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DIRECT TESTIMONY OF

JOSEPH GILLAN

Missouri Public  
Service Commission

ON BEHALF OF THE CLEC COALITION

TO-2006-0360

March 30, 2007

CLEC Exhibit No. 1  
Case No(s) TO-2006-0360  
Date 5-16-07 Rptr xf

Case No. T0-2006-0360  
Direct Testimony: Joseph Gillan  
On Behalf of NuVox Communications  
of Missouri, Inc.  
March 30, 2007

STATE OF MONTANA )  
 )  
COUNTY OF MISSOULA ) SS.

BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION

In the Matter of the Application of )  
NuVox Communications of Missouri, Inc. for )  
an Investigation into the Wire Centers that ) Case No. T0-2006-0360  
AT&T Missouri Asserts are Non-Impaired )  
Under the TRRO. )

**AFFIDAVIT OF JOSEPH GILLAN**

COMES NOW Joseph Gillan, of lawful age, sound of mind and being first duly sworn,  
deposes and states:

1. My name is Joseph Gillan. I am the consultant for CLEC Coalition.
2. Attached hereto and made a part hereof for all purposes is my Direct Testimony in the above-referenced case.
3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.

Joseph Gillan  
Joseph Gillan

SUBSCRIBED AND SWORN to before me, a Notary Public, this 27 day of  
MARCH, 2007.

James P. Denton  
Notary Public

My Commission Expires:  
(SEAL)



JAMES P. DENTON  
NOTARY PUBLIC-MONTANA  
Residing at Missoula, Montana  
My Comm. Expires June 27, 2009

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

**In the Matter of the Application of NuVox        )  
Communications of Missouri, Inc., for an        ) Case No. TO-2006-0360  
Investigation into the Wire Centers that        )  
AT&T Missouri Asserts are Non-Impaired        )  
Under the TRRO                                        )**

**DIRECT TESTIMONY OF JOSEPH GILLAN  
ON BEHALF OF THE CLEC COALITION<sup>1</sup>**

**March 30, 2007**

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**I. INTRODUCTION**

1  
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3  
4  
5  
6  
7

**Q. Please state your name, business address and occupation.**

**A. My name is Joseph Gillan. My business address is P.O. Box 7498, Daytona  
Beach, Florida 32116. I am an economist with a consulting practice specializing  
in telecommunications.**

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<sup>1</sup> Members of the CLEC Coalition are McLeodUSA Telecommunications Services, Inc., NuVox Communications of Missouri, Inc., and XO Communications Services, Inc.

1       **Q.     Please briefly outline your educational background and related experience.**

2  
3       **A.**    I am a graduate of the University of Wyoming where I received B.A. and M.A.  
4               degrees in economics. From 1980 to 1985, I was on the staff of the Illinois  
5               Commerce Commission where I had responsibility for the policy analysis of  
6               issues created by the emergence of competition in regulated markets, in particular  
7               the telecommunications industry. While at the Commission, I served on the staff  
8               subcommittee for the NARUC Communications Committee and was appointed to  
9               the Research Advisory Council overseeing the National Regulatory Research  
10              Institute.

11  
12             In 1985, I left the Commission to join U.S. Switch, a venture firm organized to  
13             develop interexchange access networks in partnership with independent local  
14             telephone companies. At the end of 1986, I resigned my position of Vice  
15             President-Marketing/Strategic Planning to begin a consulting practice.

16  
17             Over the past twenty-five years, I have provided testimony before more than 35  
18             state commissions, six state legislatures, the Commerce Committee of the United  
19             States Senate, and the Federal/State Joint Board on Separations Reform. I have  
20             also been called to provide expert testimony before federal and state civil courts  
21             by clients as diverse as the trustees of a small competitive carrier in the Southeast  
22             to Qwest Communications. In addition, I have filed expert analysis with the

1 Finance Ministry of the Cayman Islands and before the Canadian Radio-  
2 Telecommunications Commission.

3  
4 Finally, I serve on the Advisory Council to New Mexico State University's Center  
5 for Regulation (since 1985) and I am an instructor in their "Principles of  
6 Regulation" program taught twice annually in Albuquerque. I also lecture at  
7 Michigan State University's Regulatory Studies Program and have been invited to  
8 lecture at the School of Laws at the University of London (England) on  
9 telecommunications policy and cost analysis in the United States. A complete  
10 listing of my testimony and experience is included in Exhibit JPG-1 (attached).

11  
12 **Q. On whose behalf are you testifying?**

13  
14 **A.** I am testifying on behalf of McLeodUSA Telecommunications Service, Inc.  
15 ("McLeodUSA"), NuVox Communications of Missouri, Inc. ("NuVox"), and XO  
16 Communications Services, Inc. ("XO") (collectively, the "CLEC Coalition").  
17 NuVox filed the petition that initiated this proceeding. McLeodUSA and XO  
18 intervened and share the same interests as competitive local exchange carriers  
19 ("CLECs") operating in Missouri markets.  
20

1       **Q.     What is the purpose of your testimony?**

2  
3       **A.     The purpose of my testimony is to address the appropriate classification of**  
4               Missouri wire centers according to the Federal Communications Commission's  
5               ("FCC") *Triennial Review Remand Order* ("TRRO").<sup>2</sup> The TRRO defines AT&T  
6               Missouri's unbundling obligations for high capacity loops and transport according  
7               to different categories of wire centers determined by the number of business lines  
8               and fiber-based collocators in the wire center. In the testimony below, I outline  
9               the requirements of the FCC methodology, calculate preliminary counts of  
10              business lines and fiber-based collocators, and recommend a preliminary wire  
11              center list for the state.<sup>3</sup>

12  
13                               **II. CALCULATING BUSINESS LINES**

14  
15                                       **A. A Simple Solution**

16  
17       **Q.     Before you turn to a detailed discussion of the business line issue, do you**  
18               **have a preliminary comment and recommendation?**

---

<sup>2</sup> In the Matter of Unbundled Access to Network Elements, WC Docket No. 04-313, Review of Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers, CC Docket No. 1-338 (rel. Feb. 4, 2005) ("TRRO").

<sup>3</sup> As I explain in the testimony below, there are a number of areas where AT&T has refused to respond to discovery that are needed to propose a finalized list. For instance, AT&T will only provide business line data for 2003 and, even then, will not provide the data that it filed at the FCC for that same year. With the expectation that AT&T will be compelled to respond to pending discovery, I intend to finalize my recommendations in rebuttal testimony.

1       A.     Yes. As the Commission will see in the testimony that follows, most of the  
2       debate involving the business line calculation concerns how to apply the FCC's  
3       textual instructions in the *TRRO* to calculate a numeric value. There is another  
4       approach, however, that could simplify this process (at least as regards this initial  
5       wire center list): That is, the Commission could use the *same* data that the FCC  
6       relied upon in the *TRRO* when it established the business line thresholds.

7  
8       There is no question that AT&T Missouri has *already* provided the FCC with the  
9       number of business lines at each Missouri wire center (along with other RBOCs)  
10      during the *TRRO* proceeding, and that the FCC *relied* upon this data to set the  
11      thresholds for loop and transport unbundling.<sup>4</sup> Although AT&T has thus far  
12      refused to respond to discovery here in Missouri requesting that it provide the  
13      data that it provided the FCC,<sup>5</sup> it has explained in other state commission  
14      proceedings that the FCC fully expected the states to duplicate the same  
15      calculations that the FCC used in the *TRRO*:

16             To make the matter even more clear, the FCC performed a "dry  
17             run" of the [business line] rule in the proceedings that led to the  
18             *TRO Remand Order*. It directed the incumbents to provide  
19             business line counts ... [t]he incumbents complied, the FCC  
20             deemed the data sufficient to assess non-impairment, and it told the  
21             world that it expected the same calculations in practice.<sup>6</sup>  
22

---

<sup>4</sup>       The business line count that the FCC relied upon (and which was the basis for the FCC's non-impairment thresholds) was data provided by AT&T Missouri and other RBOCs in December of 2004 (reflecting line counts as of December 2003). See *TRRO* ¶ 114, n. 322.

<sup>5</sup>       See AT&T Missouri objection to NuVox-XO Request No. 1, RFI No. 1-7.

<sup>6</sup>       Reply Brief of SBC Indiana, Cause No. 42857 (filed October 28, 2005) at 9 (emphasis added).

1           Moreover, as AT&T pointed out in a state commission proceeding similar to this  
2           one, performing different calculations than the FCC relied upon could result in  
3           impairment findings that contradicted the findings of the FCC:

4                     That is why the FCC used that definition in its rule – so that parties  
5                     would maintain apples-to-apples consistency with its analysis.  
6                     Otherwise, impairment might be found in practice in wire centers  
7                     where the FCC had deemed CLECs are *not* impaired in its remand  
8                     proceedings.<sup>7</sup>  
9

10       **Q.     Did the FCC also use this business line count to establish the impairment**  
11       **thresholds?**

12  
13       A.     Yes. The FCC specifically adopted the relevant thresholds based on the business  
14       line count provided by AT&T Missouri and other RBOCs. As AT&T has  
15       explained, had the FCC expected the states would see different business line  
16       counts than the RBOCs provided the FCC in the *TRRO*, the FCC would have  
17       logically established different thresholds:

18                     [T]he FCC used the exact same basket [of UNE loops] in its “dry  
19                     run,” to set the threshold numbers of business lines that would  
20                     establish non-impairment. Plainly, the real-world tests should  
21                     remain consistent with the approach the FCC used to set its passing  
22                     grades. Had the FCC applied the different formula that the CLECs  
23                     propose now, it would undoubtedly have chosen a lower number of  
24                     business lines for its thresholds.<sup>8</sup>

---

<sup>7</sup>       SBC Indiana’s Initial Brief, Cause No. 42857, October 7, 2005 at Issue 3: p. 3 (emphasis added).

<sup>8</sup>       *Id.* at 10.



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The FCC's impairment determinations were made on a national basis based on the data that all of the ILECs provided. The definition of business line that the FCC established was based on this same information... Were the definition of business line to change as some CLECs have previously proposed, then the FCC's impairment analysis would need to reflect this change and, logically, the number of business lines required to meet the thresholds would need to be reduced.<sup>9</sup>

AT&T only addresses this concern based on its assumption that CLECs would propose interpreting the business line definition to decrease the business line count – a characterization that does *not* apply to my testimony, which is firmly grounded in the FCC's rule as written. Although AT&T did not point it out, the same concern applies equally to an ILEC interpreting the FCC's definition to substantially *increase* the number of business lines from the level reviewed by the FCC and embodied in its rule. Because AT&T is proposing to apply a different interpretation than the FCC adopted in order to increase the business line count, AT&T has resisted sharing with this Commission the number of business lines in Missouri that it provided to the FCC. Moreover, had the FCC adopted a definition that substantially increased the business line count, it is equally logical to conclude that the FCC would have had to increase the thresholds so that the impairment determinations would have been consistent with the data under review.

---

<sup>9</sup> Direct Testimony of AT&T Arkansas witness Carol Chapman, Arkansas Public Service Commission Docket No. 05-140-C, filed February 10, 2006, at 19.

1       **Q.     Are you recommending that the Commission use a different business line**  
2       **definition or thresholds than the FCC adopted?**

3  
4       A.     No, not at all. As I explain below, however, I believe the Commission must read  
5       the *full* definition to apply it correctly. What I am suggesting is that the actual  
6       business line count provided by AT&T-Missouri (then SBC) to the FCC during  
7       the TRRO is useful for two reasons.

8  
9       First, the business line count data that AT&T-Missouri provided the FCC could  
10      be used directly to reach impairment/non-impairment findings for this, the initial  
11      wire center list. There is no question that the FCC relied upon business line data  
12      provided by the RBOCs when it established the impairment/non-impairment  
13      thresholds. It is my understanding that AT&T is recommending that this  
14      Commission rely on data for the same time period (lines as of December 2003) as  
15      the data that the FCC relied upon in the *TRRO*. Obviously, in order for this  
16      Commission to obtain the same results as the FCC (when looking at data for the  
17      same year), then the calculation here has to be the same as the calculation of  
18      business lines that the FCC reviewed. The simplest way to assure consistent  
19      results is to use the same business line counts that the FCC relied upon.

20  
21      Alternatively, the business line data provided to the FCC can be used indirectly to  
22      judge the reasonableness of alternative interpretations of the business line  
23      definition. To the extent that the Commission does not rely on the actual data

1           relied upon by the FCC – for instance, by using data for a different time period –  
2           then it can judge the reasonableness of competing interpretations of the FCC’s  
3           rule by comparing the results to the data used by the FCC. The closer the result is  
4           to the calculation relied upon by the FCC, the more closely the Commission’s  
5           impairment findings will track those of the FCC.  
6

7           **Q.    Has AT&T-Missouri provided the business line count for Missouri that the**  
8           **FCC relied upon when establishing the thresholds?**  
9

10          A.    No. To date, AT&T has refused to permit the data to be presented to the  
11               Commission in this proceeding, even though, in AT&T’s own words, “the FCC  
12               deemed the data sufficient to assess non-impairment, and it told the world that it  
13               [the FCC] expected the same calculations in practice.”<sup>10</sup> NuVox and XO have  
14               filed a motion to compel production of this information and I would hope that the  
15               data will be available so that final recommendations can be made in rebuttal  
16               testimony.  
17

18                               **B. The Business Line Definition**  
19

20          **Q.    If the Commission does not adopt your “simple solution,” please explain how**  
21               **the Commission should recalculate the number of business lines in Missouri.**  
22

---

<sup>10</sup>       Reply Brief of SBC Indiana, Cause No. 42857 (filed October 28, 2005) at 9.

1       A.     The FCC's Business Line definition (47 C.F.R. § 51.5) consists of four sentences,  
2       each of which must be complied with in order for a line to be counted as a  
3       business line:

4               Business line. A business line is an incumbent LEC-owned  
5               switched access line used to serve a business customer, whether by  
6               the incumbent LEC itself or by a competitive LEC that leases the  
7               line from the incumbent LEC. The number of business lines in a  
8               wire center shall equal the sum of all incumbent LEC business  
9               switched access lines, plus the sum of all UNE loops connected to  
10              that wire center, including UNE loops provisioned in combination  
11              with other unbundled elements. Among these requirements,  
12              business line tallies (1) shall include only those access lines  
13              connecting end-user customers with incumbent LEC end-offices  
14              for switched services, (2) shall not include non-switched special  
15              access lines, (3) shall account for ISDN and other digital access  
16              lines by counting each 64 kbps-equivalent as one line. For  
17              example, a DS1 line corresponds to 24 64 kbps-equivalents, and  
18              therefore to 24 "business lines."<sup>11</sup>  
19

20             The most important step in applying the above definition is recognizing that all  
21             four sentences must be read together and applied in a manner that is internally  
22             consistent.

23  
24       **Q.     What do you mean by the statement that all four sentences must be read**  
25       **together and in a manner that is internally consistent?**

26  
27       A.     Based on positions that AT&T has adopted in other proceedings, the Commission  
28             will see that its approach is flawed because it adopts a reading of the FCC  
29             definition that is internally inconsistent, with each sentence of the definition

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<sup>11</sup>     47 CFR § 51.5.

1 conflicting with another. A more rational reading of the definition is one where  
2 each sentence builds upon another so that, in order to be counted, a business line  
3 must satisfy *each* of the requirements in the definition (and not just satisfy a  
4 single sentence while conflicting with others).

5  
6 **Q. Please explain how the FCC's definition logically builds a set of requirements**  
7 **that are internally consistent.**

8  
9 A. To begin, the first sentence in the definition establishes two conditions: (1) that  
10 only business lines are to be counted, and (2) whether a line is counted should not  
11 be affected by whether it is served by a CLEC leasing the loop from AT&T or by  
12 AT&T itself:

13 A business line is an incumbent LEC-owned switched access line  
14 used to serve a business customer, whether by the incumbent LEC  
15 itself or by a competitive LEC that leases the line from the  
16 incumbent LEC.  
17

18 The definition goes on to indicate the types of loops that should be counted (but  
19 *only* if the other elements of the definition are satisfied):

20 The number of business lines in a wire center shall equal the sum  
21 of all incumbent LEC business switched access lines, plus the sum  
22 of all UNE loops connected to that wire center, including UNE  
23 loops provisioned in combination with other unbundled elements.  
24 Among these requirements, business line tallies:

- 25  
26 (1) shall include only those access lines  
27 connecting end-user customers with  
28 incumbent LEC end-offices for switched  
29 services,  
30

- 1 (2) shall not include non-switched special  
2 access lines,  
3  
4 (3) shall account for ISDN and other digital  
5 access lines by counting each 64 kbps-  
6 equivalent as one line. For example, a DS1  
7 line corresponds to 24 64 kbps-equivalents,  
8 and therefore to 24 "business lines."  
9

10 The conjunctive phrase "among these requirements" clearly indicates that these  
11 sentences are to be read together in harmony, not in isolation as separate (and  
12 conflicting) instructions.  
13

14 **Q. Does AT&T calculate business lines in a manner that respects the internal**  
15 **consistency of the FCC's definition?**  
16

17 A. No. AT&T Missouri's methodology violates one or more of the requisite criteria  
18 in how it counts "business lines" by including: (a) residential lines served by  
19 CLECs using UNE loops (to the extent such loops exist); and (b) capacity on  
20 high-speed digital access lines leased to CLECs that are empty or used for data  
21 services. The rule unambiguously defines (not surprisingly) that a *business* lines  
22 is a "switched access line used to serve a business customer," and that the count  
23 "shall include only those access lines connecting end-user customers with  
24 incumbent LEC end-offices for switched services," not spare and/or carrying non-

1 switched data traffic.<sup>12</sup> AT&T Missouri's interpretation inflates the number of  
2 "business lines" and directly conflicts with the FCC's definition.

3  
4 **Q. How should UNE loops be counted under the FCC's *TRRO* and rules?**

5  
6 A. UNE loops must be counted in a manner that complies with the *full* FCC  
7 definition. This means that, in order to be counted, a UNE loop must be (1) used  
8 to serve a business customer; (2) used to provide switched services; and, to the  
9 *extent consistent with these requirements*, (3) each 64 kbps channel should be  
10 evaluated as one line. In addition, whether a line would be counted or not should  
11 not depend upon whether the customer is served by AT&T Missouri or the  
12 CLEC.<sup>13</sup> As a result, unless a UNE-loop arrangement would be counted by  
13 AT&T Missouri as a business line in ARMIS 43-08 if the same arrangement had  
14 connected to AT&T Missouri's switch,<sup>14</sup> then the UNE loop arrangement should  
15 not be counted for the CLEC either.

16  

---

<sup>12</sup> 47 CFR § 51.5. Emphasis added.

<sup>13</sup> This "parity" requirement is contained within the first sentence of the business line definition, which defines a business line as "an incumbent LEC-owned switched access line used to serve a business customer, *whether by the incumbent LEC itself or by a competitive LEC that leases the line from the incumbent LEC.*" (Emphasis added.)

<sup>14</sup> ARMIS 43-08 is the source for the AT&T Missouri retail line count. The full reading of the business line definition as recommended by my testimony would ensure that CLEC lines are counted consistently with the manner in which AT&T's retail lines are counted in ARMIS 43-08.

1       **Q.    Has AT&T Missouri faithfully applied the limiting criteria in the FCC rule**  
2           **(i.e., that the line must be used to serve a business customer, that only lines**  
3           **used to provide switched services should be counted, etc...)?**

4  
5       **A.    No. AT&T Missouri's application of the FCC definition is based on reading**  
6           **isolated components of the definition, while ignoring other requirements. This is**  
7           **most apparent by the way that AT&T Missouri interprets two sentences in the**  
8           **definition, to the exclusion of all other requirements.**

9  
10       First, AT&T Missouri places great emphasis on the second sentence of the  
11       definition which, when read in isolation, states:

12                   The number of business lines in a wire center shall equal the sum  
13                   of all incumbent LEC business switched access lines, plus the sum  
14                   of all UNE loops connected to that wire center, including UNE  
15                   loops provisioned in combination with other unbundled elements.  
16

17       AT&T Missouri claims that the sentence permits it to count all UNE-L, without  
18       regard to whether the lines satisfy *any* of the requirements to be considered a  
19       “business line.” Second, AT&T Missouri exploits an exemplar in the definition  
20       (describing how a DS1 *could* be counted) as an unconditional directive that the  
21       maximum potential capacity of high-speed digital services *should* be counted,  
22       again without regard to whether any of the threshold requirements to be counted  
23       as a business line are being satisfied.

24



1           Importantly, however, there is no absolute instruction in the definition that  
2           requires that all UNE loops – much less every 64 kbps channel – be counted as a  
3           business line, whether or not they otherwise meet the requirements of the  
4           definition. To the contrary, the definition applies additional requirements to both  
5           UNE loop arrangements and AT&T Missouri's retail lines that must also be  
6           satisfied before "a line" becomes "a business line." This is true for individual  
7           analog lines, as well as each "64 kbps equivalent" line.

8  
9           **Q.    Is your interpretation of the definition consistent with how ARMIS 43-08**  
10           **counts AT&T Missouri's retail lines?**

11  
12          A.    Yes. AT&T Missouri acknowledges that the FCC directed that its business  
13               switched access line counts use the ARMIS 43-08 definition, as indicated by the  
14               FCC in ¶105 of the *TRRO*.<sup>15</sup> The term "business switched access lines" is a  
15               defined term in ARMIS 43-08, which is the reporting system that the FCC  
16               directed be used to measure ILEC retail lines.<sup>16</sup> Importantly, the ARMIS  
17               instructions (attached as Exhibit JPG-2) require that AT&T Missouri report its

---

<sup>15</sup>       See *TRRO*, ¶ 105, n.303, specifically referencing a document from the FCC website:  
<http://www.fcc.gov/web/armis/documents/2004PDFs/4308c04.pdf> (see page 21 for definition of  
Business Switched Access Lines). As I explain later in my testimony, however, I disagree with  
AT&T Missouri when it claims that it must rely upon 2003 ARMIS 43-08 information,  
particularly when the FCC specifically referenced its instructions for the 2004 report.

<sup>16</sup>       *TRRO*, ¶ 105, n. 303.

1 lines in voice-equivalents,<sup>17</sup> but does not permit AT&T Missouri to count empty  
2 circuits or data circuits.<sup>18</sup> Because AT&T Missouri may not count empty or data  
3 circuits on a DS1 used to provide service to one of its customers (it may only  
4 count the activated circuit-paths),<sup>19</sup> it may not count idle and/or data capacity  
5 merely because the customer has shifted to a CLEC.

6  
7 **C. A Preliminary Missouri Business Line Count**

8  
9 **Q. Have you calculated a Missouri business line count that would conform to**  
10 **the FCC's rules?**

11  
12 A. Yes, but only to the extent possible given the limited data that AT&T has made  
13 available. Specifically, AT&T refuses to provide any data other than the data that  
14 AT&T claims should be used to calculate the business line count. The only data

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<sup>17</sup> See <http://www.fcc.gov/web/armis/documents/2004PDFs/4308c04.pdf> (page 21) defining ARMIS 43-08 Business Switched Access Lines as "total voice-grade equivalent analog or digital switched access lines to business customers." (Emphasis added.) Attached as Exhibit JPG-2.

<sup>18</sup> As indicated on page 20 of the instructions (attached as Exhibit JPG-2), the instructions for ARMIS 43-08 – like the FCC's business line definition here – make clear that AT&T Missouri may count "only those lines connecting end-user customers with their end offices for switched services."

<sup>19</sup> In proceedings in the Southeast, BellSouth has freely admitted that ARMIS 43-08 only permits an ILEC to count activated 64 kbps channels. See, for instance, Direct Testimony of BellSouth witness Pamela Tipton before the Georgia Public Service Commission, Docket No. 19341-U, page 31:

ARMIS 43-08 line counts only include provisioned or "activated 64 kbps channels that ride high capacity digital lines. For example, if a switched DS1 Carrier System had eighteen (18) 64 kbps channels provisioned as business lines for a customer, the ARMIS 43-08 would count only 18 business lines.

1 AT&T has provided is data as of December 2003, but notably NOT the data for  
2 this same year that AT&T provided to the FCC (as I discussed in the initial  
3 section of this testimony). AT&T refuses to provide data for any subsequent  
4 years,<sup>20</sup> including business line data for the same period that AT&T maintains the  
5 fiber-based collocator count should be conducted. Consequently, I have  
6 calculated a preliminary FCC-compliant business line count, but only for 2003.  
7 This analysis is useful to judge whether the approach I recommend is reasonable  
8 by comparing these results (for 2003) to the business line count relied upon by the  
9 FCC in the *TRRO* (which was calculated for 2003). As I explain below, however,  
10 if the Commission chooses to *recalculate* the business line count – that is, if it  
11 chooses to not simply rely on the same data as the FCC – then it must do so using  
12 more current data. The 2003 analysis presented here, however, would still be  
13 useful as a comparative measure of the reasonableness of my recommendations to  
14 those of AT&T Missouri.

15  
16 **Q. Why is the time period AT&T Missouri used (2003) inappropriate for the**  
17 **business line count?**

18  
19 **A.** AT&T Missouri is proposing a business line count that is fundamentally at odds  
20 with the count of fiber-based collocators and relies on information that is simply  
21 too old. To begin, when the FCC directed that ARMIS 43-08 data be used as the

---

<sup>20</sup> See AT&T objection to NUVOX-XO Request No. 1, RFIs Nos 1-4 and 1-5. The CLEC Coalition is attempting to obtain from AT&T the same back up information it supplied for its 2003 line count for the years 2004 and 2005.

1 source for Business Switched Access Lines, it specifically referenced the  
2 instructions for the 2004 ARMIS filing.<sup>21</sup> Had the FCC intended 2003 data to be  
3 used, it could have easily referenced the 2003 data then on file at the FCC (and  
4 part of the record in the *TRRO*).

5  
6 Moreover, AT&T Missouri is proposing to base its fiber-based collocater count  
7 (which is the second prong of the wire center analysis) on data as of March 11,  
8 2005.<sup>22</sup> The FCC's impairment standards employ both the business line count  
9 and the fiber-based collocater count – with the loop impairment standard  
10 requiring that both standards be satisfied at the same time – and it makes no sense  
11 to develop a wire center list that relies on data for business lines from 2003 and  
12 fiber-based collocaters from 2005.

13  
14 **Q. Why is it a problem to rely on obsolete business line data?**

15  
16 **A.** By relying on obsolete information, AT&T Missouri overstates the number of its  
17 retail Business Switched Lines, as well as UNE arrangements, all of which have  
18 declined since 2003.<sup>23</sup>

---

<sup>21</sup> See *TRRO*, ¶ 105, n. 303.

<sup>22</sup> See AT&T response to NuVox-XO Request No. 1, RFI No. 1-3.

<sup>23</sup> Although AT&T Missouri's retail business lines at the end of 2005 remained lower than their level in 2003, AT&T Missouri did report a 1.4% gain in the period 2004 to 2005, while UNE volumes declined by 36% in this same period.

**Table 1: Using Obsolete Data Overstates Business Lines<sup>24</sup>**

Measure <sup>25</sup>	Dec. 2003 to Dec. 2004	Dec. 2003 to Dec. 2005	Dec. 2003 to Jun. 2006
UNE-L	-6.6%	-21.0%	-26.1%
UNE-P	-2.2%	-41.3%	-44.4%
Business Switched Access Lines	-4.8%	-3.5%	

1  
2 **Q. Although limited to 2003 data, have you calculated UNE-L business lines to**  
3 **assure that *only* capacity used to provide switched services (as opposed to idle**  
4 **capacity or capacity used for data services) is included in the business line**  
5 **count?**

6  
7 **A.** As the Commission is well aware, high-speed digital loop capacity is typically  
8 used to provide a mix of voice and data services and is almost never entirely used  
9 to provide switched voice service. This fact has previously been testified to by  
10 AT&T (then called SBC), which argued that CLECs would routinely use such  
11 high capacity facilities to serve as few as 4 business lines, with the remaining “20  
12 lines” devoted to non-switched data services.<sup>26</sup>

13 I think the proof in the pudding is looking and seeing what CLECs  
14 do. And in my testimony and as I tried to say earlier, CLECs are  
15 offering integrated access services on as few as four-line  
16 minimums to customers at rates that are attractive and they're  
17 reporting big sales of those services. Xspedius offers integrated  
18 access where they'll put in the channel banks and they'll give you a  
19 T1 line, a fractional T1 line and four stations at an attractive rate.  
20 And that's their rack rate. That doesn't have anything to do with

<sup>24</sup> Sources: Missouri-specific UNE-P and UNE-L (AT&T Response to FCC Form 477 Local Competition Reports); Business Switched Access Lines (ARMIS 43-08).

<sup>25</sup> Data shown is based on statewide line counts.

<sup>26</sup> The maximum potential capacity of a high capacity DS1 circuit is “24 lines.”

1 regard to what special deals they'll make for you. AT&T offers it  
2 as low as five. They have one if you provide your own channel  
3 bank they'll offer it as low as you want. Sprint has six-line  
4 minimums on the rack rate.<sup>27</sup>  
5

6 AT&T Missouri (then SBC) sponsored similar testimony here, pointing out that  
7 CLECs would typically combine voice service with data services on high speed  
8 facilities.<sup>28</sup> The Commission reviewed similar claims and determined that the  
9 economic cross-over to serve a multi-line customer was eleven lines. I  
10 recommend that the Commission use this finding as a proxy for the average  
11 utilization of a DS-1 for voice services, which supports a finding that a 11:1  
12 conversion ratio) for high-speed capacity should be used to avoid counting  
13 capacity used for data and non-switched services.<sup>29</sup>  
14

15 **Q. Is a 50% fill rate (for switched voice service) consistent with other data and**  
16 **testimony you have reviewed?**  
17

18 A. Yes. BellSouth – the dominant provider in the Southeast and now an affiliate of  
19 AT&T Missouri – provided data documenting the average voice fill on the high-  
20 capacity loops it uses to serve its business customers. The recommendation to use

---

<sup>27</sup> Hearing Before the Texas Public Utility Commission, Docket No. 28607, *Impairment Analysis of Local Circuit Switching for the Mass Market*, Cross-examination of SBC witness Loehman, Tr. 802-803.

<sup>28</sup> See Testimony of Gary Fleming, Missouri Public Service Commission Case No. TO-2004-0207, Phase I, December 18, 2003, at 23-24.

<sup>29</sup> See Order Establishing Geographic Markets And Enterprise Market Cutoff, Missouri Public Service Commission Case No. TO-2004-0207, February 24, 2004.

1 the Missouri cross-over finding as a proxy (11:1) is entirely consistent with the  
2 BellSouth data. In addition, in nearby Oklahoma, CLEC Logix Communications  
3 testified that the industry average would be approximately 10 lines,<sup>30</sup> further  
4 demonstrating that the Missouri cross-over finding is likely to *overstate* the  
5 percentage of digital capacity being used as a Business Line.  
6

7 **Q. What are the results of the corrected business line calculations you**  
8 **performed?**  
9

10 A. Confidential Exhibit JPG-3 compares the corrected calculation discussed above to  
11 the line counts claimed by AT&T Missouri. On average, correcting AT&T  
12 Missouri's business line count to remove estimated spare and data capacity from  
13 high speed UNE Loops reduces the business line count claimed by AT&T  
14 Missouri by approximately 10.5% (in 2003). As JPG-3 shows, the corrected line  
15 count moves one wire center (STLSMO21) below the 38,000 line threshold,  
16 thereby restoring the impairment finding for DS3 loops in that wire center.<sup>31</sup> As I  
17 explain above, however, this analysis is based on 2003 data, which is  
18 inappropriately old to be used in this way (unless the Commission directly relies

---

<sup>30</sup> See Report of the Arbitrator, Oklahoma Corporation Commission Cause No. PUD 200600034, April 25, 2006, at 16.

<sup>31</sup> The reduction in business lines below the 38,000 line threshold has no effect on the St. Louis wire center's Transport Tier because the non-impairment test for transport can be satisfied based on the number of fiber-based collocators or the business line threshold.

1 on the data AT&T provided the FCC).<sup>32</sup> Nevertheless, the analysis does provide a  
2 useful comparison to the FCC's analysis, once AT&T has provided that data to  
3 the Commission.  
4

5 **III. COUNTING THE NUMBER OF FIBER-BASED COLLOCATORS**

6  
7 **A. The Key Determinants of a Fiber-Based Collocator**

8  
9 **Q. Please summarize the applicable FCC rules/text relating to how AT&T**  
10 **Missouri should count "fiber-based"<sup>33</sup> collocators.**

11  
12 **A. The FCC has defined a "fiber-based" collocator (FBC) as follows:**

13 Fiber-based collocator. A fiber-based collocator is any carrier,  
14 unaffiliated with the incumbent LEC, that maintains a collocation  
15 arrangement in an incumbent LEC wire center, with active  
16 electrical power supply, and operates a fiber-optic cable or  
17 comparable transmission facility that (1) terminates at a collocation  
18 arrangement within the wire center; (2) leaves the incumbent LEC  
19 wire center premises; and (3) is owned by a party other than the  
20 incumbent LEC or any affiliate of the incumbent LEC, except as  
21 set forth in this paragraph. Dark fiber obtained from an incumbent  
22 LEC on an infeasible right of use basis shall be treated as non-  
23 incumbent LEC fiber-optic cable. Two or more affiliated fiber-  
24 based collocators in a single wire center shall collectively be  
25 counted as a single fiber-based collocator. For purposes of this

---

<sup>32</sup> I note that an additional wire center (SPFDMOTU) is very close to failing the criteria for non-impairment and may be removed from the wire center list once more appropriate data is provided by AT&T. As indicated, I expect to update this preliminary analysis in subsequent testimony after AT&T has provided additional data

<sup>33</sup> The term *fiber-based* collocator is technology neutral and, as such, could include collocators that are not, in fact, fiber-based, so long as the transmission medium is comparable to fiber.



1 paragraph, the term affiliate is defined by 47 U.S.C. § 153(1) and  
2 any relevant interpretation in this Title.<sup>34</sup>  
3

4 In addition to setting out this definition, the FCC provided further guidance in  
5 ¶ 102 of the *TRRO* (explained below) that underscores the importance of ensuring  
6 that each fiber-based collocator represents a distinct transport facility leaving the  
7 wire center, unaffiliated with AT&T Missouri.  
8

9 **Q. What are the key elements of the FCC's fiber-based collocator definition?**  
10

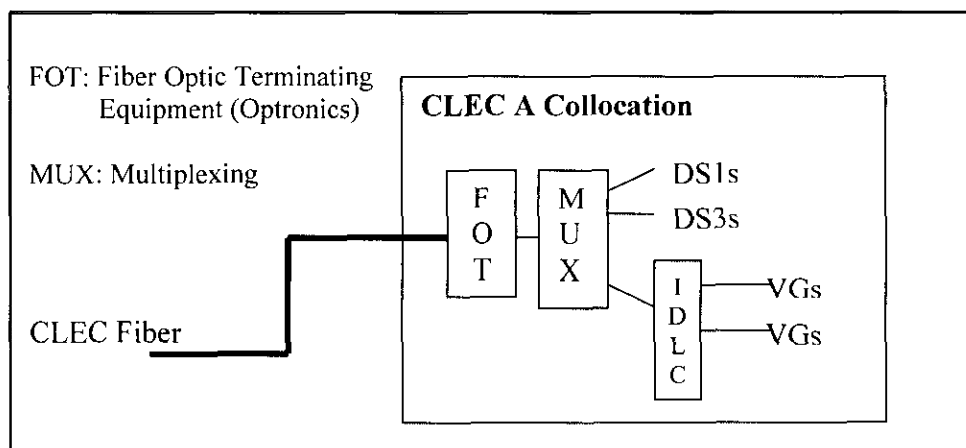
11 A. The FCC's definition of a "fiber-based collocator" focuses on identifying and  
12 counting the single point of termination for each competitive transport facility  
13 serving the wire center. The one-to-one relationship between the number of fiber-  
14 based collocators and distinct transport facilities is a key feature of the FCC's  
15 definition of a FBC, which requires a FBC to operate a fiber-optic cable (or  
16 comparable transmission facility) that terminates at a collocation arrangement  
17 within the wire center and leaves the wire center. The practical consequence of  
18 these requirements is that only collocations that terminate distinct transport  
19 facilities qualify as fiber-based collocations.  
20

21 Fiber optic networks "terminate" where fiber strands terminate into optonics  
22 equipment that determine system capacity.<sup>35</sup> As an engineering fact, any

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<sup>34</sup> 47 C.F.R. § 51.5

individual fiber strand will terminate once and only once in a wire center, because only one set of optronics (also known as fiber optic terminating equipment) can be installed on a fiber. Moreover, the carrier that installs the optronics equipment is the carrier that “operates” the fiber-optic cable, because it is this carrier that determines the capacity of the system and its operating characteristics. As a practical matter, what this means is that there is only one basic configuration that can be counted as a fiber-based collocater — i.e., where the collocater terminates the non-ILEC fiber strands into optronics equipment in the collocation bay. Schematically, this configuration appears as follows:



**Q. Is there a unique circumstance when a carrier leases dark-fiber from another carrier and installs its own optronics?**

**A. Yes.** There are times when one carrier leases dark fiber from another and activates the fiber by adding its own optronics. The FCC addressed this unique

<sup>35</sup> System capacity refers to the total capacity of the network as defined by its optronics (i.e., OC-12, OC-48, etc...).

1 circumstance by indicating that when a carrier leases dark fiber (typically under  
2 an indefeasible right of use (“IRU”) arrangement) – and then activates that fiber  
3 through its own optronics investment – then the carrier effectively operates a fiber  
4 facility that should be counted.<sup>36</sup> The FCC explained the role of dark-fiber IRU  
5 arrangements in the *TRRO*:

6 We find that when a company has collocation facilities connected  
7 to fiber transmission facilities obtained on an indefeasible right of  
8 use (IRU) basis from another carrier, including the incumbent  
9 LEC, these facilities shall be counted for purposes of this analysis  
10 and shall be treated as non-incumbent LEC fiber facilities.  
11 *Triennial Review Order*, 18 FCC Rcd at 17231-32, para. 408 &  
12 nn.1263, 1265.<sup>37</sup>

13  
14 To provide further emphasis, the FCC specifically linked the above discussion to  
15 its analysis in the *Triennial Review Order*<sup>38</sup> (§ 408 and nn. 1263 and 1265,  
16 emphasis added) that states:

17 The competitive transport providers identified to satisfy this trigger  
18 on a route must be unaffiliated with the incumbent LEC and each  
19 other.<sup>[n. 1263]</sup> This requires that separate facilities are counted and  
20 avoids counting as a true alternative a provider that uses the  
21 transport facilities of the incumbent LEC or another alternative  
22 provider to provide service on that route. We find, however, that  
23 when a company has obtained dark fiber from another carrier on a  
24 long-term IRU basis and activated that fiber with its own

---

<sup>36</sup> This is true even when the dark fiber is obtained under an IRU from AT&T Missouri. My understanding, however, is that AT&T Missouri does not currently offer dark fiber under IRU agreements.

<sup>37</sup> *TRRO*, ¶ 102.

<sup>38</sup> *Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers; Implementation of the Local Competition Provisions of the Telecommunications Act of 1996; Deployment of Wireline Services Offering Advanced Telecommunications Capability*, CC Docket Nos. 01-338, 96-98, 98-147 Report and Order and Order on Remand and Further Notice of Proposed Rulemaking, 18 FCC Rcd 16978 (2003) (“*TRO*”), *corrected by errata filing*, 18 FCC Rcd 19020 (2003) (“*TRO Errata*”).

1                   optronics, that facility should be counted as a separate, unaffiliated  
2                   facility.<sup>[n. 1263]</sup>  
3

4                   Footnote 1263 in the *Triennial Review Order* (referenced above) goes on to  
5                   explain:

6                   As discussed above, we find, for the limited purposes described  
7                   herein, that when a company acquires dark fiber, but not lit fiber,  
8                   from another carrier on a long-term IRU or comparable basis, that  
9                   facility should be counted as a separate, unaffiliated facility.<sup>39</sup>  
10

11                  And footnote 1265 further states:

12                  ... a competing carrier that has obtained dark fiber transport  
13                  facilities from the incumbent LEC on an IRU basis should be  
14                  considered to operate its own unaffiliated facilities. We believe  
15                  that dark fiber IRU-type contracts protect against short-term  
16                  gaming of this trigger. Moreover, we do not want to foreclose  
17                  incumbent LECs from negotiating dark fiber IRU agreements with  
18                  competitive LECs. Because we want to be certain of the  
19                  independent ownership of the transport facilities, we find that  
20                  consideration of transport facilities transferred on an IRU basis is  
21                  limited to dark fiber and does not include "lit" fiber IRUs.<sup>40</sup>  
22

23                  This discussion makes clear that the only time a second carrier (sharing a fiber  
24                  cable) should be considered a fiber-based collocater is when that second carrier  
25                  has installed the optronics and obtained the underlying dark fiber under an IRU.  
26

27       **Q.     Thus far, you have focused your discussion on carriers that are, in fact, fiber-**  
28       **based. What non-fiber optic cable facilities qualify as "comparable**  
29       **transmission facilities"?**

---

<sup>39</sup>       *TRO*, n. 1263, emphasis added.

<sup>40</sup>       *TRO*, n. 1265, emphasis added.

1       A.     To begin, it is important to emphasize that the vast majority of competitively  
2             deployed networks are, in fact, fiber. As a result, it is most useful to discuss the  
3             FCC's rules in the context of *fiber*-based collocators, because that will be the  
4             most common occurrence. The FCC did indicate, however, that it intended for its  
5             FBC count to be technologically "agnostic" and directed that other networks that  
6             are "comparable" to fiber networks be considered.<sup>41</sup>

7  
8             It is useful to understand that the transmission facility that must be "comparable"  
9             to fiber must be comparable as an inter-office transmission facility. After all, it is  
10            the fiber cable that leaves the wire center that the alternative transmission facility  
11            must be comparable to. In this regard, I am unaware of any interoffice fiber  
12            facility that operates at less than OC-3 (3 DS3) speeds, with OC-12 capacity being  
13            far more common. Consequently, at a minimum, in order for a transmission  
14            facility to be considered "comparable" to fiber-optic cable, it must *at least* be  
15            capable of carrying 3 DS3s of capacity, outside the central office, at typical  
16            interoffice distances (*i.e.*, several miles).

---

<sup>41</sup>       See *TRRO*, n. 295.

**B. A Preliminary Missouri Fiber-Based Collocation Count**

**Q. Have you validated the number of fiber-based collocation arrangements claimed by AT&T Missouri?**

**A.** Yes. Staff required named fiber-based collocators to either confirm or deny whether they are fiber-based collocators.<sup>42</sup> As a result of this process, two carriers (Birch and NuVox) have denied that they are, in fact, fiber-based collocators in Missouri. As shown on Confidential Exhibit JPG-4, however, a corrected count of fiber-based collocators does not change the wire classifications in Missouri. Exhibit JPG-4 does show, however, that the correction in the business line count removes the non-impairment finding for DS3 loops in the STLMO21 wire center (as discussed in the prior section).<sup>43</sup>

**V. CONCLUSION**

**Q. Please summarize your testimony.**

**A.** The *TRRO* sets forth a practical test to identify which wire centers should qualify for reduced unbundling obligations. The Commission must review AT&T

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<sup>42</sup> I note that Staff's initiative in obtaining sworn validations greatly simplifies the debate in Missouri surrounding the fiber-based collocator issue.

<sup>43</sup> As I indicated earlier, the preliminary wire center list shown in Confidential Exhibit JPG-4 may have additional changes once AT&T has provided additional data.

1 Missouri claims so that carriers are confident that AT&T Missouri delisting  
2 assertions are supported by the facts and a clear reading of the FCC's rules.

3

4 **Q. Does this conclude your testimony?**

5

6 **A. Yes.**

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**Education**

B.A. Economics, University of Wyoming, 1978.  
M.A. Economics, University of Wyoming, 1979.

**Professional History**

*Gillan Associates, Economic Consulting (1987-Present)*

In 1987, Mr. Gillan established a private consulting practice specializing in the economic evaluation of regulatory policies and business opportunities in the telecommunications industry. Since forming his consulting practice in 1987, Mr. Gillan has advised business clients as diverse as AT&T and TDS Telecom (a small entrant seeking the authority to compete in a rural area). Key projects include:

- \* Evaluated the potential applicability of the FCC's Benchmark Cost Proxy Model to estimate network costs in the Cayman Islands for Cable and Wireless, the incumbent local exchange carrier.
- \* Retained to evaluate the structure, operation and level of the Texas Universal Service Fund on behalf of the Texas Cable and Telecommunications Association and Time Warner Telecom. Also retained to advise Time Warner Telecom on possible reform of the California Universal Service Fund.
- \* Mr. Gillan has testified over 280 times before approximately 40 state commissions. In addition, Mr. Gillan has testified before the state legislative committees in six states, he has filed testimony with the Senate Commerce Committee and testified before the Federal/State Joint Board.

*Vice President, US Switch, Inc. (1985-1987)*

Responsible for crafting the US Switch business plan to gain political acceptance and government approval. US Switch pioneered the concept of "centralized equal access," which positioned independent local telephone companies for a competitive long distance market. While with US Switch, Mr. Gillan was responsible for contract negotiation/marketing with independent telephone companies and project management for the company's pilot project in Indiana.

*Policy Director/Market Structure - Illinois Commerce Commission (1980-1985)*

Primary staff responsibility for the policy analysis of issues created by the emergence of competition in regulated markets, in particular the telecommunications industry. Mr. Gillan served on the staff subcommittee for the NARUC Communications Committee and was appointed to the Research Advisory Council overseeing NARUC's research arm, the National Regulatory Research Institute.

*Mountain States Telephone Company - Demand Analyst (1979)*

Performed statistical analysis of the demand for access by residential subscribers.



**Professional Appointments**

Guest Lecturer	Northwestern University Law School 2007
Guest Lecturer	School of Laws, University of London, 2002
Instructor	Michigan State University, Regulatory Instructional Program, 2005-Present
Instructor	Principles of Regulation, New Mexico State University Center for Regulation
Advisory Council	New Mexico State University, Center for Regulation, 1985 – Present
Faculty	Summer Program, Public Utility Research and Training Institute, University of Wyoming, 1989-1992
Contributing Editor	<u>Telematics: The National Journal of Communications Business and Regulation</u> , 1985 - 1989
Chairman	Policy Subcommittee, NARUC Staff Subcommittee on Communications, 1984-1985
Advisory Committee	National Regulatory Research Institute, 1985
Distinguished Alumni	University of Wyoming, 1984

**Selected Publications**

"The Local Exchange: Regulatory Responses to Advance Diversity", with Peter Rohrbach, Public Utilities Fortnightly, July 15, 1994.

"Reconcentration: A Consequence of Local Exchange Competition?", with Peter Rohrbach, Public Utilities Fortnightly, July 1, 1994.

"Diversity or Reconcentration?: Competition's Latent Effect", with Peter Rohrbach, Public Utilities Fortnightly, June 15, 1994.

"Consumer Sovereignty: An Proposed Approach to IntraLATA Competition", Public Utilities Fortnightly, August 16, 1990.

"Reforming State Regulation of Exchange Carriers: An Economic Framework", Third Place, University of Georgia Annual Awards Competition, 1988, Telematics: The National Journal of Communications, Business and Regulation, May, 1989.

"Regulating the Small Telephone Business: Lessons from a Paradox", Telematics: The National Journal of Communications, Business and Regulation, October, 1987.

"Market Structure Consequences of IntraLATA Compensation Plans", Telematics: The National Journal of Communications, Business and Regulation, June, 1986.

**Selected Publications (Continued)**

"Universal Telephone Service and Competition on the Rural Scene", Public Utilities Fortnightly, May 15, 1986.

"Strategies for Deregulation: Federal and State Policies", with Sanford Levin, Proceedings, Rutgers University Advanced Workshop in Public Utility Economics, May 1985.

"Charting the Course to Competition: A Blueprint for State Telecommunications Policy", Telematics: The National Journal of Communications Business, and Regulation, with David Rudd, March, 1985.

"Detariffing and Competition: Options for State Commissions", Proceedings of the Sixteenth Annual Conference of Institute of Public Utilities, Michigan State University, December 1984.

**Listing of Expert Testimony – Court Proceedings**

*MCI, L.L.C. dba Verizon Business vs. Vorst Paving, Inc.*, (Civil Action NO. CV: 106-064 District Court for the Southern District Of Georgia) (Damages Claim)

*United States of America v. SBC Communications Inc. and AT&T Corp.* (Civil Action No. 1:05CV02102 District Court for the District of Columbia) (Inadequacy of Proposed Final Judgment Settling SBC Merger with AT&T)

*United States of America v. Verizon Communications Inc. and MCI Inc.* (Civil Action No. 1:05CV02103 District Court for the District of Columbia) (Inadequacy of Proposed Final Judgment Settling Verizon Merger with MCI)

*T & S Distributors, LLC, ACD Telecom, Inc, Telnet Worldwide, Inc et al. v. Michigan Bell Telephone Company* (Civil Action No. 04-689-CK Ingham Circuit Court, State of Michigan) (Enforcement of contract; Industry definitions of local exchange service and end user)

*Dwayne P. Smith, Trustee v. Lucent Technologies* (Civil Action No. 02-0481 Eastern District of Louisiana)(Entry and CLEC Performance)

*BellSouth Intellectual Property v. eXpeTel Communications* (Civil Action No. 3:02CV134WS Southern District of Miss.)(Service definition, industry structure and Telecom Act of 1996)

*CSX Transportation Inc. v. Qwest International, Inc.* (Case No. 99-412-Civ-J-21C Middle District of Florida) (industry structure and wholesale contract arrangements).

*Winn v. Simon* (No. 95-18101 Hennepin Cty. Dist. Ct.)(risk factors affecting small long distance companies)

*American Sharecom, Inc. v. LDB Int'l Corp.* (No. 92-17922, Hennepin County District Court) (risk factors affecting small long distance companies)

*World Com, Inc. et al. v. Automated Communications, Inc. et al.* (No. 3:93-CV-463WS, S.D. Miss.) (damages)

**International Assignments**

*Recovering Contribution: Lessons from the United States' Experience*, Report submitted to the Canadian Radio-television and Telecommunications Commission on behalf of CallNet.

*Forcing a Square Peg into a Round Hole: Applying the Universal Service Cost Model in the Cayman Islands*, Analysis Presented to the Government of the Cayman Islands on behalf of Cable and Wireless.

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Missouri	Case TO-2006-0360	Wire Center Classification	CLEC Coalition
FCC	WC Docket 06-172	E911 as Measure of Local Comp	CLEC Coalition
Georgia	Docket 14361-U	Time Value of Money	CLEC Coalition
Kentucky	Case No. 2006-000316	271 Pricing – Loop and Switch	Southeast Tel
New York	Case No. 06-C-0897	Verizon Pricing Flexibility	CompTel/XO
Tennessee	Docket 06-00093	AT&T-BellSouth Acquisition	CLEC Coalition
Mississippi	No. 2006-UA-164	AT&T-BellSouth Acquisition	NuVox/TWTC
Kentucky	Case No. 2006-00136	AT&T-BellSouth Acquisition	NuVox/Xspedius
Indiana	Cause No. 42986	Wire Center Impairment List	COVAD/NuVox
Ohio	05-1393-TP-UNC	Wire Center Impairment List	CLEC Coalition
Illinois	Docket 06-0029	Wire Center Impairment List	CLEC Coalition
Illinois	Docket 06-0027	AT&T Illinois Deregulation	Data Net Systems
Oklahoma	Cause PUD 20060034	Wire Center Impairment List	CLEC Coalition
Kansas	06-SWBT-743-COM	Wire Center Impairment List	CLEC Coalition
Arkansas	Docket 05-140-C	Wire Center Impairment List	CLEC Coalition
Georgia	Docket 19341-U (II)	Establishing Section 271 Rates	CompSouth
Texas	Docket 31303	Wire Center Impairment List	CLEC Coalition
Washington	Docket UT-050814	Verizon-MCI Merger	Covad
California	Application 05-04-020	Verizon-MCI Merger	Cox
California	Application 05-04-020	Verizon-MCI Merger	Covad/CalTel
Oklahoma	Cause 200400695	Supersedes Bond	Cox
Florida	Docket 041269-TP	TRRO Implementation	CompSouth
Mississippi	Docket 2005-AD-139	TRRO Implementation	CompSouth
South Carolina	Docket 2004-316-C	TRRO Implementation	CompSouth

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Kentucky	Case No. 2004-00427	TRRO Implementation	CompSouth
Alabama	Docket No. 29543	TRRO Implementation	CompSouth
Louisiana	Docket No. U-28356	TRRO Implementation	CompSouth
North Carolina	Docket P-55, Sub 1549	TRRO Implementation	CompSouth
Tennessee	Docket No. 04-00381	TRRO Implementation	CompSouth
Georgia	Docket No. 19341-U	TRRO Implementation	CompSouth
California	Application 05-02-027	SBC-AT&T Merger	Cox
California	Application 05-02-027	SBC-AT&T Merger	CalTel
Oklahoma	Cause 200400695	SBC Deregulation	Cox
Kansas	05-SWBT-907-PDR	SBC Deregulation	Cox-WorldNet
Wisconsin	6720-TI-196	SBC Deregulation	CUB
Oklahoma	Cause 200400042	Status of Local Competition	Cox
Michigan	Case U-14323	SBC Deregulation	Talk America
Oklahoma	Cause RM 200400014	Regulatory Flexibility for SBC	CLEC Coalition
New Mexico	Case No. 3567	Regulation of Wireless Carriers	Wireless Coalition
North Carolina	Docket P-19 Sub 277	Alternative Regulation	CompSouth
North Carolina	Docket P-55 Sub 1013	Alternative Regulation	CompSouth
Mississippi	Docket 2003-AD-714	Switching Impairment	CompSouth
Kentucky	Case No. 2003-00379	Switching Impairment	CompSouth
Texas	Docket 28607	Switching Impairment	CLEC Coalition
Massachusetts	D.T.E 03-60	Switching Impairment	CLEC Coalition
Louisiana	Docket U-27571	Switching Impairment	CompSouth
New Jersey	Docket TO03090705	Switching Impairment	CLEC Coalition
Kansas	03-GIMT-1063-GIT	Switching Impairment	CLEC Coalition
South Carolina	Docket 2003-326-C	Switching Impairment	CompSouth
Alabama	Docket 29054	Switching Impairment	CompSouth
Illinois	Docket No. 03-0595	Switching Impairment	AT&T
Indiana	Cause No. 42500	Switching Impairment	AT&T
Pennsylvania	Case I-00030099	Switching Impairment	CLEC Coalition

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Tennessee	Docket No. 03-00491	Switching Impairment	CompSouth
North Carolina	P-100, Sub 133Q	Switching Impairment	CompSouth
Georgia	Docket No. 17749-U	Switching Impairment	CompSouth
Missouri	Case TW-2004-0149	Switching Impairment	CLEC Coalition
Michigan	Case No. U-13796	Switching Impairment	CLEC Coalition
Florida	Docket No. 030851-TP	Switching Impairment	FCCA
Ohio	Case 03-2040-TP-COI	Switching Impairment	AT&T/ATX
Wisconsin	05-TI-908	Switching Impairment	AT&T
Washington	UT-023003	Local Switching Rate Structure	AT&T/MCI
Arizona	T-00000A-00-0194	UNE Cost Proceeding	AT&T/WCOM
Illinois	Docket 02-0864	UNE Cost Proceeding	AT&T
North Carolina	P-55, Sub 1013 P-7, Sub 825 P-19, Sub 277	Price Cap Proceedings	CLEC Coalition
Kansas	02-GIMT-555-GIT	Price Deregulation	Birch/AT&T
Texas	Docket No. 24542	Cost Case	AT&T
North Carolina	Docket P-100, Sub 133d	UNE Cost Proceeding	CLEC Coalition
Georgia	Docket No. 11901-U	DSL Tying Arrangement	WorldCom
Tennessee	Docket No. 02-00207	UNE Availability/Unbundling	CLEC Coalition
Utah	Docket No. 01-049-85	Local Switching Costs/Price	AT&T
Tennessee	Docket No. 97-00309	Section 271 Compliance	CLEC Coalition
Illinois	Docket No. 01-0662	Section 271 Compliance	AT&T
Georgia	Docket No. 14361-U	UNE Availability/Unbundling	CLEC Coalition
Florida	Docket 020507-TL	Unlawful DSL Bundling	CLEC Coalition
Tennessee	Docket No. 02-00207	UNE Availability/Unbundling	CLEC Coalition
Georgia	Docket No. 14361-U	UNE Costs and Economics	AT&T/WorldCom
Florida	Docket 990649-TP	UNE Cost and Price Squeeze	AT&T/WorldCom
Minnesota	P-421/CI-01-1375	Local Switching Costs/Price	AT&T
Florida	Docket 000075-TP	Intercarrier Compensation	WorldCom
Texas	Docket No. 24542	Unbundling and Competition	CLEC Coalition
Illinois	Docket 00-0732	Certification	Talk America

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Indiana	Cause No. 41998	Structural Separation	CLEC Coalition
Illinois	Docket 01-0614	State Law Implementation	CLEC Coalition
Florida	Docket 96-0768	Section 271 Application	SECCA
Kentucky	Docket 2001-105	Section 271 Application	SECCA
FCC	CC Docket 01-277	Section 271 for GA and LA	AT&T
Illinois	Docket 00-0700	Shared Transport/UNE-P	CLEC Coalition
North Carolina	Docket P-55 Sub 1022	Section 271 Application	SECCA
Georgia	Docket 6863-U	Section 271 Application	SECCA
Alabama	Docket 25835	Section 271 Application	SECCA
Michigan	Case No. U-12622	Shared Transport/UNEs	AT&T
Ohio	Case 00-942-TP-COI	Section 271 Application	AT&T
Alabama	Docket No. 25835	Structural Separation	SECCA
Alabama	Docket No. 27821	UNE Cost Proceeding	ITC^Deltacom
Louisiana	Docket U-22252	Section 271 Application	SECCA
Mississippi	Docket 97-AD-321	Section 271 Application	SECCA
South Carolina	Docket 2001-209-C	Section 271 Application	SECCA
Colorado	Docket 99A-577T	UNE Cost Proceeding	AT&T
Arizona	Case T-00000A-00-0194	UNE Cost Proceeding	AT&T
Washington	Docket UT-003013	Line Splitting and Combinations	AT&T
Ohio	Case 00-1368-TP-ATA Case 96-922-TP-UNE	Shared Transport	AT&T/PACE
North Carolina	P-100 Sub 133j	Standard Collocation Offering	CLEC Coalition
Florida	Docket 990649-TP	UNE Cost Proceeding	CLEC Coalition
Michigan	Case No. U-12320	UNE Combinations/Section 271	AT&T
Florida	Docket 00-00731	Section 251 Arbitration	AT&T
Georgia	Docket 5825-U	Universal Service Fund	CLEC Coalition
South Carolina	97-239-C	Universal Service Fund	CLEC Coalition
Texas	PUC Docket 22289/95	ETC Designation	Western Wireless
Washington	Docket UT-003013	UNE Costs and Local Competition	AT&T
New York	Docket 98-C-1357	UNE Cost Proceeding	Z-Tel

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Colorado	Docket 00K-255T	ETC Designation	Western Wireless
Kansas	99-GCCZ-156-ETC	ETC Designation	Western Wireless
New Mexico	98-484-TC	ETC Designation	Western Wireless
Illinois	Docket 99-0535	Cost of Service Rules	AT&T/MCI
Colorado	Docket 00-B-103T	U S WEST Arbitration	ICG Comm.
North Dakota	PU-1564-98-428	ETC Designation	Western Wireless
Illinois	Docket 98-0396	Shared Transport Pricing	AT&T/Z-Tel
Florida	Docket 981834-TP	Collocation Reform	CLEC Coalition
Pennsylvania	M-00001353	Structural Separation of Verizon	CompTel/ATX
Illinois	Docket 98-0860	Competitive Classification of Ameritech's Business Services	CompTel/ AT&T
Georgia	Docket 6865-U	Complaint re: Combinations	MCIWorldcom
Virginia	Case No. PUC 990100	GTE/Bell Atlantic Merger	AT&T
Florida	Docket 990649-TP	UNE Cost and Pricing	CLEC Coalition
Nebraska	Application C-1960/PI-25	IP Telephony and Access Charges	ICG Communications
Georgia	Docket 10692-U	Pricing of UNE Combinations	CLEC Coalition
Colorado	Docket 99F-141T	IP Telephony and Access	Qwest
California	Case A. 98-12-005	GTE/Bell Atlantic Merger	AT&T/MCI
Indiana	Case No. 41255	SBC/Ameritech Merger	AT&T
Illinois	Docket 98-0866	GTE/Bell Atlantic Merger	AT&T
Ohio	Case 98-1398-TP-AMT	GTE/Bell Atlantic Merger	AT&T
Tennessee	Docket 98-00879	BellSouth BSE	SECCA
Missouri	Case TO-99-227	§ 271 Review: SBC	AT&T
Colorado	Docket 97A-540T	Stipulated Price Cap Plan/USF	CLEC Coalition
Illinois	ICC Docket 98-0555	SBC/Ameritech Merger	AT&T
Ohio	Case 98-1082-TP-AMT	SBC/Ameritech Merger	AT&T
Florida	Docket 98-1121-TP	UNE Combinations	MCI WorldCom
Georgia	6801-U	§ 251 Arbitration: BellSouth	AT&T
Florida	92-0260-TL	Rate Stabilization Plan	FIXCA

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
South Carolina	Docket 96-375	§ 251 Arbitration: BellSouth	AT&T
Kentucky	Docket 96-482	§ 251 Arbitration: BellSouth	AT&T
Wisconsin	05-TI-172/5845-NC-101	Rural Exemption	TDS Metro
Louisiana	U-22145	§ 251 Arbitration: BellSouth	AT&T
Mississippi	96-AD-0559	§ 251 Arbitration: BellSouth	AT&T
North Carolina	P-140-S-050	§ 251 Arbitration: BellSouth	AT&T
Tennessee	96-01152	§ 251 Arbitration: BellSouth	AT&T
Arizona		§ 251 Arbitration: US West	AT&T Wireless
Florida	96-0883-TP	§ 251 Arbitration: BellSouth	AT&T
Montana	D96.11.200	§ 251 Arbitration: US West	AT&T
North Dakota	PU-453-96-497	§ 251 Arbitration: US West	AT&T
Texas	Docket 16226	§ 251 Arbitration: SBC	AT&T/MCI
Alabama	Docket 25703	§ 251 Arbitration: BellSouth	AT&T
Alabama	Docket 25704	§ 251 Arbitration: GTE	AT&T
Florida	96-0847-TP	§ 251 Arbitration: GTE	AT&T
Kentucky	Docket 96-478	§ 251 Arbitration: GTE	AT&T
North Carolina	P-140-S-51	§ 251 Arbitration: GTE	AT&T
Texas	Docket 16630	§ 251 Arbitration: SBC	LoneStar Net
South Carolina	Docket 96-358	§ 251 Arbitration: GTE	AT&T
Texas	Docket 16251	§ 271 Review: SBC	AT&T
Oklahoma	97-0000560	§ 271 Review: SBC	AT&T
Kansas	97-SWBT-411-GIT	§ 271 Review: SBC	AT&T
Alabama	Docket 25835	§ 271 Review: BellSouth	AT&T
Florida	96-0786-TL	§ 271 Review: BellSouth	FCCA
Georgia	Docket 6863-U	§ 271 Review: BellSouth	AT&T
Kentucky	Docket 96-608	§ 271 Review: BellSouth	AT&T
Louisiana	Docket 22252	§ 271 Review: BellSouth	AT&T
Texas	Docket 16226	UNE Cost	AT&T/MCI
Colorado	97K-237T	Access Charges	AT&T



**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Mississippi	97-AD-321	§ 271 Review: BellSouth	AT&T
North Carolina	P-55 Sub 1022	§ 271 Review: BellSouth	AT&T
South Carolina	97-101-C	§ 271 Review: BellSouth	AT&T
Tennessee	97-00309	§ 271 Review: BellSouth	AT&T
Tennessee	96-00067	Wholesale Discount	AT&T
Tennessee	97-00888	Universal Service	AT&T
Texas	Docket 15711	GTE Certification as CLEC	AT&T
Kentucky	97-147	BellSouth BSE Certification	SECCA
Florida	97-1056-TX	BellSouth BSE Certification	FCCA
North Carolina	P691 Sub O	BellSouth BSE Certification	SECCA
Florida	98-0696-TP	Universal Service	FCCA
New York	97-C-271	§ 271 Review: Bell Atlantic	CompTel
Montana	D97.5.87	§ 271 Review: US West	AT&T
New Mexico	97-106-TC	§ 271 Review: US West	AT&T/CompTel
Nebraska	C-1830	§ 271 Review: US West	AT&T
Alabama	Docket 25980	Universal Service	AT&T
Kentucky	Admin 360	Universal Service	AT&T
North Carolina	P100-S133B	Universal Service	AT&T
North Carolina	P100-S133G	Universal Service	AT&T
Illinois	95-0458/0531	Combined Network Elements	WorldCom
Illinois	96-0486/0569	Network Element Cost/Tariff	WorldCom
Illinois	96-0404	§ 271 Review: Ameritech	CompTel
Florida	97-1140-TP	Combining Network Elements	AT&T/MCI
Pennsylvania	A-310203-F0002	Local Competition	CompTel
Georgia	6415-U/6527-U	Local Competition	CompTel
Illinois	98-NOI-1	Structural Separation	CompTel/Qwest
New York	98-C-690	Combining Network Elements	CompTel
Texas	Docket 17579	§ 251 Arbitration: SBC (2nd)	AT&T/MCI
Texas	Docket 16300	§ 251 Arbitration: GTE	AT&T

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Florida	Docket 920260-TL	Price Cap Plan	IXC Coalition
Louisiana	Docket U22020	Resale Cost Study	AT&T/LDDS
California	Docket R.93-04-003	Rulemaking on Open Network Architecture	LDDS/WorldCom
Tennessee	Docket 96-00067	Avoidable Cost/Resale Discount	AT&T
Georgia	Docket 6537-U	Unbundled Loop Pricing	CompTel
Georgia	Docket 6352	Rules for Network Unbundling	AT&T
Pennsylvania	Docket A-310203F0002	Introducing Local Competition	CompTel
Florida	Docket 95-0984-TP	Interconnection Terms and Prices	AT&T
Kentucky	Case No. 365	Local Competition/Universal Service	WorldCom
Mississippi	Docket 95-UA-358	Introducing Local Competition	AT&T/WorldCom
Florida	Docket 95-0984-TP	Interconnection Terms and Prices	AT&T
Illinois	Docket 95-0458	Wholesale Local Services	WorldCom
California	Dockets R.95-04-043/044	Local Competition	WorldCom
Florida	Docket 95-0696-TP	Universal Service and Carrier of Last Resort Obligations	IXC Coalition
Georgia	Docket 5755-U	Removing Subsidies from Access	AT&T
South Carolina	Docket 95-720-C	Price Regulation	ACSI
Michigan	Case No. U-10860	Interconnection Agreement	WorldCom
Mississippi	Docket 95-US-313	Price Regulation Plan	WorldCom/AT&T
Missouri	Case TR-95-241	Expanded Local Calling	MCI
Washington	Docket UT-941464	Interconnection Complaint	IXC Coalition
Maryland	Case No. 8584 – Phase II	Introducing Local Competition	WorldCom
Massachusetts	DPU 94-185	Introducing IntraLATA and Local Competition	WorldCom
Wisconsin	Docket 6720-TI-111	IntraLATA Equal Access	Schneider Com.
North Carolina	Docket P-100, Sub 126	Expanded Local Calling	LDDS
Georgia	Docket 5319-U	IntraLATA Equal Access	MCI/LDDS

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Mississippi	Docket 94-UA-536	Price/Incentive Regulation	LDDS
Georgia	Docket 5258-U	Price Regulation Plan	LDDS
Florida	Docket 93-0330-TP	IntraLATA Equal Access	IXC Coalition
Alabama	Docket 23260	Access Transport Rate Structure	LDDS
New Mexico	Docket 94-204-TC	Access Transport Rate Structure	LDDS
Kentucky	Docket 91-121	Alternative Regulation Proposal	Sprint, AT&T and LDDS
Texas	Docket 12784	Access Transport Rate Structure	IXC Coalition
Illinois	Docket 94-0096	Customer's First Proposal	LDDS
Louisiana	Docket U-17949-D	Alternative Regulation	AT&T, Sprint and LDDS
New York	Case No. 93-C-0103	Rochester Plan-Wholesale/Retail	LDDS
Illinois	Dockets 94-0043/46	Access Transport Rate Structure	IXC Coalition
Florida	Docket 92-1074-TP	Expanded Interconnection	Intermedia
Louisiana	Docket U-20800	Access Transport Rate Structure	LDDS
Tennessee	Docket 93-008865	Access Transport Rate Structure	LDDS
Ohio	Docket 93-487-TP-ALT	Alternative Regulation	Allnet/LCI/LDDS
Mississippi	Docket 93-UN-0843	Access Transport Rate Structure	LDDS
South Carolina	Docket 93-756-C	Access Transport Rate Structure	IXC Coalition
Georgia	Docket 4817-U	Access Transport Rate Structure	IXC Coalition
Louisiana	Docket U-20710	Pricing and Imputation Standards	LDDS
Ohio	Case 93-230-TP-ALT	Alternative Regulation	MCI/Allnet/LCI
New Mexico	Docket 93-218-TC	Expanded Local Calling	LDDS
Illinois	Docket 92-0048	Alternative Regulation	LDDS
Mississippi	Docket 93-UN-0038	Banded Rates for Toll Service	LDDS
Florida	Docket 92-1074-TP	Expanded Interconnection	Florida Coalition
Louisiana	Docket U-20237	Preferential Toll Pricing	LDDS, MCI and AT&T
South Carolina	Docket 93-176-C	Expanded Local Calling	LDDS & MCI
Mississippi	Case 89-UN-5453	Rate Stabilization Plan	LDDS & ATC

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Illinois	Docket 92-0398	Local Interconnection	CLEC Coalition
Louisiana	Docket U-19993	Payphone Compensation	MCI
Maryland	Docket 8525	Payphone Compensation	MCI
South Carolina	Docket 92-572-C	Payphone Compensation	MCI
Georgia	Docket 4206-U	Payphone Compensation	MCI
Delaware	Docket 91-47	Application for Rate Increase	MCI
Florida	Docket 88-0069-TL	Comprehensive Price Review	Florida Coalition
Mississippi	Case 92-UA-100	Expanded Local Calling	LDOS & ATC
Florida	Docket 92-0188-TL	GTE Rate Case	MCI & FIXCA
Wisconsin	Docket 05-TI-119	IntraLATA Competition	MCI & Schneider
Florida	Docket 92-0399-TP	Payphone Compensation	MCI & FIXCA
California	Docket I,87-11-033	Alternative Regulation	Intellical
Florida	Docket 88-0068-TL	Rate Stabilization	Public Counsel and Large Users
New York	Case 28425, Phase III	Access Transport Rate Structure	Empire Altel
Wisconsin	Docket 05-TR-103	Intrastate Access Charges	MCI & CompTel
Mississippi	Docket 90-UA-0280	IntraLATA Competition	Intellicall
Louisiana	Docket U-17949	IntraLATA Competition	Cable & Wireless
Florida	Docket 88-0069-TL	Rate Stabilization	Florida Coalition
Wisconsin	Docket 05-TR-103	Intrastate Access Charges	Wisconsin IXCs
Florida	Docket 89-0813-TP	Alternative Access Providers	Florida Coalition
Alaska	Docket R-90-1	Intrastate Toll Competition	Telephone Utilities of Alaska
Minnesota	Docket P-3007/NA-89-76	Centralized Equal Access	MCI & Telecom*USA
Florida	Docket 88-0812-TP	IntraLATA Toll Competition	Florida Coalition
Wisconsin	Docket 05-TR-102	Intrastate Access Charges	Wisconsin IXCs
Wisconsin	Docket 6655-NC-100	Centralized Equal Access	Wisconsin IXCs
Florida	Docket 88-0069-TL	Rate Stabilization	Florida Coalition
Wisconsin	Docket 05-NC-100	IntraLATA Toll Competition	Wisconsin IXCs
Florida	Docket 87-0347-TI	AT&T Regulatory Relief	Florida Coalition

**Summary of Expert Testimony and Affidavits – Domestic Regulatory Proceedings**

State	Docket/Case	Topic	Sponsor(s)
Illinois	Docket 83-0142	Intrastate Access Charges	Illinois Consolidated
Texas	Docket 8218	WATS Prorate Credit	TEXALTEL
Iowa	Case RPU 88-2	Centralized Equal Access	MCI & Teleconnect
Florida	Docket 87-1254-TL	Regulatory Flexibility for LECs	Microtel
Wisconsin	Docket 05-TR-5, Part B	IntraLATA Competition and Access Charges	Wisconsin State Telephone Assc.
Florida	Docket 86-0984, Phase II	Intrastate Loop Cost Recovery	Florida Coalition

## TABLE III - ACCESS LINES IN SERVICE BY CUSTOMER

## GENERAL INSTRUCTIONS

Table III requires the annual reporting of switched and special access line statistics by state as of December 31 of the calendar year covered by the report.

Report in Table III columns (fc) through (fi) only those access lines connecting end-user customers with their end offices for switched services, i.e., all equivalent 4 kHz or 64 kbps access lines included in Table II columns (cc) through (cj). Report special access lines, including the closed end of WATS and FX, that provide access to an interexchange carrier or other access customer in Table III column (fj) or column (fk).

Include 800 and 800-like access lines, resold telephone exchange service lines, and employee concession lines but do **NOT** include official/company circuits in the access line counts. **Provide a footnote if this has been done differently in the past.** Analog access lines should be reported as 4 kHz equivalents. ISDN and other digital access lines should be reported as 64 kbps equivalents. A fully equipped DS-1 line, for example, corresponds to 24 64 kbps equivalents.

Any row/column data entry which contains UNE data must be accompanied by an explanatory footnote identifying the types of UNEs (e.g., "UNE-P") that are included.

**Include footnotes in the Footnote Table liberally, especially where the reporting company perceives any ambiguities in the data provided, where procedures or internal sources associated with data preparation have changed (including data filed in compliance with revised definitions), or where required data are available only in part or on an estimated basis.**

## ROW INSTRUCTIONS

Each row represents a state, district or territory in which the reporting company has access lines. Include only those rows with data to be reported, but complete every item in those rows. Include a row for total company data, even if there is only one state row. See the State Row Numbers and Codes Reference Table for assigned row numbers and codes and for the correct order in which the rows shall appear.

## COLUMN DESCRIPTIONS

Each column represents a category of switched or special access lines.

COLUMN

- (fa) State or Territory - The name of one of the fifty U.S. states or one of the following: District of Columbia, Northern Mariana Islands, Puerto Rico, Virgin Islands, or Total.

- (fb) State or Territory Code - The two-letter Postal Abbreviation for the state or territory. Use "MC" for Northern Mariana Islands and "TO" for Total Company.

Business Switched Access Lines - Total voice-grade equivalent analog or digital switched access lines to business customers.

- (fc) Single Line Business Switched Access Lines - Includes single line business access lines subject to the single line business interstate end user common line charge, pursuant to § 69.104(h), excluding company official, mobile telephone/pagers and payphone lines. Payphone lines are to be reported in column (fe) - Payphone Lines. The ratio of single line business access lines to total business access lines, as calculated from the data reported in Table III (i.e., column (fc) divided by the sum of columns (fc) and (fd)), should be consistent with the same ratio as calculated from the data reported in ARMIS Report 43-01, Table II.
- (fd) Multiline Business Switched Access Lines - Include the total of analog and digital multiline business access lines subject to the multiline business interstate end user common line charge including PBX trunks, Centrex-CU trunks, hotel/motel LD trunks and Centrex-CO lines. Payphone lines are to be reported in column (fe) - Payphone Lines. The ratio of multiline business access lines to total business access lines, as calculated from the data reported in Table III, (i.e., column (fd) divided by the sum of columns (fc) and (fd)), should be consistent with the same ratio as calculated from the data reported in ARMIS Report 43-01, Table II.
- (fe) Payphone Lines - Lines that provide payphone service, i.e., total coin (public and semi-public) lines, including customer owned pay telephones (COPT).

Residential Switched Access Lines - Total equivalent analog or digital switched access lines to residential customers. The sum of residential access lines reported in columns (ff), (fg), and (fh) should be consistent with the total of the data reported for residence lifeline and non-lifeline access lines in the ARMIS Annual Summary Report (43-01), Table II, column (bb), row 2100 plus row 2110.

- (ff) Residential Switched Access Lines - Lifeline - Total of all (a) equivalent 4 kHz analog switched access lines and (b) equivalent 64 kbps digital switched access lines as reported in Table II, that are provided to residential lifeline customers.
- (fg) Residential Switched Access Lines - Non-Lifeline - Primary - Total of all primary (a) equivalent 4 kHz analog switched access lines and (b) equivalent 64 kbps digital switched access lines as reported in Table II, that are provided to residential non-lifeline customers. *See In the Matter of Defining Primary Lines*, Report and Order & Further Notice of Proposed Rulemaking, CC Docket 97-181, FCC 99-28, released March 10, 1999.

Exhibit JPG-3

Is Designated as HIGHLY CONFIDENTIAL

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Exhibit JPG-4

Is Designated as HIGHLY CONFIDENTIAL

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