



Missouri Public Service Commission

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RE: Case No. TO-99-593

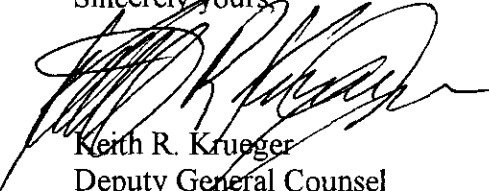
Dear Mr. Roberts:

Enclosed for filing in the above-captioned case are an original and eight (8) conformed copies of a **NOTICE OF FILING OF FINAL REPORT ON MISSOURI RECORD EXCHANGE TEST**.

This filing has been mailed or hand-delivered this date to all counsel of record.

Thank you for your attention to this matter.

Sincerely yours,


Keith R. Krueger
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KRK/lb
Enclosure
cc: Counsel of Record



BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

FILED³

JAN 24 2001

Missouri Public
Service Commission

In the Matter of the investigation into)
Signaling Protocols, Call Records, Trunk)
Arrangements and Traffic Measurement)

Case No. TO-99-593

NOTICE OF FILING OF FINAL REPORT
ON MISSOURI RECORD EXCHANGE TEST

COMES NOW the Staff of the Missouri Public Service Commission ("Staff"), on its own behalf and on behalf of all other parties to this case, and submits to the Missouri Public Service Commission ("Commission") this Notice of Filing of Final Report on Missouri Record Exchange Test.

1. The Commission created this case by its Report and Order in Case No. TO-99-254, dated June 10, 1999. The Commission established this case "to investigate signaling protocols, call records, trunking arrangement and traffic measurement.

2. At a prehearing conference on September 21, 1999, the parties suggested that they attempt to resolve the issues in this case through negotiation in workshops or technical conferences. The regulatory judge approved of this suggestion by the parties.

3. The parties thereafter conducted two technical workshops to address the issue of recording terminating traffic. The workshops were held on January 19, 2000, and on February 22, 2000.

4. The parties subsequently conducted a test, known as the Missouri Record Exchange Test, on July 16-17, 2000. The test was "intended to determine if service providers and carriers



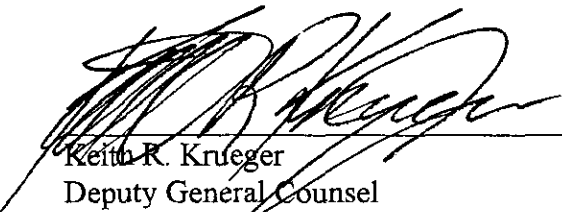
are conforming to proper record exchange procedures to compensate LECs for traffic terminating over LEC-to-LEC facilities and to test those procedures.

5. The parties have now completed preparation of their Final Report on the results of the Missouri Record Exchange Test. The said Final Report is attached hereto for filing with the Commission.

WHEREFORE, the Staff on behalf of the other parties to this case submits for filing the Final Report on Missouri Record Exchange Test.

Respectfully submitted,

DANA K. JOYCE
General Counsel



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Certificate of Service

I hereby certify that copies of the foregoing have been mailed or hand-delivered to all counsel of record as shown on the attached service list this 24th day of January 2001.





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MISSOURI RECORD EXCHANGE TEST

CASE NO. TO-99-593

July 16-17, 2000

FINAL REPORT

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1
2 **MISSOURI RECORD EXCHANGE TEST**
3 **FINAL REPORT**
4
5

6 **I. GENERAL DISCUSSION**

7 **A. Background and Description of Technical workshops**

8 Pursuant to an order of the Missouri Public Service Commission, a Technical
9 Conference was convened in Case No. TO-99-593 on January 19, 2000 to discuss
10 issues related to the case. A wide variety of topics were covered in the Technical
11 Conference, and presentations were made by various parties on the current status
12 of efforts at the national level to deal with the issue of recording terminating
13 traffic. A second Technical Conference was convened on February 22, 2000
14 where these issues were discussed further. During this conference a good deal of
15 the discussion centered on concerns of the small companies that the current
16 originating record systems were not providing recordings of all the calls that were
17 terminating to the small companies over the FGC common trunk networks. Some
18 preliminary data of comparisons made by individual companies to traffic volumes
19 were discussed. *Out of that conference the idea for conducting a test of the*
20 *Missouri records exchange process was conceived.*

21
22 Over the next three months, through a series of conference calls among the
23 parties, a plan was developed to conduct such a test. The basic concept, outlined
24 in more detail hereafter, was that a number of the small companies would record
25 terminating call data during a specified time period. During that same time period
26 the former PTCs and ALLTEL, companies who were responsible for providing

1 originating records, would also extract detail call records from all call sources.
2 Data from the terminating and originating recordings would then be compared at a
3 call detail level to determine where recordings matched or were unmatched. The
4 parties were then to analyze the unmatched records in each instance, and the
5 parties were to try to determine whether an originating record should have been
6 created and if so, why a record was not being produced on both ends of the
7 unmatched call.

8
9 **B. Purpose of the Test**

10 During development of the Technical Plan for the Records Exchange Test the
11 following statement of the purpose of the test was identified:

12 This test is intended to determine if service providers and carriers are
13 conforming to proper record exchange procedures to compensate LECs for
14 traffic terminating over LEC-to-LEC facilities and to test those
15 procedures. Depending on whether the service provider is (1) an Inter-
16 Exchange Carrier (IXC), (2) a Wireless Service Provider (WSP), or (3) a
17 Local Exchange Carrier (LEC), existing recordings that result from
18 various sources where the traffic enters the LEC- to-LEC FGC network
19 will be compared to the recording of messages terminating on this network
20 at the terminating end of the call. It is expected that at the end of the test,
21 the LEC industry will be able to identify the extent of any discrepancies
22 between the recording and reporting of the messages at the two locations
23 and hopefully identify and correct systems used to record and bill such
24 messages. If discrepancies between recordings cannot be reconciled, the
25 information provided from the test will provide the basis for further
26 discussions regarding recording methods and systems and/or business
27 arrangements to provide appropriate resolution of identified issues.

28
29
30 **C. General Description of Test Parameters**

31 As a means of providing structure to the test, a Technical Plan was developed by
32 the industry outlining the specific steps to be followed in conducting the test and

1 the analysis of the data. The full Technical Plan is included as Appendix A to this
2 report. As indicated above, the development of the Technical Plan took place
3 through a series of conference calls and several drafts of the plan over
4 approximately a three month period with the final plan document being completed
5 on May 24, 2000. Key elements of the Technical Plan are briefly discussed
6 below.

7 1. Test Period – The full test was conducted for a 48-hour period on July
8 16-17, 2000. This period was chosen to include data from both a weekend
9 and a weekday so that results from a variety of time periods could be
10 reviewed.

11 2. Small companies participating – Ten small companies participated in
12 the network test, BPS, Citizens, Farber, Kingdom, KLM, Mid-Missouri,
13 Modern, Northeast Missouri Rural (NEMR) Peace Valley and Rockport.
14 Stoutland Telephone Company was originally scheduled to participate but
15 was unable to do so.

16 3. Record Exchange Formats – Specific formats were developed for
17 extracting key data from normal records to provide for the records
18 exchange process. These formats are detailed in the Technical Plan.

19 4. Analysis of Data – The small companies undertook the responsibility
20 to make the initial data comparisons. Mid-Missouri Telephone Company
21 did the comparisons for its data. The analysis for the remainder of the
22 companies was conducted by GVNW Consulting, Inc. (GVNW)

1 5. One-hour review period – The Technical Plan called for a one-hour
2 period to be chosen to review in detail the unmatched records for each
3 exchange. After reviewing the initial results of the data analysis, GVNW
4 chose the 1:00 to 2:00 p.m. hour on July 17 as the one-hour review period.

5 6. Criteria for matching – Matching of the originating and terminating
6 records was done using computer programs. Criteria for determining a
7 match as established in the Technical plan included: 1) an exact match of
8 the terminating number of the call, 2) call connect time of the call should
9 be close (within 3 minutes), and 3) the duration of the call should be close
10 (within 5 seconds).

11
12 **D. Invitation to CLECs to Participate**

13 A few CLECs participated in the two Technical Conferences that were held.
14 CLECs did not participate in the development of the Technical Plan. However,
15 on May 31, 2000, the Staff of the Commission prepared and mailed a form letter
16 to each of Missouri's 91 CLECs, in which it informed the CLECs that the parties
17 would conduct the Missouri Record Exchange Test on July 16-17, 2000, and
18 provided details about how the test would be conducted and how the results
19 would be analyzed. In this letter, the Staff also asked each recipient to tell the
20 Staff, by June 12, 2000, whether it would participate in the Missouri Record
21 Exchange Test. A copy of this letter, and the attached questionnaire, is attached
22 as Appendix 2. The Technical Plan, which was also enclosed, is included as
23 Appendix 1.

1 As of June 14, the Staff had received responses from 28 of the 91 CLECs. Most
2 of those responding said they did not originate calls on the LEC-to-LEC FGC
3 network, and would not participate in the test. Four of the respondents expressed
4 willingness to cooperate in the test, but they did not believe they originated any
5 such calls, either. A copy of the "Summary of Results," as of June 14, 2000, is
6 attached as Appendix 3.

7
8 Subsequent to June 14, the Staff received responses from nine other CLECs, each
9 of whom said that they do not originate calls on the LEC-to-LEC FGC network.
10 Those companies were: Sprint Communications Company, L.P.; Basic Phone,
11 Inc.; Green Hills Telephone Corporation; Miller Telephone Company; Universal
12 Access, Inc.; Camarato Distributing, Inc.; DMJ Communications; Ameritech
13 Communications International, Inc.; and Intermedia Communications, Inc.

14
15 The Staff did not receive any response from the other 54 CLECs to whom it
16 mailed its letter.

17
18 **E. General Description of Conducting the Test**

19 Pursuant to the Technical Plan, the data gathering phase of the test was conducted
20 on July 16 and 17, 2000. Ten small companies participated in data gathering at
21 the terminating end of the calls while SWBT, Sprint, Verizon, Fidelity, and
22 ALLTEL gathered originating records for the test from the various billing systems
23 that are used to process the records. Due to a human error, recording at KLM
24 Telephone Company did not commence until the 10:00 a.m. hour on July 17.

1 After the records were extracted, each company or its billing vendor extracted
2 data from their own internal records and created records in the formats developed
3 in the Technical Plan for transmission to Mid-Missouri and GVNW to analyze the
4 data. These companies then compared the records made at the originating and
5 terminating locations on an individual call record basis. Analytical reports were
6 developed summarizing the results of this analysis.

7
8 **F. General Description and Parameters of Results of Initial Comparison**

9 Comparisons of individual records were made for individual call records in each
10 exchange in the test companies and detailed reports were created showing the
11 individual call record comparisons for both matched and unmatched records.
12 Summary reports were also created that summarized the record comparisons for
13 each exchange for each hour in the test period and for the overall company. The
14 summary reports plus the detail reports for the one-hour test period were provided
15 to each of the companies making originating recordings for analysis of the
16 unmatched records.

17
18 **II. PARTICIPATING COMPANIES' SUMMARIES**

19 **A. GVNW**

20 **1. Recording and record extraction – Terminating Recording**

21 Terminating recordings were made by each of the participating small
22 companies using the standard automatic message recording equipment in

1 their individual central office switches. Switches of several different
2 switch manufacturers were represented in the test as indicated below:

3 Nortel DMS-10 – BPS, Kingdom, Peace Valley, Rock Port, NE

4 Missouri, Modern

5 Lucent #5ESS – Mid-Missouri

6 Mitel GX5000 – Farber, KLM

7 AG Communications – GTD-5EAX – Citizens

8 In each case appropriate software parameters were activated in the
9 switches to cause the terminating records to be recorded. In each case, the
10 records were recorded using the Call Type 119 record format used for
11 interexchange carrier calls. In the case of Farber and KLM appropriate
12 instructions were not given to capture the originating number of the call,
13 though the Mitel switch is capable of performing that function. In each
14 company records are made for both completed and incomplete calls. The
15 records contain separate timing fields for switch connect time and
16 conversation time.

17 Subsequent to the recording of the data, the companies or their billing
18 vendors processed the switch records to extract the information and create
19 the record formats agreed upon in the Technical Plan to perform the record
20 comparisons and analysis. Records for comparison purposes generally
21 were made only from completed calls with actual conversation time
22 recorded.

1 2. Mechanical Comparison of Records

2 GVNW performed the records comparison and analysis of the records for
3 all small company participants except Mid-Missouri, which did its own
4 analysis. The objective was to create a computer program that could
5 perform the matching process using the established criteria to a high
6 degree of accuracy so that the large volume of records from the full 48-
7 hour test could be processed and compared. A series of analytical reports
8 showing summarized analyses of the data were also developed.

9
10 Before processing the records through the matching program edits of the
11 data received from both the terminating and originating locations were
12 necessary. These edits included reviewing the records and record formats
13 to see that they conformed with the stated requirements and could be read
14 by the computer. In some cases, edits had to be performed to correct the
15 formats. An edit was conducted to ascertain that each individual call
16 record contained a positive conversation time. Records with no
17 conversation time were deleted from the analysis. Edits were performed
18 to verify that the records received contained the terminating NXX code of
19 the exchanges in the test, and some records which had been inadvertently
20 included for other exchanges were eliminated. The initial comparison run
21 for Farber Telephone Company showed no matching records. A visual
22 inspection of the records disclosed that the connect times for these records
23 were nine minutes different so an edit was performed to add nine minutes

1 to the connect time of each Farber terminating record so the mechanical
2 matching could be successful. Finally, the records from each of the
3 originating companies were intermingled and sorted together to provide a
4 complete file for comparison to the terminating records for each exchange.

5
6 The computer program developed to perform the matching and analysis
7 process underwent extensive testing, manual comparisons, and
8 modifications before becoming fully operational at a high degree of
9 accuracy. Ultimately an iterative process was used in the matching
10 portion of the program to achieve the degree of accuracy desired. Key
11 time criteria for the matching were input as variable items so that different
12 values for the criteria could be established. Ultimately the criteria for
13 determining a match by GVNW included: 1) an exact match of the
14 terminating number of the call, 2) connect time of the call less than 2
15 minutes and 30 seconds difference between the two records, and 3)
16 duration of the call between the two records within five seconds.

17
18 During the process of validating the program and reports, examination of
19 the preliminary reports showed a significant number of unmatched
20 originating records in some exchanges from IXC records. Further
21 examination of the records, and conversations with Sprint led to the
22 discovery that Sprint had included some records in its data transmission
23 which it should not have, and that other records were missing. Sprint

1 corrected its record extraction process and resubmitted records for further
2 evaluation.

3
4 **3. Reports and Report Descriptions**

5 In completing the initial analysis of the data and the record comparisons
6 GVNW produced six different report formats to summarize and display
7 the data for analytical purposes. These reports are as follows:

8 a. **Matched Summary Report** – This report summarizes data by
9 exchange by hour on the matched records. (See Appendix 4, pp. 1-
10 2)

11 b. **Unmatched Summary Report** – This report summarizes data
12 by exchange by hour on the unmatched records. (See Appendix 4,
13 pp. 3-4)

14 c. **Matched Calls Detail Report** – This report presents individual
15 call level detail comparisons of the matched calls. (See Appendix
16 4, pp. 5-6)

17 d. **Unmatched Originating Calls Detail Report** – This report
18 presents individual call level details of the unmatched originating
19 calls. (See Appendix 4, p. 7)

20 e. **Unmatched Terminating Calls Detail Report** – This report
21 presents individual call level details of the unmatched terminating
22 calls. (See Appendix 4, p. 8)

1 Additional details regarding the report structures and codes used in the
2 report are contained in the description of reports document attached as
3 Appendix 5.
4

5 **4. Summary of Results – Overall Test**

6 Table I below summarizes the results of the initial data analysis performed
7 by GVNW and illustrates the variations in results for the individual
8 companies. In total for the initial data analysis only about 75% of the
9 terminating calls recorded by the small companies had matching
10 originating records. Individual company results varied between a low of
11 41.1% and a high of 99.7%. 96.6% of the originating records provided
12 were matched by terminating records. Again, there was substantial
13 variation between the companies with a low match of originating records
14 of 82.9% for Kingdom Telephone Company and a high of 99.7% for
15 Peace Valley and KLM Telephone Companies.

TABLE I

Missouri Terminating Recording Test
Summary of data matches by Participating Company
(July 16-17, 2000 Test Period)

Company	Total Terminating Calls Recorded	Total Originating Records Received	Total Matched Calls	% of Terminating Calls Matched	# of Originating Records Matched	% of Matched Calls where Orig Number Matched
BPS	18,151	15,066	14,997	82.6%	99.5%	60.1%
Citizens	6,167	5,774	5,659	91.8%	98.0%	49.4%
Farber	1,291	1,189	1,135	87.9%	95.5%	0.0%
Kingdom	7,247	6,644	5,507	76.0%	82.9%	77.4%
KLM*	3,923	3,923	3,910	99.7%	99.7%	0.0%
Modern	4,062	3,997	3,917	96.4%	98.0%	76.8%
Northeast Missouri	4,757	2,154	1,955	41.1%	90.8%	59.7%
Peace Valley	2,512	1,830	1,824	72.6%	99.7%	19.3%
RockPort	16,082	9,098	9,066	56.4%	99.6%	43.2%
Total	64,192	49,675	47,970	74.7%	96.6%	

Match Criteria

1. Terminating Number Match
2. Connect time within 2.5 minutes
3. Conversation time within 5 seconds

2

3

4

5. Summary of Results – One-Hour Test Period

5

Summary results for the one-hour test period showed similar results to the

6

total for the total test period. The initial results for this period showed that

7

80% of the terminating calls were matched by originating records and

8

98.3% of the originating records had matching terminating records.

9

Differences between individual company results vary substantially, but to

10

a larger degree in regard to the matched terminating records, and in fairly

11

similar proportions to the total test period.

TABLE II

Missouri Terminating Recording Test
Summary of data matches by Participating Company
(One Hour Test Period – July 17, 2000 – 1:00 p.m. – 2:00 p.m.)

Company	Total Terminating Calls Recorded	Total Originating Records Received	Total Matched Calls	% of Terminating Calls Matched	# of Originating Records Matched	% of Matched Calls where Orig Number Matched
BPS	950	842	840	88.4%	99.8%	56.1%
Citizens	259	242	240	92.7%	99.2%	49.2%
Farber	68	61	61	89.7%	100.0%	0.0%
Kingdom	238	202	176	73.9%	87.1%	73.3%
KLM	296	295	294	99.3%	99.7%	0.0%
Modern	191	186	184	96.3%	98.9%	83.2%
Northeast Missouri	151	62	58	38.4%	93.5%	60.3%
Peace Valley	113	79	78	69.0%	98.7%	12.8%
RockPort	750	486	483	64.4%	99.4%	42.7%
Total	3,016	2,455	2,414	80.0%	98.3%	

Match Criteria

1. Terminating Number Match
2. Connect time within 2.5 minutes
3. Conversation time within 5 seconds

2

3

6. Revised results

4

5

6

7

8

9

10

In the course of reconciling the test results, revised counts of matched messages related to three major items were identified to GVNW after the initial results were provided, as will be explained hereafter. These were the Ericsson switch problem, the Northeast Missouri test record extraction problem, and the additional Sprint messages for Rock Port that were found and transmitted by Sprint. The tables below provides an update of the study results for the full 48 hour test and the one-hour test period that

1 reflect the additional messages identified related to these
2 problems/updates:

3 Table III

Missouri Terminating Recording Test
Summary of data matches by Participating Company
(July 16-17, 2000 Test Period) Adjusted for Subsequent Records Identified

Company	Total Terminating Calls Recorded	Total Originating Records Received**	Total Matched Calls**	% of Terminating Calls Matched	# of Originating Records Matched
BPS	18,151	16,927	16,858	92.9%	99.6%
Citizens	6,167	5,982	5,867	95.1%	98.1%
Farber	1,291	1,189	1,135	87.9%	95.5%
Kingdom	7,247	7,107	5,970	82.4%	84.0%
KLM*	3,923	3,923	3,910	99.7%	99.7%
Modern	4,062	4,003	3,923	96.6%	98.0%
Northeast Missouri	4,757	4,887	4,171	87.7%	85.3%
Peace Valley	2,512	1,830	1,824	72.6%	99.7%
RockPort	16,082	10,136	9,483	59.0%	93.6%
Total	64,192	55,984	53,141	82.8%	94.9%

Match Criteria

1. Terminating Number Match
2. Connect time within 2.5 minutes
3. Conversation time within 5 seconds

Table IV

Missouri Terminating Recording Test
Summary of data matches by Participating Company
(One Hour Test Period - 7/17/00 - 1:00 p.m. - 2:00 p.m.) Adjusted for Subsequent Records Identified

Company	Total Terminating Calls Recorded	Total Originating Records Received*	Total Matched Calls*	% of Terminating Calls Matched	# of Originating Records Matched
BPS	950	902	900	94.7%	99.8%
Citizens	259	253	251	96.9%	99.2%
Farber	68	61	61	89.7%	100.0%
Kingdom	238	232	206	86.6%	88.8%
KLM	296	295	294	99.3%	99.7%
Modern	191	186	184	96.3%	98.9%
Northeast Missouri	151	152	133	88.1%	87.5%
Peace Valley	113	79	78	69.0%	98.7%
RockPort	750	535	502	66.9%	93.8%
Total	3,016	2,695	2,609	86.5%	96.8%

Match Criteria

1. Terminating Number Match
2. Connect time within 2.5 minutes
3. Conversation time within 5 seconds

2

3

4

B. Mechanical Comparison of Records – Mid-Missouri

5

Mid-Missouri worked with its billing vender Martin & Associates (now

6

Martin Group) to develop a mechanized means to compare originating and

7

terminating records using the established criteria. Upon initial

8

examination Mid-Missouri discovered major discrepancies between data

9

recorded by Mid-Missouri Telephone Company, at its Pilot Grove tandem,

10

and the data recorded by Sprint, Southwestern Bell, and Alltel. Upon

11

closer examination Mid-Missouri was able to determine that all of the

discrepancies with the Sprint data were related to Sprint having included IXC call data. Alltel's data had been forwarded to Bob Schoonmaker with GVNW, and once this data was included the discrepancy was narrowed to 1942 UNMATCHED messages. A summary comparison by company is listed below:

Verizon versus Mid-Missouri

Total of 61 Records received from Verizon.

Found 6 calls that MATCH -- From/To/Date/Time.

Found 55 calls that MATCH -- To/Date/Time. (ignore the From field number being all 0000000000)

Sprint versus Mid-Missouri

Total of 2648 Records received from Mid-Missouri.

Found 166 calls that MATCH -- From/To/Date/Time.

Found 3 calls that MATCH -- To/Date/Time. (ignore the From field number being all 0000000000)

Found 2479 calls that are other than CIC 0000 (IXC calls)

SWBT versus Mid-Missouri

Total of 2874 Records received from SWBT

Found 2618 calls that MATCH -- From/To/Date/Time.

Found 35 calls that MATCH -- To/Date/Time. (ignore the From field number being all 0000000000)

Found 193 (Type 5) records that MATCH with Different Orig Numbers.

Found 17 (Type 1 or 3) records that MATCH with Different Orig Numbers.

1
2 Found 11 Originating records which Mid-Missouri did not have a
3 terminating MATCH (OPH or IXC)
4

5 Found 1942 UNMATCHED (Local Plus, OCA and 1+ Saver Calls
6 unrecorded by SWB)
7

8 ALLTEL versus Mid-Missouri

9
10 Total of 7 Records received from ALLTEL
11

12 Found 7 calls that MATCH – From/To/Date/Time.
13

14 **C. Kingdom Telephone Company**

15 In the analysis of Kingdom Telephone Company it was discovered that there were
16 a very large number of unmatched terminating records. While Kingdom did not
17 make a complete review of all these records, a preliminary review of the data
18 raised two questions that have been pursued. First, there were a number of
19 unmatched originating records related to calls in the one-hour test period that
20 were going to a single terminating number belonging to an internet provider.
21 Kingdom investigated this issue and found that a specific switch parameter had
22 been set for this number which eliminated recording on calls to that number. This
23 parameter has been corrected and the calls are now being properly recorded.
24

25 In a review of both the one-hour test information and the full 48-hour test data, it
26 was readily apparent that a large portion of the volume of unmatched originating
27 calls were related to calls from Sprint identified as wireless terminating calls.
28 Kingdom has reviewed its recording procedures and can find no reason why such
29 calls would not be recorded at the terminating end on its common trunk group

1 with Sprint and has verified this with test calls. As this report was being
2 finalized, it was determined that this resulted from the submission by Sprint of
3 two records for each call terminating from a wireless carrier.

4
5 **D. SOUTHWESTERN BELL TELEPHONE COMPANY (SWBT)**

6 **1. Recording and record extraction – Originating Recording**

7 Southwestern Bell Telephone (SWBT) is interconnected with BPS,
8 Citizens, Farber, Kingdom, KLM, Mid-Missouri, Modern and NEMR by
9 means of a direct Feature Group C (FGC) common trunk group from
10 SWBT's tandem to the Citizens, Kingdom, Mid-Missouri, NEMR
11 tandems and to BPS, Farber and KLM end offices. Modern's traffic is
12 delivered to the tandem at NEMR. Since other toll carriers such as
13 Verizon, Sprint, Fidelity, Alltel, and Spectra, as well as other LECs who
14 may be toll carriers, Feature Group A (FGA) carriers and wireless carriers
15 do not or may not have direct connections with these companies, their
16 traffic destined for termination to one of the test companies is delivered to
17 them over the SWBT common trunk groups. SWBT has no direct
18 interconnection with Peace Valley nor Rock Port but sends SWBT end
19 user customers' originating traffic as well as other directly connected
20 wireless and LEC traffic destined for termination to either Peace Valley or
21 Rock Port exchanges to Verizon or Sprint respectively.
22 SWBT sends all traffic (i.e. IXC, IntraLATA LEC to LEC toll, Interstate
23 IntraLATA, Cellular, FGA, etc.) received at SWBT's tandem to BPS,

1 Farber and KLM over a common FGC trunk group. IntraLATA LEC to
2 LEC toll traffic (as well as Interstate IntraLATA), FGA and wireless
3 traffic is sent to Citizens, Kingdom, Mid-Missouri and NEMR (Modern
4 traffic is sent to NEMR) over the FGC common trunk groups. IXC traffic
5 for Citizens, Kingdom, Mid-Missouri and NEMR is delivered directly to
6 the tandem owned by each of these companies.

7
8 IntraLATA toll settlement records are made for MTS, OUTWATS and
9 800 calls. During the PTC plan there was a mutual agreement of the
10 Missouri telephone industry that settlement usage for many different types
11 of calls such as would not be processed:

- 12 a. Conference Calls -- 01-01-06 through 09 records
- 13 b. Verification -- 01-01-35 records
- 14 c. Marine/aircraft -- 01-01-80 through 83

15 These calls were not included in processing due to their infrequency of
16 occurrence, low volume of usage on such types of calls and the fact that
17 not all the calls are for an IntraLATA message. Although the PTC plan
18 has been terminated and no subsequent discussions or agreement has taken
19 place within the industry regarding excluding these records, SWBT
20 continues to follow the past practice. A complete listing of these excluded
21 calls types as previously found in the Missouri PTC Plan Practice, Section
22 III-B, page 5 is attached as Appendix 5.

1 2. **One Hour Result Analysis and Validation**

2 a. **General Description of processes used in validation**

3 1. The terminating companies in the test recorded call code
4 119 records for all of the terminating usage received over
5 their joint FGC common trunk group with SWBT for the
6 48-hour test period.

7 2. All originating companies in the LATA were to collect
8 all of the billing records they created for this same 48-hour
9 test period from all sources (i.e. intraLATA toll, IXC,
10 wireless, FGA) and forward that data to the terminating
11 company. Each individual company that terminates traffic
12 to the test companies over the common trunk group had the
13 responsibility of collecting and sending their own billing
14 records to the terminating company.

15 3. The data to be matched for all terminating companies
16 except Mid-Missouri was sent to GVNW. The Mid-
17 Missouri data was sent directly to Mid-Missouri.

18 4. Both GVNW and Mid-Missouri then compared the
19 terminating data that had been recorded to the originating
20 records that had been sent by all parties in the LATA to
21 determine any unmatched calls.

22 5. The Parties had agreed to study a one-hour period out of
23 the total 48-hour test period. The one-hour period to be

1 studied, as picked by the terminating companies, was from
2 1:00 to 2:00 P.M. on 7-17-00. All unmatched records were
3 sent back to the originating companies but by prior
4 agreement only the selected one-hour period was studied on
5 a call by call basis.

6 In the case of Mid-Missouri the entire 48-hour period was
7 used by SWBT to determine if any overall trends could be
8 detected. Only the same one-hour period was studied on a
9 call by call basis.

10 **b. SWBT specific processes used in validation**

11 SWBT performed the following steps in its efforts to determine
12 why no originating record was sent to the terminating company:

- 13 1. Looked up the NPA/NXX for each unmatched
14 originating call to determine what exchange the call
15 originated in.
- 16 2. Looked up the customer information to see if the
17 customer had any calling plans.
- 18 3. Segregated the calls into groups by type of call and
19 customer calling plan, i.e.:

20 Intrastate IntraLATA
21 Interstate IntraLATA
22 Feature Group A
23 Wireless
24 Local Plus
25 OCA
26 Calls originated in another company's exchange

1 Calls for which no originating number was
2 provided.

3
4 4. Segregated the calls into two groups, (1) those for which
5 there was a reason that no originating record had been sent
6 to the terminating company (i.e. Interstate IntraLATA, calls
7 from Ericsson switches (explained below), or records that
8 should have been provided by another company and (2)
9 calls for which no explanation was obvious).

10 5. The calls for which there was not an obvious
11 explanation were further separated into groups by type of
12 call based on what SWBT system generates the billing
13 record. These groups of calls were then referred back to
14 the group that had originally pulled the billing information
15 within SWBT to determine why a billing record had not
16 been sent to the terminating company.

17 6. In addition SWBT's Hewlett Packard Business
18 Intelligence system was used in some instances to analyze
19 all of the unmatched data to see if any patterns could be
20 determined.

21 Results of this analysis on the one hour period studied
22 produced the following results:

23 BPS - 950 calls were recorded in the one-hour
24 period with 840 calls matched leaving 110 calls
25 returned to SWBT for matching. Of those 110 calls

1 SWBT was able to explain 69 calls. 53 records
2 were not made due to the Local Plus recording
3 problem (which has now been corrected); 12
4 records were not made due to a MCI translations
5 error (which has now been corrected); 2 records
6 were for calls originated by other companies and the
7 records should have been provided to BPS by those
8 other companies, and 2 calls were Interstate
9 IntraLATA for which no record is currently made,
10 which results in 95.7 percent of the calls in the 1-
11 hour period either being matched or explained.
12 SWBT was unable to research 31 calls (3.3 percent
13 of the total) because there was no originating
14 number in the terminating recording. SWBT was
15 only unable to explain 10 calls or 1.0 percent of the
16 calls for which an originating number was provided.
17 In addition, 2 originating records were sent for the
18 1-hour test for which there was no terminating
19 recording made. A copy of the detail call analysis is
20 attached as Appendix 6.

21
22 Citizens – 259 calls were recorded in the one-hour
23 period with 240 calls matched leaving 19 calls

1 returned to SWBT for matching. Of those 19 calls
2 SWBT was able to explain 17 calls: 11 records were
3 not made due to the Local Plus recording problem
4 (which has now been corrected); 2 were for calls
5 originated by other companies and the records
6 should have been provided to Citizens by those
7 other companies, and 4 calls were Interstate
8 IntraLATA for which no record is currently made.
9 Which results in 99.2 percent of the calls in the one-
10 hour test being matched or explained. SWBT was
11 unable to research one call (.4 percent of the total)
12 because there was no originating number in the
13 terminating recording. SWBT was only unable to
14 explain one call or .4 percent of the calls for which
15 an originating number was provided. 0 originating
16 records were sent for the 1-hour test for which there
17 was no terminating recording made. A copy of the
18 detail call analysis is attached as Appendix 7.

19
20 Farber - 68 calls were recorded for the 1-hour
21 period with 61 calls or 89.7 percent matched leaving
22 7 unmatched calls. SWBT was unable to research
23 these 7 calls (10.3 percent) of the total because no

1 originating number was provided in the terminating
2 recording. In addition, 0 originating records were
3 sent for the 1-hour test for which there was no
4 terminating record made. A copy of the detail call
5 analysis is attached as Appendix 8.

6
7 Kingdom – 238 calls were recorded for the 1-hour
8 period with 176 calls matched leaving 62 calls
9 returned to SWBT for matching. Of these 62 calls
10 SWBT was able to explain 48 calls: 19 records were
11 not made due to the Local Plus recording problem
12 (which has now been corrected); 27 records were
13 for calls originated by other companies and the
14 records should have been provided by those other
15 companies; and 2 calls were Interstate IntraLATA
16 for which records are not yet made which results in
17 94.1 percent of the calls in the 1-hour test being
18 matched or explained. SWBT was unable to
19 research 11 calls (4.6 percent) of the total because
20 no originating number was included in the
21 terminating record. SWBT was only unable to
22 explain 1.3 percent of the calls for which an
23 originating number was provided. There were over

1 a 1,000 instances during the 48-hour test period
2 where there was no terminating record for an
3 originating record that was provided. A copy of the
4 detail call analysis is attached as Appendix 9.

5
6 KLM – 322 calls were recorded for the 1-hour
7 period with 320 calls or 99.4 percent being matched
8 leaving 2 calls returned to SWBT for matching.
9 SWBT was unable to research 2 calls (.6 percent) of
10 the total because no originating number was
11 provided in the terminating record. A copy of the
12 detail call analysis is attached as Appendix 10.

13
14 Modern – 191 calls were recorded for the 1-hour
15 period with 184 calls matched leaving 7 calls
16 returned to SWBT for matching. Of these 7 calls
17 SWBT was able to explain one call that was
18 Interstate IntraLATA for which records are not yet
19 made which results in 96.9 percent of the total being
20 matched or explained. SWBT was unable to
21 research 5 calls (2.6 percent) of the total because no
22 originating number was provided in the terminating
23 record. SWBT was only unable to explain .5

1 percent of the calls for which an originating number
2 was provided. Modern had 2 originating records for
3 which there was no corresponding terminating
4 record during the 1-hour test. A copy of the detail
5 call analysis is attached as Appendix 11.

6
7 NEMR – 151 calls were recorded for the 1-hour
8 period with 58 calls matched leaving 93 calls
9 returned to SWBT for matching. In studying the
10 unmatched calls, SWBT found that it had properly
11 recorded and provided an appropriate billing record
12 to NEMR for all of these calls in the ordinary
13 course of processing records. In pulling copies of
14 these actual records for the test, SWBT pulled an
15 incomplete data set. SWBT supplied a
16 supplemental data set to GVNW on 10-19-00,
17 which accounted for 87 of the 93 unmatched calls.
18 Of the remaining Of the remaining 6 unmatched
19 calls, SWBT was able to match 3 calls: one call;
20 with no originating number but the call was able to
21 be matched on time of call, one call was originated
22 by another company; and the record should have
23 been provided by that other company and one call

1 was for an Interstate IntraLATA call for which no
2 records are currently made. This meant that 98.0
3 percent of the total calls were either matched or
4 explained. SWBT was unable to explain 3 calls
5 (2.0 percent) of the total because no originating
6 number was provided in the terminating record.
7 SWBT was able to explain all calls for which an
8 originating number was provided. NEMR had 3
9 originating records for which there was no
10 corresponding terminating record during the 1-hour
11 test. A copy of the detail call analysis is attached as
12 Appendix 12.

13
14 Mid-Missouri – SWBT was not able to conduct a
15 similar analysis for Mid-Missouri. Mid-Missouri
16 did not share with SWBT the total number of call
17 recorded for the 1-hour period, nor how many calls
18 out of the total matched for the 1-hour period. For
19 that period it only disclosed to SWBT that there
20 were 71 unmatched calls and it returned these calls
21 to SWBT for matching. Of these 71 calls, SWBT
22 was able to explain 58 calls: 54 records were not
23 made due to the Local Plus recording problem

(which has now been corrected); 2 calls were Interstate IntraLATA for which no records are currently made; one call was originated by another company and the record should have been provided by that other company; and one call was not a completed call for which no record is appropriately made. SWBT believes that 8 of the missing calls were due to the translations error SWBT made in its Ericsson switches as these calls originated from Marshall and Slater, which were both served by Ericsson switches. SWBT has since made test calls for these numbers on 12-19-00 and verified that a 006-toll record was now being appropriately made. SWBT could not match, explain or verify 4 calls from the 1-hour period studied. Since the total number of calls that were recorded during the 1-hour period studied was not provided, the percentage difference could not be determined. A copy of the detail call analysis is attached as Appendix 14.

The following table reflects SWBT's investigation of the calls from the 1-hour study period:

COMPANY	% MATCHED OR EXPLAINED	% UNABLE TO RESEARCH
BPS	95.7	3.3
Citizens	99.2	.4
Farber	89.7	10.3
Kingdom	94.1	4.6
KLM	99.4	.6
Modern	96.9	2.6
NEMR	98.0	2.0

3. Action Items

a. ERICSSON SWITCH PROBLEM

Using the Hewlett Packard Business Intelligence (BI) system, SWBT on a preliminary basis compared data collected by the system to the billing records that had been sent to the terminating companies under the test. Since SWBT was already investigating a discrepancy reported to SWBT by Mid-Missouri SWBT focused this initial comparison on data for Mid-Missouri. Through this preliminary comparison process SWBT noticed that in several of SWBT exchanges the AcceSS7 system recorded more data than what was sent in billing records. SWBT then took its data for Mid-Missouri and separated it by originating exchange and customer calling plans. SWBT identified that a large percentage of unmatched calls originated in an Ericsson switch. It also appeared that these unmatched calls had originated from customers who had Local Plus service. SWBT then asked SWBT's network

1 translations department to verify if Local Plus calls were being
2 recorded properly in Ericsson switches. SWBT determined that
3 the Ericsson switch translations (that tell the switch what type of
4 record to make) were incorrectly programmed. SWBT determined
5 that these calls were being recorded as call code 001 (local) rather
6 than call code 006 (toll). In Missouri 001 (local) records are not
7 part of the LEC settlement process. This problem was initially
8 corrected on August 11, 2000 with a follow-up correction being
9 made on September 11, 2000. SWBT has completed settlements
10 with several companies (Fidelity, Mid-Missouri, Rock Port and
11 Sprint) and has sent proposed settlement offers to all other affected
12 companies and are awaiting their responses.

13
14 **b. Northeast Missouri Rural (NEMR) Unmatched Records**

15 Using the same type of analysis procedures that SWBT used to
16 identify the Ericsson switch problem, SWBT saw a large number
17 of unmatched calls identified by NEMR were from our Kirksville
18 exchange. Kirksville is a Nortel switch, so SWBT knew that this
19 was not the same problem that had already been identified in its
20 exchanges served by the Ericsson switches. Upon further study
21 SWBT discovered that SWBT had inadvertently failed to copy and
22 provide all of the billing records associated with all of NEMR's
23 NXX codes for the data set to be used in the test. This error

1 occurred when the test system table, developed to pull and copy
2 records for the calls destined for all of the NXXs belonging to the
3 terminating companies participating in the test, omitted some of
4 the NEMR NXXs. The missing data was pulled and on October
5 19, 2000 was sent to GVNW. As reflected above, pulling this
6 missing data accounted for all but six of the NEMR unmatched
7 calls.

8
9 **c. Calls Where No Originating Telephone Number was**
10 **Provided**

11 SWBT found and several terminating companies confirmed that
12 many calls being recorded at the terminating location often do not
13 contain the telephone number of the end-user that place the call
14 (originating number) or other information identifying that end
15 user's originating service provider. Without this information it is
16 very difficult to investigate what occurred and why no record was
17 available. During the test, SWBT tried to match these type calls
18 using the time and duration of the call from the terminating record
19 with all of its statewide billing records for the test period. Calls
20 could have originated from another LEC within a LATA. Until
21 recently, SWBT had little capacity to further investigate such calls.
22 SWBT is now currently deploying its Hewlett Packard Business
23 Intelligence System. This system is being installed to help

1 identify, as an audit tool, the service providers that deliver calls
2 without calling party number. This capability should enable
3 SWBT to more effectively monitor the traffic flowing through its
4 network to help ensure that appropriate records are being passed
5 and to detect recording problems in the future.

6
7 **E. VERIZON**

8 **1. Recording and Record Extraction**

9 **a. Technical description of methods used**

10 Verizon's test involved capturing call detail from its customer and
11 carrier access billing systems for the 48-hour period beginning July
12 16, 2000. IntraLATA toll records gathered from the customer
13 billing system reflected calls originating from all Verizon end
14 offices in Missouri and Illinois and terminating to a participating
15 LEC. Terminating access records were provided for all
16 Interexchange Carrier (IXC) originated calls (both interLATA and
17 intraLATA) terminating to Peace Valley. (Peace Valley is the
18 only terminating LEC participating in the study that subtends a
19 Verizon tandem.) There were no records provided for calls that
20 were unanswered or terminated to an announcement.

21
22 Detailed records were also provided for calls originating from a
23 Competitive Local Exchange Carrier (CLEC) and/or Wireless

1 Service Provider (WSP) and terminating to a subtending LEC
2 exchange (i.e., Peace Valley) via a direct connection at a Verizon
3 tandem. Generally, Verizon's interconnection arrangements do not
4 permit inter-tandem switching of CLEC and/or WSP originated
5 traffic. In those instances, originating traffic transiting the
6 Verizon tandem will only terminate to the end offices which
7 subtend the tandem in which the CLEC and/or WSP interconnects.
8 Inter-tandem switching of intraLATA toll traffic is allowed when a
9 CLEC and/or WSP has agreed to and fully implemented an
10 intraLATA toll compensation mechanism such as IntraLATA
11 Terminating Access Compensation (ITAC) or a functional
12 equivalent thereof. To date, Verizon does not have any such
13 arrangements in place with any CLEC or WSP in Missouri.

14
15 If a CLEC or WSP terminates a call on another service providers'
16 tandem and that tandem routes the call on to a Verizon tandem,
17 then the call will complete (provided interconnection exists at the
18 Verizon tandem). There is no switch recordings made at the
19 Verizon tandem for this call.

20
21 Two files were provided, as requested, in comma delimited format.
22 One file was transmitted to Mid-Missouri for analysis. The other

1 file, containing call detail for all other companies, was transmitted
2 to GVNW Consulting Inc. (GVNW).
3

4 **b. Problems encountered**

5 SWBT provides operator and 800 services for some of Verizon's
6 exchanges in Missouri. As the service provider, they record a
7 small volume of Verizon-originated operator handled and 800 calls
8 and transmit the EMR formatted records to Verizon once a month
9 for billing purposes. Verizon pulls the EMR records into its
10 intraLATA settlement system and then creates and distributes
11 category "92" or category "11" records to the appropriate
12 terminating company. There were seven records identified as
13 terminating to one of the participating LECs. Those records were
14 not available to Verizon at the time of the records test. However,
15 and perhaps more importantly, the originating intraLATA category
16 "11" records associated with those calls were transmitted to the
17 terminating LECs for billing purposes.
18

19 **2. Validation**

20 **a. Description of processes used in validation**

21 There was no validation required of data submitted to Mid-
22 Missouri. Mid-Missouri reported no discrepancies between the

1 terminating minutes measured and the originating minutes reported
2 by Verizon for the full 48-hour test period.

3 GVNW provided comparison results for all other
4 participating terminating LECs. On January 19, 2001, GVNW, in
5 response to a January 19, 2001 request, provided detailed 119
6 records for calls recorded by Peace Valley for the one-hour test
7 period. Verizon downloaded those records to an EXCEL
8 worksheet and extracted selected fields of the 35 unmatched
9 records. A copy of that extract is included as Appendix 13. In
10 addition, Verizon's analysis of the comparison results included a
11 review of the unmatched terminating call detail reports for all of
12 the other terminating companies. Verizon looked up the
13 originating NPA/NXX for each of the unmatched records to
14 determine if the call originated from a Verizon exchange. In
15 addition, Verizon reviewed originating unmatched records with a
16 Verizon OCN to determine why there was no match of those
17 records. Verizon identified eight calls during these processes that
18 terminated to NEMR, Modern and Kingdom.

19
20 Following is Verizon's analysis of the one-hour period comparison
21 results:
22

1 NEMR – SWBT was unable to explain 3 calls of the total
2 because no originating number was provided in the terminating
3 record. Verizon provided an originating record for each of those
4 calls. Two of the calls should have been reflected as a match. On
5 the third call, the terminating number and connect time would have
6 matched but the conversation minutes variance was greater than 5
7 seconds.

8
9 Modern – SWBT was unable to research 5 calls of the total
10 because no originating number was provided in the terminating
11 record. Verizon determined that two of those calls originated from
12 its exchange and should have been reflected as a match.

13
14 *Kingdom – There were 3 calls reported as originating from*
15 *a US Cellular customer served by a Columbia rate center and*
16 *terminating to Kingdom's Mokane exchange. Mokane subtends*
17 *Sprint's access tandem in the Westphalia LATA. Verizon verified*
18 *its switch records and could not find these calls. Verizon does not*
19 *generally permit inter-tandem switching of wireless traffic and*
20 *does not believe these calls originated via its direct tandem*
21 *connection with US Cellular.*
22

1 Peace Valley – Of the 35 unmatched calls, Verizon believes
2 32 are incomplete (i.e., unanswered) calls that should not have
3 been included in the records test. This is based on Verizon's
4 review of three fields on the detailed 119 records provided by
5 GVNW – fields 9, 19 and 58. Field 9 is the answer indicator. A
6 value of "1C" in this field indicates "called party off-hook is not
7 detected" which means the call is unanswered. This value was
8 found in 32 of the 35 unmatched records. Field 19 is the elapsed
9 time and includes elapsed time/conversation and elapsed
10 time/carrier connect. The conversation and carrier connect times
11 generally should differ because of the time required to set the call
12 up and for the other end to answer. The elapsed conversation and
13 carrier connect times were basically the same on 32 of the 35
14 unmatched records. Field 58 is the IC/INC event status which
15 contains a value of "010C" on answered calls. All other values in
16 this field represent an unanswered call. A value of "001C" was
17 found on 32 of the 35 unmatched records. Verizon found an
18 unmatched originating record that closely matched one of the three
19 remaining unmatched terminating records. On this call, the
20 terminating number and conversation time would have matched
21 but the connect time variance was greater than 2:30. Verizon was
22 unable to explain 2 calls (1.77%) of the total terminating
23 unmatched records.

1
2 **F. SPRINT**

3 **I. Description of Process**

4 For purposes of the records test, Sprint worked with the other parties and
5 developed the following procedures applicable to its originating
6 intraLATA toll recordings.

7 a. The Sprint switch sites that recorded messages for the sample
8 locations associated with the test were identified.

9 b. The terminating NPA-NXX for each of the sample companies
10 were identified.

11 c. Ad hoc programming was developed which could be utilized in
12 producing data comparisons/extracts from the regular billing
13 production data sets.

14 d. Ad hoc programs were run against actual production data for
15 the dates involved in the records exchange test (July 16 – 17).

16 1. Ad hoc programming files were created at each Sprint
17 switch recording site, at the hand-off point to Sprint's
18 Carrier Access Billing System, and at the outcollect
19 point.

20 2. Data files developed from the ad hoc files were then
21 reformatted and sorted by terminating company in the test
22 and sent to the company/consultant, per agreement among
23 the parties.

1

2 2. Action Items

3 As discussed above, Sprint and the other parties agreed to work together,
4 cooperatively, to plan and implement a "Missouri Record Exchange Test"
5 whereby a sample set of end offices and tandems would participate in a
6 test designed to capture, compare, and analyze call data at switches and
7 subsequently compare that information with sample terminating
8 recordings and intercompany billing records. For purposes of the test,
9 exchanges of Rock Port Telephone Company and Kingdom Telephone
10 Company, which subtend Sprint tandems in the Kansas City LATA and
11 Westphalia LATA respectively, were chosen. It was further agreed that
12 priority would be given to a complete analysis and reconciliation effort for
13 one hour's total usage for each exchange during one of the test days (July
14 17, 1 to 2 p.m.) Two separate sets of data were collected – one for Mid
15 Missouri Telephone and for all the other companies represented by
16 GVNW.

17

18 Sprint later received notice from Mid Missouri Telephone that no
19 additional research was required as Sprint's records matched perfectly
20 with Mid Missouri Telephone's recordings. GVNW provided a report that
21 showed discrepancies between the originating records received from all
22 originating providers and the small company terminating records. For one
23 subtending company, Kingdom, the report indicated that the terminating

1 records produced by Kingdom were less than those provided by the
2 universe of originating carriers. Sprint performed no analysis on these
3 records as GVNW agreed to research the differences. To date, Sprint
4 received no response from Kingdom or GVNW on the results of that
5 analysis. For the other Sprint subtending company, Rock Port, the initial
6 report showed a lesser number of originating records than those produced
7 by Rock Port's switch on the terminating end. After some research,
8 Sprint uncovered a number of records that had temporarily erred in its
9 billing system due to fact that they terminated to a wireless carrier
10 subtending and certain edits were not passed. The actual billing records
11 were corrected and transmitted in the correct monthly outcollect file;
12 however Sprint had difficulty locating that these records had originally
13 erred for the special test. Eventually, an ad hoc program located a number
14 of records and they were subsequently transmitted to GVNW for analysis.
15 The majority of the remaining discrepant records did not include an
16 originating number. Similar to SWBT, Sprint performed an exhaustive
17 analysis of Sprint's records with little to no success. To determine the
18 carrier that may have originated the unmatched calls, Sprint compared the
19 Matched Calls summary report to the Unmatched Calls summary report.
20 This review uncovered the following example occurring on numerous
21 occasions.
22 The Matched Calls report shows a call that terminated to 660-787-XXXX
23 at 13:12:35 for a length of 2141 minutes. The call recorded by Rock Port

1 closely matched a call sent to Rock Port by an originating provider for the
2 same connect time and length. On the Unmatched Calls report, calls are
3 shown as recorded by Rock Port that terminated to the same phone
4 number at 13:15:18 for 24 minutes, 13:20:01 for 24 minutes, 13:22:23 for
5 12 minutes, 13:26:47 for 190 minutes, 13:35:07 for 23 minutes, 13:42:24
6 for 27 minutes and 13:47:35 for 18 minutes. Rock Port's switch measured
7 these seven (7) unmatched calls during the same time period as the
8 matched call was taking place. The 660-787 NPA NXX is assigned to a
9 wireless provider. Sprint finds this scenario somewhat unusual, and it
10 should be investigated further.

11
12 **G. ALLTEL MISSOURI, INC.**

13 **1. Technical Description of Methods Used:**
14

15 Automatic Message Accounting (AMA) records for calls originating from
16 ALLTEL exchanges and terminating to the following local exchange
17 carriers:

18
19 BPS Telephone Company (OCN 0463)
20 Citizens Telephone Company (OCN 1865)
21 Farber Telephone Company (OCN 1876)
22 Kngdom Telephone Company (OCN 1900)
23 KLM Telephone Company (OCN 1901)
24 Mid-Missouri Telephone Company (OCN 1917)
25 Modern Telecommunications (OCN 3335)
26 Northeast Missouri Rural (OCN 1931)
27 Peace Valley Telephone Company (OCN 1936)
28 Rock Port Telephone Company (OCN 1942)
29 Stoutland Telephone Company (OCN 1951)
30

1 were extracted via a mainframe query product for all calls originating
2 between July 16, 2000 12:00:00 a.m. through July 17, 2000 11:59:59 p.m.
3 The records were extracted from several generations of the dataset
4 CMD1N.CMD060.SORT.EMR.AMA to ensure retrieval of all data.

5
6 The retrieved records were formatted into the comma delimited format
7 required by the test parameters through an Excel spreadsheet. The Excel file
8 was transmitted via e-mail to GVNW for comparison to the terminating
9 recordings.

10
11 **2. Problems encountered**

12 No problems were identified. The AMA recordings were compared to
13 settlement records (920101) retrieved from ALLTEL's Wilkes-Barre
14 datacenter for messages covering the July 16-17 time period. The AMA
15 recordings and settlement records matched for the time period reviewed.

16
17 ALLTEL retrieved 254 messages terminating to the identified exchanges.
18 ALLTEL is not aware of any problems identified in the comparison process.

19
20 **H. FIDELITY**

21 Fidelity Telephone Company had no specific unmatched records identified during
22 the one-hour test period.

III PARTICIPATING COMPANIES' UNRESOLVED ISSUES

While there are a number of issues that have are evident from the test results, some of the issues that have been specifically identified as unresolved are indicated below.

A.. Interstate IntraLATA recording - Reconciliation of the originating and terminating records included identification of interstate intraLATA calls for which no originating record is currently being generated. Southwestern Bell is developing a process to send settlement records to the Missouri LECs in the Kansas City (524) and St. Louis (520) LATAs on interstate intraLATA traffic originated by one of their customers in Kansas or by an Ameritech customer in Illinois in the 524 and 520 LATAs respectively. This process should be completed by the end of January 2001. During the time of the test no records were created on this traffic. Settlement by SWBT with the LECs on this type of traffic will be made retroactively back to elimination of the PTC Plan.

B. Terminating records recorded at Peace Valley – In its analysis of unmatched terminating records recorded at Peace Valley, Verizon identified some calls in the one-hour test period that their records indicated had not been completed while Peace Valley's records indicated conversation times. Verizon's analysis of the company's 119 records contained herein was first provided on the day this report was finalized. The companies will continue to research this issue and attempt to identify why these differences occurred.

1 C. Unmatched terminating records at Rock Port – While the additional records
2 which Sprint identified and transmitted to GVNW after the initial results were
3 published did reduce the discrepancy at Rock Port, there is still a large number of
4 unmatched terminating records that have not been reconciled. Numerous
5 examples were located where unmatched records for calls that terminated to a
6 wireless provider behind Rock Port occurred during the same time period as
7 matched record calls. No explanation has been uncovered for how a switch can
8 record simultaneous calls to a wireless number.

9
10 D. Unmatched originating records at Kingdom Telephone Company – As
11 previously explained, there are a large number of records for wireless originated
12 calls for which Kingdom Telephone Company received originating records from
13 Sprint, but for which Kingdom had no matching terminating record. Data
14 requests have been sent to Sprint to verify whether these calls are being
15 terminated over the common trunk group between Sprint and Kingdom or some
16 other trunk group. The companies will continue to pursue a resolution to this
17 issue.

18
19 E. Unmatched records with no originating numbers – In the analysis of
20 unmatched calls during the one-hour test period, identification of calls that had no
21 originating number in the terminating recording were generally not made because
22 of the difficulty of knowing where to look for such records. While in two
23 companies, Farber and KLM, appropriate record formats to record the originating

1 number were not used, in the remainder of the companies the lack on an
2 originating number would appear to be primarily because that number is not
3 passed along the network to the terminating location. However, the calls were
4 made and recorded at the terminating location and an explanation of the lack of
5 originating records has not been made.

**Technical Plan
Missouri Record Exchange Test**

May 24, 2000

1. PURPOSE OF TEST

This test is intended to determine if service providers and carriers are conforming to proper record exchange procedures to compensate LECs for traffic terminating over LEC-to-LEC facilities and to test those procedures. Depending on whether the service provider is (1) an Inter-Exchange Carrier (IXC), (2) a Wireless Service Provider (WSP), or (3) a Local Exchange Carrier (LEC), existing recordings that result from various sources where the traffic enters the LEC- to-LEC FGC network will be compared to the recording of messages terminating on this network at the terminating end of the call. It is expected that at the end of the test, the LEC industry will be able to identify the extent of any discrepancies between the recording and reporting of the messages at the two locations and hopefully identify and correct systems used to record and bill such messages. If discrepancies between recordings cannot be reconciled, the information provided from the test will provide the basis for further discussions regarding recording methods and systems and/or business arrangements to provide appropriate resolution of identified issues.

2. TEST METHODOLOGY – GENERAL

The test will involve recording of calls for a defined period of time at both the point of entry into the LEC network and at the terminating location of the call. Individual call records that result from recording at both locations will then be compared to validate the recording at both ends of the calls. Initial analysis will be performed at a minimum on individual one-hour periods for each participating company. If mechanized comparison methods are successful, the analysis may be on broader periods up to the full 48 hours of the test.

3. TEST METHODOLOGY – SPECIFIC TEST PARAMETERS

- a. An initial pre-test will be conducted, for a short period, if requested by the tandem operator directly connected to the terminating LEC in the study in order to make a general verification of call volumes and to validate that collection methods have been correctly set i.e. same trunks, correct point codes, etc. This test will be conducted on an individually arranged basis between the terminating tandem company and the end office company. The terminating company will record an agreed upon small number of calls and transmit those calls to the

tandem company either in paper form or in a small file as agreed upon. The test may take place at anytime prior to the full-scale test, as agreed upon by the parties.

b. The full-scale test will involve gathering data at all locations for a total 48-hour period including one weekend day and one weekday. The full-scale test will be conducted Sunday-Monday, July 16-17, 2000.

c. It is recommended (but not required) that companies review procedures for setting switch timing to verify that switch clocks are set in accordance with national standard timing to minimize timing differences between companies. (National Naval observatory time can be obtained from tycho.usno.navy.mil)

d. Companies who have volunteered to and will participate in recording at the terminating locations are the following:

1. Kansas City LATA

- a. Citizens Telephone Company (SWBT Connecting Tandem)
- b. Mid-Missouri Telephone Company (SWBT Connecting Tandem)
- c. Rock Port Telephone Company (Sprint Tandem)
- d. Northeast Missouri/Modern Telecommunications (SWBT Connecting Tandem)

2. St. Louis LATA

- a. Kingdom Telephone Company (SWBT Connecting Tandem)
- b. Farber Telephone Company (SWBT Tandem)
- c. BPS Telephone Company (SWBT Tandem)

3. Springfield LATA

- a. KLM Telephone Company (SWBT Tandem)
- b. Peace Valley Telephone Company (GTE Tandem)
- c. Stoutland Telephone Company (SWBT Tandem)

4. Westphalia LATA

- a. Kingdom Telephone Company (Sprint Tandem)

e. The initial exchange of information to set up the test is defined below and the actual information is shown on the attached contact information spreadsheet:

- 1. Company contact name or names
- 2. NPA-NXX for each company exchange.
- 3. SS7 Point Codes assigned to each exchange and the NPA-NXX associated with each.
- 4. Tandem switch CLLI code associated with each NPA-NXX

5. Party to whom records are to be sent for analysis for each NPA-NXX

The above Information above will be provided to the following company representatives who's contact information is also provided on the attached contact information spreadsheet:

- a. SWBT –Joyce Dunlap
- b. Sprint –Don Edwards
- c. GTE –Ruth Nelson
- d. Fidelity –Dave Beier
- e. ALLTEL –Shane Sumler
- f. [CLEC 1]
- g. [CLEC 2], etc.

f. Data to be recorded at the terminating location on an individual call basis: (data for each completed call will be provided in a comma delimited file in the following order☺)

1. Calling Number/Originating Number (if available) – NPANXXXXXXX – 10 digit numeric (zero if not available)
2. Called Number/Terminating Number – NPANXXXXXXX – 10 digit numeric
3. Call Date – YYMMDD – six digit numeric
4. Call Time (Time call originated) – HHMMSS – six digit numeric (hour, minute, second)
5. Carrier connect time (Total call connect time at the switch) – SSSSSST (Numeric in seconds (S) and tenths of seconds (T))
6. Conversation time (Total time call is connected at both ends) – SSSSSST (Numeric in seconds (S) and tenths of seconds (T))

g. Data to be recorded at originating locations (location where the call enters the LEC network from end users or from other carriers) on an individual call basis. (GTE, Sprint, Fidelity, Alltel and SWB agree to provide data for each completed call a comma delimited file in the following order☺)

1. Source of Information Code –
 - 1=Category 92 Record (LEC)
 - 2= Category 11 Record (IXC)
 - 3=Local Plus Call from Cat 92 Record
 - 4=Wireless Type 1
 - 5=Wireless Type 2
 - 6=Feature Group A (FGA)
2. Calling Number/Originating Number (if available) – NPANXXXXXXX – 10 digit numeric (zero if not available)
3. Called Number/Terminating Number – NPANXXXXXXX – 10 digit numeric

4. Call Date – YYMMDD – six digit numeric
5. Call Recording Time (Time completed call recording originated) – HHMMSS – six digit numeric (hour, minute, second, tenths of second)
6. Elapsed/Conversation Time – MMMMSST – seven digit numeric (minute, second, tenths of second) UNROUNDED MINUTES WILL BE SENT.
7. CIC (Carrier Identification Code) – (if available) – four digit numeric (need to discuss what value will be in this field in all cases)
8. OCN Number – 4 digit numeric – OCN number of the company making the originating recording

Attached is a spreadsheet showing which record and which field of that record will be pulled for each of the above items (Section 3G spreadsheet). Also attached is an example of the Comma Delimited File Format the originating companies propose to use. (Comma Delimited spreadsheet

h. Upon completion of the recording period the originating recording party will sort records into separate files for the party analyzing data and will transmit records for the full 48-hour test period to the party analyzing the data. Data for Mid-Missouri Telephone Company will be transmitted to Mid-Missouri. Data for all other companies will be transmitted to GVNW as outlined on the attached contact information spreadsheet. Data transmission methods will be coordinated between individual companies. GVNW prefers receiving the data via CDROM but will discuss other options if needed. (GVNW does not have FTP capability.)

4. ANALYSIS OF TEST RESULTS

a. Analysis of data will be done for at least one hour during the test period for each exchange. (An attempt will be made by the terminating companies to limit the number of different hours that are studied.) Hours tested will vary between days of the week and time of day for the individual exchanges to provide samples from various time periods. The terminating company will select the time period to be tested and inform originating parties of the test period(s). If mechanical comparison methods are successful, the analysis of data may be expanded beyond the one-hour period up to a maximum of the full 48-hours. Any reconciliation of data by the originating parties will be limited to a one-hour period.

b. Analysis of calls to determine match should be determined on the following criteria:

1. Terminating number must match
2. Call Connect time should be close (0-3 minutes) but should vary consistently with the difference in calibration of the clocks of the switch pairs making the recording.
3. Conversation time should be close (within 5 seconds)

4. Match of originating number (if available) would confirm match, but is not necessary.

c. When analysis and matching of calls is completed by the individual parties, results will be summarized by types of calls, with specific emphasis given to analyzing and describing unmatched calls. Summary reports of results will be shared with all parties. Complete individual call data matches and/or mismatches for a limited one-hour period from each exchange will be provided to other participating parties for their own review and analysis.

d. Detailed call records on each record for which there is not an originating/terminating record match will be analyzed to the extent possible. If an originating number is recorded at the terminating end, the originating NPA/NXX "responsible party" will be identified. Records of all unmatched calls will with CPN will be forwarded by the analyzing party to the "responsible party", to determine why originating records did not exist for the call. Any reconciliation of data by the originating parties will be limited to a one-hour period.

e. To the extent that parties have records available earlier in the originating recording process than the point at which they were extracted for the test, these records will be searched for the hour being analyzed to attempt to identify unmatched calls earlier in the recording process.

f. The originating parties agree that to the best of their effort that the switch records for the test period will be obtained. The normal retention period for these records is:

Alltel -	45 days
GTE -	90 days
SWBT -	45 days will extend normal retention period to accommodate test.
Sprint -	75 days

All parties agree that they will monitor the progress of the reconciliation of test period records to determine, before expiration of the normal retention period, what if any additional steps are needed for retention of the switch records.

g. If after review of the records the parties feel study of an additional hour would be useful the parties will mutually agree to if and what hour would be studied.

5. VALIDATION TO ACTUAL BILLING RECORDS

a. Additional validation of records during the test period to actual records received for billing can be conducted by the terminating company for IXC calls and PTC originated calls. This can be accomplished by extracting individual IXC 11-01 records and the PTC 92-01 or reformatted 11-01 records for the time period

from the normal billing records received and making a comparison between these records and the test period records. This analysis will be the responsibility of the terminating company.

b. Comparisons of test period records to individual call record lists of all calls billed in monthly summary format such as CTUSR calls and FGA calls will not be part of the test. Such summary reports will not be evaluated as part of this test process.

6. Time Line

A time line for completion of the Missouri Record Exchange Test is attached.

COMPANY & OCN	EXCHANGE	EXCHANGE CLLI	NPA	NXX	POINT CODE	ACCESS TANDEM	TRUNK GROUP NUMBER	LATA	CONTACT INFORMATION	RECORDS SENT TO
BPS 463	BERNIE	BERNMOXA	573	293	005-042-060	SKSTMOGR04T	BPS TR=39	520	Mitchell Green	##
	PARMA	PARMMOXA	573	357	005-042-060	SKSTMOGR04T	BPS TR=39	520	Phone 573-293-1105	
	STEELE	STELMOXA	573	695	005-042-061	SKSTMOGR04T	BPS TR=39	520	FAX 573-293-2299	
									Mgreen@BPSTelephone	
CITIZENS 1865	CORDER	CRDRMOXA	660	394	238-129-003	HGVLMOXA10T		524	Kathie Munson	##
	HIGGINSVILLE	HGVLMOXA	660	584	238-129-003	HGVLMOXA10T		524	Phone 660-584-6527	
	MAYVIEW	MYVWMOXA	660	237	238-129-003	HGVLMOXA10T		524	FAX 660-584-2345	
									kmunson@ctcis.net	
FARBER 1876	FARBER	FRBRMOXA	573	249	005-013-132	STLSMO0501T		520	Charlie Crow	##
									Phone 573-249-9800	
									FAX 573-249-2212	
									ccrow@ftco.net	
KINGDOM 1900	AUXVASSE	AXVSMOXA	573	386	005-004-204	AXVSMOXA01T		520	Randy Boyd	##
	BIG SPRINGS	BGSPMOXA	573	252	005-004-206	AXVSMOXA01T		520	Phone 573-386-2241	
	HATTON	HTTNMOXX	573	387	005-004-205	AXVSMOXA01T		520	FAX 573-386-5520	
	MOKANE	MOKNMOXA	573	676	005-004-208	AXVSMOXA01T		521	rhboyd@ktis.net	
	RHINELAND	RHLDMOXA	573	236	005-004-207	AXVSMOXA01T		520		
	TEBBETTS	TBTSMOXA	573	295	005-004-209	AXVSMOXA01T		521		
	WILLIAMSBURG	WLBGMOXA	573	254	005-004-204	AXVSMOXA01T		520		
KLM 1901	DEERFIELD	DRFDMOXARS1	417	966	005-042-084	SPFDMOTL02T		522	Bruce Copsey	##
	METZ	METZMOXARS1	417	484	005-042-084	SPFDMOTL02T		522	Phone 660-935-2211	
	RICH HILL	RHHLMOXADS1	417	395	005-042-084	SPFDMOTL02T		522	Fax 660-935-2213	
	RICHARDS	RCHRMOXARS1	417	927	005-042-084	SPFDMOTL02T		522	bcopsey@maitland.heartland.net	
MID-MISSOURI 1917	ARROW ROCK	ARRKMOXADS0	660	837	005-003-204	PLGVMOXA10T		524	David Jones	David Jones
	BLACKWATER	BLWRMOXADS0	660	846	005-003-204	PLGVMOXA10T		524	Phone 660-834-3311	P.O. Box 38
	BUNCETON	BCTNMOXADS0	660	427	005-003-204	PLGVMOXA10T		524	Fax 660-834-6632	215 Roe
	FORTUNA	FTUNMOXADS0	660	337	005-003-204	PLGVMOXA10T		524	david@mid-mo.net	Pilot Grove
	GILLIAM	GLLMMOXADS0	660	784	005-003-204	PLGVMOXA10T		524		MO 65276
	HIGH POINT	HGPNMOXADS0	660	489	005-003-204	PLGVMOXA10T		524		
	LATHAM	LTHMMOXADS0	660	458	005-003-204	PLGVMOXA10T		524		
	MARSHALL JUNCTIO	MRJTMOXADS0	660	879	005-003-204	PLGVMOXA10T		524		
	MIAMI	MIAMMOXADS0	660	852	005-003-204	PLGVMOXA10T		524		
	NELSON	NLSNMOXADS0	660	859	005-003-204	PLGVMOXA10T		524		
	PILOT GROVE	PLGVMOXA10T	660	834	005-003-204	PLGVMOXA10T		524		
	SPEED	SPEDMOXADS0	660	838	005-003-204	PLGVMOXA10T		524		

Ralph Theis, GVNW
P.O. Box 25969
Colorado Springs, CO 80936
OR 2270 LaMontana Way
Colorado Springs, Co 80918

[illegible]

**Missouri Record Exchange Test
Section 3G**

Section	Description	Category 92 Record		Category 11 Record	
3.g.2	Calling Number/Originating Number	15-24	From Number	15-24	From Number
3.g.3	Called Number/Terminating Number	30-39	To Number	30-39	To Number
3.g.4	Call Date	7-12	Date of Record	7-12	Date of Record
3.g.5	Call Recording Time	55-60	Connect Time	55-60	Connect Time
3.g.6	Elapsed/Conversation Time	61-67	Billable Time	150-156	Conversation Time
3.g.7	CIC	150-153	CIC	46-49	CIC
3.g.7	## Call Time		Requested information is on a switch record and not contained in a billing record.		
3.g.8	## Switch Connect Time		Requested information is on a switch record and not contained in a billing record.		
3.g.9	## Call Type		Requested information is on a switch record and not contained in a billing record.		
3.g.10	## SENID		Requested information is on a switch record and not contained in a billing record.		
3.g.8	OCN			167-170	Originating OCN

Has been deleted from Technical Plan. Information requested is on a switch record and not contained in a billing record.

Missouri Record Exchange Test
Comma Delimited File Format
Section 3G

File Position	Section	Description	Value	Field Description
1		Indicates Source of information	1 Cat. 92 record (LEC) 2 Cat. 11 Record (IXC) 3 Local Plus Calls from Cat 92 Records 4 Wireless Type 1 5 Wireless Type 2 6 FGA	
2		Comma		
3-12	3.g.1	Calling Number/Originating Number		10 digit Line Number
13		Comma		
14-23	3.g.2	Called Number/Terminating Number		10 digit Line Number
24		Comma		
25-30	3.g.3	Call Date		6 digit YYMMDD
31		Comma		
32-37	3.g.4	Call Recording Time		2 digit Hour 2 digit Minutes 2 digit Seconds
38		Comma		
39-45	3.g.5	Elapsed/Conversation Time		4 digit Minutes 2 digit Seconds 1 digit 1/10th seconds
46		Comma		
47-50	3.g.6	Carrier Code		4 digit Carrier Code
51		Comma		
52-55	3.g.11	OCN		4 digit State Specific Originating Company Code

Terminating Testing Process Time Line	Business		
Description	Days Required	Target Date	Actual Date
Originating LECs (SWB, GTE, Sprint, Fidelity and Alltel) provide preferred format for all call types to other participants		5/12/00	
Agreement on format		5/19/00	
Determine Time-line for process		5/19/00	
Establish dates for pre-test and actual testing		5/19/00	
Letters to CLECs notifying them of test		5/26/00	
Response from CLECs		6/12/00	
Complete optional pre-test	Date to be agreed to by the parties.		
Complete actual test		7-16/17-00	
Originating data to GVNW and Mid-Missouri	10	7/31/00	
Terminating data to GVNW and Mid-Missouri	10	7/31/00	
Process Time to match files	15	8/21/00	
Analyze non-matched data for originating entity	10	9/1/00	
Provide remaining non-matched data to originating LEC		9/1/00	
Non-matched data and support provided to terminating LEC		9/29/00	
Preparation of Draft Report	10	10/13/00	
Distribution of Report	5	10/20/00	
Establish Procedural Schedule			9/22/00

Terminating Testing Process Time Line			Target	Actual
Participating Companies		Tandem	Date *	Date
Citizens Telephone Company		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
Mid-Missouri Telephone Company		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
Rock Port Telephone Company		Sprint		
	Pre-test		*	
	Actual Test		7-16/17-00	
Northeast Missouri/Modern Telephone Companies		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
Kingdom Telephone Company (St Louis LATA)		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
Kingdom Telephone Company (Westphalia LATA)		Sprint		
	Pre-test		*	
	Actual Test		7-16/17-00	
Farber Telephone Company		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
BPS Telephone Company		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
KLM Telephone Company		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
Peace Valley Telephone Company		GTE		
	Pre-test		*	
	Actual Test		7-16/17-00	
Stoutland Telephone Company		SWBT		
	Pre-test		*	
	Actual Test		7-16/17-00	
Note - * Date to be determined by the parties				

May 31, 2000

TO: ALL MISSOURI CLECs
FROM: Keith R. Krueger, Missouri Public Service Commission Staff
RE: Missouri Record Exchange Test – Case No. TO-99-593

This Notice is to inform you that the process for exchanging records on calls handled over the LEC-to-LEC FGC network in Missouri will be tested and to ask for your company's participation in this test.

As you are aware, the Commission in its June 10, 1999 Report and Order in Case No. TO-99-254 opened an investigation into signaling protocols, call records, trunking arrangements and traffic measurement between carriers that operate in Missouri. The Commission assigned Case No. TO-99-593 for this investigation and notified all telecommunications companies in Missouri on June 15, 1999 that this case was being opened. As part of the investigation in this case, Staff and the local exchange carriers (LECs) participating in the case (both incumbent and competitive LECs) plan to test the process used for exchanging call records on traffic flowing over the LEC-to-LEC network in Missouri.

Attached is a copy of the Technical Plan for this record exchange test. The Plan outlines the companies participating, the time of the test and details of the records to be provided to the terminating companies. If your company originates intraLATA toll calls using connections to the LEC to LEC FGC network, we request that you participate in the test.

I have enclosed a one-page questionnaire which we would request that you complete and return so that we will know your company's status in regard to this test. Please return the questionnaire to me by FAX at 573-751-9285 by June 12, 2000. Thank you for your assistance.

Sincerely,

Keith R. Krueger
Deputy General Counsel

Attachments

Questionnaire
Missouri Record Exchange Test
Case No. TO-99-593

Company Name _____

Contact Person: _____

Phone # : _____

FAX # : _____

E-mail : _____

Our company status in regard to the Missouri Record Exchange Test described in the Technical Plan for the Missouri Record Exchange Test is as follows:

Please check one:

_____ Our company does originate intraLATA toll calls via connections to the LEC to LEC FGC network in Missouri and will participate in the test.

_____ Our company does originate intraLATA toll calls via connections to the LEC to LEC FGC network in Missouri but will not participate in the test.

_____ Our company does NOT originate intraLATA toll calls via connections to the LEC to LEC FGC network in Missouri.

Signature

Title

Please FAX this Questionnaire to Keith R. Krueger, MPSC Staff at 573-751-9285.

SUMMARY OF RESULTS

The Commission's Staff mailed letters to 91 CLECs and received responses from 28 of them.

Questionnaire Only – Do not originate calls via LEC to LEC FGC network (24)

BuyTel Communications, Inc.

Comm South

Compass Telecommunications, Inc.

dpi Teleconnect, LLC

Everest Connections Corporation

Focal Communications Corporation of Missouri

Fidelity Cablevision, Inc.

Fidelity Communications Services I, Inc.

Level 3 Communications, LLC

Mark Twain Communication Co. – CLEC

McLeod USA

Metromedia Fiber Network Services, Inc.

Navigator Telecommunications, LLC

Omniplex Communications

Payroll Advance Inc.

Preferred Carrier Services, Inc.

Snappy Phone (three copies returned)

Southwest TeleConnect

Talk-Com Holding Corp.

The Pager Company

Tiers (??) American Telephone

2-Tel Communications, Inc.

Vectris Telecom, Inc.

Worknet Communications Inc.

APPENDIX 3

Other response, but will not participate in test

Birch Telecom – does not believe it originates any LEC to LEC FGC calls, but would like to offer whatever assistance they can

NextLink – does not utilize the LEC to LEC FGC network; did not receive my original correspondence

AT&T – in the process of evaluating whether it originates any 1+ intraLATA calls that terminate over the LEC-to-LEC FGC network to the particular independent LECs participating in the test as identified in the Technical plan, but would be willing to cooperate, if feasible; hope to have answer by June 19 re routing of traffic

Gabriel Communications, Inc. – may not originate any traffic which would terminate over the LEC to LEC FGC network in Missouri to these particular Independents ; will participate directing in the test if that is possible; because of the short notice they received of this test, it may not be feasible to participate in the test; if it is not feasible to do so, they stand ready to cooperate with the test participants regarding the evaluation of the test. (long response)

McLeod – they have concerns about confidentiality; they are strictly involved in resale and do not know how much traffic they have; they do not generate 92-99 records. They have now determined that they do not originate any such calls, but Brad Kruse said he is most willing to cooperate in any way, if he can.

EXOP of Missouri, Inc. – invitation to participate in test was returned undeliverable.

PEACE VALLEY
PEACE VALLEY

417277

Missouri Originating/Terminating Reco Test
Matched Summary Report

Processed Date/Time: 9/06/00 10:09
Connect Time Variable: 0230

Call Duration Variable: 05

Page: 1

Date	Hour	Period	Total Term Calls	Total Orig Calls	Total Matched Calls	% of Total Term Calls	% of Total Orig Calls	Total Connect Time Var.	Avg. Connect Time Var.	Total Conv. Time-Term	Avg. Conv. Time-Term	Total Conv. Time-Diff	Avg. Conv. Time-Diff	# of Calls w/Orig # Match	% of Calls w/Orig # Match
16-JUL	00:00-00:59														
16-JUL	01:00-01:59														
16-JUL	02:00-02:59														
16-JUL	03:00-03:59														
16-JUL	04:00-04:59														
16-JUL	05:00-05:59														
16-JUL	06:00-06:59														
16-JUL	07:00-07:59														
16-JUL	08:00-08:59														
16-JUL	09:00-09:59														
16-JUL	10:00-10:59														
16-JUL	11:00-11:59														
16-JUL	12:00-12:59														
16-JUL	13:00-13:59														
16-JUL	14:00-14:59														
16-JUL	15:00-15:59														
16-JUL	16:00-16:59														
16-JUL	17:00-17:59														
16-JUL	18:00-18:59														
16-JUL	19:00-19:59														
16-JUL	20:00-20:59														
16-JUL	21:00-21:59														
16-JUL	22:00-22:59														
16-JUL	23:00-23:59														
16-JUL	INC.	TEST													

16-JUL DAY TOTAL

17-JUL 00:00-00:59
17-JUL 01:00-01:59
17-JUL 02:00-02:59
17-JUL 03:00-03:59
17-JUL 04:00-04:59
17-JUL 05:00-05:59
17-JUL 06:00-06:59
17-JUL 07:00-07:59
17-JUL 08:00-08:59
17-JUL 09:00-09:59
17-JUL 10:00-10:59
17-JUL 11:00-11:59
17-JUL 12:00-12:59
17-JUL 13:00-13:59
17-JUL 14:00-14:59
17-JUL 15:00-15:59
17-JUL 16:00-16:59
17-JUL 17:00-17:59
17-JUL 18:00-18:59
17-JUL 19:00-19:59
17-JUL 20:00-20:59
17-JUL 21:00-21:59
17-JUL 22:00-22:59
17-JUL 23:00-23:59
17-JUL INC. TEST

17-JUL DAY TOTAL

17-JUL NPANXX TOTAL

Appendix 4, Page 1

Date	Hour	Period	Total Term Calls	Total Orig Calls	Total Matched Calls	% of Total Term Calls	% of Total Orig Calls	Total Connect Time Var.	Avg. Connect Time Var.	Total Conv. Time-Term	Avg. Conv. Time-Term	Total Conv. Time-Diff	Avg. Conv. Time-Diff	# of Calls w/Orig # Match	% of Calls w/Orig # Match
-JUL	00:00-00:59														
-JUL	01:00-01:59														
-JUL	02:00-02:59														
-JUL	03:00-03:59														
-JUL	04:00-04:59														
-JUL	05:00-05:59														
-JUL	06:00-06:59														
-JUL	07:00-07:59														
-JUL	08:00-08:59														
-JUL	09:00-09:59														
-JUL	10:00-10:59														
-JUL	11:00-11:59														
-JUL	12:00-12:59														
-JUL	13:00-13:59														
-JUL	14:00-14:59														
-JUL	15:00-15:59														
-JUL	16:00-16:59														
-JUL	17:00-17:59														
-JUL	18:00-18:59														
-JUL	19:00-19:59														
-JUL	20:00-20:59														
-JUL	21:00-21:59														
-JUL	22:00-22:59														
-JUL	23:00-23:59														
-JUL	INC. TEST														
-JUL	DAY TOTAL														

PEACE VALLEY
PEACE VALLEY

417277

Missouri Originating/Terminating Recot. Test
Unmatched Summary Report

Processed Date/Time: 9/06/00 10:09
Connect Time Variable: 0230

Call Duration Variable: 05

Page: 1

Date	Hour	Period	Total Term Calls	Total Term Conv Time	Total Orig Calls	Total Orig Conv Time	Unmatched Term Calls	% Unmatch Term Calls	Conv Time Unmatch Term	% of Total Term Conv	# of Unmatch Term W/Orig#	% of Unmatch Term W/Orig#	Unmatched Orig Calls	% of Orig Calls	Conv Time Unmatch Orig	% of Total Orig Conv
16-JUL	00:00-00:59															
16-JUL	01:00-01:59															
16-JUL	02:00-02:59															
16-JUL	03:00-03:59															
16-JUL	04:00-04:59															
16-JUL	05:00-05:59															
16-JUL	06:00-06:59															
16-JUL	07:00-07:59															
16-JUL	08:00-08:59															
16-JUL	09:00-09:59															
16-JUL	10:00-10:59															
16-JUL	11:00-11:59															
16-JUL	12:00-12:59															
16-JUL	13:00-13:59															
16-JUL	14:00-14:59															
16-JUL	15:00-15:59															
16-JUL	16:00-16:59															
16-JUL	17:00-17:59															
16-JUL	18:00-18:59															
16-JUL	19:00-19:59															
16-JUL	20:00-20:59															
16-JUL	21:00-21:59															
16-JUL	22:00-22:59															
16-JUL	23:00-23:59															
16-JUL	INC. TEST															
16-JUL	DAY TOTAL															
17-JUL	00:00-00:59															
17-JUL	01:00-01:59															
17-JUL	02:00-02:59															
17-JUL	03:00-03:59															
17-JUL	04:00-04:59															
17-JUL	05:00-05:59															
17-JUL	06:00-06:59															
17-JUL	07:00-07:59															
17-JUL	08:00-08:59															
17-JUL	09:00-09:59															
17-JUL	10:00-10:59															
17-JUL	11:00-11:59															
17-JUL	12:00-12:59															
17-JUL	13:00-13:59															
17-JUL	14:00-14:59															
17-JUL	15:00-15:59															
17-JUL	16:00-16:59															
17-JUL	17:00-17:59															
17-JUL	18:00-18:59															
17-JUL	19:00-19:59															
17-JUL	20:00-20:59															
17-JUL	21:00-21:59															
17-JUL	22:00-22:59															
17-JUL	23:00-23:59															
17-JUL	INC. TEST															
17-JUL	DAY TOTAL															
17-JUL	NPANXX TOTAL															

Date	Hour	Period	Total Term Calls	Total Term Conv Time	Total Orig Calls	Total Orig Conv Time	Unmatched Term Calls	% Unmatch Term Calls	Conv Time Unmatch Term	% of Total Term Conv	# of Unmatch Term W/Orig#	% of Unmatch Term W/Orig#	Unmatched Orig Calls	% of Orig Calls	Conv Time Unmatch Orig	% Of Total Orig Conv
-JUL	00:	00-00:59														
-JUL	01:	00-01:59														
-JUL	02:	00-02:59														
-JUL	03:	00-03:59														
-JUL	04:	00-04:59														
-JUL	05:	00-05:59														
-JUL	06:	00-06:59														
-JUL	07:	00-07:59														
-JUL	08:	00-08:59														
-JUL	09:	00-09:59														
-JUL	10:	00-10:59														
-JUL	11:	00-11:59														
-JUL	12:	00-12:59														
-JUL	13:	00-13:59														
-JUL	14:	00-14:59														
-JUL	15:	00-15:59														
-JUL	16:	00-16:59														
-JUL	17:	00-17:59														
-JUL	18:	00-18:59														
-JUL	19:	00-19:59														
-JUL	20:	00-20:59														
-JUL	21:	00-21:59														
-JUL	22:	00-22:59														
-JUL	23:	00-23:59														
-JUL	INC.	TEST														
-JUL	DAY	TOTAL														

Missouri Originating/Terminating Recording Test
Matched Calls Detail Report

Company: PEACE VALLEY
Exchange: PEACE VALLEY
NPA/NXX: 417277
Date: 00/07/17
Hour: 13

Connect Time Variation for Match: 230
Conversation Time Variation for Match: 05
Processed: 09/06/00 9:54 A.M.
Page #: 002

Terminating Recording				Originating Recording				OCN	Type	Conn	Conv	% of Term	Orig	Rec
Orig Number	Term Number	Conn Time	Conv Time	Orig Number	Term Number	Conn Time	Conv Time			Time	Time			
Diff	Diff	Diff	Diff	Diff	Diff	Diff	Diff					Conv time	Match	Code

Missouri Originating/Terminating Recording Test
Matched Calls Detail Report

Company: PEACE VALLEY
Exchange: PEACE VALLEY
NPA/NXX: 417277
Date: 00/07/17
Hour: 13

Connect Time Variation for Match: 230
Conversation Time Variation for Match: 05
Processed: 09/06/00 9:54 A.M.
Page #: 003

Terminating Recording				Originating Recording						Conn	Conv	% of Term	Orig	Rec
Orig Number	Term Number	Conn Time	Conv Time	Orig Number	Term Number	Conn Time	Conv Time	OCN	Type	Time	Time			
-----	-----	-----	-----	-----	-----	-----	-----	---	----	Diff	Diff	Conv time	Match	Code

Missouri Origina //Terminating Recording Test
Unmatched Originating Calls Detail Report

Company: PEACE VALLEY
Exchange: PEACE VALLEY
NPA/NXX: 417277
Date: 00/07/17
Hour: all

HIGHLY CONFIDENTIAL

Connect Time Variation for Match: 000
Conversation Time Variation for Match: 00
Processed: 09/12/00 10:21 A.M.
Page #: 001

Terminating Recording				Originating Recording				OCN	Type	Conn Time Diff	Conv Time Diff	% of Term Conv time	Orig Match	Rec Code
Orig Number	Term Number	Conn Time	Conv Time	Orig Number	Term Number	Conn Time	Conv Time							

Missouri Originating/Terminating Recording Test
Unmatched Terminating Calls Detail Report

Company: PEACE VALLEY
Exchange: PEACE VALLEY
NPA/NXX: 417277
Date: 08/07/17
Hour: 13

HIGHLY CONFIDENTIAL

Connect Time Variation for Match: 230
Conversation Time Variation for Match: 05
Processed: 09/12/00 10:21 A.M.
Page #: 002

Terminating Recording				Originating Recording						Conn	Conv	% of Term	Orig	Rec
Orig Number	Term Number	Conn Time	Conv Time	Orig Number	Term Number	Conn Time	Conv Time	OCN	Type	Time	Time			
-----	-----	-----	-----	-----	-----	-----	-----	---	----	Diff	Diff	Conv time	Match	Code

**IntraLATA Records
Included/Excluded**

TOLL RECORD	ACCESS RECORD	DESCRIPTION	INCLUDED	EXCLUDED
01-01-01	11-01-01	MTS	X	
01-01-02	11-01-02	OUTWATS	X	
01-01-03	11-01-03	OUTWATS	X	
01-01-04	11-01-04	TERM 800		X (4)
01-01-06	11-01-06	NON DIAL CONF CHARGE		X (1)
01-01-07	11-01-06	NON DIAL CONF LEG		X (1)
01-01-08	11-01-08	NON DIAL CONF BRIDGE		X (1)
01-01-09	11-01-09	BILLABLE CONF LEG		X (1)
01-01-10		PICTUREPHONE CHARGE		X (2)
01-01-11		DIGITAL SERVICE CHARGE		X (2)
01-01-12		PERSON/CLLCT ANNOUN		X (2)
01-01-14		TELEGRAM		X (2)
01-01-15		CLLCTN REC ON PRE SHORTG		X (2)
01-01-16	11-01-16	INFO PROVIDER SVC CHARGE		X (2)
01-01-17		VOICE MSG SVC		X (2)
01-01-18		SPEC SVC CHRG/SVC PRV CHRG		X (2)
01-01-25	11-01-25	ORIG 800 (SSP)	X	
01-01-31		LOCAL MESSAGE		X (2)
01-01-32	11-01-32	DIRECTORY ASSISTANCE CHRG		X (3)
01-01-33		MOBILE CHANNEL USAGE		X (2)
01-01-34		MESSENGER		X (2)
01-01-35		VERIFICATION SVC CHRG		X (2)
01-01-37		INTERRUPT SVC CHRG		X (2)
01-01-62		SMDR/CDAR CKT SWITCH		X (2)
01-01-80	11-01-80	MARINE/AIRCRAFT CHARGE		X (2)
01-01-81	11-01-81	MARINE/AIRCRAFT RADIO LINK		X (2)
01-01-82		MARINE NON-DIAL CONF		X (2)
01-01-83	11-01-83	MARINE NON-DILA CONF LEG		X (2)

Note:

- (1) Revenues included, however, intraLATA messages excluded due to low volumes.
- (2) Not an IntraLATA message.
- (3) Revenues included, however no IntraLATA settlements
- (4) The XX-01-25 Record will be used in lieu of XX-01-04 in intraLATA settlements for intraLATA jointly provided Term 800 usage.

ORIG. NUMBER	TERM. NUMBER	CONNE CT TIME	SWITCH TYPE	BPS
			ORIG.	STATUS OF RECONCILIATION PROCESS EXCHANGE
BERNIE				
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573396	573293		ERICSS	MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
			ON	
573643	573293		NORTEL	COIN PHONE
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT GIVEN	573293	13:12:04		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
573222	573293		LUCENT	PUXICO - 110 RECORD CREATED - INTRALATA TOLL USING A CARRIER
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT	573293	13-15-		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY

GIVEN		40		
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT	573293	13:18:5		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		2		
NOT	573293	13:19:5		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		9		
573472	573293		NORTEL	MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
NOT	573293	13:21:5		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		3		
573472	573293		NORTEL	SIKESTON RESOLD ACCT LSP
618275	573293			INTERSTATE INTRALATA-NO RECORD CREATED
NOT	573293	13:30:2		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		6		
573276	573293		ERICSS	MALDEN - 110 RECORD CREATED - INTRALATA TOLL USING A CARRIER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT	573293	13:31:3		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		2		
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT	573293	13:36:3		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		8		
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573624	573293		NORTEL	MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
708895	573293			INTERSTATE - NON TANDEM COMPANY
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT	573293	13:38:5		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		9		
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	

573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT	573293	13:43:1		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		3		
NOT	573293	13:49:1		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		7		
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573222	573293		LUCENT	PUXICO - 110 RECORD CREATED - INTRALATA TOLL USING A CARRIER
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT	573293	13:54:4		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		6		
NOT	573293	13:55:2		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		9		
314340	573293		NORTEL	ST. LOUIS CHESTNUT
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573293		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
570265	573293			INTERSTATE - NON TANDEM COMPANY
PARMA				
573396	573357		ERICSS	RICSO LOCAL PLUS CUSTOMER
			ON	
573246	573357		ERICSS	CAMPBELL LOCAL PLUS CUSTOMER
			ON	
573276	573357		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573357		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
314968	573357		LUCENT	ST. LOUIS RIVERVIEW - SERVICE DISCONNECTED
NOT	573357	13:41:3		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		8		

573276	573357		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
573276	573357		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
STEELE				
573246	573695		ERICSS	CAMPBELL LOCAL PLUS CUSTOMER
			ON	
573359	573695		ERICSS	HAYTI LOCAL PLUS CUSTOMER
			ON	
NOT GIVEN	573695	13:01:37		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
573333	573695		ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER
			ON	
573888	573695		ERICSS	KENNETT LOCAL PLUS CUSTOMER
			ON	
573333	573695		ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER
			ON	
573333	573695		ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER
			ON	
NOT GIVEN	573695	13:09:42		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
573276	573695		ERICSS	MALDEN LOCAL PLUS CUSTOMER
			ON	
NOT GIVEN	573695	13:10:40		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
707928	573695			INTERSTATE - NON TANDEM COMPANY
573359	573695		ERICSS	HAYTI LOCAL PLUS CUSTOMER
			ON	
NOT GIVEN	573695	13:12:21		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
870563	573695			INTERSTATE - NON TANDEM COMPANY
618654	573695			INTERSTATE INTRALATA - NO RECORD CREATED
573333	573695		ERICSS	MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
			ON	
573333	573695		ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER

573333	573695	ON	ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER
573717	573695	ON	ERICSS	KENNETT LOCAL PLUS CUSTOMER
501570	573695	ON		MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
NOT	573695	13:18:5		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		1		
573333	573695	ERICSS		CARUTHERSVILLE LOCAL PLUS CUSTOMER
573333	573695	ON	ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER
870239	573695	ON		MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
NOT	573695	13:28:1		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		9		
NOT	573695	13:29:0		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		7		
580233	573695			MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
573333	573695	ERICSS		MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
573717	573695	ON	ERICSS	KENNETT LOCAL PLUS CUSTOMER
573359	573695	ON	ERICSS	HAYTI LOCAL PLUS CUSTOMER
573359	573695	ON	ERICSS	MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
870763	573695			MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
573333	573695	ERICSS		MCI CARRIED CALL - NO SWITCH RECORD MADE - TRUNK GROUP NOT CORRECTLY TRANSLATED
573333	573695	ON	ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER
817991	573695	ON		SBMS
NOT	573695	13:37:5		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN		9		
573359	573695	ERICSS		HAYTI LOCAL PLUS CUSTOMER
		ON		

573359	573695	ERICSS	HAYTI LOCAL PLUS CUSTOMER
		ON	
573333	573695	ERICSS	CARUTHERSVILLE LOCAL PLUS CUSTOMER
		ON	
573757	573695	ERICSS	DERRING LOCAL PLUS CUSTOMER
		ON	
NOT GIVEN	573695	13:45:1	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		7	
573757	573695	ERICSS	DERRING LOCAL PLUS CUSTOMER
		ON	
NOT GIVEN	573695	13:45:5	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		8	
NOT GIVEN	573695	13:46:2	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		3	
NOT GIVEN	573695	13:46:2	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		3	
NOT GIVEN	573695	13:51:3	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		3	
573448	573695	ERICSS	GIDEON LOCAL PLUS CUSTOMER
		ON	
NOT GIVEN	573695	13:54:2	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		2	
NOT GIVEN	573695	13:55:0	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		2	
573888	573695	ERICSS	KENNETT LOCAL PLUS CUSTOMER
		ON	
NOT GIVEN	573695	13:56:0	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		7	
NOT GIVEN	573695	13:56:1	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
		5	
573888	573695	ERICSS	KENNETT LOCAL PLUS CUSTOMER
		ON	

SUMMARY

Total calls in 1-hour test:	950
Matched calls in 1-hour test:	840

Unmatched calls in 1-hour test:	.110
Explained calls in 1-hour test:	69
Percent matched and explained calls:	95.7
Percent unable to research:	3.3

9 Originating records were sent for 1-hour test for which there is was no terminating recording made.

ORIG. NUMBER	TERM NUMBER	CONNE CT TIME	SWITCH TYPE ORIG. EXCHAN GE	CITIZENS STATUS OF RECONCILIATION
MAYVIEW				
660529	660237		ERICSSO	SLATER LOCAL PLUS CUSTOMER N
CORDER				
913385	660394			INTERSTATE INTRALATA NO RECORD CREATED
HIGGINSVILLE				
913788	660584			INTERSTATE INTRALATA NO RECORD CREATED
660826	660584		ERICSSO	SEDALIA LOCAL PLUS CUSTOMER N
660563	660584		ERICSSO	KNOB NOSTER LOCAL PLUS CUSTOMER N
913362	660584			INTERSTATE INTRALATA NO RECORD CREATED
660886	660584		ERICSSO	MARSHALL LOCAL PLUS CUSTOMER N
660563	660584		ERICSSO	KNOB NOSTER LOCAL PLUS CUSTOMER N
660335	660584			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
816421	660584		NORTEL	KANSAS CITY-MCGEE - FEATURE GROUP A
660563	660584		ERICSSO	KNOB NOSTER LOCAL PLUS CUSTOMER N
660563	660584		ERICSSO	KNOB NOSTER LOCAL PLUS CUSTOMER N
913383	660584			INTERSTATE INTRALATA NO RECORD CREATED
660828	660584			ALLTEL EXCH. - ALLTEL TO PROVIDE RECORD
NOT GIVEN	660584	13:34:1 5		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
660886	660584		ERICSSO	MARSHALL LOCAL PLUS CUSTOMER N
660563	660584		ERICSSO	KNOB NOSTER LOCAL PLUS CUSTOMER N

660831	660584	ERICSSO MARSHALL LOCAL PLUS CUSTOMER N
660529	660584	ERICSSO SLATER LOCAL PLUS CUSTOMER N

SUMMARY

Total calls in 1-hour test:	259
Matched calls in 1-hour test:	240
Unmatched calls in 1-hour test:	19
Explained calls in 1-hour test:	17
Percent matched and explained calls:	99.2
Percent unable to research:	0.4

29 Originating records were sent for 1-hour test for which there is was no terminating recording made.

ORIG. NUMBER	TERM NUMBER FARBER	CONNECT TIME	SWITCH TYPE	FARBER STATUS OF RECONCILIATION
NOT GIVEN	573249	13:00:40		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573249	13:12:30		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573249	13:12:52		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573249	13:16:14		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573249	13:24:15		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573249	13:28:51		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573249	13:45:53		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY

SUMMARY

Total calls in 1-hour test:	68
Matched calls in 1-hour test:	61
Unmatched calls in 1-hour test:	7
Explained calls in 1-hour test:	0
Percent matched and explained calls:	89.7
Percent unable to research:	10.3

6 Originating records were sent for 1-hour test for which there is was no terminating recording made.

ORIG NUMBE R	TERM. NUMBER	CONN ECT TIME	SWITC H TYPE	KINGDOM REASON NO BILLING RECORD WAS MADE
RHINELAND				
573492	573236			ALLTEL EXCH. - ALLTEL TO PROVIDE RECORD
BIG SPRINGS				
573564	573252			ERICSS MONTGOMERY CITY LOCAL PLUS CUSTOMER ON
618463	573252			INTERSTATE INTRALATA - NO RECORD CREATED
573564	573252			ERICSS MONTGOMERY CITY LOCAL PLUS CUSTOMER ON
NOT GIVEN	573252	13:21:50		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
573564	573252			ERICSS MONTGOMERY CITY LOCAL PLUS CUSTOMER ON
WILLIAMSBURG				
573564	573254			ERICSS MONTGOMERY CITY LOCAL PLUS CUSTOMER ON
573642	573254			LUCEN FULTON - 006 RECORD MADE T
TEBBETTS				
573680	573295			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573680	573295			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573680	573295			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573680	573295			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573680	573295			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573680	573295			NORTE SPRINT EXCH. - SPRINT TO PROVIDE RECORD L
NOT GIVEN	573295	13:32:04		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
573680	573295			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573680	573295			SPRINT EXCH. - SPRINT TO PROVIDE RECORD
AUXVASSE				

NOT GIVEN	573386 13:02:4 3	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
573564	573386	ERICSS MONTGOMERY CITY LOCAL PLUS CUSTOMER ON
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573684	573386	ERICSS WELLISVILLE LOCAL PLUS CUSTOMER ON
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
NOT GIVEN	573386 13:15:1 0	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573592	573386	LUCIEN FULTON - COIN PHONE T
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573582	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573564	573386	ERICSS MONTGOMERY CITY LOCAL PLUS CUSTOMER ON
NOT GIVEN	573386 13:30:3 1	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573386 13:34:2 9	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	573386 13:40:2 0	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
314968	573386	NORTE WEBSTER GROVES ACCOUNT NOT FOUND L

573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573581	573386	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
573564	573386	ERICSS MONTGOMERY CITY LOCAL PLUS CUSTOMER ON
HATTON		
573581	573387	ERICSS MEXICO LOCAL PLUS CUSTOMER ON
NOT GIVEN	573387 13:29:3	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY 4
NOT GIVEN	573387 13:38:4	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY 6
NOT GIVEN	573387 13:47:5	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY 2
MOKANE		
573881	573676	GTE EXCH. - GTE TO PROVIDE RECORD
573220	573676	INTERLATA WIRELESS CALL - DELIVERED TO KINGDOM TANDEM
573220	573676	INTERLATA WIRELESS CALL - DELIVERED TO KINGDOM TANDEM
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
812639	573676	INTERSTATE INTRALATA - NO RECORD CREATED
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573584	573676	SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573680	573676	SPRINT EXCH. - SPRINT TO PROVIDE RECORD
573881	573676	GTE EXCH. - GTE TO PROVIDE RECORD
573881	573676	GTE EXCH. - GTE TO PROVIDE RECORD
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573280	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573220	573676	INTERLATA WIRELESS CALL - IXC TRANSPORTED TO KINGDOM TANDEM
573881	573676	GTE EXCH. - GTE TO PROVIDE RECORD
573690	573676	SPRINT EXCH. - SPRINT TO PROVIDE RECORD
NOT	573676 13:57:4	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY

GIVEN

7

SUMMARY

Total calls in 1-hour test:	238
Matched calls in 1-hour test:	176
Unmatched calls in 1-hour test:	62
Explained calls in 1-hour test:	48
Percent matched and explained calls:	94.1
Percent unable to research:	4.6

No originating records were sent for 1-hour test for which there is was no terminating recording made.

ORIG. NUMBER	TERM. NUMBER	CONNECT TIME	SWITCH TYPE	KLM STATUS OF RECONCILIATION
NOT GIVEN	RICH HILL 417395	13:46:20		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NOT GIVEN	RICHARDS 417927	13:59:03		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY

SUMMARY

Total calls in 1-hour test:	322
Matched calls in 1-hour test:	320
Unmatched calls in 1-hour test:	2
Explained calls in 1-hour test:	0
Percent matched and explained calls:	99.4
Percent unable to research:	0.6

No originating records were sent for 1-hour test for which there is was no terminating recording made.

ORIG NUMBER	TERM NUMBER	CONNE CT TIME	SWITCH TYPE	MODERN STATUS OF RECONCILIATION
816221	660465		ERICSSO	SEDALIA FGA - CGI COMMUNIGROUP INC
			N	
NO NUMBER	660465	13:51:10		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NO NUMBER	660465	13:56:42		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
			UNIONVILLE	
NO NUMBER	660947	13:18:18		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
913859	660947			INTERSTATE INTRALATA - NO RECORD CREATED
NO NUMBER	660947	13:54:02		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
NO NUMBER	660947	13:57:56		NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
SUMMARY				
Total calls in 1-hour test:			191	
Matched calls in 1-hour test:			184	
Unmatched calls in 1-hour test:			7	
Explained calls in 1-hour test:			1	
Percent matched and explained calls:			96.9	
Percent unable to research:			2.6	

No originating records were sent for 1-hour test for which there is was no terminating recording made.

ORIG. NUMBER R	TERM. NUMBER	CONN ECT TIME	SWITCH TYPE	NEMR STATUS OF RECONCILIATION
BROCK				
660397	660328	13:15:3	NORTEL RECORD SENT 10-19-00	1
660665	660328	13:21:2	NORTEL RECORD SENT 10-19-00	5
660379	660328	13:33:0	NORTEL RECORD SENT 10-19-00	6
660457	660328	13:44:3	NORTEL RECORD SENT 10-19-00	9
NOT GIVEN	660328	13:45:0	NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY	
660379	660328	13:54:5	NORTEL RECORD SENT 10-19-00	2
MARTINSTOWN				
660665	660335	13:00:5	NORTEL RECORD SENT 10-19-00	8
660263	660335	13:04:2	LUCENT RECORD SENT 10-19-00	1
660627	660335	13:41:5	NORTEL RECORD SENT 10-19-00	2
660665	660335	13:42:1	NORTEL RECORD SENT 10-19-00	6
660457	660335	13:45:4	NORTEL RECORD SENT 10-19-00	7
660646	660335	13:49:2	NORTEL RECORD SENT 10-19-00	2
NOVINGER				
660627	660488	13:03:4	NORTEL RECORD SENT 10-19-00	1

660379	660488 13:11:1 NORTEL RECORD SENT 10-19-00 5
660665	660488 13:11:1 NORTEL RECORD SENT 10-19-00 7
660627	660488 13:14:4 NORTEL RECORD SENT 10-19-00 3
660627	660488 13:14:4 NORTEL RECORD SENT 10-19-00 8
660627	660488 13:15:0 NORTEL RECORD SENT 10-19-00 0
660627	660488 13:23:3 NORTEL RECORD SENT 10-19-00 4
660627	660488 13:23:4 NORTEL RECORD SENT 10-19-00 3
660627	660488 13:23:5 NORTEL RECORD SENT 10-19-00 5
660627	660488 13:24:1 NORTEL RECORD SENT 10-19-00 6
660627	660488 13:28:4 NORTEL RECORD SENT 10-19-00 2
660627	660488 13:31:2 NORTEL RECORD SENT 10-19-00 8
660665	660488 13:32:2 NORTEL RECORD SENT 10-19-00 1
660665	660488 13:34:3 NORTEL RECORD SENT 10-19-00 2
660665	660488 14:27:5 NORTEL RECORD SENT 10-19-00 4
660627	660488 13:35:1 NORTEL RECORD SENT 10-19-00 7
660627	660488 13:38:1 NORTEL RECORD SENT 10-19-00 6
660397	660488 13:39:1 NORTEL RECORD SENT 10-19-00 5
660665	660488 13:40:2 NORTEL NO ORIG. # PROVIDED BY TERM. CO. BUT CALL WAS MATCHED ON TIME 1

660665 660488 13:41:4 NORTEL RECORD SENT 10-19-00
2
660665 660488 13:42:1 NORTEL RECORD SENT 10-19-00
5
660665 660488 13:42:2 NORTEL RECORD SENT 10-19-00
3
660665 660488 13:43:0 NORTEL RECORD SENT 10-19-00
7
660397 660488 13:44:3 NORTEL RECORD SENT 10-19-00
6
660627 660488 13:44:4 NORTEL RECORD SENT 10-19-00
6
660397 660488 13:46:1 NORTEL RECORD SENT 10-19-00
2
660665 660488 13:47:3 NORTEL RECORD SENT 10-19-00
9
660627 660488 13:49:0 NORTEL RECORD SENT 10-19-00
5
660665 660488 13:50:0 NORTEL RECORD SENT 10-19-00
9
660665 660488 13:50:3 NORTEL RECORD SENT 10-19-00
0
660665 660488 13:53:1 NORTEL RECORD SENT 10-19-00
7
660627 660488 13:53:3 NORTEL RECORD SENT 10-19-00
3
660627 660488 13:53:5 NORTEL RECORD SENT 10-19-00
7
660665 660488 13:55:3 NORTEL RECORD SENT 10-19-00
9

POLLOCK

660665 660692 13:29:3 NORTEL RECORD SENT 10-19-00
2
660665 660692 13:32:5 NORTEL RECORD SENT 10-19-00
2

816537 660692 13:56:0 LUCENT RECORD SENT 10-19-00
9

WINIGAN

660627 660857 13:19:3 NORTEL RECORD SENT 10-19-00
0
660665 660857 13:31:0 NORTEL RECORD SENT 10-19-00
8
660665 660857 13:36:1 NORTEL RECORD SENT 10-19-00
1
660665 660857 13:36:2 NORTEL RECORD SENT 10-19-00
8
660665 660857 13:36:4 NORTEL RECORD SENT 10-19-00
7
660665 660857 13:37:1 NORTEL RECORD SENT 10-19-00
7
660665 660857 13:40:1 NORTEL RECORD SENT 10-19-00
2
660258 660857 13:52:5 NORTEL RECORD SENT 10-19-00
4
660258 660857 13:57:0 NORTEL RECORD SENT 10-19-00
2

LURAY

NOT 660866 13:21:5 NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN 5

GREEN CITY

660665 660874 13:04:1 NORTEL RECORD SENT 10-19-00
8
660627 660874 13:07:3 NORTEL RECORD SENT 10-19-00
4
660665 660874 13:09:3 NORTEL RECORD SENT 10-19-00
7
660665 660874 13:11:4 NORTEL RECORD SENT 10-19-00
7

660665	660874 13:13:0 NORTEL RECORD SENT 10-19-00	2
816525	660874 13:16:3 LUCENT RECORD SENT 10-19-00	0
660265	660874 ALLTEL EXCH. - ALLTEL TO PROVIDE RECORD	
660379	660874 13:24:2 NORTEL RECORD SENT 10-19-00	3
660627	660874 13:26:2 NORTEL RECORD SENT 10-19-00	5
660665	660874 13:29:2 NORTEL RECORD SENT 10-19-00	6
660665	660874 13:26:4 NORTEL RECORD SENT 10-19-00	8
913341	660874 INTERSTATE INTRALATA - NO RECORD CREATED	
660665	660874 13:32:1 NORTEL RECORD SENT 10-19-00	4
660665	660874 13:33:2 NORTEL RECORD SENT 10-19-00	3
660627	660874 13:34:0 NORTEL RECORD SENT 10-19-00	6
660665	660874 13:37:4 NORTEL RECORD SENT 10-19-00	6
660665	660874 13:45:1 NORTEL RECORD SENT 10-19-00	6
660379	660874 13:45:4 NORTEL RECORD SENT 10-19-00	2
660665	660874 13:47:2 NORTEL RECORD SENT 10-19-00	3
660258	660874 13:50:1 NORTEL RECORD SENT 10-19-00	8
660665	660874 13:52:2 NORTEL RECORD SENT 10-19-00	9
660529	660874 13:54:5 ERICSS RECORD SENT 10-19-00	7 ON
660646	660874 13:58:4 NORTEL RECORD SENT 10-19-00	1

660665 660874 13:59:3 NORTEL RECORD SENT 10-19-00
4

TOBIN CREEK

660397 660883 13:08:4 NORTEL RECORD SENT 10-19-00
1
660457 660883 13:19:0 NORTEL RECORD SENT 10-19-00
8
660263 660883 13:25:5 LUCENT RECORD SENT 10-19-00
4
660263 660883 13:56:5 LUCENT RECORD SENT 10-19-00
4

OMAHA

660665 660933 13:18:3 NORTEL RECORD SENT 10-19-00
4
660627 660933 13:29:4 NORTEL RECORD SENT 10-19-00
2
660457 660933 13:38:3 NORTEL RECORD SENT 10-19-00
4

ARBELA

NOT 660945 13:05:0 NO ORIGINATING NUMBER PROVIDED BY TERMINATING COMPANY
GIVEN 5
660627 660945 13:39:5 NORTEL RECORD SENT 10-19-00
8
660263 660945 13:45:5 LUCENT RECORD SENT 10-19-00
6

SUMMARY

Total calls in 1-hour test:	151
Matched calls in 1-hour test:	58
Unmatched calls in 1-hour test:	93
Explained calls in 1-hour test:	90
Percent matched and explained calls:	98
Percent unable to research:	2.0

No originating records were sent for 1-hour test for which there is was no terminating recording made.

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ORIGINATING EXCHANGE	SWITCH TYPE	ORIGINATING NUMBER	TERMINATING NUMBER	DATE	TIME	TIME	TIME	MID-MISSOURI STATUS OF RECONCILIATION PROCESS
SEDALIA	ERICSSO N	660826	660427	717	13002	3610	3538	LOCAL PLUS
MARSHALL	ERICSSO N	660886	660834	717	13014	1361	1314	LOCAL PLUS
MARSHALL	ERICSSO N	660886	660859	717	13030	171	135	LOCAL PLUS
MARSHALL	ERICSSO N	660886	660837	717	13043	257	156	LOCAL PLUS
SEDALIA	ERICSSO N	660827	660879	717	13050	891	839	LOCAL PLUS
MARSHALL	ERICSSO N	660831	660879	717	13051	4429	4351	LOCAL PLUS
MARSHALL	ERICSSO N	660831	660834	717	13074	4203	4122	LOCAL PLUS
MARSHALL	ERICSSO N	660886	660859	717	13125	340	288	LOCAL PLUS
MARSHALL	ERICSSO N	660831	660852	717	13133	4617	4496	LOCAL PLUS
SLATER	ERICSSO N	660529	660852	717	13140	8092	8021	LOCAL PLUS
SEDALIA	ERICSSO N	660826	660337	717	13142	350	262	LOCAL PLUS
MARSHALL	ERICSSO N	660886	660784	717	13173	299	20	LOCAL PLUS
MARSHALL	ERICSSO N	660831	660879	717	13181	235	109	LOCAL PLUS
SLATER	ERICSSO N	660529	660852	717	13191	574	369	LOCAL PLUS
SLATER	ERICSSO N	660529	660852	717	13192	9736	9627	LOCAL PLUS
MARSHALL	ERICSSO N	660886	660859	717	13201	952	788	VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE

KC - MCGEE		816221	660837	717	13211	115	29 FGA ACCOUNT
					8		
SLATER	ERICSSO	660529	660784	717	13214	328	49 LOCAL PLUS
	N				7		
MARSHALL	ERICSSO	660886	660837	717	13215	4316	4099 LOCAL PLUS
	N				4		
SLATER	ERICSSO	660529	660784	717	13220	426	297 LOCAL PLUS
	N				9		
SEDALIA	ERICSSO	660827	660337	717	13241	1850	1783 LOCAL PLUS
	N				8		
KC - MCGEE		816221	660837	717	13241	361	336 FGA ACCOUNT
					9		
MARSHALL	ERICSSO	660831	660852	717	13251	2316	2208 LOCAL PLUS
	N				8		
MARSHALL	ERICSSO	660886	660852	717	13260	5004	4932 LOCAL PLUS
	N				8		
MARSHALL	ERICSSO	660886	660784	717	13261	250	15 LOCAL PLUS
	N				3		
SLATER	ERICSSO	660529	660784	717	13261	579	494 LOCAL PLUS
	N				3		
SEDALIA	ERICSSO	660829	660458	717	13262	3958	3857 LOCAL PLUS
	N				7		
SLATER	ERICSSO	660529	66085	717	13274	2275	2233 LOCAL PLUS
	N				6		
MARSHALL	ERICSSO	660886	660852	717	13281	639	581 LOCAL PLUS
	N				7		
SLATER	ERICSSO	660529	660834	717	13284	1796	1790 LOCAL PLUS
	N				5		
SLATER	ERICSSO	660529	660784	717	13292	217	113 LOCAL PLUS
	N				6		
BOONVILLE	NORTEL	660882	660834	717	13313	217	4 CALL NOT COMPLETED - ELP TIME ZERO
					0		
SEDALIA	ERICSSO	660827	660337	717	13325	1577	1564 LOCAL PLUS
	N				2	2	7
SLATER	ERICSSO	660529	660834	717	13344	4463	4463 ACCOUNT DISC 8-9-00 HAD LOCAL +
	N				8	9	4

MARSHALL	ERICSSO	660886	660879	717	13344	692	591 LOCAL PLUS
	N				9		
MARSHALL	ERICSSO	660886	660852	717	13351	151	27 VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE
	N				1		
MARSHALL	ERICSSO	660886	660837	717	13353	1766	1660 LOCAL PLUS
	N				9		
SLATER	ERICSSO	660529	660427	717	13360	157	101 LOCAL PLUS
	N				0		
MARSHALL	ERICSSO	660886	660784	717	13364	341	62 LOCAL PLUS
	N				0		
MARSHALL	ERICSSO	660886	660859	717	13380	1264	1130 LOCAL PLUS
	N				2		
MARSHALL	ERICSSO	660886	660852	717	13395	3161	3023 BTN 660-886-9546 LOCAL PLUS
	N				8		
MARSHALL	ERICSSO	660886	660852	717	13403	2781	2580 VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE
	N				2		
MARSHALL	ERICSSO	660831	660879	717	13404	1055	952 LOCAL PLUS
	N				4		
MARSHALL	ERICSSO	660886	660837	717	13422	1252	1156 VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE
	N				4		
MARSHALL	ERICSSO	660831	660859	717	13425	3294	3251 ACCOUNT DISCONNECTED
	N				0		
MARSHALL	ERICSSO	660886	660852	717	13431	328	266 VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE
	N				9		
MARSHALL	ERICSSO	660886	660837	717	13432	1726	1487 LOCAL PLUS
	N				4		
MARSHALL	ERICSSO	660886	660846	717	13444	72	1 LOCAL PLUS
	N				0		
MARSHALL	ERICSSO	660886	660837	717	13450	461	398 AT& T PIC
	N				8		
MARSHALL	ERICSSO	660886	660837	717	13464	2783	2702 VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE
	N				1		
SLATER	ERICSSO	660529	660852	717	13472	1643	1545 VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE
	N				2		
SLATER	ERICSSO	660529	660852	717	13473	155	31 LOCAL PLUS
	N				7		

		913890	660879	717	13473	474	443 INTERSTATE INTRALATA - NO RECORD MADE
					9		
MARSHALL	ERICSSO	660886	660837	717	13482	1385	1340 MCI PIC
	N				5		
SLATER	ERICSSO	660529	660784	717	13485	1504	1454 LOCAL PLUS
	N				6		
MARSHALL	ERICSSO	660831	660859	717	13493	429	374 ACCOUNT DISCONNECTED
	N				9		
MARSHALL	ERICSSO	660886	660837	717	13501	298	105 VERIFIED 12-29-00 THAT 006 RECORD IS NOW BEING MADE
	N				5		
MARSHALL	ERICSSO	660886	660837	717	13503	782	722 LOCAL PLUS
	N				0		
MARSHALL	ERICSSO	660886	660837	717	13522	3315	3219 LOCAL PLUS
	N				2		
MARSHALL	ERICSSO	660886	660879	717	13525	493	340 LOCAL PLUS
	N				5		
SEDALIA	ERICSSO	660829	660834	717	13533	5141	5045 LOCAL PLUS
	N				7		
MARSHALL	ERICSSO	660831	660859	717	13534	363	308 LOCAL PLUS
	N				7		
		913281	660458	717	13540	420	399 INTERSTATE INTRALATA - NO RECORD MADE
					1		
SLATER	ERICSSO	660529	660852	717	13540	8874	8823 LOCAL PLUS
	N				4		
MARSHALL	ERICSSO	660831	660879	717	13545	245	173 LOCAL PLUS
	N				8		
MARSHALL	ERICSSO	660886	660859	717	13561	243	155 LOCAL PLUS
	N				1		
LAMONTE	ERICSSO	660347	660846	717	13565	496	335 LOCAL PLUS
	N				7		
MARSHALL	ERICSSO	660886	660859	717	13570	2167	2136 LOCAL PLUS
	N				3		
MARSHALL	ERICSSO	660886	660879	717	13573	140	58 LOCAL PLUS
	N				7		
MARSHALL	ERICSSO	660831	660879	717	13581	349	86 LOCAL PLUS
	N				2		

MARSHALL	ERICSSO	66083.1	660784	717	13594	2200	2058	LOCAL PLUS
	N				2			

SUMMARY

Total calls recorded for 1-hour period

Not provided by terminating company

Matched calls in 1-hour test:

Not provided by terminating company

Unmatched calls in 1-hour test:

71

Explained calls in 1-hour test:

67

Unexplained calls in 1-hour test:

4