss occasioned by the event except where such damages solely from the gross negligence or willful misconduct of Frontier);
 - 9.2.5 To use any means Frontier may deem proper to open Premises' doors in an emergency. Entry into the Premises obtained by Frontier by any such means will not be deemed to be forcible or unlawful entry into or a detainment of or an eviction of Onvoy from the Premises or any portion thereof;
 - 9.2.6 To utilize the space within the Building in such a manner as will best enable it to fulfill its own service requirements;
 - 9.2.7 To require all persons entering or leaving the Building during such hours as Frontier may from time to time reasonably determine to identify themselves to a watchman by registration or otherwise and to establish their right to leave or enter, and to exclude or expel any solicitor or person at any time from the Premises or the property. Frontier assumes no responsibility and will not be liable for any damage resulting from the admission or refusal to admit any authorized or unauthorized person to the Building, provided that such damage is not the result of gross negligence or willful misconduct on the part of the Frontier;
 - 9.2.8 To approve the weight, size and location of safes, computers and all other heavy articles in and about the Premises and the Building, and to

require all such items and other office furniture and equipment to be moved in and out of the Building or premises only at such times and in such a manner as Frontier will direct and in all events at Onvoy's sole risk and responsibility;

- 9.2.9 At any time, to decorate and to make, at its own expense, repairs, alterations, additions and improvements, structural or otherwise, in or to the Premises, the property, or any part thereof (including, without limitation the permanent or temporary relocation of any existing facilities such as parking lots or spaces), and to perform any acts related to the safety, protection or preservation thereof, and during such operations to take into and through the Premises or any part of the property all materials and equipment required, and to close or suspend temporarily operation of entrances, doors, corridors, elevators or other facilities, provided that Frontier will limit inconvenience or annoyance to Onvoy as reasonably possible under the circumstances;
- 9.2.10 To do or permit to be done any work in or about the Premises or the property or any adjacent or nearby building, land, street or alley;
- 9.2.11 To grant to anyone the exclusive right to conduct any business or render any service on the property, provided such exclusive right will not operate to exclude Onvoy from the use expressly permitted by this Attachment, or impose any additional fees, limitations, or procedural burdens on Onvoy that are not previously required under this contract, unless Frontier exercises its right to terminate this Attachment with respect to all or a portion of the Premises;
- 9.2.12 To close the Building at such reasonable times as Frontier may determine, subject to Onvoy's right to admittance under such reasonable regulations as will be prescribed from time to time by Frontier.
- 9.2.13 Frontier will have the right to upgrade or replace its equipment at the subject central office. In the event that Frontier determines to make such equipment upgrades or replacements, it will give Onvoy six months advance notice of such changes. It will be Onvoy's responsibility to ensure that its equipment remains compatible with Frontier's upgraded or new equipment.
- 9.2.14 To perform all work, using Frontier employees or contractors, necessary to ready the Premises for Onvoy's use;
- 9.2.15 To exercise all other rights reserved by Frontier pursuant to the provisions of this Attachment; and
- 9.2.16 To inspect the installation of equipment in the Premises prior to the connection of equipment to Frontier facilities.
- 9.2.17 Frontier reserves the right, with twenty-four (24) hours prior notice to Onvoy, to access Onvoy's collocated space to perform periodic inspections to ensure compliance with Frontier installation, safety and security practices.

10. Asbestos

Onvoy is aware the Building in which the Premises is located may contain or have contained asbestos or asbestos containing building materials, and Onvoy hereby releases and agrees to hold Frontier harmless from any and all liability to Onvoy or any of its employees, agents or invitees as a result thereof.

11. Collocation Application, Forms and Instructions

Frontier's Collocation Applications and related applications and details can be accessed at <https://wholesale.frontier.com/wholesale/collocation-and-licensing>

9-1-1 ATTACHMENT

1. 9-1-1/E9-1-1 Arrangements

- 1.1 9-1-1/E9-1-1 arrangements provide a caller access to the appropriate PSAP by dialing a 3-digit universal telephone number "9-1-1". Frontier provides and maintains such equipment and software at the 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s), Frontier interface point(s) and ALI Database as is necessary for 9-1-1/E9-1-1 Calls in areas where Frontier is the designated 9-1-1/E9-1-1 Service Provider.
- 1.2 Frontier shall make the following information available to Onvoy, to the extent permitted by Applicable Law. Such information is provided at the Frontier Communications website (formerly referred to as the Frontier wholesale website):
 - 1.2.1 a listing of the CLLI code (and SS7 point code when applicable) of each 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s) and associated geographic location served for areas where Frontier is the designated 9-1-1/E9-1-1 Service Provider;
 - 1.2.2 a listing of appropriate Frontier contact telephone numbers and organizations that currently have responsibility for operations and support of Frontier's 9-1-1/E9-1-1 network and ALI Database systems; and
 - 1.2.3 where Frontier maintains a Master Street Address Guide (MSAG) on behalf of the Controlling 9-1-1 Authority, Frontier shall provide to Onvoy a complete copy of such MSAG annually upon written request for each county within the LATA(s) in the State of Tennessee, where Onvoy is providing Telephone Exchange Service, provided that Frontier is permitted to do so by Controlling 9-1-1 Authority.

2. ALI Database

- 2.1 Where Frontier manages the ALI Database, information regarding the ALI Database is provided electronically at the Frontier Communications website (formerly referred to as the Frontier wholesale website).
- 2.2 Where Frontier manages the ALI Database, Frontier shall:
 - 2.2.1 store Onvoy end user data provided by Onvoy in the ALI Database;
 - 2.2.2 provide Onvoy access to the ALI Database for the initial loading and updating of Onvoy end user records in accordance with information contained in the Frontier Communications website (formerly referred to as the Frontier wholesale website); and
 - 2.2.3 provide Onvoy an error and status report based on updates to the ALI Database received from Onvoy.
- 2.3 Where Frontier manages the ALI Database, Onvoy shall:
 - 2.3.1 provide MSAG valid E9-1-1 data for each of its end users for the initial loading of, and any and all updates to the ALI database;
 - 2.3.2 utilize the appropriate Frontier electronic interface to update E9-1-1 data in the ALI Database related its end users (and all such database information in the ALI Database shall conform to Frontier standards,

which are provided at the Frontier Communications website (formerly referred to as the Frontier wholesale website));

- 2.3.3 use its company ID on all end user records in accordance with NENA standards;
 - 2.3.4 correct any errors that occur during the entry of E9-1-1 data in the ALI Database; and
 - 2.3.5 enter E9-1-1 data into the ALI Database in accordance with NENA standards for LNP. This includes, but is not limited to, using Onvoy's NENA ID to lock and unlock records and the posting of the Onvoy NENA ID to the ALI Database record where such locking and unlocking feature for E9-1-1 records is available, or as defined by local standards. Onvoy is required to promptly unlock and migrate its E9-1-1 records in accordance with NENA standards. In the event that Onvoy discontinues providing Telephone Exchange Service to any of its end users, it shall ensure that its E9-1-1 records for such end users are unlocked in accordance with NENA standards.
- 2.4 In the event Onvoy uses an Agent to input its end user's E9-1-1 data to the ALI Database through the appropriate Frontier electronic interface, Onvoy shall provide a Letter of Authorization, in a form acceptable to Frontier, identifying and authorizing its Agent.

3. 9-1-1/E9-1-1 Interconnection

- 3.1 Onvoy may, in accordance with Applicable Law, interconnect to the Frontier 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s) or Frontier interface point(s). Frontier shall designate interface point(s), e.g., digital cross connect systems (DCS), where Onvoy may interconnect with Frontier for the transmission and routing of 9-1-1/E9-1-1 Calls to all subtending PSAPs that serve the areas in which Onvoy provides Telephone Exchange Services.
- 3.2 In order to interconnect with Frontier for the transmission and routing of 9-1-1/E9-1-1 Calls, Onvoy shall:
 - 3.2.1 interconnect with each Frontier 9-1-1/E9-1-1 Tandem Office/Selective Router or Frontier interface point that serves the exchange areas in which Onvoy is authorized to and will provide Telephone Exchange Service;
 - 3.2.2 provide a minimum of two (2) one-way outgoing 9-1-1/E9-1-1 trunks over diversely routed facilities that are dedicated for originating 9-1-1/E9-1-1 Calls from the Onvoy switch to each designated Frontier 9-1-1/E9-1-1 Tandem Office/Selective Router or Frontier interface point, using SS7 signaling where available, as necessary;
 - 3.2.3 [Intentionally Left Blank];
 - 3.2.4 provide sufficient trunks and facilities to route 9-1-1/E9-1-1 Calls from Onvoy to the designated Frontier 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s) or Frontier interface point(s). Onvoy is responsible for requesting that trunks and facilities be routed diversely for 9-1-1/E9-1-1 interconnection;

- 3.2.5 determine the proper quantity of trunks and facilities from its switch(es) to the Frontier 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s) or Frontier interface point(s);
- 3.2.6 engineer its 9-1-1/E9-1-1 trunks and facilities to attain a minimum P.01 grade of service as measured using the “busy day/busy hour” criteria or at such other minimum grade of service as required by Applicable Law or the Controlling 9-1-1 Authority;
- 3.2.7 monitor its 9-1-1/E9-1-1 trunks and facilities for the purpose of determining originating network traffic volumes. If the Onvoy traffic study indicates that additional trunks and/or facilities are needed to meet the current level of 9-1-1/E9-1-1 Call volumes, Onvoy shall order or otherwise provide adequate additional trunks and/or facilities;
- 3.2.8 promptly test all 9-1-1/E9-1-1 trunks and facilities between the Onvoy network and the Frontier 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s) or Frontier interface point(s) to assure proper functioning of 9-1-1/E9-1-1 arrangements. Onvoy shall not transmit or route live 9-1-1/E9-1-1 Calls until successful testing is completed; and
- 3.2.9 isolate, coordinate and restore all 9-1-1/E9-1-1 network maintenance problems from its switch(es) to the Frontier 9-1-1/E9-1-1 Tandem Office(s)/Selective Router(s) or Frontier interface points. Onvoy shall advise Frontier of the circuit identification when notifying Frontier of a failure or outage.

4. 9-1-1/E9-1-1 General

- 4.1 Frontier and Onvoy shall work cooperatively to arrange meetings with the Controlling 9-1-1 Authorities to answer any technical questions the PSAPs, or county or municipal coordinators may have regarding the initial 9-1-1/E9-1-1 arrangements
- 4.2 Onvoy shall compensate Frontier for provision of 9-1-1/E9-1-1 Services pursuant to the Pricing Attachment of this Agreement.
- 4.3 Onvoy and Frontier shall comply with all Applicable Law (including 9-1-1 taxes and surcharges as defined by Applicable Law) pertaining to 9-1-1/E9-1-1 arrangements.
- 4.4 Onvoy shall collect and remit, as required, any 9-1-1/E9-1-1 applicable surcharges from its end users in accordance with Applicable Law.

5. Good Faith Performance

If and, to the extent that, Frontier, prior to the Effective Date, has not provided in the State of Tennessee a Service offered under this Attachment, Frontier reserves the right to negotiate in good faith with Onvoy reasonable terms and conditions (including, without limitation, rates and implementation timeframes) for such Service; and, if the Parties cannot agree to such terms and conditions (including, without limitation, rates and implementation timeframes), either Party may utilize the Agreement’s dispute resolution procedures.

PRICING ATTACHMENT

1. General

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

2. Frontier Telecommunications Services Provided to Onvoy for Resale Pursuant to the Resale Attachment

- 2.1 Frontier Telecommunications Services for which Frontier is Required to Provide a Wholesale Discount Pursuant to Section 251(c)(4) of the Act.
 - 2.1.1 The Charges for a Frontier Telecommunications Service purchased by Onvoy for resale for which Frontier 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 Frontier's applicable Tariffs (or, if there is no Tariff Retail Price for such Service, Frontier's Retail Price for the Service that is generally offered to Frontier's Customers), less, to the extent required by Applicable Law: (a) the applicable wholesale discount stated in Frontier's Tariffs for Frontier Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act; or (b) in the absence of an applicable Frontier Tariff wholesale discount for Frontier Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act, the applicable wholesale discount stated in Appendix A for Frontier Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act.

- 2.1.2 The Charges for a Frontier Telecommunications Service Customer Specific Arrangement ("CSA") purchased by Onvoy for resale pursuant to Section 3.3 of the Resale Attachment for which Frontier 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 Frontier's Tariffs for Frontier Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act; or (b) in the absence of an applicable Frontier Tariff wholesale discount for Frontier Telecommunications Services purchased for resale pursuant to Section 251(c)(4) of the Act, the applicable discount stated in Appendix A for Frontier 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, Frontier may establish a wholesale discount for a CSA that differs from the wholesale discount that is generally applicable to Telecommunications Services provided to Onvoy for resale pursuant to Section 251(c)(4) of the Act.
- 2.1.3 Notwithstanding Sections 2.1 and 2.2 of this Attachment, in accordance with, and to the extent permitted by Applicable Law, Frontier 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 Onvoy for resale pursuant to Section 251(c)(4) of the Act.
- 2.1.4 The wholesale discount stated in Appendix A shall be automatically superseded by any new wholesale discount when such new wholesale discount is required by any order of the Commission or the FCC, approved by the Commission or the FCC, or otherwise allowed to go into effect by the Commission or the FCC, provided such new wholesale discount is not subject to a stay issued by any court of competent jurisdiction.
- 2.1.5 The wholesale discount provided for in Sections 2.1.1 through 2.1.3 of this Attachment shall not be applied to:
 - 2.1.5.1 Short term promotions as defined in 47 CFR § 51.613;
 - 2.1.5.2 Except as otherwise provided by Applicable Law, Exchange Access services;

- 2.1.5.3 Subscriber Line Charges, Federal Line Cost Charges, end user common line Charges, taxes, and government Charges and assessment (including, but not limited to, 9-1-1 Charges and Dual Party Relay Service Charges).
 - 2.1.5.4 Any other service or Charge that the Commission, the FCC, or other governmental entity of appropriate jurisdiction determines is not subject to a wholesale discount under Section 251(c)(4) of the Act.
- 2.2 Frontier Telecommunications Services for which Frontier is Not Required to Provide a Wholesale Discount Pursuant to Section 251(c)(4) of the Act.
 - 2.2.1 The Charges for a Frontier Telecommunications Service for which Frontier is not required to provide a wholesale discount pursuant to Section 251(c)(4) of the Act shall be the Charges stated in Frontier's Tariffs for such Frontier Telecommunications Service (or, if there are no Frontier Tariff Charges for such Service, Frontier's Charges for the Service that are generally offered by Frontier).
 - 2.2.2 The Charges for a Frontier Telecommunications Service customer specific contract service arrangement ("CSA") purchased by Onvoy pursuant to Section 3.3 of the Resale Attachment for which Frontier 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 Frontier could bill the person to whom the CSA was originally provided (including, but not limited to, applicable Frontier Tariff Charges).
- 2.3 Other Charges.
 - 2.3.1 Onvoy shall pay, or collect and remit to Frontier, without discount, all Subscriber Line Charges, Federal Line Cost Charges, and end user common line Charges, associated with Frontier Telecommunications Services provided by Frontier to Onvoy.

3. Onvoy Prices

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

4. [This Section Intentionally Left Blank]

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

(Tennessee)

v1.0

1. Reciprocal Compensation

1.1 Reciprocal Compensation and Local traffic will be terminated by the Parties on a Bill and Keep basis.

1.2 Transit Service—per MOU \$ 0.0061854/mou where applicable

1.3 Onvoy will provide accurate Calling Party Number ("CPN") and/or Automatic Number Identification ("ANI") on at least ninety-five percent (95%) of all traffic delivered to the POI. Where CPN and/or ANI is not provided, Onvoy agrees to pay the applicable intrastate terminating access charges for such traffic.

2. RESALE

2.1 Nonrecurring Charges:

A nonrecurring charge will apply when converting a Frontier account to an Onvoy account or when changing an End User from one carrier to another.

Basic Residential Line Service and Basic Business Line Service and Public Access Line Service that is subject to resale will be discounted at 12% from the published rates in the state local tariff for the rate center where service is being requested.

3. Unbundled Local Loop Rates

	<u>Monthly</u>	<u>Nonrecurring</u>
2-Wire Analog Loop	TBD	
4-Wire Analog Loop	TBD	
Service Order		\$ 32.01
Central Office Cross-Connects		
2-Wire Jumper		TBD
4-Wire Jumper		TBD
Cross-Connects Outside the Central Office		
2-Wire Jumper		TBD
4-Wire Jumper		TBD
Travel Charge		TBD
Customer Loop Information – Per loop		\$ 10.00
Pre-Qualification Charge (per loop)		\$ 27.18
Order Change Charge Charges	*See Supplemental PON	
Due Date Charge Charges	**See Supplemental PON	
Expedited Orders Charges	***See Miscellaneous	

Network modification requests such as, but not limited to, conditioning (Cable Loading or Unloading, Load Coil Rearrangement and Bridged Tap Removal) and Placement of Repeaters will be priced on an individual case basis.

4. Collocation

4.1 Caged and Cageless	<u>Monthly</u>	<u>Nonrecurring</u>
1. Processing Fee		\$ 2,440.00
2. Floor Space Charge		
Cageless, per 1 standard bay (10 sq ft max)	\$ 109.00	
Cageless, per 1 cabinetized bay (18 sq ft max)	\$ 178.00	
Cageless, per additional sq ft	\$ 8.58	
All other applications, per sq ft	\$ 8.58	
3. Cross Connect per		
DS0	\$ 1.25	\$ 413.57
DS1	\$ 3.90	\$ 352.85
DS3	\$ 48.00	\$ 1,249.98
4. AC Power, per 20 Amps		
This does not include any DC power or backup power.	\$ 274.49	\$ 1,475.00
5. DC Power, per 40 Amps, 2 feeds	\$ 487.49	\$ 3,527.04
6. Engineering Fee		
Charge per order, per Central Office		
Charge for work performed by Carrier associated with design and development of collocation. Total charge is reduced by the up-front fee.		\$ 6,240.00
7. Cable Pull Charge		
Charge per Central Office, per cable terminated		\$ 904.80
8. Office Arrangement		
Caged - Caging costs per order, per Central Office		\$ 4,608.61
Cageless – per each standard bay		\$ 1,520.00
Cageless – per each standard bay with relay rack		\$ 5,320.00
Cageless – per each cabinetized bay		\$ 1,520.00
9. Maintenance, per relay rack	\$ 44.00	
10. Building Modification Charge		
Charge per Central Office, per order.		ICB
11. Training (Virtual)	Time and Expense	

5. Labor Rates

	<u>Basic Time</u>	<u>Overtime</u>	<u>Premium Time</u>
Charges for Additional Labor per Engineering, 1 st hour	\$ 85.00	\$ 127.50	\$ 170.00
Charges for Additional Labor per Security Escort, 1st hour	\$ 85.00	\$ 127.50	\$ 170.00
Charges for Additional Labor per Technician, 1st hour	\$ 85.00	\$ 127.50	\$ 170.00
Charges for Additional Testing per Technician, 1st hour	\$ 85.00	\$ 127.50	\$ 170.00
Charges for Standby per Technician, 1st hour	\$ 85.00	\$ 127.50	\$ 170.00
Charges for Programming per Programmer, 1st hour	\$ 85.00	\$ 127.50	\$ 170.00

Basic Time – Monday through Friday, 8:00 am to 5:00 pm

Overtime – Monday through Friday, Before 8:00 am and after 5:00 pm

Premium Time – Saturday(s), Sunday(s) and Holiday(s)

6. Supplemental PON Charges

A supplement is any new iteration of a local service request.

Supplement # 1

Cancel - Indicates that the pending order is to be canceled in its entirety.

Charge - \$14.38

Supplement # 2

New desired due date - Indicates that the pending order requires only a change of desired due date.

Supplement # 3

Other - Any other change to the request.

Supp 2 & 3 Charges are as follows:

Order Type	Residence Resale	Business Resale	Residence Porting	Business Porting	Residence ULL/UNE	Business ULL/UNE
Charge Per Number	\$11.01	\$17.83	\$11.01	\$17.83	\$ 8.86	\$14.34
*Expedite Charge will be applied (\$35.20 per telephone number) for any Portings stopped on the DD & subsequently reappointed with a new Due Date.						

7. OTHER MISCELLANEOUS CHARGES

- 7.1 Expedite Charge – Applies on any work requested before the next available due date or before the standard interval for that service.

The expedite charge is applied for each telephone number being expedited.

NONRECURRING

Residence	\$ 35.20
Business	\$ 35.20

Additional Labor Charges also apply if the work is done after hours or on the weekend.

- 7.2 Preferential/Vanity Numbers

NONRECURRING

Residence	\$ 42.33
Business	\$ 84.45

- 7.3 Concurrence Charge

Onvoy is responsible to create subscription versions in the NPAC prior to the 18-hour window. In the event that Onvoy does not create the subscription version(s) within the prescribed time frame, Onvoy is responsible to notify Frontier during regular business hours of the need to concur. Failure to do so may result in a delayed porting. A concurrence charge is applied for each telephone number needing concurrence.

NONRECURRING

Residence	\$ 11.01
Business	\$ 17.83

**EXHIBIT A TO SECTION 3.1 (FIBER MEET ARRANGEMENT) OF THE INTERCONNECTION
ATTACHMENT**

TECHNICAL SPECIFICATIONS AND REQUIREMENTS

for

ONVOY, LLC

and

**CITIZENS TELECOMMUNICATIONS COMPANY OF TENNESSEE L.L.C.
d/b/a FRONTIER COMMUNICATIONS COMPANY OF TENNESSEE**

FIBER MEET ARRANGEMENT NO. [XX]

The following technical specifications and requirements will apply to Onvoy, LLC and Citizens Telecommunications Company of Tennessee L.L.C., d/b/a Frontier Communications Company of Tennessee Fiber Meet Arrangement [NUMBER] ("FM No. [XX]"):

1. FM No. [XX] will provide interconnection facilities for the exchange of applicable traffic (as set forth in the Amendment) between Frontier's [NAME OF TANDEM/END OFFICE] and Onvoy's [NAME OF TANDEM/END OFFICE] in the State of Tennessee. A diagram of FM No. [XX] is included as Exhibit A-1.
2. Fiber Meet Points ("FMPs").
 - 2.1 FM No. [XX] will be configured as shown on Exhibit A-1. FM No. [XX] will have two FMPs. Neither FMP is more than three (3) miles from the nearest Frontier Tandem or End Office.
 - 2.2 Frontier will provision a Fiber Network Interface Device ("FNID") at [POLE XX, STREET YY, TOWN ZZ, STATE] and terminate [____] strands of its fiber optic cable in the FNID. The FNID provisioned by Frontier will be a [MANUFACTURER, MODEL]. Frontier will bear the cost of installing and maintaining its FNID. The fiber patch panel within Frontier's FNID will serve as FMP No. 1. Frontier will provide a fiber stub at the fiber patch panel in Frontier's FNID for Onvoy to connect [____] strands of its fiber cable [____] connectors. Frontier's FNID will be locked, but Frontier and Onvoy will have 24 hour access to their respective side of the fiber patch panel located in Frontier's FNID.
 - 2.3 Onvoy will provision a FNID at [POLE XX, STREET YY, TOWN ZZ, STATE] and terminate [____] strands of its fiber optic cable in the FNID. The FNID provisioned by Onvoy will be a [MANUFACTURER, MODEL]. Onvoy will bear the cost of installing and maintaining its FNID. The fiber patch panel within Onvoy's FNID will serve as FMP No. 2. Onvoy will provide a fiber stub at the fiber patch panel in Onvoy's FNID for Frontier to connect [____] strands of its fiber cable. Onvoy's FNID will be locked, but Onvoy and Frontier will have 24 hour access to their respective side of the fiber patch panel located in Onvoy's FNID.
3. Transmission Characteristics.
 - 3.1 FM No. [XX] will be built [as a ring configuration].

- 3.2 The transmission interface for FM No. [XX] will be [Synchronous Optical Network ("SONET")].
- 3.3 Terminating equipment shall comply with [SONET transmission requirements as specified in Telcordia Technologies document GR-253 CORE (Tables 4-3 through 4-11)].
- 3.4 The optical transmitters and receivers shall provide adequate power for the end-to-end length of the fiber cable to be traversed.
- 3.5 The optical transmission rate will be [Unidirectional] OC-[XX].
- 3.6 The path switch protection shall be set as [Non-Revertive].
- 3.7 Frontier and Onvoy shall provide [Primary Reference Source traceable timing].
- 4. Add Drop Multiplexer.
 - 4.1 Frontier will, at its own cost, obtain and install (at its own premise) its own Add Drop Multiplexer. Frontier will use a [MANUFACTURER, MODEL] Add Drop Multiplexer with firmware release of [X.X] at the network level. Before making any upgrade or change to the firmware of its Add Drop Multiplexer, Frontier must provide Onvoy with fourteen (14) days advance written notice that describes the upgrade or change to its firmware and states the date on which such firmware will be activated in Frontier's Add Drop Multiplexer.
 - 4.2 Onvoy will, at its own cost, obtain and install (at its own premise) its own Add Drop Multiplexer. Onvoy will use a [MANUFACTURER, MODEL] Add Drop Multiplexer with firmware release of [X.X] at the network level. Before making any upgrade or change to the firmware of its Add Drop Multiplexer, Onvoy must provide Frontier with fourteen (14) days advance written notice that describes the upgrade or change to its firmware and states the date on which such firmware or software will be activated in Onvoy's Add Drop Multiplexer.
 - 4.3 Onvoy and Frontier will monitor all firmware upgrades and changes to observe for any failures or anomalies adversely affecting service or administration. If any upgrade or change to firmware adversely affects service or administration of FM No. [XX], the firmware will be removed from the Add Drop Multiplexer and will revert to the previous version of firmware.
 - 4.4 The Data Communication Channel shall be disabled between the Frontier and Onvoy Add Drop Multiplexers of FM No. [XX].
- 5. Testing.
 - 5.1 Prior to turn-up of FM No. [XX], Frontier and Onvoy will mutually develop and implement testing procedures for FM No. [XX]
- 6. Connecting Facility Assignment ("CFA") and Slot Assignment Allocation ("SAA").
 - 6.1 For one-way and two-way trunk arrangements, the SAA information will be turned over to Onvoy as a final step of turn up of the FM No. [XX].
 - 6.2 For one-way trunk arrangements, Frontier will control the CFA for the subtending facilities and trunks connected to Frontier's slots and Onvoy will control the CFA

for the subtending facilities and trunks connected to Onvoy's slots. Onvoy will place facility orders against the first half of the *fully configured* slots (for example, slots 1-6 of a fully configured OC12) and Frontier will place orders against the second half of the slots (for example, slots 7-12). If either Party needs the other Party's additional slot capacity to place orders, this will be negotiated and assigned on a case-by-case basis. For SAA, Frontier and Onvoy shall jointly designate the slot assignments for Frontier's Add Drop Multiplexers and Onvoy's Add Drop Multiplexer in FM No. [XX].

- 6.3 For two-way trunk arrangements, Onvoy shall control the CFA for the subtending facilities and trunks connected to FM No. [XX]. Onvoy shall place facility and trunk orders against the total available SAA capacity of FM No. [XX].
7. Inventory, Provisioning and Maintenance, Surveillance, and Restoration.
- 7.1 Frontier and Onvoy will inventory FM No. [XX] in their operational support systems before the order flow begins.
- 7.2 Frontier and Onvoy will notify each other's respective Maintenance Control Office of all troubleshooting and scheduled maintenance activity to be performed on FM No. [XX] facilities prior to undertaking such work, and will advise each other of the trouble reporting and maintenance control point contact numbers and the days and hours of operation. Each Party shall provide a timely response to the other Party's action requests or status inquiries.
- 7.3 Frontier will be responsible for the provisioning and maintenance of the FM No. [XX] transport facilities on Frontier's side of the FMPs, as well as delivering its applicable traffic to the FMPs. Onvoy will be responsible for the provisioning and maintenance of the FM No. [XX] transport facilities on the Onvoy's side of the FMPs, as well as delivering its applicable traffic to the FMPs. As such, other than payment of any applicable intercarrier compensation charges pursuant to the terms of the Agreement, neither Party shall have any obligation to pay the other Party any charges in connection with FM No. [XX].
- 7.4 Frontier and Onvoy will provide alarm surveillance for their respective FM No. [XX] transport facilities. Frontier and Onvoy will notify each other's respective maintenance control office of all troubleshooting and scheduled maintenance activity to be performed on the facility prior to undertaking such work, and will advise each other of the trouble reporting and maintenance control point contact numbers and the days and hours of operation.
8. Cancellation or Modification of FM No. [XX].
- 8.1 Except as otherwise provided in this Section 8, all expenses and costs associated with the construction, operation, use and maintenance of FM No. [XX] on each Party's respective side of the FMPs will be borne by such Party.
- 8.2 If either Party terminates the construction of the FM No. [XX] before it is used to exchange traffic, the Party terminating the construction of FM No. [XX] will compensate the other Party for that Party's reasonable actual incurred construction and/or implementation expenses.
- 8.3 If either Party proposes to move or change FM No. [XX] as set forth in this document, at any time before or after it is used to exchange traffic, the Party requesting the move or change will compensate the other Party for that Party's

reasonable actual incurred construction and/or implementation expenses.
Augments, moves and changes to FM No. [XX] as set forth in this document
must be mutually agreed upon by the Parties in writing.

ONVOY, LLC

**CITIZENS TELECOMMUNICATIONS COMPANY
OF TENNESSEE L.L.C.
d/b/a FRONTIER COMMUNICATIONS
COMPANY OF TENNESSEE**

By: _____	TO BE EXECUTED AT A LATER DATE	_____
Date: _____		_____

Exhibit A-1

ONVOY, LLC

and

**CITIZENS TELECOMMUNICATIONS COMPANY OF TENNESSEE
L.L.C. d/b/a FRONTIER COMMUNICATIONS COMPANY OF
TENNESSEE**

Fiber Meet Arrangement No. [XX]

City, State