



Mary K. Keyer
General Attorney
Kentucky Legal Department

AT&T Kentucky
601 W. Chestnut Street
Room 407
Louisville, KY 40203

T 502-582-8219
F 502-582-1573
mary.keyer@att.com

July 9, 2012

RECEIVED

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PUBLIC SERVICE
COMMISSION

VIA OVERNIGHT MAIL

Mr. Jeff Derouen
Executive Director
Public Service Commission
211 Sower Boulevard
P. O. Box 615
Frankfort, KY 40602

Re: BellSouth Telecommunications, LLC, d/b/a AT&T
Kentucky, Complainant v. Halo Wireless, Inc., Defendant
PSC 2011-00283

Dear Mr. Derouen:

Enclosed for filing in the above-referenced case are the original and ten (10) copies of Rebuttal Testimony of AT&T Kentucky's witnesses, Raymond W. Drause, J. Scott McPhee, and Mark Neinast.

Please let me know if you have any questions.

Sincerely,


Mary K. Keyer

Enclosures

cc: Parties of Record

1039084

CERTIFICATE OF SERVICE – PSC 2011-00283

I hereby certify that a copy of the foregoing was served on the following individuals by mailing a copy thereof via U.S. Mail, this 9th day of July 2012.

Russell Wiseman
President & CEO
Halo Wireless, Inc.
2351 West Northwest Hwy., Suite 1204
Dallas, TX 75220

Jennifer M. Larson
McGuire, Craddock & Strother, P.C.
2501 N. Harwood, Suite 1800
Dallas, TX 75201

Katherine W. Ross, Esq.
Regard Law Group, PLLC
269 W. Main Street, Suite 600
Lexington, KY 40507-1759



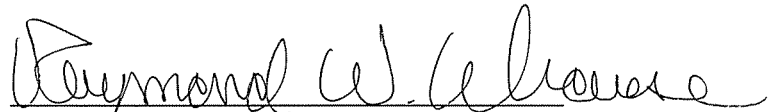
Mary K. Keyer

COMMONWEALTH OF KENTUCKY
KENTUCKY PUBLIC SERVICE COMMISSION

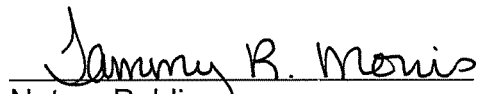
COUNTY OF COLE

STATE OF MISSOURI

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Raymond W. Drause, who being by me first duly sworn deposed and said that he is appearing as a witness on behalf of BellSouth Telecommunications, LLC d/b/a AT&T Kentucky before the Kentucky Public Service Commission in Docket Number 2011-00283, *In the Matter of: BellSouth Telecommunications, LLC, d/b/a AT&T Kentucky, Complainants v. Halo Wireless, Inc., Defendant*, and if present before the Commission and duly sworn, his statements would be set forth in the annexed rebuttal testimony consisting of 16 pages and 5 exhibits.

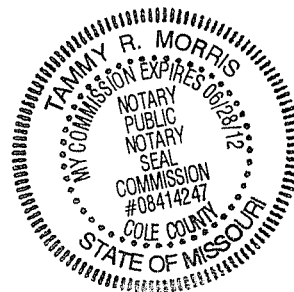

Raymond W. Drause

SWORN TO AND SUBSCRIBED BEFORE ME
THIS 27th DAY OF JUNE, 2012


Notary Public

My Commission Expires: 6/28/2012

1039040



COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of)	
)	
BELLSOUTH)	
TELECOMMUNICATIONS, LLC d/b/a)	
AT&T KENTUCKY,)	
)	Case No. 2011-00283
Complainant,)	
)	
v.)	
)	
HALO WIRELESS, INC.,)	
)	
Defendant.)	

REBUTTAL TESTIMONY OF RAYMOND W. DRAUSE
ON BEHALF OF AT&T KENTUCKY

July 10, 2012

1 **Q. PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.**

2 A. My name is Raymond W. Drause. I hold the position of Senior Wireless
3 Engineer at McCall-Thomas Engineering Company, Inc. I provide engineering
4 support to various independent telephone companies and electric co-operatives.
5 My business address is 845 Stonewall Jackson Boulevard, Orangeburg, South
6 Carolina.

7 **Q. PLEASE STATE YOUR EXPERIENCE AND EDUCATIONAL BACKGROUND.**

8
9 A. I am a Registered Professional Engineer. I graduated with honors from Herzing
10 University, in Madison, Wisconsin, with an Associate of Science in Electronics
11 Engineering Technology degree. I have worked for over 42 years in the
12 telecommunications engineering field. I have been employed by McCall-Thomas
13 Engineering Company for the past five years as Senior Wireless Engineer. My
14 experience includes the design, installation and operation of switching, transport,
15 fiber optic, wireless, video and power systems.

16 My work assignments over the past 42 years have ranged from large and
17 well established companies, such as AT&T and Southwestern Bell, cutting edge
18 regional companies in the CLEC industry, such as NewSouth Communications
19 and NuVox Communications, as well as telecommunications providers serving
20 single communities. My responsibilities on these assignments have ranged from
21 detailed engineering of individual telecommunications systems to the overall
22 engineering management of entire multi-state telecommunications networks. A
23 more detailed summary of my work experience is included as **Exhibit RD-1**.

24

1 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING?**

2 A. I am testifying on behalf of AT&T Kentucky.

3 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

4 A. I will address portions of the testimony of Russ Wiseman and Robert Johnson,
5 both of which were filed on behalf of Halo Wireless, Inc. ("Halo") on July 3, 2012.

6 **Q. HAVE YOU PREVIOUSLY TESTIFIED?**

7

8 A. Yes. I had never testified in a regulatory proceeding before these cases
9 involving Halo. As of the date of this testimony, however, I have submitted pre-
10 filed testimony in state commission cases similar to this one in Wisconsin, South
11 Carolina, Georgia, Louisiana, Illinois, Missouri and Florida, and I testified at the
12 evidentiary hearings in all of those proceedings except Florida, which has not yet
13 occurred.

14 **Q. WHAT MATERIALS HAVE YOU REVIEWED IN ORDER TO PREPARE YOUR**
15 **TESTIMONY?**

16 A. I have reviewed testimony, exhibits and transcripts from this proceeding and
17 parallel proceedings in other state commissions, as well as the Airspan
18 specification documents and technical user guides for the equipment installed at
19 the Halo tower site in Paducah Kentucky. More specifically, I reviewed the
20 following documents:

21 1. Pre-filed testimony of Russ Wiseman on behalf of Halo in this docket. I
22 also reviewed Mr. Wiseman's Wisconsin, South Carolina, Georgia,
23 Louisiana, Florida, Illinois and Missouri testimony.

24 2. Pre-filed testimony of Robert Johnson on behalf of Halo in this docket. I
25 also reviewed Mr. Johnson's Wisconsin, South Carolina, Georgia,
26 Louisiana, Florida, Illinois and Missouri testimony. In addition, I attended,
27 by telephone, a deposition of Mr. Johnson that was taken by AT&T in May,
28 and I have reviewed the transcript of that deposition.

- 1 3. The record in the Public Service Commission of Wisconsin (“PSCW”)
2 proceeding, *Investigation into Practices of Halo Wireless, Inc., and*
3 *Transcom Enhanced Services, Inc.*, Docket No. 9594-TI-100, as well as
4 Halo Wireless, Inc., and Transcom Enhanced Services, Inc.’s 2nd
5 Amended Responses to Staff Data Request #1, dated January 11, 2012,
6 and Halo Wireless, Inc., and Transcom Enhanced Services, Inc.’s
7 Amended Responses to Supplemental Staff Data Request #1, dated
8 January 20, 2012 in the PSCW proceeding.
- 9 4. January 23, 2012, Transcript of Proceedings before the Tennessee
10 Regulatory Authority in Docket No. 11-00108, *Complaint of Concord*
11 *Telephone Exchange, Inc.; Humphreys County Telephone Co.; Tellico*
12 *Telephone Company; Tennessee Telephone Company; Crockett*
13 *Telephone Company, Inc.; Peoples Telephone Company; West*
14 *Tennessee Telephone Company, Inc.; North Central Telephone Coop.,*
15 *Inc.; and Highland Telephone Cooperative, Inc. against Halo Wireless,*
16 *LLC; Transcom Enhanced Services, Inc. and other Affiliates for Failure to*
17 *Pay Terminating Intrastate Access Charges for Traffic and Other Relief*
18 *and Authority to Cease Termination of Traffic.*
- 19 5. April 18, 2012, Partial Transcript of Proceedings (cross-examination of
20 Robert Johnson) before the South Carolina Public Service Commission in
21 Docket No. 2011-304-C, *Complaint and Petition for Relief of BellSouth*
22 *Telecommunications, LLC d/b/a AT&T Southeast d/b/a AT&T South*
23 *Carolina v. Halo Wireless, Inc. for Breach of the Parties’ Interconnection*
24 *Agreement.*
- 25 6. April 26, 2012, Transcript of Proceedings before the Georgia Public
26 Service Commission in Docket No. 34219, *Complaint of TDS Telecom on*
27 *Behalf of its Subsidiaries Blue Ridge Telephone Company, Camden*
28 *Telephone & Telegraph Company, Inc., Nelson-Ball Ground Telephone*
29 *Company, and Quincy Telephone Company, Against Halo Wireless, Inc.,*
30 *Transcom Enhanced Services, Inc., and Other Affiliates for Failure to Pay*
31 *Terminating Intrastate Access Charges for Traffic and for Expedited*
32 *Declaratory Relief and Authority to Cease Termination of Traffic.*
- 33 7. Equipment Lease between SATNet, LLC and Halo Wireless, LLC, dated
34 June 1, 2010.
- 35 8. Proffer of Testimony of Russ Wiseman on behalf of Halo Wireless, Inc.,
36 the Debtor in Case No. 11-42464-BTR-11, In Re: Halo Wireless, Inc.,
37 Debtor, before the United States Bankruptcy Court for the Eastern District
38 of Texas, Sherman Division.
- 39 9. Product Specification: Airspan WiMAX MiMAX-Pro V-Series.
- 40 10. HiperMAX Product Specification.

1 11. HiperMAX Technical User's Guide - HiperMAX Commissioning - SDR-
2 micro.

3 12. HiperMAX Base Station Data Sheet.

4 I was aided in my understanding of the documents by the experience I
5 have acquired while providing engineering type work for communications projects
6 that utilize Airspan WiMAX and pre-WiMAX systems.

7 **Q. HAVE YOU VISITED A HALO TOWER SITE?**

8 A. Yes. An AT&T attorney arranged a visit to a Halo tower site in another state, and
9 I spent about one hour and 20 minutes there earlier this year. I had a chance to
10 look at and photograph the Halo and Transcom Enhanced Services, Inc.
11 ("Transcom") equipment I describe in this testimony, and to get a good look at
12 the site. Halo has agreed that the tower site I visited is sufficiently representative
13 of the Halo tower site in Paducah, Kentucky, for all relevant purposes, so that my
14 visit to that site was equivalent to a visit to the Halo site in Paducah.

15 **Q. PLEASE GIVE AN OVERVIEW OF THE STRUCTURES AT THE HALO**
16 **TOWER SITE.**

17 A. There are three structures: two small buildings and a tower. You can see them
18 on **Exhibit RD-2**, which is a photograph I took during the site visit. (Again, Halo
19 has agreed that the photograph is a fair representation of a Halo site in
20 Kentucky.) The concrete building housing the Halo and Transcom equipment,
21 which Transcom witness Johnson refers to as the "shelter," is about 24 feet long,
22 10 feet wide and 10 feet tall. The base of the wireless tower is about 10 feet
23 from the side wall of that shelter.

24

1 Q. **BASED ON THE DOCUMENTS THAT YOU REVIEWED AND THE FIELD**
2 **INSPECTION, DO YOU HAVE AN UNDERSTANDING OF THE EQUIPMENT**
3 **LOCATED AT THE TOWER SITE IN PADUCAH, KENTUCKY, AND THE**
4 **FLOW OF TRANSCOM AND HALO TRAFFIC?**

5 A. Yes. As a result of my field visit and examination of the documents, I have
6 gained a high-level understanding of the equipment used by Halo and Transcom
7 at the tower site serving Kentucky, as well as at the other Halo tower sites across
8 the country. The documents I reviewed provided sufficient information to permit
9 me to create a site drawing included with my testimony as **Exhibit RD-3** that
10 conceptually illustrates the significant pieces of Halo and Transcom equipment
11 located at the tower site. The documents that I reviewed also provided
12 information that describes how a telephone call would enter a tower site and
13 pass between the various pieces of equipment at the tower site before being sent
14 on to a Halo POP for delivery to a tandem switch. I used that call-flow
15 information to populate the site drawing (Exhibit RD-3) with lines and arrows that
16 illustrate the manner in which a telephone call would flow through the various
17 pieces of equipment at the tower site. (A "POP" is a point of presence. Robert
18 Johnson, the Transcom representative who testifies on behalf of Halo, has
19 expressed a preference for the term "data center," so I use that term, instead of
20 "POP" in the exhibit.) Exhibit RD-3 also references equipment and systems
21 installed at other locations that interoperate over unspecified transmission
22 facilities with the tower site equipment. The Dallas soft-switch is illustrated on
23 Exhibit RD-3, and is an important system that interoperates with the tower site
24 equipment.

1 **Q. BASED ON THE DOCUMENTS YOU REVIEWED AND YOUR EXPERIENCE IN**
2 **THE INDUSTRY, HOW WOULD YOU DESCRIBE THE FLOW OF A**
3 **TELEPHONE CALL THROUGH THE TOWER SITE SERVING KENTUCKY?**

4 A. The IP data stream that is carrying the telephone call enters the shelter at the
5 tower site and passes through a Cisco Router and an Extreme Networks Fast
6 Ethernet Switch (labeled as Switch/Router Cloud on Exhibit RD-3) before being
7 sent over a Category 5 ("CAT5") Ethernet cable to Transcom's Airspan MiMAX
8 Pro-V Customer Premise Equipment. The Airspan MiMAX Pro-V takes the IP
9 data stream that is presented to it over the Ethernet cable, converts it to a
10 3.65GHz radio signal and transmits it to Halo's Airspan SDR-Micro Base Station.
11 The function of the Airspan equipment is simply to transport the IP data stream
12 from one place to another. More specifically, the IP data stream is transported
13 from the Airspan MiMAX Pro-V Customer Premise Equipment that is mounted on
14 a pipe attached to the shelter to the Airspan antenna and SDR-Micro Single
15 Channel RF Transceiver that are mounted on the tower and then back down the
16 tower over a fiber optic cable to the Airspan SDR-Micro Base Station that is
17 located in the shelter.

18 The Airspan SDR-Micro Base Station system converts the wireless IP
19 data stream that it receives from the Airspan MiMAX Pro-V Customer Premise
20 Equipment back into a form that can be sent over an Ethernet cable. From there,
21 the IP data stream is carried over an Ethernet cable to the Extreme Networks
22 Fast Ethernet Switch and then to the Halo Router located in the shelter. The IP
23 data stream leaves the Halo Router and is transported over unspecified facilities
24 to the softswitch cloud in Dallas. The IP data stream is handled by the equipment
25 in the Dallas Softswitch Cloud, then leaves the Dallas Softswitch Site and is sent

1 over unspecified facilities to a Halo point of presence (“POP”) in Atlanta, Dallas,
2 Los Angeles or New York. At the Halo POP, the IP data stream carrying the call
3 undergoes a conversion from IP to TDM, and is sent to a tandem switch for
4 delivery to a subtending office where the call terminates.

5 **Q. IN YOUR OPINION, WHAT ENGINEERING PURPOSE IS SERVED BY THE**
6 **WIRELESS CONNECTION BETWEEN THE TRANSCOM CUSTOMER**
7 **PREMISES EQUIPMENT AND THE HALO BASE STATION?**

8 A. The only purpose is to include a wireless transportation segment. If we review
9 the call-flow, we discover that the IP data stream carrying the call enters the
10 Ethernet cable connected to the Airspan MiMAX Pro-V Customer Premise
11 Equipment, travels through this customer premises equipment over the 3.65 GHz
12 radio link to the antenna and Airspan Transceiver and then on to the Airspan
13 Base Station. The call-related characteristics of the IP data stream that emerges
14 from the Airspan Base Station are unchanged from the form they were in when
15 they entered the Airspan MiMAX Pro-V Customer Premise Equipment. The
16 Airspan Customer Premises Equipment and Base Station serve no networking
17 purpose other than to carry the IP data from one point within the building to
18 another point within the building. The Airspan equipment does not contain
19 externally controlled, dynamic Ethernet switching apparatus and cannot modify
20 the content of the IP data stream to change call-related routing or signaling
21 information that it may be carrying. If the Airspan equipment were replaced by a
22 piece of Ethernet cable, the call could be completed just as it is today. This was
23 confirmed by Halo witness Robert Johnson in his testimony at hearings in the
24 related cases I mentioned above. Mr. Johnson acknowledged that if the Airspan

1 equipment were replaced with a piece of CAT5 Ethernet cable, calls would still
2 complete as they do today.

3 **Q. HOW FAR DOES THE WIRELESS TRANSMISSION FROM THE BUILDING TO**
4 **THE TOWER GO?**

5 A. Approximately 159 feet. This is the distance between Transcom's MiMAX Pro-V
6 wireless equipment mounted on a pipe bolted to the wall of the building and
7 Halo's antenna mounted on the tower.

8 **Q. WOULD REPLACING THE AIRSPAN EQUIPMENT WITH A PIECE OF**
9 **ETHERNET CABLE HAVE ANY EFFECT ON THE RELIABILITY OF THE**
10 **NETWORK?**

11 A. Yes. By eliminating the Airspan equipment and the wireless leap from the
12 building to the tower, the resulting configuration would actually provide a more
13 reliable level of service. According to the Airspan HiperMAX Product
14 Specification document, the predicted Mean Time Between Failure of hardware
15 in the SDR-Micro Base Station is 115,000 hours. This does not include failures
16 that are caused by lightning, electrostatic discharge, voltage spikes and other
17 harmful electrical events that frequently occur at sites with large towers. An
18 Ethernet copper cable, which unlike the Airspan equipment has no delicate
19 electronic components, is much less subject to failure. Also, all of the packet
20 loss, jitter and latency that are inherent in the wireless connection would be
21 totally eliminated.

22

23

24

1 **Q. DOES HALO TAKE ISSUE WITH YOUR OBSERVATIONS THAT THE ONLY**
2 **PURPOSE OF THE WIRELESS CONNECTION IS TO ALLOW HALO AND**
3 **TRANSCOM TO SAY THEY ARE CONNECTED WIRELESSLY, AND THAT**
4 **THE WIRELESS EQUIPMENT COULD BE REPLACED WITH A CABLE?**

5 A. Halo has suggested that if the link between Halo and Transcom were longer than
6 about 328 feet (rather than the 159 feet it actually is), the connection could not be
7 cabled, because Ethernet cable can carry IP packets only about 328 feet before
8 the quality of the signal degrades.

9 **Q. HOW DO YOU RESPOND?**

10 A. In the first place, I am addressing the physical reality that actually exists at the
11 tower site, not the alternate, hypothetical scenario that Halo posits. Second, if
12 the link were longer than 328 feet (100 meters) the degradation that Halo notes
13 could easily be eliminated by deploying a device that regenerates the signal
14 along the pathway. Alternatively, inexpensive fiber optic cable and fiber interface
15 devices could be used to carry the signal for several miles without any need for
16 further regeneration.

17 Most importantly, though, my basic point is that the wireless connection
18 between Transcom and Halo serves no engineering purpose; all it does is allow
19 Halo and Transcom to label the connection wireless. To illustrate that point, I
20 noted that the wireless equipment could be replaced with a piece of CAT5 cable.
21 There is an alternative illustration that makes the same point: As I explained
22 above, before traffic reaches Transcom's Airspan equipment mounted on the
23 outside of the shelter, it passes through an Extreme Networks Fast Ethernet
24 Switch in the shelter – and the call also passes through that same Ethernet
25 switch after it leaves the Halo Airspan Base Station. The switch could easily be

1 programmed so that traffic is handed off by Transcom to Halo within the switch,
2 without ever passing through the Airspan wireless equipment at all.

3 **Q. IN YOUR OPINION IS THE AIRSPAN MIMAX PRO-V CUSTOMER PREMISE**
4 **EQUIPMENT CAPABLE OF ORIGINATING A CALL?**

5 A. No. None of the Airspan equipment, including the MiMAX Pro-V Customer
6 Premise Equipment, the Airspan SDR-Micro Single Channel RF Transceiver, and
7 the Airspan SDR-Micro Base Station, contains externally controlled, dynamic
8 Ethernet switching apparatus that might be used for call routing. In other words,
9 all the Airspan Customer Premises Equipment does is convert the IP data stream
10 it receives into a radio signal. This is unlike a wireless handset, which contains
11 intelligence capable of creating the data stream which instructs the wireless
12 network where to send the telephone call.

13 As I mentioned, Mr. Johnson has acknowledged that if the Airspan
14 equipment were replaced with a piece of CAT5 Ethernet cable, calls would still
15 complete as they do today. The Airspan equipment has the same ability to
16 originate a call as does that piece of CAT5 Ethernet cable that Mr. Johnson
17 acknowledges could replace it – that is, no ability whatsoever.

18 **Q. IS THERE AN ADDITIONAL REASON FOR YOUR CONCLUSION THAT**
19 **TRANSCOM'S AIRSPAN MIMAX PRO-V CUSTOMER PREMISE EQUIPMENT**
20 **AT THE TOWER SITE IS NOT ORIGINATING COMMUNICATIONS?**

21 A. Yes. The common understanding in the industry is that a communication is
22 originated when it is launched on the switched network along with instructions to
23 the network as to where the communication is to be delivered. Thus, for
24 example, a user of a regular landline phone or a cell phone originates a call by
25 dialing a phone number. No such process occurs at Transcom's Airspan

1 equipment. On the contrary, the instructions to the network are already present
2 when the communication arrives at that equipment. All Transcom's wireless
3 radio equipment can do, and all it does do, is to carry information that is already
4 on Transcom's network from one point to another. If one accepts, just for the
5 sake of discussion, the Halo/Transcom position that Transcom terminates calls
6 and then originates further communications, the origination necessarily occurs
7 not at the tower site in Paducah, but at one of the four Transcom data centers, in
8 Atlanta, New York City, Dallas or Los Angeles. It is there, if anywhere, that
9 Transcom imparts routing instructions for the communication. The wireless
10 equipment at the tower site merely passes that information along.

11 My view in this regard was corroborated by Halo witness Johnson, at his
12 deposition in May of this year. As I mentioned above, I attended that deposition
13 by phone, and have also reviewed the transcript. Mr. Johnson stated that
14 Transcom originates communications at its media gateways and session border
15 controllers – pieces of equipment that are housed in the Transcom data centers
16 in Atlanta, New York City, Dallas and Los Angeles.¹

17 **Q. IS TRANSCOM AN ENHANCED SERVICE PROVIDER (“ESP”)?**

18 A. To answer that question, one must apply the law governing enhanced services to
19 the facts concerning what Transcom does. I do not purport to have expertise in
20 the law, but counsel advises that “enhanced service” means “services, offered
21 over common carrier transmission facilities used in interstate communications,
22 which employ computer processing applications that act on the format, content,

¹ See **Exhibit RD-4**, excerpts from Mr. Johnson's deposition, at 87, line 18 – page 89, line 7.

1 code, protocol or similar aspects of the subscriber's transmitted information;
2 provide the subscriber additional, different, or restructured information; or involve
3 subscriber interaction with stored information.”² Counsel advises that the FCC
4 has ruled that the “enhanced” service designation does *not* apply to services that
5 merely facilitate establishment of a basic transmission path over which a
6 telephone call may be completed, without altering the fundamental character of
7 the telephone service. To qualify as an enhanced service, counsel further
8 advises, a service must be “not incidental” to a telecommunications service, but
9 rather must be the essential service provided. Where the enhancement does
10 not, from the end user’s perspective, alter the fundamental character of the
11 communication, the service is not an enhanced service.

12 **Q. BASED UPON ALL THE MATERIAL YOU HAVE REVIEWED CONCERNING**
13 **TRANSCOM’S OPERATIONS, WHAT ARE THE PERTINENT FACTS FOR**
14 **DETERMINING WHETHER TRANSCOM IS OR IS NOT AN ESP?**

15 A. I carefully examined the testimonies of Mr. Johnson, and compared his
16 description of Transcom’s service platform to that of a softswitch. There is
17 nothing unique in the use of a softswitch; they are widely deployed throughout
18 the telecommunications industry. If the use of softswitch technology is the
19 determining factor in deciding if an entity is an ESP, then Transcom and all other
20 entities utilizing softswitch technology might well claim to be ESPs. The
21 capabilities that Mr. Johnson attributes in his testimony to the Transcom service
22 platform are entirely consistent with those commonly found in softswitches,
23 including:

² 47 C.F.R § 64.702.

- 1
- 2 • Protocol conversion and packet sequencing
- 3 • Replacement of missing packets
- 4 • Compatibility with Time Division Multiplexing (“TDM”)
- 5 • Examination of digitized audio stream to determine:
 - 6 ○ If voice signal is present
 - 7 ○ If ambient noise is present
 - 8 ○ If packets that don’t contain voice signals should be discarded
- 9 • Employment of complex algorithms and sophisticated codecs
- 10 • Employment of sophisticated systems to create sounds
- 11 • Creation of new sound information to enhance communications
- 12 • Delivery of newly created sound to the end user
- 13

14 Thus, the sound heard by the receiver in any communication involving a
15 softswitch is not exactly the sound transmitted, but rather portions of it have been
16 created by the system to enhance the delivered sound. Pages 69 – 70 of the
17 McGraw-Hill publication titled “Softswitch Architecture for VoIP” (ISBN-13 978-
18 0071409773) explain softswitch architecture and affirm that the characteristics
19 shown above are those of a softswitch.

20 The characteristics of what Mr. Johnson calls Transcom’s “enhanced
21 service platform” are identical to the characteristics of a softswitch. A service
22 provider that uses a softswitch to originate, terminate or transport voice traffic is
23 using a system that has been designed to provide the very same capabilities that
24 Transcom is attributing to its “enhanced service platform.”

25 The sophisticated hardware, software and voice-processing algorithms
26 inherent in a softswitch platform are important elements of the call conditioning
27 process, but are not “enhanced services.” Transcom has produced nothing –
28 other than its own claims – to substantiate that the audio quality delivered by
29 Transcom is equal to or perceptibly superior to that delivered by other users of
30 softswitch technology. Transcom has not shown that its softswitch modifies the

1 sound that is delivered to a customer in any way that is different than that which
2 is inherently found in an ordinary softswitch. With that being said, there is little to
3 support a claim that an enhanced service is actually being provided or that
4 Transcom is an ESP. The functionalities described by Mr. Johnson are what the
5 rest of the industry refers to as “call conditioning.”

6 **Q. MR. JOHNSON, HOWEVER, ARGUES THAT THE PROPRIETARY**
7 **ALGORITHMS USED IN TRANSCOM’S “ENHANCED SERVICE PLATFORM”**
8 **ALLOW TRANSCOM TO PUT “NEW AND BETTER INFORMATION INTO THE**
9 **SAME SIZED ‘PIPE’ AS THE ORIGINAL INFORMATION WOULD HAVE**
10 **NEEDED.”³ DO YOU FIND THAT PERSUASIVE?**

11 A. No, and I will explain why: The range of frequencies that are used by the human
12 voice is quite broad, extending from about 60 Hz to around 7,000 Hz.⁴
13 Therefore, the “pipe” that Mr. Johnson describes would need to transport this
14 “Enhanced” frequency range, which is a much broader range than the 300 Hz to
15 3300 Hz range of frequencies (often referred to as the “Voice Band”) that typical
16 telephone End Offices and Tandem Switching Offices are capable of passing.
17 Frequencies that are significantly outside the Voice Band simply cannot and do
18 not pass through the Public Switched Telephone Network (PSTN). Therefore,
19 calls delivered to Transcom from the PSTN would typically not contain speech
20 components that are outside of the 300 Hz to 3300 Hz frequency range.

21 The same limitation applies to calls that are delivered by Transcom to the
22 PSTN for completion. The PSTN network is not capable of passing the
23 expanded range of frequencies that Transcom claims that its Enhanced Service

³ Pre-filed Testimony of Robert Johnson on Behalf of Halo (“Johnson Testimony), at 15, lines 9-11.

⁴ Cisco suggests that the range might actually be broader than that, extending from 30 Hz up to 18,000 Hz. To transport a human voice that spans this range of frequencies, the “pipe” that Mr. Johnson describes would need to allow all frequencies from 30 Hz to 18,000 Hz to pass through it.

1 Platform creates. Once Transcom delivers a call to the PSTN for completion,
2 only the Voice Band frequencies would pass through the network and actually
3 reach the end user. The “enhanced” speech components that Transcom claims
4 to add back into the call would be eliminated because they fall in a frequency
5 range that tandem switches and end office switches are unable to pass.

6 Simply stated, the enhancements that Transcom claims to perform that
7 occur outside of the 300 Hz to 3300 Hz frequency range – to put “new and better
8 information into the same sized ‘pipe’ as the original information would have
9 needed” – would not be present when the call is delivered to the called party.
10 Transcom’s “Enhanced Service Platform” may do things that manipulate the
11 voice stream in the middle of a call that’s already in transit, but I see no indication
12 that Transcom does anything that provides any actual benefit to telephone users
13 beyond what occurs with conventional call conditioning.

14 **Q. DO THE CARRIERS ORIGINATING THE TRAFFIC THAT TRANSCOM**
15 **DELIVERS VIA HALO UNDERTAKE THE TYPE OF CALL CONDITIONING**
16 **THAT TRANSCOM DESCRIBES THAT IT UNDERTAKES?**

17 **A.** Carriers that use softswitch and VoIP technology in the origination, delivery or
18 termination of voice-type traffic have the ability to utilize powerful call conditioning
19 capabilities that are comparable to those that Transcom claims are
20 “enhancements.” Transcom has presented nothing, so far, in the record of this
21 proceeding or in earlier proceedings to demonstrate that the capabilities it claims
22 are anything more than call conditioning.

23
24
25

1 **Q. IS THERE ANYTHING ABOUT THE MARKETING OF THE EQUIPMENT**
2 **TRANSCOM USES THAT CORROBORATES YOUR VIEW THAT TRANSCOM**
3 **IS NOT PROVIDING ANY MEANINGFUL “ENHANCEMENT” TO THE**
4 **TRAFFIC IT PROCESSES?**

5
6 A. Yes. The manufacturer of the I-Gate 4000 Media Gateway that Transcom uses
7 touts its product as follows: “Delivers packet voice quality that equals established
8 PSTN standards.”⁵ If the equipment delivered voice quality superior to the
9 standard for the Public Switched Telephone Network, I’m confident it would say
10 so.

11 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

12 A. Yes, thank you.

1039864

⁵ See **Exhibit RD-5** hereto, which is a page from the manufacturer’s website.

Raymond W. Drause, P.E.

40 Keenan Creek Way ◊ Simpsonville, SC 29680 ◊ (864)-444-7839 ◊ rdrause@charter.net

PROFESSIONAL SUMMARY

Results-driven Engineering Manager with multi-faceted Telecommunications Engineering and Operations experience. Strong general management qualifications in planning, project management, budgeting and human resources. Extensive experience in Network Planning, Engineering, and Operations in both start-up and large-scale companies.

CAREER EXPERIENCE

McCall-Thomas Engineering Company, Inc.
Senior Wireless Engineer

May 2007 - present

Provide engineering support to various Independent Telephone Companies and Electric Co-ops.

- Develop Point-to-Point and Point-to-Multipoint wireless system designs using UHF and Microwave Radio Systems.
- Coordinate installation and testing of wireless systems.
- Coordinate with the Department of Defense Joint Spectrum Center to facilitate installations of Cellular Mobile Radio System equipment on military facilities.
- Develop fiber optic network designs using Passive Optical Networks (PONs).
- Provide training on National Electrical Safety Code, Providing IPTV over ADSL2+, Central Office Grounding (single point grounding), Network Interface/Optical Network Terminal bonding and grounding, Basic Electronics.
- Develop and present instructional technical programs to SC Telephone Assn., Georgia Telephone Assn., NC Tri-State Telephone Assn. and others.

Telecommunications Consulting Service
Owner

May 2006 – April 2007

Establish a telecommunications consulting service to provide engineering and operations support for a client group founding a new telecommunications company.

- Work jointly with client's IT manager to develop, deploy and operate the core network infrastructure needed to support VoIP and data services.
- Evaluate WiMAX systems. Design, deploy and operate point-to-multipoint wireless systems that link subscribers to client's network. Conduct RF spectrum analyses. Design and deploy custom antenna arrays required to serve targeted coverage areas and null designated areas. Develop "best practices" for equipment installations at customer sites. Conduct field trials to confirm system performance levels.
- Design and install point-to-point microwave systems. Conduct path surveys, negotiate tower leases. Acquire Metro-Ethernet circuits for back haul of traffic from main hub.
- Design backup AC and DC power systems for network and operational support systems.

Nuvox Communications, Greenville, SC **May 2004 (merger) – May 2006**
Vice President – Network Planning, Engineering & Optimization
November 2005 – May 2006

Senior executive responsible for leading 7 Director organizations in planning, engineering, budgeting and deploying the equipment, facilities and systems making up the Nuvox Network.

- Deploy Voice and Signaling Gateways, Feature Server, Session Border Controller, and Voice Mail platform required for VoIP implementation. Integrate VitalNet and Empirix Network Performance Management systems into VoIP engineering processes.
- Establish Traffic Engineering and Capacity Management processes providing enhanced visibility to VoIP and Core Data Networks performance.
- Support interoperability testing of VoIP elements.
- Develop Transmission Engineering Standards for SONET/ DWDM designs. Deploy DWDM rings utilizing Lucent DMX and Cisco ONS multiplexers.
- Develop interim growth architecture for legacy TDM network, reducing CAPEX requirements by over 27%. Introduce E911 data warehouse plan yielding ongoing annual OPEX savings of over \$1.5 million.
- Create and implement Capacity Management initiative to achieve “zero capacity-related held customer orders”.

Vice President – Network Optimization
February 2005 – October 2005

Senior executive responsible for development and implementation of initiatives designed to optimize the financial and operational performance of the Nuvox Network.

- Create new multi-state organization. Direct hiring and training of 100+ contractors and integrate them into a base of 52 employees to execute Network Optimization initiatives.
- Manage a diverse array of Operational Excellence initiatives in 15 state area.
- Implement extensive network changes arising from the FCC TRO rulings. Negotiate changes to ILEC Interconnect Agreements. Responsible for MSS circuit designs, switch and router translations, ILEC circuit ordering and physical grounds at collocation sites and customer locations. Produced recurring annual savings of over \$1.45 million.
- Integrate network and customer-specific data residing in two legacy MetaSolv TBS Systems and one internally developed OS into one common data repository (MSS).
- Implement conversion of customer facilities to HDSL2, producing ongoing annual savings of over \$1.2 million.

Vice President – Network Engineering
May 2004 – February 2005

Senior executive responsible for engineering, deployment, capacity management and budgeting of the equipment and systems making up the Nuvox Network.

- Integrate the Network Engineering organizations of Nuvox Communications and NewSouth Communications following their merger.
- Manage Network Integration projects designed to capture operational synergies and cost benefits resulting from the merger (Migration of circuits from 5ESS/DMS switches to Sonus switch, deployment of Adtran GR303 equipment to collocation sites).
- Manage initial deployment of Sonus and Cisco VoIP equipment to new markets.

NewSouth Communications, Greenville, SC November 1999 – April 2004 (merger)

Vice President – Network Engineering & Technical Services

July 2000 – April 2004

Senior executive responsible for engineering, deployment, capacity management and budgeting of the equipment and systems making up the NewSouth network.

- Lead 4 Director organizations in the construction and ongoing growth of 13 switch sites and 230 collocation sites located across the Company's 10 state area.
- Manage the engineering and installation of Cisco ATM switches, Lucent 5ESS and Siemens EWSD switches, Alcatel and Tadiran DCSs and all ancillary equipment.
- Establish CAPEX and OPEX budgeting processes for Engineering.
- Establish Capacity Management and Network Data Integrity processes.
- Manage engineering-related activities associated with UCI Communications and Nuvox Communications mergers.

Director – Network Engineering

November 1999 - June 2000

Responsible for the design and build-out of Lucent 5ESS switch sites and collocation sites, including all AC/DC power, data networking, transport equipment, and mechanical systems in the NewSouth Network.

Southwestern Bell Telephone Company, Little Rock, AR 1980 – 1999 (retired)

Area Mgr. - Maintenance & Transmission Engineering

1992 – June 1999 (retired)

- Lead a team of 15 Engineers and support personnel located in Arkansas, Kansas and Oklahoma. Provide advanced technical support for ATM, TDM and Electronic switches and associated transport, power and radio systems in over 360 central offices.
- Develop and implement Operational Test & Analysis Review processes for switch, transport and power equipment. Conduct COE Installation Supplier Quality assessment audits and Network Reliability audits. Conduct grounding and bonding audits.
- Create transmission designs for fiber optic cable routes, and SONET, microwave and VHF/UHF mobile radio systems. Responsible for Network Synchronization.
- Conduct Beta testing during SONET and ATM equipment trials.
- Served on SW Bell/Pacific Bell Merger Team - Developed "Seven State Process" which assessed "Best Practices" used by each company, leading to the adoption of uniform Maintenance & Transmission Engineering processes across the combined company.
- Pioneered use of Infrared Scanners for central office power inspections and use of unlicensed spread-spectrum 2.4 GHz radio for emergency restorations and facility relief.

*Area Mgr. - Real Estate & Architecture
1980 – 1991*

- Manage and coordinate five teams of architectural project managers, engineers and consultants in planning, designing and implementing central office, radio and administrative building projects. Manage annual CAPEX budget of \$7,900,000.
- Select and hire contractors and consultants. Establish performance standards. Develop and direct engineering records mechanization process.
- Manage and supervise the planning, negotiating, purchasing and leasing of land, buildings and floor space. Administer \$2,400,000 annual leasing budget. Personally negotiate/administer \$1,200,000 in annual leasing and brokerage transactions.
- Conduct economic studies. Develop lease documents and investor solicitation packages for build/lease projects. Represent company in zoning/land-use hearings. Acquire microwave and cellular tower sites.

Wisconsin Bell Telephone Company, 1969 – 1979

*Engineer – Central Office Equipment Planning
1978 - 1979*

Milwaukee, Wisconsin

- Conduct Network Planning economic studies involving central office projects.
- As member of Speakers Panel, present company programs to civic clubs and schools.

*Assistant Engineer – Central Office Equipment Engineering
1969 - 1977*

Madison, Wisconsin

- COE Engineering for switching, transport and power equipment.
- Developed first plan in company for reuse of MDF for dial-to-dial conversions.

Education:

Associate in Science - Electronics Engineering Technology
Herzing College - Madison, Wisconsin

Specialized Training:

Numerous technical, management, building and real estate courses from Greenville Technical College, Nortel, Lucent, Fujitsu, Alcatel, Cisco, Telcordia, Southwestern Bell Center for Learning and others. VoIP Analyst Certification – Spirit Telecom. MS Office proficient.

Professional Licenses:

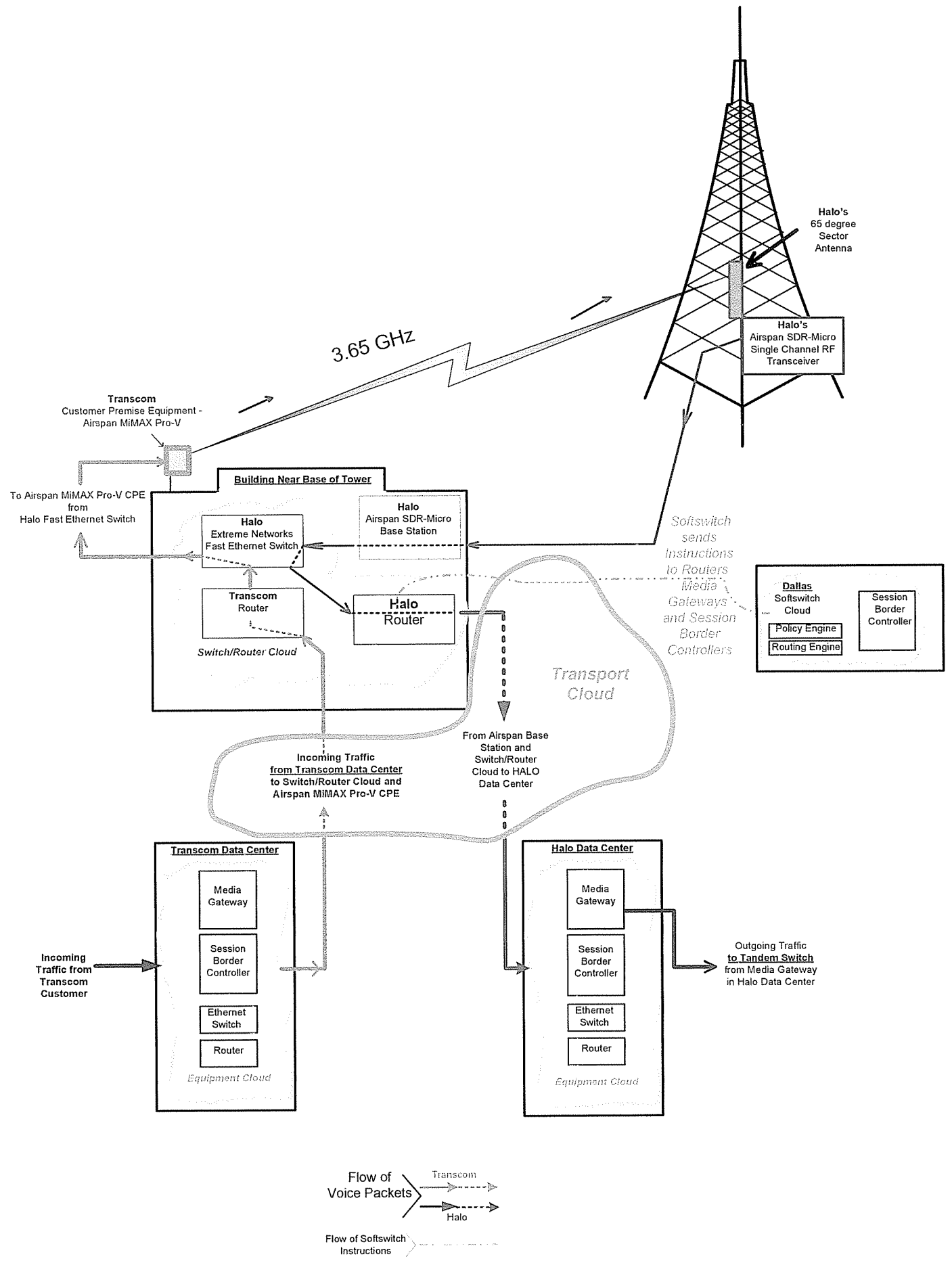
Registered Professional Engineer (Electrical) - Arkansas
FCC Radio License
Real Estate Broker's License (lapsed)

Affiliations:

National Society of Professional Engineers (lapsed)
Institute of Electrical and Electronics Engineers (lapsed)
American Radio Relay League



Typical HALO Tower Site



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BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO
The Ohio Bell Telephone)
Company d/b/a AT&T Ohio,)
Complainant)
v.) Case No. 12-1075-TP-CSS
Halo Wireless, Inc.)
Respondent)

ORAL DEPOSITION OF
ROBERT JOHNSON
MAY 22, 2012

ORAL DEPOSITION OF ROBERT JOHNSON, produced as a
witness at the instance of the Complainant, and duly
sworn, was taken in the above-styled and numbered cause
on the 22nd day of May, 2012, from 10:20 a.m. to
2:39 p.m., before Amy Davidson-Enberg, CSR in and for the
State of Texas, reported stenographically, at the offices
of McGuire, Craddock & Strother, P.C., 2501 North Harwood
Street, Suite 1800, Dallas, Texas 75201, pursuant to the
Federal Rules of Civil Procedure and the provisions
stated on the record or attached hereto.

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A P P E A R A N C E S

APPEARING FOR THE COMPLAINANT:

Mr. Dennis G. Friedman
MAYER BROWN, LLP
71 South Wacker Drive
Chicago, Illinois 60606
Telephone: (312)701-7319
Fax: (312)701-7711
e-mail: dfriedman@mayerbrown.com

APPEARING FOR THE RESPONDENT:

Mr. Steven H. Thomas
MCGUIRE, CRADDOCK & STROTHER, P.C.
2501 N. Harwood
Suite 1800
Dallas, Texas 75201
Telephone: (214)954-6800
Fax: (214)954-6868
e-mail: sthomas@mcslaw.com

Mr. W. Scott McCollough
MCCOLLOUGH HENRY, P.C.
1250 South Capital of Texas Highway
Building 2, Suite 235
West Lake Hills, Texas 78746
Telephone: (512)888-1112
Fax: (512)692-2522
e-mail: wsmc@dotlaw.biz

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I N D E X

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EXHIBITS INDEX

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Exhibit 3	IP Call Flow Diagram	99

	1	P R O C E E D I N G S
	2	(Exhibit 1 marked)
	3	MR. FRIEDMAN: All right. So before you
	4	administer the oath even, I will mention that I believe
10:20	5	we have an agreement that the transcript of this
	6	deposition may be used in any of the proceedings in which
	7	Halo and/or Transcom and various AT&T entities are
	8	parties, and then notwithstanding I guess the caption of
	9	this transcript will refer to the Ohio proceeding where I
10:21	10	think we gave you the notice of deposition.
	11	MR. THOMAS: Right.
	12	MR. FRIEDMAN: And in light of that, we
	13	have agreed that the deposition will proceed in
	14	accordance with the federal rules of civil procedure.
10:21	15	MR. THOMAS: Right. And, of course, we're
	16	not agreeing as to admissibility.
	17	MR. FRIEDMAN: Of course.
	18	MR. THOMAS: We're just agreeing that it's
	19	as if you had issued notices from each of the different
10:21	20	places where we have cases going in the state
	21	commissions.
	22	MR. FRIEDMAN: Right. Will you administer
	23	the oath, please.
	24	MR. THOMAS: And are you -- AT&T -- is
10:21	25	AT&T limiting this only to the cases where AT&T is -- I

10:21	1	mean where Halo is a party, or are you doing it with Halo
	2	and Trans -- I'm not sure if there are any cases where
	3	AT&T and Transcom --
	4	MR. FRIEDMAN: That may well be.
10:22	5	MR. THOMAS: Yeah. But your thinking was
	6	it's so that AT&T doesn't have to issue notices in each
	7	of those --
	8	MR. FRIEDMAN: Right.
	9	MR. THOMAS: -- jurisdictions?
10:22	10	MR. FRIEDMAN: Yeah.
	11	ROBERT JOHNSON,
	12	having been first duly sworn, testified as follows:
	13	EXAMINATION
	14	BY MR. FRIEDMAN:
10:22	15	Q. Please state your name and your work address
	16	for the record.
	17	A. Robert Johnson. My work address is 307 West
	18	7th Street, Suite 1600, that's in Fort Worth, Texas, and
	19	I believe the ZIP code is 76102.
10:22	20	Q. And I take it that you are the same Robert
	21	Johnson who has submitted pre-filed testimony supporting
	22	the position of Halo Wireless, Inc. in various
	23	proceedings to which Halo and various AT&T incumbent
	24	local exchange carriers are parties?
10:23	25	A. I am.

12:50	1	Q. (By Mr. Friedman) So we have marked as Johnson
	2	Exhibit 2 what appears to be the pre-filed testimony of
	3	Robert Johnson on behalf of Halo Wireless, Inc. dated
	4	May 15, 2012 in Docket No. 12-0182 in the Illinois
12:50	5	Commerce Commission.
	6	Do you recognize this as testimony that
	7	was filed in that case, Mr. Johnson?
	8	A. I do.
	9	Q. Okay. I said we were going to do some routine
12:50	10	and we just did it.
	11	MR. THOMAS: And I would just add that, I
	12	mean, you haven't had a chance to look through this -- we
	13	haven't had a chance to look through it, but as far as
	14	you can tell, it looks like what was done, right?
12:50	15	THE WITNESS: It does.
	16	MR. THOMAS: Okay.
	17	(Luncheon recess 12:50 to 1:43)
	18	Q. (By Mr. Friedman) Shortly before we broke I
	19	understood from you that the telecommunication that the
01:42	20	girl in California originates may arrive at the Transcom
	21	gateway where it's handed off by Transcom's customer
	22	still in the form of a telecommunication, correct?
	23	A. That's possible.
	24	Q. But if that does happen, it is your view that
01:43	25	Transcom then terminates that telecommunication, correct?

01:43	1	A. Yes.
	2	Q. And it terminates it at the media gateway. Is
	3	that the point of termination?
	4	A. Yes.
01:43	5	Q. Transcom then originates a further
	6	communication?
	7	A. Yes.
	8	Q. At that media gateway?
	9	A. The further communication is originated from a
01:43	10	piece of equipment that is part of the platform --
	11	enhancers platform. It may or may not be that particular
	12	gateway.
	13	Q. If it is not that particular gateway, what
	14	would it be? What could it be?
01:43	15	A. It would be a different gateway or the session
	16	border controller.
	17	Q. If it's not the media gateway where the call
	18	terminated, would it be another media gateway in the same
	19	cage?
01:44	20	A. It could be a media gateway in the same cage,
	21	yes.
	22	Q. Or it could be in an altogether different data
	23	center?
	24	A. It could be.
01:44	25	Q. But it would be a Transcom media gateway?

01:44

1

A. Yes.

2

Q. And if the call -- I'm sorry -- if the further

3

communication was originated by a session border

4

controller, I take it that it might or might not be a

01:44

5

session border controller in the same cage as the media

6

gateway where the telecommunication was terminated?

7

A. Correct.

8

Q. All of this depending on direction given by the

9

brains in Dallas?

01:44

10

A. Yes.

11

Q. So immediately before we broke I had put in

12

front of you what we marked as Johnson Exhibit 2, your

13

pre-filed testimony from the Illinois case, and I did

14

that actually just so that you could -- I could refer you

01:45

15

to the definition of telecommunications that you have in

16

the footnote on the bottom of page 9, which I will now

17

do.

18

A. Okay.

19

Q. And I'll read it and then ask some questions.

01:45

20

The term telecommunications means the transmission

21

between or among points specified by the user of

22

information of user's choosing without change in the form

23

or content of the information as sent and received.

24

We're still agreed that the girl in

01:45

25

California that we've been talking about, when she said

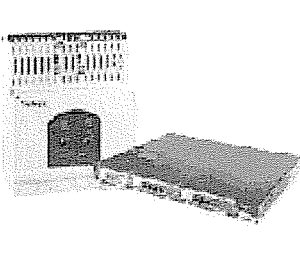
I Gate 4000 Media Gateway Characteristics

Manufacturer's Web Site:

<http://www.dialogic.com/en/products/gateways/i-gate-media-gateways/i-gate-4000-media-gateways.aspx>

[Home](#) [Products](#) [Media Gateways & Bandwidth Optimization](#) [I Gate 4000 Media Gateways](#)

Dialogic® I Gate® 4000 Media Gateways



[Overview](#) [Features & Benefits](#) [Specifications](#) [Documents](#) [Where To Buy](#)

Features

Proven bandwidth optimization technology for circuit-switched networks extended to VoIP networks

Field-proven voice processing technology and advanced codec implementations, coupled with a rich set of bandwidth optimization and voice quality protection techniques

Bandwidth-efficient and reliable transport of CCS for SS7, PRI, and QSIG and CAS, despite network impairments

Benefits

Delivers packet voice quality that equals established PSTN standards

Enables carriers to realize bandwidth savings of up to 16:1

Delivers bandwidth savings, full signaling robustness, and a high CCR along with enabling cost-effective network topologies based on the optimal location of signaling gateways at a small number of strategic sites



<http://www.dialogic.com/en/products/gateways/i-gate-media-gateways/i-gate-4000-media-gateways.aspx>

COMMONWEALTH OF KENTUCKY
KENTUCKY PUBLIC SERVICE COMMISSION

COUNTY OF COLE

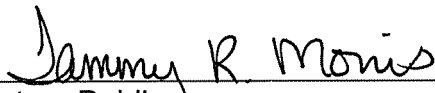
STATE OF MISSOURI

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared J. Scott McPhee, who being by me first duly sworn deposed and said that he is appearing as a witness on behalf of BellSouth Telecommunications, LLC d/b/a AT&T Kentucky before the Kentucky Public Service Commission in Docket Number 2011-00283, *In the Matter of: BellSouth Telecommunications, LLC, d/b/a AT&T Kentucky, Complainants v. Halo Wireless, Inc., Defendant*, and if present before the Commission and duly sworn, his statements would be set forth in the annexed rebuttal testimony consisting of 27 pages and 0 exhibits.

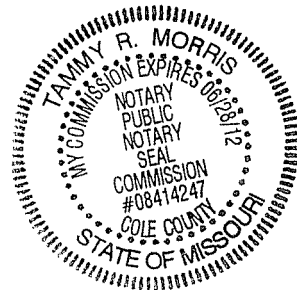


J. Scott McPhee

SWORN TO AND SUBSCRIBED BEFORE ME
THIS 27th DAY OF JUNE, 2012


Notary Public

My Commission Expires: 6/28/2012



COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of

**BELLSOUTH
TELECOMMUNICATIONS, LLC d/b/a
AT&T KENTUCKY,**

Complainant,

v.

HALO WIRELESS, INC.,

Defendant.

Case No. 2011-00283

**Rebuttal Testimony of J. Scott McPhee
On Behalf of AT&T Kentucky**

July 10, 2012

1 I. **INTRODUCTION**

2 Q. **PLEASE STATE YOUR NAME.**

3 A. My name is J. Scott McPhee.

4 Q. **ARE YOU THE SAME SCOTT MCPHEE WHO SUBMITTED DIRECT**
5 **TESTIMONY IN THIS CASE ON JUNE 15, 2012?**

6 A. Yes.

7 Q. **WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

8 A. I will respond to certain assertions made by Halo witnesses Russ Wiseman and
9 Robert Johnson that relate to matters I discussed in my direct testimony.

10 II. **HALO'S DELIVERY OF LANDLINE TRAFFIC IN BREACH OF ICA.**

11 Q. **YOU SHOWED IN YOUR DIRECT TESTIMONY THAT THE HALO-AT&T**
12 **KENTUCKY INTERCONNECTION AGREEMENT ("ICA") REQUIRES HALO**
13 **TO SEND ONLY WIRELESS-ORIGINATED TRAFFIC TO AT&T KENTUCKY.**
14 **DOES HALO DISAGREE WITH THAT?**

15 A. No.

16 Q. **DOES HALO IDENTIFY ANY ACTIONS IT HAS TAKEN TO MAKE SURE IT**
17 **DOES NOT SEND LANDLINE-ORIGINATED TRAFFIC TO AT&T KENTUCKY?**

18 A. No. To the contrary, Mr. Wiseman states that "Halo is not in a position to
19 determine where or on what network the call[s] started, and we have not asked
20 our customer [*i.e.* Transcom]."¹

¹ Pre-Filed Testimony of Russ Wiseman on Behalf of Halo Wireless, Inc. ("Wiseman Testimony"), at 32, lines 9-10.

1 **Q. DOES HALO DENY THAT IT HAS BEEN SENDING TRAFFIC TO AT&T**
2 **KENTUCKY THAT BEGINS ON LANDLINE EQUIPMENT?**

3 A. No. To the contrary, Mr. Wiseman admits that “[m]ost of the calls” Halo sends to
4 AT&T Kentucky probably started on other networks and that it “would not
5 surprise me if some of them started on the PSTN” (Public Switched Telephone
6 Network).² I read that as Mr. Wiseman’s understated way of admitting that Halo
7 is, in fact, sending AT&T Kentucky traffic that originates with landline equipment
8 connected to the PSTN.

9 **Q. GIVEN THESE ADMISSIONS, HOW CAN HALO CLAIM IT HAS NOT**
10 **BREACHED THE ICA?**

11 A. I don’t think it can. Halo argues, however, that even when calls begin as landline
12 calls, they somehow “originate” again as wireless calls when they pass through
13 Transcom before reaching Halo. More specifically, Halo contends that Transcom
14 is an “Enhanced Service Provider,” or “ESP,” that ESPs are treated as “end
15 users,” and that ESPs are deemed to originate (or re-originate) calls that pass
16 through them. That argument fails, however, for reasons that Mark Neinast and I
17 have discussed in our testimony, some of which I return to below, and that AT&T
18 Kentucky will set forth in full in its legal briefs.

² *Id.* at 32, lines 5-6.

1 **Q. MR. WISEMAN SUGGESTS THAT EVEN IF THE COMMISSION CONCLUDES**
2 **THAT HALO IS WRONG, THE COMMISSION SHOULD NOT CONDEMN OR**
3 **PENALIZE HALO FOR MAKING A BUSINESS PLAN THAT HALO BELIEVED**
4 **WAS LAWFUL AT THE TIME.³ HOW DO YOU RESPOND?**

5 A. AT&T Kentucky is not asking the Commission to condemn or penalize Halo, or to
6 decide with what state of mind Halo breached its ICA. AT&T Kentucky's only
7 claims in this case concerning the traffic that Halo has delivered to AT&T are that
8 Halo has, in fact, breached the ICA and that Halo is liable to AT&T Kentucky for
9 the access traffic Halo has delivered to AT&T Kentucky. AT&T Kentucky is
10 asking the Commission to authorize AT&T Kentucky to discontinue service to
11 Halo under the ICA and to find that Halo is liable for access charges on the
12 access traffic it has delivered. These are not penalties; they are the normal
13 consequences of a material breach of contract such as Halo's.

14 **Q. IN LIGHT OF HALO'S TESTIMONY, DO THE PARTIES STILL DISAGREE**
15 **ABOUT WHETHER TRANSCOM IS AN ESP?**

16 A. Yes. Given the fact that Halo is indisputably sending AT&T Kentucky traffic that
17 originated on landline equipment, Halo's defense is that (1) Transcom is an ESP,
18 and (2) because Transcom is an ESP it is therefore an "end user" and,
19 consequently, all traffic that passes through Transcom actually terminates on
20 Transcom's equipment, which then initiates a further communication – the
21 communication that Halo delivers to AT&T Kentucky. AT&T Kentucky continues
22 to maintain that Transcom is not an ESP, and that even if it is, that does not
23 mean it terminates and originates calls, as Halo contends.

³ *E.g., id.* at 40, lines 5-7, and at 48, lines 2-10.

1 **Q. HAVE YOU YOURSELF TESTIFIED THAT TRANSCOM IS NOT AN ESP?**

2 A. Only in a very limited way. To the extent that the question whether Transcom is
3 an ESP is a legal question, AT&T Kentucky will address it primarily in its legal
4 briefs, though Mr. Neinast touches on that subject. To the extent that the
5 question is factual, Mr. Neinast has discussed the pertinent facts. In my direct
6 testimony, I discussed the FCC's Order in *Connect America Fund*,⁴ which
7 rejected Halo's theory that calls that originate on landline equipment somehow
8 become wireless calls when they pass through Transcom on the way to Halo.

9 In addition, I pointed out that Transcom has billed itself as a provider of
10 voice termination services, which is very different than, and inconsistent with,
11 Halo's litigation position that Transcom is an ESP. Specifically, Transcom's
12 website proclaimed:

13 **Voice Termination Service**

14 *This is our core service offering.* Transcom provides termination
15 services throughout the world with a focus on North America.⁵

16 Obviously, the statement that voice termination service is Transcom's core
17 service offering is not consistent with Halo's litigation position that Transcom is
18 an enhanced service provider. In addition, that statement appeared on a
19 Transcom webpage entitled "Products and Services," which made no mention of
20 "enhancements" or audio quality. It is striking, to say the least, that Transcom
21 claims to be an ESP based on purported enhancements to audio quality, but that

⁴ *Connect America Fund*, FCC 11-161, 2011 WL 5844975 (rel. Nov. 18, 2011) ("*Connect America Order*").

⁵ Direct Testimony of J. Scott McPhee ("McPhee Direct"), Exhibit JSM-3 (Transcom web pages) (second emphasis added).

1 Transcom's own marketing description of its Products and Services did not
2 mention enhancements or audio quality.

3 This absence of any mention of enhancements in Transcom's marketing
4 description of its Products and Services is consistent with something we learned
5 in the parallel Halo proceedings before the Wisconsin Public Service
6 Commission: None of Transcom's marketing materials (not just its website) and
7 none of Transcom's contracts with its customers made any mention of the
8 supposed "enhancements" that Halo touts in this case. I do not believe
9 enhancements can be an important part of what Transcom is selling its
10 customers when Transcom's marketing materials do not mention the
11 enhancements and, more important, when Transcom's contracts with its
12 customers do not require Transcom to provide enhancements.

13 As I noted in my direct testimony, Halo changed its website after AT&T
14 pointed out in proceedings like this one that Transcom's depiction of itself on the
15 website was inconsistent with its position in these proceedings, but Halo cannot
16 undo the effect of its admissions by erasing them.

1 Q. IN YOUR DIRECT TESTIMONY, YOU STATED THAT “IN ITS *CONNECT*
2 *AMERICA ORDER*, THE FCC REJECTED HALO’S ARGUMENT ABOUT
3 WHERE CALLS ORIGINATE.”⁶ YOU THEN SAID, BASED ON YOUR
4 PARTICIPATION IN PARALLEL CASES WITH HALO IN OTHER STATES,
5 THAT IT APPEARS THAT HALO, AFTER SOME INITIAL RESISTANCE, NOW
6 ACKNOWLEDGES THAT THE FCC DID INDEED REJECT ITS POSITION.⁷
7 DOES HALO’S TESTIMONY IN THIS CASE CONFIRM THAT?

8 A. Yes. Mr. Wiseman states, “We acknowledge that the FCC . . . apparently now
9 believes ESPs . . . do not originate calls.”⁸ When he says this, Mr. Wiseman is
10 admitting that the FCC has rejected Halo’s theory, because the only basis for
11 Halo’s theory that Transcom originates the calls that Halo delivers to AT&T
12 Kentucky was Halo’s contention that Transcom is an ESP and an end user.

13 Q. MR. WISEMAN CONTENDS, HOWEVER, THAT THE FCC’S VIEW THAT
14 TRANSCOM DOES NOT ORIGINATE CALLS IS A DEPARTURE FROM
15 PRIOR PRECEDENT, DOESN’T HE?

16 A. Yes, he says that the FCC’s holding that Transcom does not originate calls is a
17 “revers[al] [of] course from prior precedent.”⁹

18 Q. DOES AT&T KENTUCKY AGREE?

19 A. No. Nothing in the FCC’s discussion of Halo and Transcom (which I quoted at
20 pages 16-17 of my direct testimony) suggests the FCC thought it was departing
21 from prior precedent. On the contrary, it is clear that the FCC was applying its
22 existing rules to Halo’s activity.

⁶ McPhee Direct at 16, lines 4-5.

⁷ *Id.* at 17, line 30 to page 18, line 18.

⁸ Wiseman Testimony at 50, lines 15-16.

⁹ *Id.*

1 The FCC’s discussion of Halo comes immediately after paragraph 1004,
2 which reads:

3 The record presents several issues regarding the scope and
4 interpretation of the intraMTA rule. Because the changes we
5 adopt in this Order ***maintain***, during the transition, distinctions in
6 the compensation available under the reciprocal compensation
7 regime and compensation owed under the access regime, ***parties***
8 ***must continue to rely on the intraMTA rule*** to define the scope
9 of LEC-CMRS traffic that falls under the reciprocal compensation
10 regime. We therefore take this opportunity ***to remove any***
11 ***ambiguity regarding the interpretation of the intraMTA rule.***
12 (Emphases added.)

13 The FCC was not creating some new rule that would apply only on a going-
14 forward basis. Instead, the FCC expressly stated that it was “removing any
15 ambiguity” regarding the ***existing*** intraMTA rule that “parties must ***continue*** to
16 rely on” during the transition period.

17 The FCC then discussed Halo in the next two paragraphs of its Order
18 (paragraphs 1005 and 1006). In that discussion, the FCC stated, “We ***clarify***
19 that a call is considered to be originated by a CMRS provider for purposes of the
20 intraMTA rule only if the calling party initiating the call has done so through a
21 CMRS provider.”¹⁰ I read a good many FCC orders, and it is my understanding
22 that when the FCC says it is “clarifying” a point, that means it is making clear a
23 point that was already true – not that it is departing from prior precedent. And it
24 was in that same ***clarifying*** paragraph that the FCC said, “the ‘re-origination’ of a
25 call over a wireless link in the middle of the call path does not convert a wireline-
26 originated call into a CMRS-originated call for purposes of reciprocal

¹⁰ *Connect America Order* at ¶ 1006 (emphasis added).

1 compensation, and we disagree with Halo's contrary position." Plainly, the FCC
2 did not think it was departing from prior precedent.

3 **Q. IS THERE ANOTHER REASON THAT AT&T KENTUCKY BELIEVES THE**
4 **FCC'S REJECTION OF HALO'S POSITION WAS NOT A DEPARTURE FROM**
5 **PRIOR PRECEDENT?**

6 A. Yes. The question whether Transcom is an ESP or a call originator is a legal
7 question that AT&T Kentucky will address in its briefs. To give the Commission a
8 general idea of AT&T Kentucky's position, however, I am informed by counsel
9 that the FCC has *never* held that an ESP "originates" calls that started elsewhere
10 and end elsewhere and merely pass through the ESP somewhere in the middle.
11 I am further informed by counsel that AT&T Kentucky will show in its briefs that:

- 12 • ESPs are treated as end-users only for the purpose of applying
13 access charges, and treated as end users only for purposes of the
14 FCC's access charge rules.
15
- 16 • An ESP cannot use this limited "end-user" status to claim it
17 "originates" calls that actually began when someone else picked up
18 a phone and dialed a number.
19
- 20 • The ESP exemption from access charges applies only to the ESP
21 itself, not to any telecommunications carrier that serves the ESP.
22 Thus, even if Transcom were an ESP, Halo could not claim the
23 benefit of the exemption.
24

1 Q. MR. WISEMAN STATES: “WHILE WE ACKNOWLEDGE THAT THEY [THE
2 FCC] HELD THAT THIS TRAFFIC DOES NOT ORIGINATE ON HALO’S
3 NETWORK ‘FOR PURPOSES OF THE INTRAMTA RULE,’ THAT DOES NOT
4 MEAN IT DOES NOT ‘ORIGINATE’ FROM TRANSCOM FOR OTHER
5 PURPOSES, INCLUDING THE PROVISION IN THE ICA IN ISSUE IN THIS
6 CASE.”¹¹ IS THAT A PERSUASIVE POINT?

7 A. No. That is one of those statements that at first blush may sound like it makes
8 some sense, but that does not hold up if you give it even a little thought. As I
9 noted above, and as AT&T Kentucky will further explain in its legal briefs, the
10 FCC’s exemption of ESPs from access charges is just that – a rule that says
11 ESPs, instead of paying interstate access charges, are treated as end users for
12 purposes of the FCC’s access charge regime, and thus do not pay access
13 charges. The *only* sense in which the rule treats ESPs as end users is by
14 exempting them from access charges; the rule does not deem ESPs originators
15 of all traffic that passes through them. Thus, when the FCC rejected Halo’s
16 contention that Transcom’s presence in the middle of the call meant that the call
17 originated with Transcom for purposes of the intraMTA rule (that is, for purposes
18 of intercarrier compensation), the FCC was rejecting *in its entirety*, and for all
19 purposes, Halo’s view of Transcom as a call originator.

¹¹ Wiseman Testimony at 34, lines 6-9. Mr. Johnson makes the same point in his testimony, at 6, lines 23-25, and at 29, lines 16-21 (Pre-Filed Testimony of Robert Johnson on Behalf of Halo Wireless, Inc. (“Johnson Testimony”). He introduces the point, however, by saying that AT&T Kentucky “claim[s], incorrectly, that the FCC has declared Transcom’s traffic to be ‘landline’ traffic and therefore not wirelessly-originated” *Id.* at 6, lines 23-25. That simply is not so. AT&T Kentucky merely pointed out, accurately, that the FCC disagreed with Halo’s position and stated that landline traffic did not convert to wireless traffic because it traveled over a wireless link in the middle.

1 Q. MR. WISEMAN ALSO SUGGESTS THAT THE FCC ACTUALLY DEEMED THE
2 TRAFFIC THAT HALO PASSES ON TO INCUMBENT LOCAL EXCHANGE
3 CARRIERS (“ILECS”) TO BE NON-ACCESS TRAFFIC.¹² DO YOU AGREE?

4 A. No. It is absolutely clear that in paragraphs 1005 and 1006 of the *Connect*
5 *America Fund Order*, which I quoted in my direct testimony, the FCC was saying
6 that the traffic that Halo was claiming was non-access traffic was in reality access
7 traffic. Indeed, that is the very point the FCC was making. Mr. Wiseman’s theory
8 is based on the premise that when the FCC used the term “transiting” in
9 paragraph 1006, it was using it in the same sense as when it later defined transit
10 service, in an entirely separate part of the Order discussing an entirely different
11 issue, as involving “non-access traffic.” Based on this, he suggests that Halo’s
12 traffic cannot be subject to access charges. Given how clear it is that the FCC
13 was saying in paragraphs 1005 and 1006 that the traffic at issue was access
14 traffic, Halo’s suggestion that the FCC meant exactly the opposite based on
15 something the FCC said in an entirely different part of the Order is nonsensical.
16 Moreover, the primary issue in this case is whether the traffic Halo has been
17 sending to AT&T Kentucky is landline-originated, and Halo’s argument about the
18 term “transiting” has nothing to do with that point.

19 Q. MR. WISEMAN SAYS HE EXPECTS THE COURT OF APPEALS FOR THE
20 TENTH CIRCUIT WILL REVERSE THE FCC’S *CONNECT AMERICA FUND*
21 *ORDER*.¹³ HOW DO YOU RESPOND?

22 A. Needless to say, this Commission should apply the law as it exists today and
23 decline Halo’s invitation to speculate about what may or may not happen in a

¹² Wiseman Testimony at 34, lines 10-17.

¹³ *Id.* at 34, line 15.

1 challenge to the FCC's decision. This is particularly appropriate given that in the
2 past, Halo has asserted with great conviction that the FCC would see things
3 Halo's way and that state commissions should not hear AT&T's complaints
4 against it. As the Commission is aware from AT&T Kentucky's previous
5 submissions in this docket, the FCC did not see things Halo's way, and federal
6 courts across the nation, including in Kentucky, have held that state commissions
7 should hear these complaints.

8 **Q. MR. WISEMAN TESTIFIES THAT THE ICA HAS A "CHANGE OF LAW**
9 **PROVISION," AND THAT HALO INTENDS TO INVOKE IT.¹⁴ BEFORE YOU**
10 **ADDRESS HALO'S INTENT TO INVOKE CHANGE OF LAW, PLEASE**
11 **EXPLAIN THE CHANGE OF LAW PROVISION TO WHICH MR. WISEMAN**
12 **REFERS.**

13 A. Most provisions in virtually any interconnection agreement reflect the law as it
14 existed at the time the ICA was entered – particularly including the requirements
15 in section 251 of the Telecommunications Act of 1996 (interconnection,
16 unbundled elements, resale, collocation, etc.), the FCC's rules implementing
17 those requirements, and FCC and state commission orders applying those
18 requirements. Not all ICA provisions reflect the law, because parties are free to
19 depart from the requirements of the 1996 Act when they negotiate an ICA, but
20 most provisions do, either because the parties agree on language that reflects
21 current law or because the parties fail to agree and arbitrate language, in which
22 event the state commission must impose language that reflects current law.

¹⁴ *Id.* at 68, lines 7-11.

1 The law changes, however – not the 1996 Act itself, but the FCC’s
2 implementing Rules and FCC and state commission interpretations of the law.
3 Recognizing that fact, interconnection agreements typically include “change of
4 law” provisions that allow for language in the ICA to be changed if the law on
5 which that language was based changes during the term of the ICA. The change
6 of law provision in the Halo/AT&T Kentucky ICA appears in XVII.E of the ICA,
7 which is Exhibit JSM-4 to my direct testimony.

8 **Q. HOW DO YOU RESPOND TO MR. WISEMAN’S STATEMENT THAT HALO**
9 **INTENDS TO INVOKE THE CHANGE OF LAW PROVISION IN LIGHT OF THE**
10 **CONNECT AMERICA FUND ORDER?**

11 A. If Halo does ask to amend the ICA pursuant to the change of law provision,
12 AT&T Kentucky will respond as appropriate. That said, the *Connect America*
13 *Fund Order* did not change the law that led the FCC to reject Halo’s argument
14 concerning the origination of traffic that passes through Transcom. The FCC did
15 not create a new rule in that regard, but instead clarified the same rule that has
16 been in effect since the parties entered into the ICA. Beyond that, the FCC’s
17 clarification makes clear that Halo’s position in this proceeding is, and always has
18 been, wrong.

19 I also note that If Halo wants to change the parties’ ICA, that can only
20 mean that Halo is not happy with what the ICA says now. Carriers do not invoke
21 change of law just because the law changes; they do so only when they do not
22 like the provisions in their existing ICA and they believe the change of law
23 benefits them. It is understandable that Halo does not like its ICA with AT&T

1 Kentucky, because Halo, while purporting to carry out its business plan, is
2 methodically breaching that ICA.

3 The important point for present purposes, though, is that this case must be
4 decided under the existing contract language – language that Halo admits is
5 unfavorable to Halo when it states it will seek to amend the ICA.

6 **Q. MR. WISEMAN ALSO SAYS “WE ARE PREPARED TO OPERATE UNDER**
7 **THE FCC’S NEW REGIME . . . BUT WE MUST BE GIVEN A CHANCE TO**
8 **BRING OUR ARRANGEMENTS AND OPERATIONS INTO COMPLIANCE,**
9 **AND THE FULL SET OF FCC RULES MUST BE IMPLEMENTED.”¹⁵ WHAT IS**
10 **YOUR REACTION TO THAT?**

11 A. As I have said, AT&T Kentucky does not think there is anything new about the
12 legal principles that mean that Halo has breached the ICA. And as I understand
13 it, it is for the bankruptcy court to decide if Halo can come up with a workable
14 business plan. In any event, for purposes of this case Halo’s plea seems to me
15 to be just the latest in a very long – and unsuccessful – line of stall tactics. Halo
16 has made many futile attempts to deter this Commission, and other state
17 commissions, from deciding AT&T’s claims,¹⁶ and Mr. Wiseman’s appeal for time
18 to bring its operations into compliance with the law sounds like yet another
19 variation on the same theme. This proceeding does not present the question
20 whether Halo can devise a viable business plan any more than it presents the
21 question whether Halo is entitled to a change in the terms of its ICA. AT&T

¹⁵ Wiseman Testimony at 30, lines 3-6.

¹⁶ These include Halo’s removals to federal court, motions to stay state commission proceedings, motions to dismiss, and motions to strike AT&T’s testimony – all of which have been denied in every state that has ruled on them.

1 Kentucky respectfully urges the Commission to decide the questions that are
2 presented in this proceeding as promptly as practicable.

3 **Q. HALO/TRANSCOM RELY ON RULINGS BY A BANKRUPTCY COURT**
4 **FINDING TRANSCOM AN ESP IN 2005-2007, AND MR. JOHNSON SAYS**
5 **THAT AT&T'S WITNESSES "ARGUE, ILLOGICALLY, THAT THIS**
6 **COMMISSION SHOULD IGNORE FEDERAL COURT RULINGS THAT**
7 **TRANSCOM IS AN ESP IN FAVOR OF THE TENNESSEE REGULATORY**
8 **AUTHORITY ('TRA') RULING THAT TRANSCOM IS NOT SIMPLY BECAUSE**
9 **THE TRA RULING IS NEWER, INSTEAD OF HOLDING THE FEDERAL**
10 **RULINGS IN THE SAME OR HIGHER DIGNITY."**¹⁷ **HOW DO YOU RESPOND?**

11 A. That is really a subject for the legal briefs, but I will note that AT&T Kentucky has
12 not suggested that the Commission should "ignore" the bankruptcy rulings (which
13 Halo calls the "ESP Rulings"). There are powerful reasons for giving more
14 weight to the TRA's decision than to the ESP Rulings, however, not the least of
15 which is that Halo made the same arguments about the ESP Rulings to the TRA
16 that it is making here, and the TRA was not persuaded. The point is *not*, as Mr.
17 Wiseman puts it, that the TRA decision is "newer"; it is that the TRA considered,
18 and rejected, the bankruptcy court findings. The TRA gave detailed and cogent
19 reasons for its determination that Transcom is not an ESP,¹⁸ and its decision was
20 in accord with the decision of the only other state commission that had previously
21 ruled on the question of whether Transcom is an ESP, the Pennsylvania Public
22 Utility Commission ("PPUC").¹⁹

¹⁷ Johnson Testimony at 6, line 26 to page 7, line 2.

¹⁸ See Direct Testimony of Mark Neinast on Behalf of AT&T Kentucky ("Neinast Direct") at 25, line 19 to page 27, line 5.

¹⁹ *Id.* at 27, lines 6-18.

1 The TRA's decision is also more pertinent here than the so-called ESP
2 Rulings because it was, at the time I submitted my direct testimony, the only
3 decision by any state commission on the precise issue presented here: whether
4 Halo is breaching its ICA with AT&T by delivering landline-originated traffic to
5 AT&T. Since then, the South Carolina Public Service Commission has also ruled
6 for AT&T in a parallel case against Halo.²⁰ None of the ESP Rulings held that
7 Transcom was an end user, or that calls terminate with or originate with
8 Transcom.

9 The ESP Rulings carry little precedential weight for other reasons as well.
10 The earliest ESP Ruling on which Halo relies was vacated on appeal, and
11 vacated rulings have no preclusive effect. *E.g., Kosinski v. C.I.R.*, 541 F.3d 671,
12 676-77 (6th Cir. 2008) (collecting cases). And the ESP Ruling that confirmed
13 Transcom's plan of reorganization did not resolve any dispute between parties
14 regarding whether Transcom was an ESP – much less whether all calls that pass
15 through Transcom must be deemed to be wireless-originated – because that
16 point was neither contested in that proceeding nor necessary to the order.
17 Perhaps most important, none of the ESP Rulings says that Transcom somehow
18 originates or re-originates, and changes to wireless, every call that passes
19 through it, for none of the decisions addresses that issue. Accordingly, the ESP
20 Rulings have little bearing on the matters that are at issue here. If any decision
21 is controlling in this case, it is the FCC's rejection in *Connect America Fund* of
22 precisely the position that Halo asserts here.

²⁰ See Neinast Rebuttal, Ex. MN-11.

1 Finally, the determinations by the Tennessee, Pennsylvania, and South
2 Carolina commissions that Transcom is not an ESP also carry more weight than
3 the bankruptcy court finding because state utility commissions are more
4 knowledgeable about these matters than bankruptcy courts are. To be sure,
5 some aspects of this case may be unusual for this Commission, and others, but
6 the basic subject matters – call origination, intercarrier compensation, and even
7 access charge avoidance schemes – are very familiar. For most bankruptcy
8 courts, however, even the most basic telecommunications concepts are Greek.

9 **Q. MR. WISEMAN EMPHASIZES THAT SOME OF THE TRAFFIC HALO**
10 **DELIVERS TO AT&T KENTUCKY IS VOIP TRAFFIC.²¹ TAKING THAT AS**
11 **TRUE FOR THE SAKE OF DISCUSSION, WHY IS IT SIGNIFICANT?**

12 **A.** It is not at all significant, at least for purposes of the issues in this docket. Mr.
13 Wiseman’s point is that VoIP traffic that is allegedly “originated” or “re-originated”
14 by Transcom and delivered after December 29, 2011, is not subject to access
15 charges. But the only thing that point could possibly bear on is the determination
16 of how much money Halo owes AT&T Kentucky in unpaid access charges, and
17 AT&T Kentucky has been very clear it is not asking the Commission to make that
18 determination in this case.

²¹ Wiseman Testimony at 40, line 13 to page 42, line 22.

1 **III. FAILURE TO PAY FOR INTERCONNECTION FACILITIES**

2 **Q. ON PAGES 68-76 OF HIS TESTIMONY, MR. WISEMAN DISCUSSES THE**
3 **FACILITIES CHARGES THAT AT&T KENTUCKY CLAIMS HALO OWES.**
4 **BASED ON YOUR REVIEW OF MR. WISEMAN'S TESTIMONY, WHAT IS**
5 **HALO'S POSITION?**

6 A. Halo maintains that each carrier is entirely responsible for all facilities on its side
7 of the Point of Interconnection ("POI") where the parties' networks meet for the
8 exchange of traffic. Mr. Wiseman repeatedly asserts that the POI is the point of
9 demarcation that separates the interconnection facilities for which Halo is
10 financially responsible from the interconnection facilities for which AT&T
11 Kentucky is financially responsible.

12 **Q. IS MR. WISEMAN CORRECT?**

13 A. As applied here, no. As I explained in my direct testimony, there are situations –
14 specifically relating to interconnection between two *landline carriers* – where the
15 POI does indeed serve as a financial demark, so that each carrier is solely
16 responsible for all of the facilities on its side of the POI.²² However, as I also
17 explained, that is not the case when the interconnection is with a wireless
18 carrier,²³ which Halo claims to be and, more important for present purposes,
19 claimed to be when it entered into its ICA with AT&T Kentucky. Halo's ICA is a
20 wireless ICA, and it provides that the cost of the entire facility is to be shared
21 between Halo and AT&T Kentucky based upon each carrier's proportional usage.

²² McPhee Direct at 23, lines 19-28.

²³ *Id.* at 24, line 25 to page 26, line 9.

1 **Q. IS “POINT OF INTERCONNECTION” A DEFINED TERM IN THE ICA?**

2 A. Yes. Section I.I provides:

3 **Point of Interconnection (POI)** is defined as the physical
4 geographic location(s), within BellSouth’s service area within a
5 LATA, at which the Parties interconnect their facilities for the
6 origination and/or termination of traffic. ***This point establishes the***
7 ***technical interface, the test point(s), and the point(s) for***
8 ***operational division of responsibility between BellSouth’s***
9 ***network and Carrier’s network.*** (Emphasis added.)

10 This definition clearly defines what a POI is for purposes of the ICA between
11 Halo and AT&T Kentucky pursuant to which AT&T Kentucky provided the
12 facilities at issue here.

13 **Q. DOES THE DEFINITION OF “POI” IN THE ICA INDICATE THAT THE POI IS**
14 **THE POINT OF DEMARCATION FOR FINANCIAL RESPONSIBILITY FOR**
15 **INTERCONNECTION FACILITIES, AS MR. WISEMAN CONTENDS IT IS?**

16 A. No, it does not. The definition clearly states that the point of interconnection
17 establishes only “the technical interface, the test point(s), and the point(s) for
18 operational division of responsibility between” the Parties.²⁴ It does not indicate
19 in any way that the point of interconnection also serves to allocate financial
20 responsibility for interconnection facilities, as Halo contends it does. If that were
21 the intent, the definition would say so – and it certainly would not expressly
22 define the other functions of the POI while omitting the financial demarcation
23 function.²⁵

²⁴ Operational responsibilities include the provisioning of the facilities, as well as any maintenance in order to ensure continued operation.

²⁵ Counsel for AT&T Kentucky me there is a Latin phrase for this concept: “Expressio unius est exclusio alterius,” *i.e.*, to express the inclusion of one thing is to imply the exclusion of others.

1 **Q. SO WHERE DOES THE ICA ASSIGN “FINANCIAL RESPONSIBILITY” FOR**
2 **THE INTERCONNECTION FACILITIES BETWEEN HALO AND AT&T**
3 **KENTUCKY?**

4 A. First, facilities costs aren't "assigned" to a specific party as Halo believes (by
5 using the POI as an assignment demarcation, for example); instead, per the
6 terms of the ICA, *the costs of the entire facility between Halo and AT&T Kentucky*
7 are shared based upon each carrier's proportional use. Under ICA Section VI,
8 "Compensation and Billing," "Compensation of Facilities" is addressed in
9 subsection B. Section VI.B.2 specifically addresses two-way interconnection
10 facilities, which are currently in place between Halo and AT&T Kentucky:

11 2. The Parties agree to share proportionately in the recurring costs of two-
12 way interconnection facilities.

13 a. To determine the amount of compensation due to Carrier for
14 interconnection facilities with two-way trunking for the transport of Local
15 Traffic originating on BellSouth's network and termination on Carrier's
16 network, Carrier will utilize the prior months undisputed Local Traffic
17 usage billed by BellSouth and Carrier to develop the percent of BellSouth
18 originated Local Traffic.

19 b. BellSouth will be Carrier for the entire cost of the facility. Carrier
20 will then apply the BellSouth originated percent against the Local Traffic
21 portion of the two-way interconnection facility charges billed by BellSouth
22 to Carrier. Carrier will invoice BellSouth on a monthly basis, this
23 proportionate cost for the facilities utilized by BellSouth.

24

25 As I explained in my direct testimony, under this ICA, the costs for
26 wireless facilities are apportioned based upon the percentage of total traffic for
27 which each carrier is responsible. AT&T Kentucky is responsible for the portion
28 of traffic that originates with AT&T Kentucky end users and is destined for Halo.
29 Halo, on the other hand, is responsible for the portion of traffic Halo sends to
30 AT&T Kentucky for termination to AT&T Kentucky end users. Halo is also

1 responsible for any intermediary (transit) traffic exchanged between itself and
2 third party carriers that is transported via these facilities.

3 **Q. IF AT&T KENTUCKY END USERS WERE MAKING CALLS TO HALO END**
4 **USERS OVER THE PARTIES' INTERCONNECTION, WOULD HALO BE**
5 **ENTITLED TO COMPENSATION FROM AT&T KENTUCKY FOR A PORTION**
6 **OF THE INTERCONNECTION FACILITIES HALO HAS PROVISIONED?**

7 A. Yes. For example, imagine that Halo were responsible for 80% of the traffic and
8 AT&T Kentucky were responsible for 20% of the traffic, based upon relative
9 volumes of traffic exchanged between the parties. Halo would then be entitled to
10 compensation from AT&T Kentucky for 20% of the cost of interconnection
11 facilities that Halo provisioned, and AT&T Kentucky would be entitled to
12 compensation from Halo for 80% of the cost of the interconnection facilities that
13 AT&T Kentucky provisioned. In this way, the entire interconnection facility is
14 shared proportionally between the Parties, based upon their respective
15 percentages of traffic.

16 **Q. BASED ON THE TRAFFIC HALO AND AT&T KENTUCKY ARE ACTUALLY**
17 **EXCHANGING, FOR WHAT PERCENTAGE OF THE TOTAL**
18 **INTERCONNECTION FACILITY IS HALO RESPONSIBLE?**

19 A. Halo is responsible for 100% (or very close to 100%) of the traffic. That is simply
20 because AT&T Kentucky originates no (or very little) traffic destined to Halo.²⁶
21 Therefore, the shared cost of the facility is assigned 100% to Halo; AT&T
22 Kentucky owes Halo no compensation for the facilities Halo has provisioned; and

²⁶ I say 100% or nearly 100% based upon recorded data for Halo's traffic. For example, the January 2012 usage data shows AT&T sent just 435 MOUs to Halo across the entire nine-state AT&T Southeast Region.

1 Halo owes AT&T Kentucky 100% of the cost of the facilities AT&T Kentucky has
2 provisioned.

3 **Q. DOES IT SURPRISE YOU THAT AT&T ORIGINATES VIRTUALLY NO**
4 **TRAFFIC DESTINED TO HALO?**

5 A. No, because as I noted in my direct testimony, Halo has no end user customers
6 in Kentucky.²⁷ In other words, there simply are no Halo customers in Kentucky
7 for anyone to call, so it is not surprising that AT&T Kentucky originates next-to-no
8 traffic destined to Halo.

9 **Q. MR. WISEMAN CONTENDS THAT SOME OF THE CHARGES AT ISSUE ARE**
10 **NOT “FACILITIES” CHARGES BUT INSTEAD RELATE TO “TRUNKS” AND**
11 **“TRUNK GROUPS.”²⁸ DOES THE ICA ADDRESS HOW ALL OF THESE**
12 **DISPUTED CHARGES – WHETHER “FACILITIES,” “TRUNKS” OR “TRUNK**
13 **GROUPS” – ARE TO BE COMPENSATED?**

14 A. Yes. For ease of reference, AT&T Kentucky categorized all of the disputed
15 charges associated with interconnection facilities and trunking as a “facilities
16 dispute.” Perhaps a better term would be “interconnection dispute.” Regardless,
17 the ICA does indeed address compensation for trunk groups, and, like the
18 facilities I just discussed, the ICA provides in Section V.B that costs for trunk
19 groups will be apportioned according to the Parties’ relative use, just like
20 interconnection facilities:

21 If the Parties mutually agree upon a two-way trunking arrangement, the
22 following will apply:

23

²⁷ McPhee Direct at 7, lines 12-15 (noting Halo statement that it has no “consumer customers” in Kentucky).

²⁸ Wiseman Testimony at 72, lines 1-5.

1 BellSouth and Carrier will share the cost of the two-way trunk group
2 carrying both Parties traffic proportionally when purchased via this
3 Agreement or the General Subscriber Services Tariff, Section A35, or, in
4 the case of North Carolina, in the North Carolina Connection and Traffic
5 Interchange Agreement effective June 30, 1994, as amended from time to
6 time. BellSouth will bear the cost of the two-way trunk group for the
7 proportion of the facility utilized for the delivery of BellSouth originated
8 Local traffic to Carrier's POI within BellSouth's service territory and with
9 the LATA (calculated based on the number of minutes of traffic identified
10 as BellSouth's divided by the total minutes of use on the facility), and
11 Carrier will provide or bear the cost of the two-way trunk group for all other
12 traffic, including Intermediary traffic.

13
14 As Halo is responsible for 100% (or nearly 100%) of the traffic exchanged
15 between the Parties, Halo is responsible for 100% of the costs associated with
16 the cost of the two way trunk group.

17 **Q. IS THE PROPORTIONAL SHARING OF TRUNKING COSTS APPLICABLE**
18 **ONLY "WHEN HALO USES AT&T KENTUCKY-SUPPLIED FACILITIES TO**
19 **SUPPORT TRUNKING AS ONE OF THE ALTERNATIVES IN [SECTION] IV TO**
20 **GET TO THE POI," AS MR. WISEMAN CONTENDS?²⁹**

21 A. No. As Section V.B.³⁰ plainly states, the apportioning of trunking costs applies "if
22 the Parties mutually agree upon a two-way trunking arrangement." There is no
23 basis for the notion that Section V.B. (Two Way Trunk Arrangement) is any sort
24 of "alternative" to Section IV (Methods of Interconnection). In order for traffic to
25 be exchanged between carriers, the carriers must have a means – or method –
26 to interconnect their parties' networks, and they must also have trunking in order
27 to route and exchange traffic. "Methods of interconnection" and "trunking

²⁹ *Id.* at 74, lines 14-15.

³⁰ Mr. Wiseman mistakenly refers to ICA Section V.C. when he meant V.B.

1 arrangements” are both prerequisites to interconnection; they are not mutually
2 exclusive as Mr. Wiseman suggests.

3 **Q. HOW DO YOU RESPOND TO MR. WISEMAN’S CONTENTION THAT**
4 **FACILITIES COSTS ARE COVERED BY RECIPROCAL COMPENSATION**
5 **CHARGES?**³¹

6 A. I have a great deal of experience with reciprocal compensation issues,³² and I
7 cannot recall any party to an ICA ever having expressed the view that reciprocal
8 compensation charges cover the costs of physical facilities. It is fundamental
9 that reciprocal compensation charges are *per minute usage* charges for the
10 incremental costs incurred to transport and terminate traffic, whereas facilities
11 charges are *non-usage-sensitive recurring charges for the cost of the facilities*
12 *themselves.*³³

13 **Q. DOES HALO ADMIT TO ORDERING THE FACILITIES AND TRUNK GROUP**
14 **ELEMENTS FOR WHICH AT&T KENTUCKY SEEKS PAYMENT?**

15 A. Yes. Mr. Wiseman concedes that Halo followed “AT&T’s Type 2A
16 interconnection implementation process [that] requires the CMRS provider to
17 submit the order, even when part of what is being ‘ordered’ pertains to facilities,
18 trunks and other things on AT&T’s side of the POI.”³⁴ There is also no dispute
19 that AT&T Kentucky provided the facilities and trunk groups that Halo ordered.

³¹ Wiseman Testimony at 73, line 14 to page 74, line 9.

³² From 2000 to 2003, I was Product Manager for Reciprocal Compensation at SBC.

³³ To avoid possible confusion, note that because of the facilities cost-sharing arrangement established by the ICA, each Party’s proportional share of the facilities cost is determined by how that party’s usage of the facilities compares with the other party’s usage. However, the facilities costs are still “non-usage sensitive” in that the amounts do not depend on the minutes of usage. In other words, if Halo had ten minutes of usage and AT&T Kentucky had none, Halo’s financial responsibility for the facilities costs would be the same as if Halo had a million minutes of usage and AT&T Kentucky had none.

³⁴ Wiseman Testimony at 75, lines 5-7.

1 Because the ICA clearly states that the costs of these interconnection facilities
2 will be shared based upon each carriers' proportional use, and because Halo is
3 responsible for 100% (or nearly 100%) of the traffic that has been exchanged
4 between the Parties, Halo is 100% responsible for the costs of the facilities and
5 trunk groups. Halo's failure to pay what it owes for these facilities and trunk
6 groups is yet one more breach of the parties' ICA.

7 **IV. TERMINATION OF SERVICE TO HALO**

8 **Q. MR. WISEMAN TESTIFIES THAT AT&T KENTUCKY IS MISTAKEN IN ITS**
9 **CONTENTION THAT HALO PROVIDES NO VALUE TO COMMUNICATIONS**
10 **CUSTOMERS, AND THAT HALO IN FACT DOES PROVIDE VALUE AND SO**
11 **SHOULD NOT BE REMOVED FROM THE MARKETPLACE.³⁵ HOW DO YOU**
12 **RESPOND?**

13 A. I have three responses. *First*, if Halo is materially breaching its contract with
14 AT&T Kentucky, which it is, then the law, as I understand it, entitles AT&T
15 Kentucky to discontinue performance of the contract, whether or not Halo is
16 providing value to anybody; this is not a policy judgment for the Commission to
17 make based on its assessment of the value Halo provides or does not provide.
18 *Second*, the point that Mr. Neinast made in his direct testimony concerning AT&T
19 Kentucky's termination of service to Halo was not that it would be harmless
20 because Halo provides no value; rather, it was that it would not cause any
21 consumers to lose dial tone and would not cause any calls not to complete.³⁶
22 *Third*, it does not seem to me that Halo provides any meaningful value to
23 consumers in Kentucky. I mention that with some reluctance, because it is not

³⁵ *Id.* at 21, line 1 to page 22, line 14.

³⁶ See Neinast Direct at 33, line 10 to page 36, line 14.

1 particularly germane to the determinations the Commission must make, but I did
2 not want to let Mr. Wiseman's claim go unchallenged.

3 **Q. WHAT VALUE DOES MR. WISEMAN SAY HALO PROVIDES?**

4 A. Actually, and intriguingly, he does not say that *Halo* provides any value. He has
5 a question that reads "Does Halo provide any value or benefit to the consumers
6 in Kentucky?" But in his answer to that question, he contends that *Transcom*
7 provides value; he does not say a word about any benefit provided by Halo, the
8 company of which he is President.³⁷ Even if it were true that *Transcom* provides
9 some value (which I do not believe it does), that does not mean that *Halo*
10 provides any value.

11 **Q. WHAT VALUE DOES MR. WISEMAN SAY TRANSCOM PROVIDES?**

12 A. Mr. Wiseman says: "[M]ajor providers of communications services voluntarily
13 choose to purchase Transcom's services, and incorporate them into the delivery
14 of service to their consumer customers." **Therefore**, Transcom provides a
15 valuable service, "not only to the service providers" who are Transcom's
16 customers, "but, **by extension**, to the service providers' end consumers. Thus, if
17 Transcom, and Halo as one of Transcom's service vendors, are removed from
18 the marketplace, this means that the preferred provider of service to these
19 service providers is taken away, forcing these providers to employ their 'second
20 best' choice, assuming they have such a choice."³⁸

³⁷ Wiseman Testimony at 21, line 17 to page 22, line 14.

³⁸ *Id.* at 21, line 17 to page 23, line 5 (emphasis added).

1 That makes no sense to me, for two primary reasons. First, Halo claims
2 that it is just one of a number of Transcom vendors – vendors that Halo
3 repeatedly describes as multiple and essentially interchangeable.³⁹ If *Transcom*
4 provides value, as Mr. Wiseman claims it does, there is no reason to believe that
5 *Transcom* will disappear merely because AT&T Kentucky discontinues service to
6 *Halo*; *Transcom* can simply move its traffic to its other vendors. Unless, of
7 course, Halo is, contrary to Halo’s own representations, indispensable to
8 *Transcom* because the two companies inextricably engage together in an access
9 charge avoidance scheme that depends on Halo’s unique status among
10 *Transcom*’s supposedly multiple vendors.

11 Second, Mr. Wiseman’s logic is that the service providers that are
12 *Transcom*’s customers must see value in *Transcom* because they choose to be
13 *Transcom*’s customers, and if there is value for the service providers, it
14 necessarily follows that there is value (“by extension”) for their consumer
15 customers. I am not an economist (and neither is Mr. Wiseman), but that seems
16 like an awfully big stretch. If *Transcom* is providing any value to its customers, it
17 is the avoidance of access charges. And for every dollar of “benefit” that
18 someone is getting by not paying the applicable access charge, AT&T Kentucky
19 or some other carrier loses a dollar. If we assume, along with Mr. Wiseman, that
20 the savings on his side of the ledger somehow wind up benefiting the consumers
21 on that side of the ledger, doesn’t the corresponding loss on the AT&T Kentucky
22 (or another carrier’s) side of the ledger have a correspondingly negative effect

³⁹ See, e.g., Johnson Testimony at 13, lines 9-22.

1 on AT&T Kentucky's (or another carrier's) consumer customers? As I
2 understand it, the existing intercarrier compensation regime at least attempts to
3 be economically rational, to the ultimate benefit of the consuming public. If that is
4 so, then conduct such as Halo's that distorts or games the system is, one would
5 presume, not beneficial for the consuming public.

6 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

7 A. Yes.

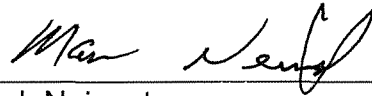
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COMMONWEALTH OF KENTUCKY
KENTUCKY PUBLIC SERVICE COMMISSION

COUNTY OF COLE

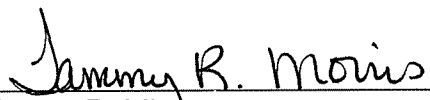
STATE OF MISSOURI

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Mark Neinast, who being by me first duly sworn deposed and said that he is appearing as a witness on behalf of BellSouth Telecommunications, LLC d/b/a AT&T Kentucky before the Kentucky Public Service Commission in Docket Number 2011-00283, *In the Matter of: BellSouth Telecommunications, LLC, d/b/a AT&T Kentucky, Complainants v. Halo Wireless, Inc., Defendant*, and if present before the Commission and duly sworn, his statements would be set forth in the annexed rebuttal testimony consisting of 28 pages and 3 exhibits.

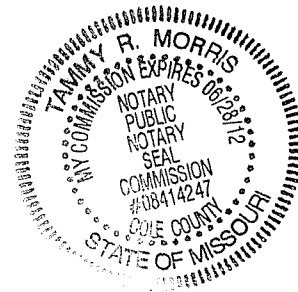


Mark Neinast

SWORN TO AND SUBSCRIBED BEFORE ME
THIS 27th DAY OF JUNE, 2012


Notary Public

My Commission Expires: 6/28/2012



COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of)	
)	
BELLSOUTH)	
TELECOMMUNICATIONS, LLC d/b/a)	
AT&T KENTUCKY,)	
)	Case No. 2011-00283
Complainant,)	
)	
v.)	
)	
HALO WIRELESS, INC.,)	
)	
Defendant.)	

REBUTTAL TESTIMONY OF MARK NEINAST
ON BEHALF OF AT&T KENTUCKY

July 10, 2012

1 I. INTRODUCTION

2 Q. PLEASE STATE YOUR NAME.

3 A. My name is Mark Neinast.

4 Q. ARE YOU THE SAME MARK NEINAST WHO SUBMITTED DIRECT
5 TESTIMONY IN THIS MATTER ON JUNE 6, 2012?

6 A. Yes.

7 Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

8 A. I will respond to some assertions in the pre-filed direct testimony of Halo
9 witnesses Russ Wiseman and Robert Johnson that relate to the issues I
10 discussed in my direct testimony. I will be selective, however, because I believe
11 that much of what Halo's witnesses say warrants no response.

12 Q. WHY DO YOU SAY THAT MUCH OF WHAT HALO'S WITNESSES SAY
13 WARRANTS NO RESPONSE?

14 A. The AT&T Kentucky claims I discussed in my direct testimony are
15 straightforward: Halo is breaching the parties' ICA by sending AT&T Kentucky
16 landline-originated traffic, which the ICA does not permit, and by providing
17 inaccurate call detail (at least until December 29, 2011). To decide those claims,
18 the Commission must answer only a few questions.

19 The first question is whether Halo is sending AT&T Kentucky calls that are
20 made by calling parties using landline equipment, and the answer to that
21 question is "yes." Given that, the only defense Halo has asserted is that all of
22 those landline-originated calls are converted into wireless-originated calls when
23 they pass through Transcom, because Transcom, according to Halo, is an
24 Enhanced Service Provider ("ESP") and therefore an "end user" that terminates

1 every call that comes its way and then originates a further communication to
2 AT&T Kentucky.

3 In considering Halo's defense, the Commission must answer two
4 additional questions: (i) whether Transcom is an ESP, as Halo contends, and (ii)
5 if Transcom is an ESP, does that mean it originates every call that passes
6 through its equipment, as Halo also contends? If the answer to either of those
7 questions is "no" (and AT&T Kentucky maintains that the answer to *both*
8 questions is "no") the Commission must conclude that Halo has breached its
9 contract with AT&T Kentucky.

10 Mr. Wiseman and Mr. Johnson discuss many things that it seems to me
11 have no bearing on any of those questions. I suspect this may be because Halo
12 has decided to throw as many things at the wall as it can think of to see if
13 anything sticks. In any event, I will devote little space to assertions of Halo's
14 witnesses that are not pertinent to the issues the Commission must decide.

15 **Q. WHAT ARE THE ANSWERS TO THE THREE QUESTIONS YOU IDENTIFIED**
16 **ABOVE?**

17 A. There is no disagreement about the answer to the first question: Our call studies
18 conclusively demonstrate that Halo is sending AT&T Kentucky substantial
19 volumes of landline-originated traffic. I indicated in my direct testimony that Halo
20 would quibble about our numbers, and Halo does so in Mr. Wiseman's testimony.
21 I respond briefly to those quibbles. At the end of the day, however, they make no
22 difference, because Halo does not deny it is delivering significant amounts of
23 traffic that originates on landline equipment, and for purposes of this case, it does
24 not matter exactly what percentage of Halo's traffic is landline-originated.

1 The question then becomes whether Transcom is an ESP and, if it is,
2 whether that means that every call that passes through Transcom on its way to
3 AT&T Kentucky is re-originated by Transcom. As I stated in my direct testimony,
4 those are ultimately legal questions. Halo has chosen to set forth its legal
5 arguments in its testimony. As a result, much of Mr. Wiseman’s testimony is
6 really a legal brief that Mr. Wiseman recites “on the advice of counsel.”¹ AT&T
7 Kentucky will not adopt this approach, but instead will present its legal arguments
8 in its legal briefs. To give the Commission some sense of AT&T Kentucky’s
9 position on the legal issues, however, I will make a few general points “on the
10 advice of counsel.”

11 **Q. ARE THERE OTHER REASONS THAT YOUR REBUTTAL TESTIMONY IS**
12 **LIMITED?**

13 A. Yes. My direct testimony anticipated many of the points that Halo’s witnesses
14 make in their testimony. In some instances, I will respond to Halo’s testimony by
15 referring the Commission to my direct testimony.

16 **Q. HOW IS YOUR REBUTTAL TESTIMONY ORGANIZED?**

17 A. This introductory discussion is followed by five more sections. Section II
18 responds to two overarching assertions made by Mr. Wiseman. Section III
19 further demonstrates that much of the traffic Halo is delivering to AT&T Kentucky
20 originates on landline equipment. Sections IV and V address Halo’s defense that

¹ There are at least 36 instances in which Mr. Wiseman explicitly states that he is expressing a view of the law on the advice of counsel. Pre-Filed Direct Testimony of Russ Wiseman on Behalf of Halo Wireless, Inc. (“Wiseman Testimony”) at 25: lines 3, 10, 16; 32: lines 11, 15, n6; 33: lines 3, 10, 12, n7; 36: line 13; 37: line 8; 39: line 22; 40: line 2; 44: lines 8, 11; 45: line 16; 46: line 16; 47: lines 1, 2, 4, 9, 12, 14, n22; 48: lines 17, 20, 21; 49: line 11, n23; 50: lines 4, n24; 58: line 22; 60: line n26; 61: line n27; 75: line n39.

1 Transcom is an ESP that re-originates all the calls that pass through it on the
2 way to AT&T Kentucky. Finally, Section VI addresses Halo's improper alteration
3 of call detail.

4 II. OVERARCHING POINTS

5 **Q. MR. WISEMAN STATES THAT AT&T KENTUCKY'S ASSERTIONS ARE**
6 **"FOUNDED ON TRADITIONAL INTERPRETATIONS AND APPLICATIONS OF**
7 **THE TERMS 'WIRELESS' AND 'ORIGINATED.'"² HOW DO YOU RESPOND?**

8 A. The terms "wireless" and "originated" mean exactly the same thing today as they
9 have "traditionally" meant, and Mr. Wiseman does not say anything that suggests
10 otherwise. To be sure, technology has changed, and the changes include new
11 applications of wireless and landline equipment. But those new applications do
12 not change the meaning or use of the terms "wireless" and "originated." Mr.
13 Wiseman's observation that AT&T Kentucky's assertions are founded on
14 traditional views of those two terms, therefore, is an acknowledgment that AT&T
15 Kentucky's position in this case is soundly based on well-settled principles.

16 **Q. MR. WISEMAN ALSO ASSERTS THAT AT&T KENTUCKY IS "ASKING THE**
17 **COMMISSION TO ASSUME AWAY HOW THE INDUSTRY ACTUALLY**
18 **OPERATES TODAY, HOW CURRENT TECHNOLOGY CAN BE USED AND IS**
19 **USED, AND MOST IMPORTANT, THE WAY THAT USERS ARE ACTUALLY**
20 **EMPLOYING THIS TECHNOLOGY TO COMMUNICATE."³ IS THAT**
21 **CORRECT?**

22 A. No. AT&T Kentucky is asking the Commission to apply the principles that have
23 been in effect since Halo started delivering traffic to AT&T Kentucky, and that are
24 still in effect today, to traffic that is subject to those current rules. Halo's real

² Wiseman Testimony at 26, lines 17-23.

³ *Id.* at 31, lines 20-22.

1 grievance seems to be that the rules have not kept up with technology, at least in
2 Halo's opinion. For example, Mr. Wiseman has stated in parallel proceedings in
3 other states, "[w]e also do not believe that the industry can continue to rely on the
4 'calling party number' as some indicator of where and on what network a call
5 started."⁴ Perhaps the industry some day will adopt a new means of determining
6 where a call originates, as Mr. Wiseman evidently believes it should. But as Mr.
7 Wiseman's statement acknowledges, the industry today relies on calling party
8 number ("CPN") as the most reliable indicator of where and on what network a
9 call originated.⁵ As a result, Mr. Wiseman's contention that AT&T Kentucky's call
10 studies are faulty because they relied on CPN is simply wrong.

11 Furthermore, Mr. Wiseman's ruminations on new technology and Halo's
12 lofty aspirations about promoting the "growth of low cost, high value IP
13 communication services for all Americans"⁶ relate only to a red herring – namely,
14 Halo's contention that some of what appears to be landline-originated traffic that
15 Halo delivers to AT&T Kentucky may actually originate on wireless devices using
16 IP-based services like GoogleVoice and Skype. As I discussed in my direct
17 testimony, that contention goes nowhere, because it is inconsistent with current
18 industry standards for identifying the origins of traffic and, even if it were correct,
19 all that would mean is that a bit less of the traffic Halo is sending to AT&T

⁴ See Mr. Wiseman's testimony from the parallel Wisconsin proceeding, **Exhibit MN-9**, at 30, lines 5-6, and from the parallel Georgia proceeding, **Exhibit MN-10**, at 7, lines 15-17.

⁵ Just as Transcom changed its website when it realized the admissions there were undercutting its litigation position (as Mr. McPhee discusses in his Rebuttal Testimony) Mr. Wiseman dropped his statement that the industry should stop relying on CPN after AT&T pointed out in other states that that statement was an acknowledgement that the industry still does rely on CPN. Mr. Wiseman cannot "unsay" his admission, however.

⁶ *E.g., id.* at 4, lines 5-6.

1 Kentucky is landline-originated than the approximately 67% to 89% that our initial
2 numbers showed.⁷

3 **III. HALO IS DELIVERING LANDLINE-ORIGINATED**
4 **TRAFFIC TO AT&T KENTUCKY**

5 **Q. YOU SAID IN YOUR INTRODUCTORY COMMENTS THAT EVEN THOUGH**
6 **THE ICA REQUIRES HALO TO SEND ONLY WIRELESS-ORIGINATED**
7 **TRAFFIC TO AT&T KENTUCKY, HALO DOES NOT DENY THAT IT IS**
8 **SENDING AT&T TRAFFIC THAT ORIGINATES AS LANDLINE TRAFFIC.**
9 **WHAT DO YOU BASE THAT ON?**

10 A. It is not just that Halo does not deny that it is sending us landline-originated
11 traffic; Mr. Wiseman actually admits it. He states, “[m]ost of the calls probably
12 did start on other networks before they came to Transcom for processing. It
13 would not surprise me if some of them started on the PSTN.”⁸ The PSTN is the
14 public switched telephone network – the landline network. So, even though Mr.
15 Wiseman purposefully understated what he was saying, he is still admitting that
16 Halo is sending to AT&T Kentucky traffic that started as landline traffic.⁹

17 This clearly is landline-originated traffic, and sending landline-originated
18 traffic to AT&T Kentucky (as Halo admittedly does) violates Halo’s contractual
19 commitment to send *only* “wireless-originated” traffic to AT&T Kentucky.

⁷ Direct Testimony of Mark Neinast on Behalf of AT&T Kentucky (“Neinast Direct”) at 17, lines 11-20.

⁸ Wiseman Testimony at 32, lines 5-6.

⁹ At a recent hearing, Halo’s attorney noted an FCC definition of “PSTN” that included wireless networks as well as landline networks, and thus implied that when Mr. Wiseman acknowledged that Halo sends AT&T calls that originated on the PSTN, he was not acknowledging that Halo sends AT&T calls that originated on a landline network. That struck me as incredible. There is no reason to believe that Mr. Wiseman had that FCC definition in mind when he wrote his testimony. Furthermore, the general understanding within the industry is that the PSTN is the traditional Bell operating company network, and the context of Mr. Wiseman’s acknowledgment makes clear that that is what he intended.

1 **Q. WHY DO YOU SAY MR. WISEMAN UNDERSTATED WHAT HE WAS**
2 **SAYING?**

3 A. In the first place, it is not “most” of the calls that started on other networks; it is *all*
4 of them. Transcom has no end user customers.¹⁰ Consequently, 100% of the
5 calls that Transcom hands off to Halo “start on other networks.” Second, Mr.
6 Wiseman’s statement that it “would not surprise [him] if some of them started on
7 the PSTN” is as much an understatement as “it would not surprise me if the sun
8 rose tomorrow.” As Mr. Wiseman admits, “Halo is not in a position to determine
9 where or on what network the call started, and we have not asked our
10 customer.”¹¹ In other words, Halo is doing nothing to try to avoid receiving
11 landline-originated calls and delivering them to AT&T Kentucky, and Mr.
12 Wiseman knows, and effectively admits, that of the millions of minutes of traffic
13 Halo is delivering to AT&T Kentucky every month, a substantial portion
14 necessarily originates on the PSTN.

15 **Q. WHY IS HALO’S ADMISSION IMPORTANT?**

16 A. Because it confirms that Halo’s critiques of AT&T Kentucky’s call studies that
17 showed that Halo is sending landline-originated traffic to AT&T Kentucky are
18 without merit. At the end of the day, all Halo’s critiques amount to is nit-picking
19 about whether the percentage of Halo traffic that is landline-originated is as
20 AT&T Kentucky’s call studies showed, or is something less than they showed.
21 For purposes of this case, though, the exact percentages are beside the point; all
22 that matters is that Halo is breaching its contract by sending to AT&T Kentucky

¹⁰ See, e.g., Pre-filed Testimony of Robert Johnson (“Johnson Testimony”) at 8, lines 1-3.

¹¹ Wiseman Testimony at 32, lines 9-10.

1 substantial amounts of traffic that originates on landline equipment. The *only*
2 defense left to Halo is its untenable argument that all the calls it is delivering to
3 AT&T Kentucky are actually wireless calls originated by Transcom's equipment in
4 Kentucky, including all the calls that start out as regular landline calls in other
5 states.

6 **Q. WITH THAT UNDERSTANDING, WILL YOU NONETHELESS ADDRESS**
7 **SOME OF MR. WISEMAN'S CRITIQUES OF AT&T KENTUCKY'S CALL**
8 **STUDIES?**

9 A. I will, briefly, but bear in mind that even if some or all of Mr. Wiseman's critiques
10 were well-founded, that would have no effect on the ultimate result in this
11 proceeding. Halo is sending large amounts of landline-originated traffic to AT&T
12 Kentucky in breach of the ICA, and AT&T Kentucky's call studies follow industry
13 practices in establishing this fact. Also bear in mind that Halo has offered no
14 traffic study of its own to dispute the results of AT&T Kentucky's traffic analysis –
15 even though Halo has access to all the supporting data for AT&T Kentucky's
16 analysis.

17 **Q. MR. WISEMAN ARGUES THAT AT&T KENTUCKY'S CALL STUDY**
18 **IMPROPERLY RELIED ON CALLING PARTY NUMBERS ("CPN") TO**
19 **DETERMINE THE ORIGINATING CARRIER FOR CALLS. IS THAT A VALID**
20 **CRITICISM?**

21 A. No.

22 **Q. WHY NOT?**

23 A. Mr. Wiseman relies primarily on advanced services like a T-Mobile service that
24 allows "wireless users to originate calls using wireless base stations connected to
25 wired broadband networks," and like Verizon Wireless' Home Phone Connect

1 service, which “allows VZW customers to port their home numbers to VZW and
2 use traditional landline phones to make calls over their wireless network.”¹² His
3 position is that AT&T Kentucky’s call analysis would have (or might have)
4 miscategorized calls made using such services. And to the extent that AT&T
5 Kentucky’s analysis counts such calls as landline-originated when they are
6 actually originated with mobile equipment, Mr. Wiseman argues, we have
7 overstated the percentage of landline-originated calls.

8 My direct testimony addressed these points and explained why Mr.
9 Wiseman is wrong. The simple fact of the matter is that under current industry
10 standards, the determinant of whether a carrier is landline or wireless is the Local
11 Exchange Routing Guide (“LERG”). When our analysis treated a call as landline-
12 originated, that meant that the carrier who holds the originating NPA-NXX for that
13 call identified the NPA-NXX as landline. Thus, our analysis complied with
14 industry standards, and properly treated as landline-originated a call that
15 originated on wireless equipment only when the holder of the NPA-NXX for that
16 call identified the NPA-NXX as landline.¹³

17 To be sure, the NPA-NXX does not in each and every instance accurately
18 reflect actual geographic location. Nonetheless, NPA-NXX is the most reliable
19 indicator we have in the telecommunications industry; it is accurate for the vast
20 majority of calls; and, as the Tennessee Regulatory Authority specifically found in

¹² Wiseman Testimony at 28, lines 11-21.

¹³ Neinast Direct at 17, lines 14-21.

1 the parallel case there, it is standard, accepted practice in the industry to use
2 NPA-NXX as a proxy for geographic location for landline calls.¹⁴

3 Furthermore, Mr. Wiseman makes no attempt to quantify the traffic that
4 Halo delivers to AT&T Kentucky that is originated with such advanced services.
5 At the end of the day, then, his testimony on this point establishes *at most* that
6 AT&T Kentucky's numbers may be imprecise to some unascertainable (but not
7 demonstrably significant) extent, which, again, makes no difference here.

8 **Q. MR. WISEMAN CLAIMS THAT THE FCC SAID IN PARAGRAPHS 960 AND**
9 **962 OF ITS *CONNECT AMERICA FUND* ORDER THAT CPN IS AN**
10 **UNRELIABLE INDICATOR OF WHERE CALLS ACTUALLY BEGAN.¹⁵ DOES**
11 **THIS CAST ANY DOUBT ON YOUR CALL ANALYSIS?**

12 A. No, for several reasons. Let's look first at what the FCC actually said in the three
13 paragraphs of *Connect America Fund*¹⁶ that Mr. Wiseman cites. In that Order,
14 the FCC, among other things, "adopt[ed] a prospective intercarrier compensation
15 framework for VoIP traffic."¹⁷ In its discussion of that new framework, the FCC
16 said:

17 [G]iven the recognized concerns with the use of telephone numbers
18 and other call detail information to establish the geographic
19 endpoints of a call, we *decline to mandate*, their use in that regard
20 We do, however, recognize concerns regarding providers'
21 ability to distinguish VoIP-PSTN traffic from other traffic, and . . . we

¹⁴ See the TRA's decision, Exhibit MN-1 to my Direct Testimony, at 17: "The Authority acknowledges that a certain degree of imprecision can occur when analyzing the origin to individual telephone calls, due to factors such as the advent of number portability and the growth of wireless and IP telephony. However, because of these technical issues, the industry has developed conventions and practices to evaluate calls for the purpose of intercarrier compensation. The Authority finds that the methodology used to collect the data and the interpretation of the data in the AT&T study are based upon common industry practices to classify whether traffic is originated on wireline or wireless networks."

¹⁵ Wiseman Testimony at 41, lines 15-18.

¹⁶ *Connect America Fund*, FCC 11-161, 2011 WL 5844975 (rel. Nov. 18, 2011).

¹⁷ *Id.* at ¶ 933.

1 permit LECs to address this issue through their tariffs, much as they
2 do with jurisdictional issues today.¹⁸

3 As it continued its discussion of the prospective intercarrier compensation
4 framework for VoIP-PSTN traffic, the FCC repeated that point two more times,
5 stating, “Because telephone numbers and other call detail information *do not*
6 *always* reliably establish *the geographic endpoints of a call*, we do not mandate
7 their use,”¹⁹ and, “we *do not require* the use of particular call detail information to
8 dispositively distinguish toll VoIP-PSTN traffic from other VoIP-PSTN traffic,
9 given the recognized limitations of such information.”²⁰

10 This is hardly the condemnation of CPN that Mr. Wiseman claims to find in
11 the FCC’s Order. All the FCC actually said is that it was not *requiring* the use of
12 CPN, in the context of its new, going-forward intercarrier compensation scheme
13 for VoIP-PSTN traffic, because of concerns that CPN does *not always* reliably
14 establish *the geographical endpoints of a call*. The FCC neither condemned nor
15 prohibited the use of CPN, even for VoIP-PSTN traffic; it did not say anything at
16 all about the reliability of CPN with respect to traffic (like much of Halo’s traffic)
17 that is *not* VoIP-PSTN traffic; and, most important, it did not say anything about
18 the use of CPN to identify whether a call originated on a landline or wireless
19 network (as opposed to identifying the geographic endpoints of a call).

20 Recall that the purpose of my call analysis was to confirm that Halo is
21 sending AT&T Kentucky landline-originated traffic in breach of the parties’ ICA.
22 As I have explained, CPN is a very reliable tool for identifying the carrier that

¹⁸ *Id.* at ¶ 934 (emphasis added).

¹⁹ *Id.* at ¶ 960 (emphasis added).

²⁰ *Id.* ¶ 962 (emphasis added).

1 originated calls and thereby determining whether the call was landline-
2 originated. Moreover, I already accounted for Mr. Wiseman's claim that some IP
3 calls may appear to be landline when they actually are wireless. While I dispute
4 that claim, the re-run of our analysis, discussed above, shows that even if Mr.
5 Wiseman were correct, it would have very little impact on the final result, and
6 certainly would not prove that Halo is not sending significant volumes of landline-
7 originated traffic to AT&T Kentucky.

8 **Q. IS IT TRUE, AS MR. WISEMAN STATES, THAT "AT&T WITNESSES HAVE**
9 **ALSO ADMITTED THEY HAVE NO REAL WAY OF ACCURATELY**
10 **IDENTIFYING WHETHER A PARTICULAR CALL ACTUALLY 'ORIGINATED'**
11 **FROM A 'WIRELINE' CUSTOMER OF AN LEC USING A TRADITIONAL**
12 **PHONE"**²¹?

13 A. Absolutely not. All we have "admitted" – and I will quote my direct testimony on
14 this – is that "the NPA-NXX does not in each and every instance accurately
15 reflect actual geographical location."²² I then went on to say: "Nonetheless,
16 NPA-NXX is the most reliable indicator we have in the telecommunications
17 industry; it is accurate for the vast majority of calls; and it is the standard,
18 accepted practice in the industry to use NPA-NXX as a proxy for geographic
19 location for landline calls."²³ Our study demonstrated beyond any doubt that a
20 substantial portion of the calls Halo is delivering to AT&T Kentucky originated on
21 landline equipment, in breach of the parties' interconnection agreement.

²¹ Wiseman Testimony at 27, lines 3-5.

²² Neinast Direct at 19, lines 6-7.

²³ *Id.* at 19, lines 7-10

1 **Q. WHAT IS YOUR CONCLUSION CONCERNING THE QUESTION WHETHER**
2 **HALO IS SENDING AT&T KENTUCKY TRAFFIC THAT ORIGINATES ON**
3 **LANDLINE EQUIPMENT?**

4 A. As I said at the outset, that is not really a question at all. Halo admits it is
5 sending traffic to AT&T Kentucky that started out on the PSTN. Notwithstanding
6 its contract obligation, Halo is doing nothing to avoid sending us such traffic; Halo
7 admits it “is not in a position to determine where or on what network the call
8 started,” and that it has “not asked our customer.”²⁴ Our call studies showed that
9 much of the traffic is landline-originated. Giving Halo every benefit of the doubt,
10 the percentage may be somewhat less than our studies showed, but for
11 purposes of this case, that makes no difference, because AT&T Kentucky is not
12 asking the Commission to determine the amount owed. That will be a task for
13 the Bankruptcy Court in Halo’s bankruptcy proceeding.

14 **IV. TRANSCOM IS NOT AN ESP**

15 **Q. PLEASE RESTATE HOW THE QUESTION WHETHER TRANSCOM IS OR IS**
16 **NOT AN ESP FITS INTO THE PARTIES’ DISPUTE.**

17 A. As I have explained, Halo is sending AT&T Kentucky a substantial amount of
18 traffic that originates on landline networks. That means that Halo is breaching
19 the parties’ ICA unless Halo can somehow persuade the Commission that all of
20 that traffic is “re-originated” when it hits Transcom. To establish that that is the
21 case, Halo must first show that Transcom is an ESP, because Halo’s whole “re-
22 origination” theory rests on the proposition that Transcom is an ESP and
23 therefore should be treated as an end user.

²⁴ Wiseman Testimony at 32, lines 9-10.

1 In my direct testimony, I noted that in *Connect America Fund*, the FCC,
2 while fully aware of Halo’s contention that Transcom is an ESP, rejected
3 precisely the argument that Halo is advancing here,²⁵ Mr. McPhee quoted the
4 FCC’s rejection of Halo’s argument in full.²⁶

5 I also explained that while the question whether Transcom is an ESP is
6 ultimately a legal question, I had seen no evidence that Transcom provides
7 enhanced services as I understand that term.²⁷ And I noted that the Tennessee
8 Regulatory Authority (“TRA”), in the parties’ identical dispute there, concluded
9 that Transcom is not an Enhanced Service Provider, for reasons that track my
10 own, to which I testified in Tennessee,²⁸ and that the Pennsylvania Public Utility
11 Commission (“PPUC”) likewise ruled that “Transcom’s removal of background
12 noise, the insertion of white noise, [and] the insertion of computer developed
13 substitutes for missing content”– the same functionalities Halo relies on here – do
14 not constitute “enhancements.”²⁹

15 **Q. WHAT DOES HALO’S TESTIMONY SAY ABOUT THE TRA AND PPUC**
16 **RULINGS THAT TRANSCOM IS NOT AN ESP?**

17 **A.** Halo has no answer for the Tennessee decision or the Pennsylvania decision, so
18 Mr. Wiseman and Mr. Johnson ignore them.³⁰

²⁵ Neinast Direct at 23, lines 1-9.

²⁶ McPhee Direct at 16, line 4 to page 17, line 24.

²⁷ Neinast Direct at 24, line 9 to page 25, line 18.

²⁸ *Id.* at 25, line 21 to page 27, line 5.

²⁹ *Id.* at 27, lines 9-18

³⁰ Neither Mr. Wiseman nor Mr. Johnson makes any mention of the PPUC decision. Their only mention of the TRA decision is Mr. Johnson’s suggestion that the bankruptcy finding Halo relies on deserves at least as much “dignity” as the TRA decision – with no discussion of the merits of the TRA’s

1 Instead of addressing those adverse rulings, Mr. Johnson discusses at
2 great length what he calls Transcom’s “enhanced service platform.”³¹ When all is
3 said and done, Mr. Johnson spends many pages discussing his “very technical
4 understanding”³² of a very simple (and decidedly non-enhanced) aspect of
5 Transcom’s service.

6 **Q. WHAT IS THAT ASPECT OF TRANSCOM’S SERVICE?**

7 A. Transcom claims it improves the audio quality of voice transmissions.

8 **Q. IS IMPROVING THE AUDIO QUALITY OF VOICE TRANSMISSIONS THE**
9 **PROVISION OF ENHANCED SERVICES?**

10 A. No. For the reasons I discussed in my direct testimony, and that the TRA and
11 the PPUC found conclusive, that is not the provision of enhanced services.

12 **Q. MR. WISEMAN STATES THAT YOUR ASSERTIONS, AND MR. MCPHEE’S,**
13 **“ARE FOUNDED ON . . . A DISMISSAL OF FEDERAL DECISIONS**
14 **REGARDING THE NATURE AND RIGHTS OF HALO’S HIGH VOLUME**
15 **CUSTOMER.”³³ DO YOU KNOW TO WHAT HE IS REFERRING?**

16 A. I believe so. Halo likes to refer to Transcom, which is its one and only paying
17 customer and which collaborates with Halo to pass off long distance, landline-
18 originated traffic as local, wireless-originated traffic, as its “high volume
19 customer.” The “federal decisions” to which Mr. Wiseman is referring are the
20 bankruptcy court decisions that ruled some years ago that Transcom was an

decision. Johnson Testimony at 6, line 26 to page 7, line 2. Mr. McPhee explains why the TRA decision is entitled to greater weight than the bankruptcy court finding in his rebuttal testimony. Mr. Johnson also says the TRA decision is “misleading” because the TRA did not accept the claims in his testimony there. *Id.* at 29, line 24 to page 30, line 2. But all that means is the TRA did not find his testimony convincing, not that the TRA was wrong.

³¹ Johnson Testimony at 7, lines 13-17, line 8.

³² *Id.* at 17, line 9.

³³ Wiseman Testimony at 26, lines 17-19.

1 ESP. Mr. Johnson discusses those decisions at some length, and Halo relies on
2 them heavily.

3 **Q. WHAT IS THE SIGNIFICANCE OF THE BANKRUPTCY RULINGS?**

4 A. That is a question for the lawyers, but I will provide my general understanding of
5 AT&T's position: Just as this Commission is not bound by the TRA's recent
6 decision that Transcom is not an ESP, or the PPUC decision to the same effect,
7 it also is not bound by the considerably older bankruptcy court decisions.
8 Instead, the Commission should attach weight to the various decisions to the
9 extent that it finds they are entitled to weight based on the considerations Mr.
10 McPhee identifies and on the persuasiveness of their reasoning. This
11 Commission is better equipped than a bankruptcy court, which seldom sees
12 telecommunications issues or deals with FCC Rules, to decide whether
13 Transcom is an ESP – and so were the TRA and the PPUC when they did not
14 adopt the bankruptcy court conclusion and ruled that Transcom is not an ESP.
15 This point seems evident to me as a layman, and was confirmed for me by the
16 decision of the bankruptcy judge presiding over Halo's own bankruptcy to allow
17 this Commission and other state commissions to determine the merits of these
18 issues in the first instance. AT&T Kentucky believes this Commission will find
19 the reasoning of the two state commissions, especially the TRA, persuasive.

20 Halo has suggested that AT&T Kentucky is legally bound by the
21 bankruptcy court decisions, under a doctrine called "collateral estoppel." That is
22 a legal issue that I cannot address, but AT&T Kentucky will show in its legal

1 briefs why that is incorrect, and that if anyone were legally bound here, it would
2 be Halo, by the TRA decision on precisely the issues presented here.

3 **Q. ARE THE ISSUES REGARDING THE ICA AT ISSUE IN THIS CASE THE**
4 **SAME ISSUES REGARDING THE ICA THAT WAS AT ISSUE IN THE TRA**
5 **DECISION YOU REFERENCE AND IN THE RECENT DECISION IN SOUTH**
6 **CAROLINA?**

7 A. Yes. The terms and conditions in the ICA that the TRA ruled Halo breached are
8 the same terms and conditions in the ICA being reviewed in this docket. The
9 South Carolina Public Service Commission recently reviewed the same ICA and
10 reached the same result, finding Halo in breach.³⁴ Thus, AT&T's claim that Halo
11 breached the ICA has already been sustained.

12 **V. EVEN IF TRANSCOM WERE AN ESP, THAT DOES**
13 **NOT MEAN IT RE-ORIGINATES EVERY CALL IT TOUCHES**

14 **Q. HAS HALO'S TESTIMONY PERSUADED YOU THAT THE LANDLINE-**
15 **ORIGINATED CALLS THAT HALO DELIVERS TO AT&T KENTUCKY ARE**
16 **RE-ORIGINATED AS WIRELESS CALLS WHEN THEY PASS THROUGH**
17 **TRANSCOM'S EQUIPMENT?**

18 A. Not in the slightest. As I explained in my direct testimony, a call is originated only
19 once, by the person that actually starts the call – the girl in California in the
20 illustration I gave.³⁵ Calls are analyzed on an end-to-end basis based on the
21 originating caller's (the girl's) NPA-NXX and the called party's (the girl's
22 grandmother in Baton Rouge) NPA-NXX. Just as the FCC found when it rejected
23 Halo's position in *Connect America Fund*, Transcom's supposed "re-origination"
24 of a call with wireless equipment "in the middle of the call path does not convert a

³⁴ The South Carolina Commission's "Commission Directive" is attached as **Exhibit MN-11**. This Directive was issued on June 28, 2012; the South Carolina Commission should issue its full written decision in the near future.

³⁵ Neinast Direct at 21, line 2 to page 22, line 2.

1 wireline-originated call [*i.e.*, a landline-originated call] into a CMRS-originated
2 call.”³⁶

3 Bear in mind that Halo is not claiming that Transcom is originating these
4 calls in the usual sense of the word. Rather, Halo is claiming that because
5 Transcom is an ESP, Transcom (i) is exempt from access charges; (ii) is thus
6 treated as an end user; and (iii) is therefore a call originator. Once one decides,
7 as the Commission should, that Transcom is not an ESP, that is the end of the
8 discussion – there is nothing left of Halo’s argument.³⁷

9 **Q. MR. WISEMAN OBJECTS TO THE TERM “RE-ORIGINATION.” HE STATES**
10 **THAT HALO IS NOT ARGUING THAT TRANSCOM “RE-ORIGINATES”**
11 **CALLS, BUT RATHER THAT AS AN ESP, TRANSCOM “INITIATES A**
12 **FURTHER COMMUNICATION.”³⁸ DO YOU ACCEPT THE DISTINCTION HE**
13 **IS MAKING?**

14 **A.** Halo is free to use whatever words it wishes in making its own arguments. I
15 would note, however, that the language in the ICA provides that Halo must send
16 AT&T Kentucky only traffic that “*originates* through wireless transmitting and
17 receiving facilities.”³⁹ So if Halo insists that what Transcom is doing is *not* an
18 origination, that necessarily means that the origination happens at the start of the
19 call – which AT&T Kentucky of course maintains is the one and only origination.

³⁶ See *id.* at 23, lines 5-9, quoting *Connect America Order*.

³⁷ Halo also argues that Transcom must be treated as an end user – and deemed to originate every call that passes through it – even if it is not an ESP. *E.g.*, Johnson Testimony at 36, lines 2-9. That, however, is merely the same argument in different form, for it still relies on the proposition that if Transcom is deemed to be an end user, then it also must be deemed to originate every call that passes through it. As Mr. McPhee and I have discussed, that is simply not correct. Whatever Transcom may do, and whatever it may call itself, it does not actually originate any of the calls that it passes to Halo and that Halo then passes to AT&T Kentucky. Rather, those calls originate with someone else, usually on landline equipment.

³⁸ Wiseman Testimony at 66, line 15 to page 67, line 3.

³⁹ I refer to the ICA Amendment quoted in Mr. McPhee’s direct testimony, at 12, lines 18-24.

1 Because that origination is not wireless for most of the calls Halo delivers to
2 AT&T Kentucky, Halo is clearly breaching the ICA.

3 As Mr. Wiseman acknowledges, he insists on the phrase “initiates a
4 further communication” because that is the phrase the D.C. Circuit used in the
5 *Bell Atlantic* decision when it talked about dial-up internet traffic terminating at the
6 Internet Service Provider (“ISP”), which then initiated a further communication to
7 the World Wide Web.⁴⁰ As AT&T Kentucky will explain in its legal briefs, the *Bell*
8 *Atlantic* decision does not help Halo here, because, among other reasons, there
9 is a tremendous difference between the situation that case addressed and the
10 situation presented here. For one thing, when an ISP’s customer dials a seven-
11 digit phone number to reach the ISP in order to go onto the Internet, the
12 customer knows he is calling the ISP for that purpose. In contrast, when the girl
13 in California calls her grandmother in Frankfort, the girl is not making a call to
14 Transcom; she does not even know Transcom exists. AT&T Kentucky will
15 explain the legal significance of this important factual distinction in its briefs.

16 All that said, I do not believe it makes any difference whether we call it a
17 “re-origination,” a “second origination” or the “initiation of a further
18 communication,” because whatever we call it, Transcom does not do it.

⁴⁰ Wiseman Testimony at 66, lines 16-24.

1 Q. MR. WISEMAN STATES THAT HE IS ADVISED BY COUNSEL THAT THE
2 "FCC APPARENTLY DISAGREES WITH THE D.C. CIRCUIT'S HOLDING
3 THAT ESPS CONSTITUTE AN END POINT FOR RECIPROCAL
4 COMPENSATION PURPOSES, AND WHEN AN ESP 'ORIGINATES A
5 FURTHER COMMUNICATION' IT IS A SEPARATE COMMUNICATION."⁴¹
6 DOES AT&T KENTUCKY SHARE THAT VIEW?

7 A. Mr. Wiseman is certainly correct that the FCC has ruled that ESPs do not
8 constitute an end point, and that ESPs do not "originate" further communications,
9 and that is fatal to Halo's position here. AT&T Kentucky does *not* agree,
10 however, that that means the FCC disagrees with the D.C. Circuit's holding in
11 *Bell Atlantic*. Having staked out the position that *Bell Atlantic* holds that ESPs
12 are always call originators and call terminators, and having acknowledged that
13 the FCC has concluded that ESPs are not call originators, Mr. Wiseman is forced
14 to say that the FCC disagrees with *Bell Atlantic*. But the FCC certainly did not
15 say it was disagreeing with the D.C. Circuit, and AT&T Kentucky does not believe
16 it was. Rather, Halo was simply wrong when it read *Bell Atlantic* as supporting its
17 position.

18 Q. WHAT IF THE COMMISSION WERE TO DECIDE THAT TRANSCOM IS AN
19 ESP? WOULD IT FOLLOW THAT TRANSCOM IS ORIGINATING ALL THESE
20 CALLS, AS HALO CLAIMS?

21 A. Not in my view, as I have explained.⁴² That is in large part a legal question,
22 however, which AT&T Kentucky will address in its briefs.

⁴¹ *Id.* at 39, line 22 to page 40, line 1.

⁴² Neinast Direct at 29, lines 15-24.

1 Q. YOU SAY THAT THE FCC REJECTED HALO'S THEORY IN *CONNECT*
2 *AMERICA FUND*, BUT STARTING AT PAGE 64 OF HIS TESTIMONY, MR.
3 WISEMAN SEEMS TO SUGGEST THAT MAY NOT BE THE CASE. HOW DO
4 YOU RESPOND?

5 A. From my perspective, the most important statement in Mr. Wiseman's testimony
6 about the FCC's Order – and perhaps the most straightforward statement – is
7 this: "We acknowledge that . . . apparently [the FCC] now believes ESPs are
8 exchange access customers and *do not originate calls*."⁴³ With this
9 acknowledgment that the FCC believes ESPs do not originate calls, I do not see
10 how Halo can maintain its position that the calls we are discussing are not
11 landline-originated calls on the theory that Transcom originates them.

12 Q. BUT DOESN'T MR. WISEMAN QUALIFY HIS ACKNOWLEDGEMENT OF THE
13 FCC'S BELIEF?

14 A. Yes. Mr. Wiseman, in the same sentence I just quoted, says that the FCC's
15 belief that ESPs do not originate calls results from the fact that the FCC has
16 "reversed course from prior precedent." He also states that the fact that the FCC
17 believes ESPs do not originate calls "does not resolve the 'end user' question,"
18 and does not mean that ESPs are common carriers or provide
19 telecommunications services.⁴⁴ As to the first point, AT&T Kentucky does not
20 believe the FCC's rejection of Halo's position is a rejection of prior precedent;
21 rather, it is an application of prior precedent, as AT&T Kentucky will show in its
22 legal briefs. Scott McPhee discusses this in his rebuttal testimony.

⁴³ Wiseman Testimony at 50, lines 15-16.

⁴⁴ *Id.* at 50, lines 15-17.

1 As for Mr. Wiseman's second point, this Commission does not need to
2 resolve the "end user" question or decide whether Transcom is a common carrier
3 or provides telecommunications services in order to decide that Halo has
4 breached the parties' ICA by sending AT&T Kentucky landline-originated traffic.
5 If Transcom is not originating calls, as Halo acknowledges the FCC found, then
6 all those landline-originated calls, like the girl's call to her grandmother, remain
7 landline-originated and were delivered in breach of the ICA.

8 **Q. MR. JOHNSON CLAIMS THAT AT&T KENTUCKY'S WITNESSES AGREE**
9 **THAT "UNDER THE FCC'S VIEW, END USERS USE CUSTOMER PREMISE**
10 **EQUIPMENT (OR CPE) TO 'ORIGINATE' TELECOMMUNICATIONS TO**
11 **TELECOMMUNICATIONS CARRIERS AND TELECOMMUNICATIONS**
12 **CARRIERS 'TERMINATE' TELECOMMUNICATIONS TO END USERS'**
13 **CPE."**⁴⁵ **IS THAT TRUE?**

14 **A.** No. Neither Mr. McPhee nor I used the words Customer Premises Equipment or
15 the term CPE in our direct testimony, and neither of us made any reference to
16 any such equipment.⁴⁶ Furthermore, the FCC defines Customer Premises
17 Equipment as "equipment employed on the premises of a person (other than a
18 carrier) to originate, *route*, or terminate telecommunications."⁴⁷ I take it that Mr.
19 Johnson's point is that if Transcom's equipment is Customer Premises
20 Equipment (and I express no view on whether it is), then Transcom necessarily
21 terminates and originates all the telecommunications that pass through it.
22 According to the FCC's definition, that is not the case. Assuming that Transcom

⁴⁵ Johnson Testimony at 5, lines 9-12.

⁴⁶ I know that Mr. Johnson claimed to find these agreements "buried" in our testimony (Johnson Testimony at 4, line 21), but this one isn't even close.

⁴⁷ 47 C.F.R. § 6.3(c) (emphasis added).

1 does have Customer Premises Equipment, that equipment can be used to *route*
2 calls.

3 **Q. SINCE NEITHER YOU NOR MR. MCPHEE MADE ANY MENTION OF CPE IN**
4 **YOUR DIRECT TESTIMONY, I TAKE IT THAT MR. JOHNSON IS ALSO**
5 **WRONG WHEN HE STATES THAT YOU AGREED IN YOUR DIRECT**
6 **TESTIMONY THAT “TRANSCOM’S WIRELESS TRANSMITTING AND**
7 **RECEIVING FACILITIES ARE CPE”?**⁴⁸

8 A. Correct. We agreed to no such thing in our direct testimony. I am expressing no
9 opinion on whether Transcom’s equipment is CPE. As I just noted, however, I do
10 not believe that Halo can get where it wants to get by engaging in a logic chain
11 that says (i) Transcom’s equipment is CPE, (ii) CPE terminates and originates
12 communications, and, therefore, (iii) Transcom originates all the traffic that Halo
13 delivers to AT&T Kentucky. The chain falls apart at step (ii) in light of the FCC’s
14 definition of CPE and because Transcom does not originate anything.

15 **Q. MR. JOHNSON ALSO STATES THAT AT&T KENTUCKY’S WITNESSES**
16 **AGREE THAT “TRANSCOM’S ENHANCED SERVICES CHANGE THE**
17 **CONTENT OF THE COMMUNICATIONS IT RECEIVES FROM ITS**
18 **CUSTOMERS.”**⁴⁹ **IS THAT TRUE?**

19 A. No. We have consistently maintained that Transcom does not provide enhanced
20 services, so we certainly haven’t agreed (even implicitly or “deeply buried,” as
21 Mr. Johnson put it) to anything about any such enhanced services. Nor have we
22 agreed that Transcom changes content. On the contrary, the content of the
23 communication remains unchanged.

⁴⁸ Johnson Testimony at 5, line 12.

⁴⁹ *Id.* at 5, lines 1-2.

1 **Q. WHAT ABOUT THE OTHER TWO THINGS THAT MR. JOHNSON CLAIMS**
2 **YOU HAVE AGREED TO?**⁵⁰

3 A. We did not agree to either of those propositions, either.

4 **Q. MR. WISEMAN ANALOGIZES THE HALO-TRANSCOM ARRANGEMENT TO**
5 **A “LEAKY PBX.”⁵¹ DOES THE ANALOGY SUPPORT HALO’S POSITION**
6 **HERE?**

7 A. No. The so-called “leaky PBX” situation arises when someone using a work
8 phone or home phone dials into her company’s PBX and then, usually by dialing
9 an access code or another number, has the PBX send the call to another
10 company PBX via a private line connection between the PBXs. The second PBX
11 then “leaks” the call into the local exchange for termination, and the call appears
12 to be local (that is, it looks like it came from the local PBX), so the LEC does not
13 know to apply access charges.⁵² Mr. Wiseman’s comparison to a leaky PBX is
14 telling, because the FCC long ago recognized that leaky PBXs – just like Halo’s
15 and Transcom’s current scheme – constituted a form of “access charge
16 avoidance” that needed correction.⁵³ The FCC dealt with the leaky PBX situation
17 by imposing a \$25 per month surcharge on all jurisdictionally interstate special
18 access lines that do not fall within specific exceptions.

19 In any event, the Halo/Transcom arrangement, though similar in purpose
20 to the leaky PBX, is different in important ways. Most important, in the leaky PBX
21 situation the person who originates the call knows she is using a company line

⁵⁰ *Id.* at 5, lines 3-8.

⁵¹ *E.g.*, Wiseman Testimony 40, lines 2-7, and at 50, lines 13-14.

⁵² *In the Matter of Amendment of Part 69 of the Commission’s Rules Relating to Private Networks and Private Line Users of the Local Exchange*, 2 FCC Rcd. 7441, ¶ 15 (rel. Dec. 18, 1987); NEWTON’S TELECOM DICTIONARY at 426 (18th ed.) (definition of “Leaky PBX”).

⁵³ *MTS and WATS Market Structure*, 97 FCC Rcd. 682, ¶ 87 (1983).

1 and the company remains responsible to pay for the line and the call. With Halo
2 and Transcom, by contrast, the party originating the call has no idea that Halo or
3 Transcom will be involved in carrying the call and Halo and Transcom have no
4 contractual or other relationship with that caller.

5 **Q. MR. JOHNSON ARGUES AT LENGTH THAT TRANSCOM IS NOT A**
6 **“TELECOMMUNICATIONS CARRIER.”⁵⁴ DO YOU AGREE?**

7 A. Whether Transcom is or is not a “telecommunications carrier” as that term is
8 defined in the statute Mr. Johnson quotes is a legal question. Indeed, Mr.
9 Johnson acknowledges that much of what he says on the subject is “on the
10 advice of counsel.” Mr. Johnson’s argument that Transcom is not a carrier,
11 however, is merely a round-about way of restating Halo’s contention that
12 Transcom is an ESP and, therefore, an end-user that originates communications.
13 Assuming the Commission rejects that argument, as it should, the Commission
14 will have no occasion to decide whether Transcom is a carrier. That said,
15 inasmuch as Transcom is not, in my view, an ESP, I continue to believe that
16 Transcom is a carrier.

17 **VI. HALO PROVIDED INACCURATE CALL DETAIL**

18 **Q. IN YOUR DIRECT TESTIMONY, YOU SHOWED THAT HALO HAS INSERTED**
19 **CHARGE NUMBER (“CN”) DATA IN A MANNER THAT MAKES TOLL CALLS**
20 **APPEAR TO BE LOCAL. DOES HALO ADMIT DOING THIS?**

21 A. Yes. As I discussed, when used legitimately, a Charge Number (“CN”) appears
22 on a very small number of calls and is typically within the same NPA-NXX as the
23 Calling Party’s Number. Halo, however, inserted what it alleges is a Transcom

⁵⁴ Johnson Testimony at 20, line 15 to page 23, line 5.

1 CN on *all* of the calls it was sending to AT&T Kentucky, even though the calling
2 party had not asked or arranged to have a CN inserted. Mr. Wiseman admits
3 Halo did this, saying that Halo “populated Transcom’s Billing Telephone Number
4 (‘BTN’) in the SS7 Charge Number (‘CN’) address signal.”⁵⁵ I am aware of no
5 legitimate reason to insert CN in this manner. Halo has stated that it stopped
6 inserting the Transcom CN as of December 29, 2011, but that does not remove
7 Halo’s prior, and significant, breach of the ICA.

8 **Q. MR. WISEMAN, HOWEVER, STATES THAT HALO INSERTED THE**
9 **TRANSCOM CN INTO THE CALL DETAIL “SO HALO COULD CORRECTLY**
10 **BILL SERVICES, AND ASSOCIATE ITS CUSTOMER CALLS TO**
11 **TERMINATING LECS, WHERE DIFFERENT TERMINATING CHARGES ARE**
12 **IN EFFECT.”⁵⁶ IS THAT A PERSUASIVE EXPLANATION?**

13 A. I do not believe it is. I cannot imagine why Halo would need to insert a Transcom
14 CN into the call detail in order for Halo to correctly bill Transcom, which is its only
15 customer. And I have no idea what Mr. Wiseman means when he says Halo
16 inserted the CN so Halo could “associate its customer [Transcom] calls to
17 terminating LECs, where different terminating charges are in effect.” That makes
18 no sense to me.

⁵⁵ Wiseman Testimony at 52, lines 15-17.

⁵⁶ *Id.* at 54, lines 4-6.

1 **Q. YOU SAY THAT HALO WAS DISGUIISING THE TRUE NATURE OF ITS**
2 **TRAFFIC, BUT WASN'T AT&T KENTUCKY ABLE TO DISCERN THE TRUE**
3 **NATURE OF THE TRAFFIC BY LOOKING AT THE ORIGINATING CPN AND**
4 **USING THE PROCESS YOU AND MR. MENSINGER USED FOR YOUR CALL**
5 **ANALYSES?**

6 A. That isn't the point. As I explained in my direct testimony,⁵⁷ Halo was disguising
7 the true nature of its traffic *from our billing systems*. That is where the breach of
8 ICA and conflict with industry practices occurred. It was only through additional
9 analysis obtained from the call studies that AT&T Kentucky could understand the
10 nuance of Halo's CN insertion and its impacts.

11 **Q. BUT MR. WISEMAN SAYS THAT AT&T'S BILLING SYSTEMS COULD NOT**
12 **HAVE BEEN DECEIVED, BECAUSE AT&T KENTUCKY DOES NOT DO**
13 **"CALL BY CALL" RATING.⁵⁸ HOW DO YOU RESPOND?**

14 A. It is true that under the ICA AT&T Kentucky does not bill Halo for wireless calls
15 (which is all the ICA is set up to address) by identifying each individual call as
16 local or long distance and billing accordingly; rather, AT&T Kentucky bills carriers
17 with CMRS ICAs, such as Halo, according to factors – in this instance, the 100%
18 intraMTA factor that Halo gave AT&T Kentucky (*i.e.*, Halo's representation that all
19 of Halo's traffic is intraMTA wireless traffic). What Mr. Wiseman overlooks,
20 however, is that the ICA allows the factor to be adjusted from time to time to
21 reflect real world traffic flows, and by inserting the Transcom CN into the call
22 detail, Halo caused the billing records to give the inaccurate impression that all of
23 Halo's traffic was indeed intraMTA traffic. That, under other circumstances,
24 would have deterred AT&T Kentucky from seeking to adjust the billing factors. It

⁵⁷ Neinast Direct at 32, line 8 to page 39, line 2.

⁵⁸ Wiseman Testimony at 53, lines 15-16.

1 was only because our suspicions were aroused and we checked the SS7 records
2 (as opposed to the billing records) that we were able to confirm that Halo was in
3 fact sending us a great deal of traffic that was not intraMTA.

4 **Q. HAS THE FCC RECOGNIZED THAT INSERTING A CN INTO THE CALL**
5 **RECORD, AS HALO DID, CAUSES PROBLEMS FOR TERMINATING**
6 **CARRIERS?**

7 A. Yes. In *Connect America Fund*, the FCC addressed the practice of manipulating
8 CN that is sent to a terminating carrier. The FCC referred to this as “the problem
9 of CN number substitution that disguises the characteristics of traffic to
10 terminating carriers,” and found that “CN substitution is a technique that leads to
11 phantom traffic.”⁵⁹ The FCC therefore stated that “the CN field may only be used
12 to contain a calling party’s charge number, and that it may not contain or be
13 populated with a number associated with an intermediate switch, platform, or
14 gateway, or other number that designates anything other than a calling party’s
15 charge number.”⁶⁰ Yet that is precisely what Halo did.

16 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**

17 A. Yes.

18

19

20 1039895

⁵⁹ *Connect America Fund*, ¶ 714.

⁶⁰ *Id.*

PSC REF#:159682

**BEFORE THE
PUBLIC SERVICE COMMISSION OF WISCONSIN**

Investigation into Practices of Halo Wireless, Inc. and Transcom
Enhanced Services, Inc.

9594-TI-100

**PRE-FILED REBUTTAL TESTIMONY OF RUSS WISEMAN ON BEHALF OF HALO
WIRELESS, INC.**

FEBRUARY 8, 2012

Public Service Commission of Wisconsin
RECEIVED: 02/14/12, 2:03:02 PM

1 We acknowledge that the FCC has now thrown out all of the prior precedent and
2 apparently the FCC now believes ESPs are exchange access customers and do not originate calls.
3 I note that this still does not resolve the “end user” question: merely because ESPs now use
4 exchange access does not mean they are common carriers or provide telecommunications
5 service. The FCC has chosen to not expressly clarify the law on this interesting issue, but it did
6 not change the definition of “end user” which basically says if an entity is not a carrier then it is
7 an end user for access purposes.

8 But under the FCC’s new rules, “origination” is only relevant to whether a CMRS
9 provider’s traffic is “intraMTA” and therefore bill and keep. CMRS can provide and support
10 other traffic types. The task at hand is identify what the Halo traffic is under the new rules and
11 then determining the appropriate compensation result.

12 Halo and Transcom are related companies. But Halo must still operate under the rules
13 applicable to common carriers. We cannot interfere with or discriminate based on what our end
14 user customer is doing on its side before our end user customer *originates* (further or otherwise)
15 an end user call in an MTA.²¹ We believe all that matters is whether our traffic comes to us from
16 an end user employing a CMRS-based wireless facility in the same MTA.

17 **Q: Putting aside the question of where calls originate, what is your reaction to AT&T’s**
18 **and TDS’s assertions that calling party and called numbers are reliable ways to determine**
19 **where calls actually began, and are appropriate parameters to determine call jurisdiction**
20 **for call rating purposes?**

21 A: The FCC order says that numbers are unreliable for this purpose and we agree. My
22 reaction is that while the initial location of a call session initiation may be relevant to jurisdiction

²¹ An ILEC that is selling a private line to the end user customer might have reason to inquire whether the user is employing a “leaky PBX” in order to determine if the “leaky PBX surcharge” applies, but we are not a LEC.

1 based on the “end-to-end” theory, we do not believe it is determinative to call rating for our
2 CMRS traffic, with Transcom as an end user ESP customer. We established our business plan to
3 operate according to the prior rules relating to CMRS carriers, where traffic is originated by end
4 users (including ESPs) using wireless stations capable of movement at towers located in MTAs.
5 We also do not believe that the industry can continue to rely on the “calling party number” as
6 some indicator of where and on what network a call started. Numbers are not a reliable proxy for
7 location, nor can you assume that a call from a station associated with a particular number
8 actually started on the network of the exchange carrier that was allocated the number from
9 NANPA. My examples above conclusively demonstrate the folly of doing so.

10 In Ms. Robinson testimony, she asserts that using telephone numbers are a reliable way to
11 determine the geographic starting point for a call, the network the call originated on, the location
12 of the caller when making the call or whether a call involves “wireless.” This might have been
13 true 30 years ago when there were no IP networks and other advanced communication
14 applications that effectively disassociate telephone numbers from physical telephone lines,
15 switches and even networks. But today, the industry knows full well that advanced
16 communications technologies, both IP and wireless, are rendering it impossible to rely on CPN
17 to determine where a call began or the network owner or type of network that was used to initiate
18 the call. Allow me to provide a few more examples by elaborating on what I said earlier.

19 Carriers like T-Mobile offer services today that allow their wireless users to originate
20 calls using wireless base stations connected to wired broadband networks. Are calls using these
21 devices wireless or wireline originated? Is this “non-access” traffic or is it “access reciprocal
22 compensation”? Is it transit?

1 Verizon Wireless offers Home Phone Connect, a service that allows VZW customers to
2 port their home numbers to VZW and use traditional landline phones to make calls over their
3 wireless network. Is this a mobile wireless service? Fixed wireless? Wireline? Is this non-access
4 traffic or is it “access reciprocal compensation”? Is it transit? Would calls from a ported landline
5 number be viewed by a terminating LEC as a wireless call or a wireline call? We suspect the
6 latter as the CPN would be a landline telephone number. But these calls would all traverse the
7 VZW wireless network.

8 A growing trend today with smart phones is that wireless users today can use Skype or
9 GoogleVoice service as an application on a smart phone. Skype and GoogleVoice quite often
10 obtain numbers from CLEC “numbering partners” such as Level 3 or Bandwidth.com. Let’s
11 assume the numbering partner is Bandwidth.com. An AT&T Wireless customer can originate a
12 call while traveling in California using Skype on an AT&T-provided wireless smart phone. In
13 this example, as before Skype has sub-assigned a number from Level 3 (603-373-6xxx) in the
14 Milwaukee rate center to the AT&T Wireless user. The Skype user’s outbound call, let’s say to a
15 PSTN user served by a local exchange carrier such as AT&T, probably will not go out over
16 Level 3’s network, even though Level 3’s number will be signaled. It will be completed over
17 AT&T Wireless’s IP network and then go to Skype’s network and then be routed to a Skype
18 vendor to start the termination chain. The call, however, will appear to the AT&T LEC as a
19 wireline originated call, since the Calling Party Number is a “wireline” number. The ILECs
20 would claim this call started “on the PSTN” in Milwaukee, and Level 3 was the “originating
21 LEC.” However, those inferences would be incorrect. Since a smart phone was used, it would be
22 “wireless.” It started in California, not Wisconsin. Level 3 probably never touched the call at all
23 in any way. Finally it would be an IP-originated call and did not “originate on the PSTN.”

1 If the smart phone toting Skype user in California was calling someone in Wisconsin
2 within MTA 20 and LATA 354 (which includes Madison), our ESP end user Transcom could
3 very well receive it from one of its customers that have contracted with Skype. If so, Transcom
4 would process the call and hand it to Halo via Transcom's wireless CPE that is communicating
5 with our New Glarus, WI base station. Halo would hand the call off to AT&T at its
6 MDSNWII171T tandem. AT&T would then terminate or transit the call to the terminating
7 carrier.

8 The ILECs would probably "rate" this as an intraMTA, interLATA call, because they
9 would see it as a Milwaukee number calling a user within the same MTA, albeit different
10 LATAs, but they would probably claim it is "wireline" PSTN originated and therefore Halo is
11 not "authorized" to handle it, as the number is a wireline number. We previously would have
12 argued it is intraMTA because we received it from our end user customer at our base station in
13 MTA 20 and it terminated in MTA 20. We would have then and still do strongly disagree that it
14 was "wireline" PSTN originated. Under the new rules is this "non-access" traffic? Is it "access
15 reciprocal compensation"? Is it "transit"?

16 In the myopic world of the ILECs, these scenarios are fanciful, unlikely and irrelevant.
17 However, their cellular counterparts know differently. The entire telecommunications industry
18 knows differently. And most importantly, consumers know differently. Voice is now, and will
19 ever more further become, an IP "application, where telephone numbers "move" seamlessly
20 across devices and networks, just like music content in the "cloud" can be accessed on any
21 device, anywhere, at any time. Voice is really no different.

22 Because of these convergence trends, the FCC has supported, and now requires, traffic
23 factors to allocate between different traffic types precisely because of the fact that numbers have

1 been disassociated from networks and location and thus are not reliable.²² I think it is worth
2 noting that in proceedings in other states, notably Tennessee, Ms. Robinson admitted that the
3 approach of determining call jurisdiction for billing purposes from telephone numbers is flawed,
4 and does not result in a precise or accurate result. I think she described it as “the best we can do”,
5 or words to that effect. In her latest testimony she seems to “double down” on her commitment
6 to this flawed thinking by asserting that CMRS calls are interMTA based on the rate center of the
7 mobile telephone number of the calling party. Apparently roaming, and determining call
8 jurisdiction for rating purposes based on the location of the base station where the call originated,
9 are both unfamiliar concepts to Ms. Robinson.

10 Thus, TDS’s claim to be able to be able to reliably determine the “jurisdiction” of Halo’s
11 traffic for billing purposes, whether it is “wireline” or “wireless,” “intrastate” or “interstate,”
12 “intraMTA” or “interMTA,” and as the sole basis for deriving estimates of access charges due,
13 are unreliable at best, and likely skew the financial costs heavily in their favor. Ms. Robinson’s
14 approach is based on antiquated industry practices seasoned with healthy doses of self-serving
15 assumptions. However, this did not stop them from deriving impressively precise damages
16 figures based on these assumptions, or attempting to make adjustments to their figures based on
17 actual statistics on caller locations or the actual network or base station locations where calls

²² See, e.g. FCC Order ¶ 934 (“...In addition, given the recognized concerns with the use of telephone numbers and other call detail information to establish the geographic end-points of a call, we decline to mandate their use in that regard, as proposed by some commenters. ...”); ¶ 960 (“...Because telephone numbers and other call detail information do not always reliably establish the geographic end-points of a call, we do not mandate their use. ...”); ¶ 962 (“Contrary to some proposals, however, we do not require the use of particular call detail information to dispositively distinguish toll VoIP-PSTN traffic from other VoIP-PSTN traffic, given the recognized limitations of such information. For example, the Commission has recognized that telephone numbers do not always reflect the actual geographic end points of a call. Further, although our phantom traffic rules are designed to ensure the transmission of accurate information that can help enable proper billing of intercarrier compensation, standing alone, those rules do not ensure the transmission of sufficient information to determine the jurisdiction of calls in all instances. Rather, consistent with the tariffing regime for access charges discussed above, carriers today supplement call detail information as appropriate with the use of jurisdictional factors or the like when the jurisdiction of traffic cannot otherwise be determined. We find this approach appropriate here, as well.”)

1 began. I note that many of their characterizations also suffer from the problem that they do not
2 actually take all of the FCC's new rules into account.

3 From Halo's perspective, we designed our business plan to operate according to the rules
4 of CMRS carriers, where traffic is originated by end users, using wireless stations capable of
5 movement, at towers located in MTAs. We are prepared to operate under the FCC's new regime
6 (for so long as it is in effect pending appellate review) but we must be given a chance to bring
7 our arrangements and operations into compliance, and the full set of FCC rules must be
8 implemented. The ILECs cannot be allowed to cherry pick the rules they like, and ignore or
9 dismiss those they don't. Ms. Robinson's assertion that "billing for the entire industry is
10 determined on the basis of the originating and terminating end points of the called and calling
11 parties" is not true for the CMRS industry, and it is quickly dissolving in the entire telecom space
12 in the face of converged wireless-wireline and IP-based services. The "practice" is for carriers to
13 traffic factors instead of call-by-call rating, since numbers-based rating is no longer feasible in
14 today's advanced network and service environment where the starting and ending "locations" of
15 calls is hard to consistently, accurately and efficiently determine and the "number" consistently
16 yields an incorrect answer. The FCC's new regime calls for factors and we are willing to develop
17 and supply them.²³

18 Ms. Robinson's testimony makes it clear that the LECs are using the calling party
19 number to identify the "originating network" as well, and using this same information to
20 determine call jurisdiction for call rating, and for the amounts they claim they are due for access
21 charges. She apparently does not accept that the presence of a number in the signaling does not
22 mean the call originated on the network of the carrier that has been assigned that number. The

²³ I hope and trust that the PSC is also willing to implement the FCC's new rules because those rules also require the ILECs to negotiate in good faith to establish IP-based interconnection, and Halo is preparing to seek IP-based interconnection from AT&T and many of the ILECs involved in this proceeding.

1 inter-carrier compensation regime is not and cannot be founded on the assumption that you can
2 definitively determine the starting point of a call, the type of call, or the initial network based on
3 “the number.” I would further observe that reliance on the number as the exclusive rating
4 determinant is subject to the very outcomes the LECs want to avoid: gaming and arbitrage. It
5 was not that long ago that state commissions all over the country had to resolve the inter-carrier
6 compensation issues related to “arbitrage” using Virtual NXXs. The states largely adopted the
7 ILEC position in those cases and ruled that the telephone numbers did not control rating. The
8 ILECs insist on using numbers when it means they can claim access, but they have refused to use
9 numbers when it meant they do not get access. The PSC cannot be so arbitrary.

10 If the LECs are using the calling party number to identify the “originating network” our
11 position is this is not a reliable way to determine the starting location of a call, or the carrier
12 network that the call started on. Consequently, it seems to me that any inter-carrier compensation
13 regime founded on the assumption that you can definitively determine the starting point of a call
14 is fundamentally flawed and subject to the very outcomes the LECs want to avoid: gaming and
15 arbitrage. The fact of the matter is, wireline and wireless networks and services are converging,
16 rapidly, and in ways that blur the traditional, once clear distinctions of wireless and wireline.

17 For a converged IP service provider such as Halo, the starting network or the type of
18 number used simply does not matter. And even if it did, there is no way for us to definitively
19 determine where a call started, for the same reasons as mentioned above. Trying to maintain this
20 distinction is fighting a losing battle, and swimming against the strong tide of market, technical
21 and regulatory evolution occurring in the telecommunications industry.

22 **Q: If we assume that Judges Hale and Felsenthal were correct, and if all of the traffic**
23 **that traverses interconnection is originated by an end user in the MTA, what is your**

BEFORE THE PUBLIC SERVICE COMMISSION

STATE OF GEORGIA

IN RE: COMPLAINT OF TDS TELECOM ON BEHALF)	
OF ITS SUBSIDIARIES BLUE RIDGE TELEPHONE)	
COMPANY, CAMDEN TELEPHONE & TELEGRAPH)	
COMPANY, INC., NELSON-BALL GROUND)	
TELEPHONE COMPANY, AND QUINCY TELEPHONE)	
COMPANY, AGAINST HALO WIRELESS, INC.,)	DOCKET NO. 34219
TRANSCOM ENHANCED SERVICES, INC., AND)	
OTHER AFFILIATES FOR FAILURE TO PAY)	
TERMINATING INTRASTATE ACCESS CHARGES)	
FOR TRAFFIC AND FOR EXPEDITED)	
DECLARATORY RELIEF AND AUTHORITY TO)	
CEASE TERMINATION OF TRAFFIC)	
)	

PRE-FILED DIRECT TESTIMONY OF RUSS WISEMAN ON BEHALF OF HALO WIRELESS, INC.

MARCH 19, 2012

1 The ILECs, however, want to focus on what the High Volume customer does with the
2 mobile service it receives. They contend that merely because the customer does not actually
3 move the stations around, the service is somehow converted from “mobile” to “fixed.” This
4 argument inappropriately categorizes Halo’s regulatory status based on whether the customer
5 engages in the ILECs’ subjective standard for “sufficient” mobility.

6 **Q: What is your reaction to TDS’s and AT&T’s assertions that calling party and called**
7 **numbers are reliable ways to determine where calls actually began, and are appropriate**
8 **parameters to determine call jurisdiction for call rating purposes?**

9 A: The FCC order says in ¶¶ 934, 960, and 962 that the FCC still believes numbers are
10 unreliable for this purpose and we agree. My reaction is that while the initial location of a call
11 session initiation may be relevant to jurisdiction based on the “end-to-end” theory, we do not
12 believe it is determinative to call rating for our CMRS traffic, with Transcom as an end-user ESP
13 customer. We established our business plan to operate according to the prior rules relating to
14 CMRS carriers, where traffic is originated by end-users (including ESPs) using wireless stations
15 capable of movement at towers located in MTAs. We also do not believe that the industry can
16 continue to rely on the “calling party number” as some indicator of where and on what network a
17 call started. Numbers are not a reliable proxy for location, nor can you assume that a call from a
18 station associated with a particular number actually started on the network of the exchange
19 carrier that was allocated the number from NANPA.

20 Today, the industry knows full well that advanced communications technologies, both IP
21 and wireless, are rendering it impossible to rely on CPN to determine where a call began or the
22 network owner or type of network that was used to initiate the call. Allow me to provide a few
23 more examples by elaborating on what I said earlier.

1 Carriers like T-Mobile offer services today that allow their wireless users to originate
2 calls using wireless base stations connected to wired broadband networks. Are calls using these
3 devices wireless or wireline originated? Is this “non-access” traffic or is it “access reciprocal
4 compensation”? Is it transit?

5 Verizon Wireless offers Home Phone Connect, a service that allows VZW customers to
6 port their home numbers to VZW and use traditional landline phones to make calls over their
7 wireless network. Is this a mobile wireless service? Fixed wireless? Wireline? Is this non-access”
8 traffic or is it “access reciprocal compensation”? Is it transit? Would calls from a ported landline
9 number be viewed by a terminating LEC as a wireless call or a wireline call? We suspect the
10 latter as the CPN would be a landline telephone number. But these calls would all traverse the
11 VZW wireless network.

12 WZW just introduced a wireless broadband product called “Home Fusion” that is
13 “designed for use in rural and remote homes that can’t get DSL or cable.”¹ “The service requires
14 the installation of a cylindrical antenna, about the size of a 5-gallon bucket, on an outside wall.”
15 “Verizon cites the same speeds for HomeFusion as for LTE data sticks: 5 to 12 megabits per
16 second for downloads, and 2 to 5 megabits for uploads.” This is similar in capability to Halo’s
17 consumer broadband product, except VZW’s product is quite a bit more expensive. I am sure
18 that users can connect some form of soft phone client and make interconnected VoIP calls – just
19 like they can with Halo’s product. Does AT&T intend to claim that VZW cannot use
20 interconnection to originate or terminate calls to users employing this product? Is this a mobile
21 wireless service? Fixed wireless? Wireline? Is this “non-access” traffic or is it “access reciprocal
22 compensation”?

¹ See “Verizon launches faster-than-wired wireless broadband for homes; starts at \$60/mo,” Washington Post Online, Taken from Associated Press, March 5, 2012, available at http://www.washingtonpost.com/national/verizon-launches-faster-than-wired-wireless-broadband-for-homes-starts-at-60mo/2012/03/06/gIQAQDvYvtR_story.html.

1 A growing trend today with smart phones is that wireless users today can use Skype or
2 GoogleVoice service as an application on a smart phone. Skype and GoogleVoice quite often
3 obtain numbers from CLEC “numbering partners” such as Level 3 or Bandwidth.com. Let’s
4 assume the numbering partner is Bandwidth.com. An AT&T Wireless customer can originate a
5 call while traveling in California using Skype on an AT&T-provided wireless smart phone. In
6 this example, Skype will have sub-assigned a number from Level 3 that is associated with some
7 rate center to the AT&T Wireless user. The Skype user’s outbound call, let’s say to a PSTN user
8 served by a local exchange carrier such as AT&T, probably will not go out over Level 3’s
9 network, even though Level 3’s number will be signaled. It will be completed over AT&T
10 Wireless’s IP network and then go to Skype’s network and then be routed to a Skype vendor to
11 start the termination chain. The call, however, will appear to the AT&T LEC as a wireline
12 originated call, since the Calling Party Number is a “wireline” number. The ILECs would claim
13 this call started “on the PSTN” in the rate center to which the Skype user’s “wireline” number is
14 associated and that Level 3 was the “originating LEC.” However, those inferences would be
15 incorrect. Since a smart phone was used, it would be “wireless.” It started wherever the Skype
16 user happens to be at the moment. Level 3 probably never touched the call at all in any way.
17 Finally it would be an IP-originated call and would not “originate on the PSTN.”

18 If the smart phone toting Skype user was calling someone in Atlanta, Georgia within
19 MTA 11, LATA 438, our ESP end-user Transcom could very well receive it from one of its
20 customers that have contracted with Skype. If so, Transcom would process the call and hand it to
21 Halo via Transcom’s wireless CPE that is communicating with our Cartersville, GA base station.
22 Halo would hand the call off to AT&T at its NRCRGAMA02T tandem, AT&T would then
23 terminate or transit the call to the terminating carrier.

1 AT&T would want to “rate” this call based on the calling and called numbers and their
2 associated rate centers and they would claim it is “wireline” PSTN originated and therefore Halo
3 is not “authorized” to handle it, as the number is a wireline number. We previously would have
4 argued it is intraMTA because we received it from our end-user customer at our base station in
5 MTA 11 and it terminated in MTA 11. We would have then and still do strongly disagree that it
6 was “wireline” PSTN originated. Under the new rules is this “non-access” traffic? Is it “access
7 reciprocal compensation”? Is it “transit”?

8 In the myopic world of the ILECs, these scenarios are fanciful, unlikely and irrelevant.
9 However, their cellular counterparts know differently. The entire telecommunications industry
10 knows differently. And most importantly, consumers know differently. Voice is now, and will
11 further become, an IP “application,” where telephone numbers “move” seamlessly across devices
12 and networks, just like music content in the “cloud” can be accessed on any device, anywhere, at
13 any time. Voice is really no different.

14 Because of these convergence trends, the FCC has supported, and now requires, traffic
15 factors to allocate between different traffic types precisely because of the fact that numbers have
16 been disassociated from networks and location and thus are not reliable.²

²See, e.g. FCC Order ¶ 934 (“...In addition, given the recognized concerns with the use of telephone numbers and other call detail information to establish the geographic end-points of a call, we decline to mandate their use in that regard, as proposed by some commenters. ...”); ¶ 960 (“...Because telephone numbers and other call detail information do not always reliably establish the geographic end-points of a call, we do not mandate their use. ...”); ¶ 962 (“Contrary to some proposals, however, we do not require the use of particular call detail information to dispositively distinguish toll VoIP-PSTN traffic from other VoIP-PSTN traffic, given the recognized limitations of such information. For example, the Commission has recognized that telephone numbers do not always reflect the actual geographic end points of a call. Further, although our phantom traffic rules are designed to ensure the transmission of accurate information that can help enable proper billing of intercarrier compensation, standing alone, those rules do not ensure the transmission of sufficient information to determine the jurisdiction of calls in all instances. Rather, consistent with the tariffing regime for access charges discussed above, carriers today supplement call detail information as appropriate with the use of jurisdictional factors or the like when the jurisdiction of traffic cannot otherwise be determined. We find this approach appropriate here, as well.”)

1 From Halo's perspective, we designed our business plan to operate according to the rules
2 of CMRS carriers, where traffic is originated by end-users, using wireless stations capable of
3 movement, at towers located in MTAs. We are prepared to operate under the FCC's new regime
4 (for so long as it is in effect pending appellate review) but we must be given a chance to bring
5 our arrangements and operations into compliance, and the full set of FCC rules must be
6 implemented. The ILECs cannot be allowed to cherry pick the rules they like, and ignore or
7 dismiss those they don't. The idea that billing for the entire industry is determined on the basis of
8 the originating and terminating end points of the called and calling parties is not true for the
9 CMRS industry, and it is quickly dissolving in the entire telecom space in the face of converged
10 wireless-wireline and IP-based services. The "practice" is for carriers to traffic factors instead of
11 call-by-call rating, since numbers-based rating is no longer feasible in today's advanced network
12 and service environment where the starting and ending "locations" of calls is hard to
13 consistently, accurately and efficiently determine and the "number" consistently yields an
14 incorrect answer. The FCC's new regime calls for factors and we are willing to develop and
15 supply them.³

16 The inter-carrier compensation regime is not and cannot be founded on the assumption
17 that you can definitively determine the starting point of a call, the type of call, or the initial
18 network based on "the number." I would further observe that reliance on the number as the
19 exclusive rating determinant is subject to the very outcomes the LECs want to avoid: gaming and
20 arbitrage. It was not that long ago that state commissions all over the country had to resolve the
21 inter-carrier compensation issues related to "arbitrage" using Virtual NXXs. The states largely
22 adopted the ILEC position in those cases and ruled that the telephone numbers did not control

³ I hope and trust that the PSC is also willing to implement the FCC's new rules because those rules also require the ILECs to negotiate in good faith to establish IP-based interconnection, and Halo is preparing to seek IP-based interconnection from AT&T and many of the ILECs involved in this proceeding.

1 rating. The ILECs insist on using numbers when it means they can claim access, but they have
2 refused to use numbers when it meant they do not get access. The PSC cannot be so arbitrary.

3 If the LECs are using the calling party number to identify the “originating network,” our
4 position is this is not a reliable way to determine the starting location of a call, or the carrier
5 network that the call started on. Consequently, it seems to me that any inter-carrier compensation
6 regime founded on the assumption that you can definitively determine the starting point of a call
7 is fundamentally flawed and subject to the very outcomes the LECs want to avoid: gaming and
8 arbitrage. The fact of the matter is, wireline and wireless networks and services are converging,
9 rapidly, and in ways that blur the traditional, once clear distinctions of wireless and wireline.

10 For a converged IP service provider such as Halo, the starting network or the type of
11 number used simply does not matter. And even if it did, there is no way for us to definitively
12 determine where a call started, for the same reasons as mentioned above. Trying to maintain this
13 distinction is fighting a losing battle, and swimming against the strong tide of market, technical
14 and regulatory evolution occurring in the telecommunications industry.

15 The bottom line is that the ILECs’ case rests on a host of completely unsupportable
16 assumptions about the nature, type and jurisdiction of calls that are entirely drawn from merely
17 looking at the calling and called telephone numbers. The assumptions they use to form
18 conclusions on the characterization of the call, the type of call, the jurisdiction, the location of
19 the end points, the networks involved and the actual services that are being provided are simply
20 *wrong*. Yet they are asking this Commission to use their assumptions and conclusions to justify
21 finding that Halo has acted inappropriately, owes access charges and as the basis for the amount
22 of access charges due or “damages” they are incurring.

23

1 Q: Let's return to the CPE that Halo's customers use. Can you explain a bit more
2 about the units Halo and its customers employ, and how that is changing?

3 A: Halo had intended to offer what some might see as a more traditional "mobile" CPE
4 device than the devices in use today, but its wireless equipment vendor failed to deliver this CPE
5 as promised at the time Halo was turning up its High Volume services. If it is somehow
6 determined that the current wireless stations do not meet the FCC's test for "mobility" then Halo
7 can now replace the devices presently in use with devices that conform to the rules, as these
8 devices have become available since Halo's service launch.

9 Q: How do you respond to AT&T and TDS's claims that Halo is not originating
10 wireless traffic, Transcom is not an ESP, and instead all of Halo's traffic is "originating"
11 landline traffic subject to access charges?

12 A: Our argument regarding the period before the FCC's new rules rests on the status of
13 Transcom as an Enhanced Service Provider. I am not a lawyer, but my layman's interpretation is
14 that ESP status conveys four important attributes that are at the heart of classifying Halo's
15 traffic: ESP's are "end-users", who purchase telephone exchange services, whose traffic is not
16 access traffic, and are users that originate and terminate traffic. In other words, since ESPs are
17 not carriers or IXCs, their traffic cannot be treated as if an IXC is involved. Further, when a
18 company like Halo provides Telephone Exchange Service to an ESP it is not providing a
19 "transit" service since Halo is not switching calls between two carriers.⁴

20 The ILECs say that Halo is arguing that Transcom's involvement creates a "re-
21 origination." That is a mischaracterization. Our argument is that Transcom – like all ESPs – is a
22 communications-intensive business end-user, that takes communications from Transcom's

⁴ I will explain the impact of the FCC order and new rules below, by accepting the FCC's characterizations and applying them to our context.

