

R-2014-2440776

HYPERCUBE TELECOM, LLC

Supplement No. 7  
Telephone PA P.U.C. Tariff No. 4  
7<sup>th</sup> Revised Title Page 1  
Cancels 6<sup>th</sup> Revised Title Page 1

ACCESS SERVICES

REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
FOR CONNECTION TO COMMUNICATIONS FACILITIES WITHIN  
THE COMMONWEALTH OF PENNSYLVANIA

This Tariff contains the description, regulations and rates for the furnishing of switched access services provided by Hypercube Telecom, LLC, throughout the Commonwealth of Pennsylvania. The principal offices of Hypercube are located at: 3200 W. Pleasant Run Road, Suite 300, Lancaster, Texas 75146. This Tariff applies for service furnished within the Commonwealth of Pennsylvania, in the Verizon-Pennsylvania LLC territories, Verizon North LLC territories and the United Telephone Company d/b/a CenturyLink territories. This tariff is on file with the Pennsylvania Public Utility Commission, located at 400 North Street, 2<sup>nd</sup> Floor, Commonwealth Keystone Building, Harrisburg, PA 17120. Copies may be inspected, during normal business hours, at the Company's principal place of business in Lancaster, Texas. The Company's Tariff is in concurrence with all applicable State and Federal Laws (including but not limited to, 52 Pa. Code, 66 Pa. C.S., the Telecommunications Act of 1996), and with the Commissions applicable Rules and Regulations and Orders. Any provisions contained in this Tariff that are inconsistent with the foregoing mentioned will be deemed inoperative and superseded.

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6<sup>th</sup> Revised Title Page I  
Cancels 5<sup>th</sup> Revised Title Page I

ACCESS SERVICES

REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
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PA PUBLIC UTILITY COMMISSION  
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6<sup>th</sup> Revised Title Page 1  
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ACCESS SERVICES

REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
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5<sup>th</sup> Revised Title Page 1  
Cancels 4<sup>th</sup> Revised Title Page 1

ACCESS SERVICES

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REGULATION AND SCHEDULE OF INTRASTATE CHARGES <sup>PA</sup> PUBLIC UTILITY COMMISSION  
GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
SECRETARY'S BUREAU  
FOR CONNECTION TO COMMUNICATIONS FACILITIES WITHIN  
THE COMMONWEALTH OF PENNSYLVANIA

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4<sup>th</sup> Revised Title Page 1  
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ACCESS SERVICES

REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
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ACCESS SERVICES

REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
FOR CONNECTION TO COMMUNICATIONS FACILITIES WITHIN  
THE COMMONWEALTH OF PENNSYLVANIA

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2<sup>nd</sup> Revised Title Page 1  
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ACCESS SERVICES

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SECRETARY'S BUREAU

REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
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3200 W. Pleasant Run Road, Suite 300  
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ACCESS SERVICES

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GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
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ACCESS SERVICES

REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
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This Tariff contains the description, regulations and rates for the furnishing of switched access services provided by Hypercube Telecom, LLC, throughout the State of Pennsylvania. The principal offices of HYPERCUBE are located at: 5300 Oakbrook Parkway, Bldg 300, Suite 330, Norcross, GA 30093. This Tariff applies for service furnished within the Commonwealth of Pennsylvania, in the Philadelphia service territories of Bell Atlantic-PA, Zones 1, 2, 3, 4, 14, 25, 26, 28, 30, 31, 33, 34; and in the Pittsburgh service territories of Bell Atlantic-PA, Zones 1, 2, 3, 4, 6, 7, 8, 14, 22. This tariff is on file with the Pennsylvania Public Utility Commission, located at 400 North Street, Commonwealth Keystone Building, P.O. Box No. 3265, Harrisburg, PA 17105-3265, phone number (717) 783-5187, 1-800-782-1110 and Fax number (717) 787-4750. Copies may be inspected, during normal business hours, at the Company's principal place of business in Norcross, GA. The Company's Tariff is in concurrence with all applicable State and Federal Laws (including but not limited to, 52 Pa. Code, 66 Pa. C.S., the Telecommunications Act of 1996), and with the Commissions applicable Rules and Regulations and Orders. Any provisions contained in this Tariff that are inconsistent with the foregoing mentioned will be deemed inoperative and superseded.

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**ACCESS SERVICES**

**REGULATION AND SCHEDULE OF INTRASTATE CHARGES  
GOVERNING THE PROVISION OF SWITCHED ACCESS SERVICES  
FOR CONNECTION TO COMMUNICATIONS FACILITIES WITHIN  
THE STATE OF PENNSYLVANIA**

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Vice President of Government Affairs  
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5<sup>th</sup> Revised Page 1.1  
Cancels 4<sup>th</sup> Revised Page 1.1

ACCESS SERVICES

LIST OF MODIFICATIONS

- 7<sup>th</sup> Revised Title Page 1      Updates Title Page 1
- 5<sup>th</sup> Revised Page 1.1        Updates List of Modifications
- 7<sup>th</sup> Revised Page 2         Updates Check Sheet
- 1<sup>st</sup> Revised Page 46.1      Revises terminating switched access rates

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4<sup>th</sup> Revised Page 1.1  
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ACCESS SERVICES

LIST OF MODIFICATIONS

2 <sup>nd</sup> Revised Title Page 1	Updates Title Page 1
6 <sup>th</sup> Revised Title Page 1	Updates Title Page 1
4 <sup>th</sup> Revised Page 1.1	Updates List of Modifications
6 <sup>th</sup> Revised Page 2	Updates Check Sheet
3 <sup>rd</sup> Revised Page 46	Revises switched access rates to implement Step 3 of the FCC's ICC/USF reform tariff filings
Original Page 46.1	Revises switched access rates to implement Step 3 of the FCC's ICC/USF reform tariff filings
2 <sup>nd</sup> Revised Page 47	Revises switched access rates to implement Step 3 of the FCC's ICC/USF reform tariff filings

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ACCESS SERVICES

LIST OF MODIFICATIONS

6 <sup>th</sup> Revised Title Page 1	Updates Title Page 1
4 <sup>th</sup> Revised Page 1.1	Updates List of Modifications
6 <sup>th</sup> Revised Page 2	Updates Check Sheet
3 <sup>rd</sup> Revised Page 46	Revises switched access rates to implement Step 3 of the FCC's ICC/USF reform tariff filings
Original Page 46.1	Revises switched access rates to implement Step 3 of the FCC's ICC/USF reform tariff filings
2 <sup>nd</sup> Revised Page 47	Revises switched access rates to implement Step 3 of the FCC's ICC/USF reform tariff filings

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3<sup>rd</sup> Revised Page 1.1  
Cancels 2<sup>nd</sup> Revised Page 1.1

**ACCESS SERVICES**

**LIST OF MODIFICATIONS**

- 5<sup>th</sup> Revised Title Page 1    Updates Title Page 1
- 3<sup>rd</sup> Revised Page 1.1    Updates List of Modifications
- 5<sup>th</sup> Revised Page 2    Updates Check Sheet
- 2<sup>nd</sup> Revised Page 25.3    Revises VoIP-PSTN language
- 2<sup>nd</sup> Revised Page 25.4    Adds text to Calculation and Application of Percent-VoIP-PTSN Usage Factors; moves text
- Original Page 25.4.1    Location for moved text
- 2<sup>nd</sup> Revised Page 46    Revises intrastate switched access rates to reference interstate tariff rates shown in the intrastate tariff in Section 4.4.4

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2<sup>nd</sup> Revised Page 1.1  
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ACCESS SERVICES

LIST OF MODIFICATIONS

- 4<sup>th</sup> Revised Title Page 1     Updates Title Page 1
- 2<sup>nd</sup> Revised Page 1.1        Updates List of Modifications
- 4<sup>th</sup> Revised Page 2            Updates Check Sheet
- 1<sup>st</sup> Revised Page 25.1        Revises VoIP-PSTN language
- 1<sup>st</sup> Revised Page 25.3        Revises VoIP-PSTN language
- 1<sup>st</sup> Revised Page 25.4        Revises VoIP-PSTN language

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ACCESS SERVICES

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- 3<sup>rd</sup> Revised Title Page 1 Updates Title Page 1
- 1<sup>st</sup> Revised Page 1.1 Updates List of Modifications
- 3<sup>rd</sup> Revised Page 2 Updates Check Sheet
- 1<sup>st</sup> Revised Page 46 Revises Switched Access rate structure; reduces terminating switched access rates

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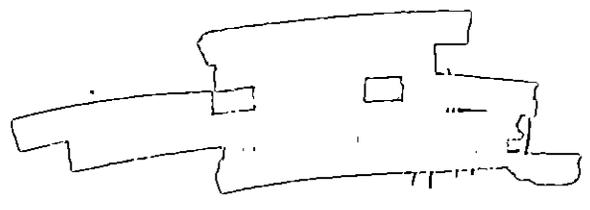
ACCESS SERVICES

LIST OF MODIFICATIONS

2 <sup>nd</sup> Revised Title Page 1	Adds Supplemental No. 2 Title Page 1
Original Page 1.1	Adds List of Modifications Page 1.1
2 <sup>nd</sup> Revised Page 2	Updates Check Sheet
1 <sup>st</sup> Revised Page 6	Moves text
Original Page 6.1	Location for moved text; revises definition
1 <sup>st</sup> Revised Page 7	Moves text; adds VoIP-PSTN definitions
Original Page 7.1	Location for moved text
1 <sup>st</sup> Revised Page 9	Adds VoIP-PSTN definitions
Original Page 25.1	Adds VoIP-PSTN provisions
Original Page 25.2	Adds VoIP-PSTN provisions
Original Page 25.3	Adds VoIP-PSTN provisions
Original Page 25.4	Adds VoIP-PSTN provisions
Original Page 25.5	Adds VoIP-PSTN provisions
1 <sup>st</sup> Revised Page 47	Adds Application of Access Charges to Toll VoIP-PSTN Traffic
Original Page 47.1	Adds Application of Access Charges to Toll VoIP-PSTN Traffic

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1 <sup>st</sup> Revised Title Page 1	Original Title Page 1
1 <sup>st</sup> Revised Title Page 1	Adds Supplemental No. 2 Title Page 1
Original Page 1.1	Adds List of Modifications Page 1.1
2 <sup>nd</sup> Revised Page 2	Updates Check Sheet
1 <sup>st</sup> Revised Page 6	Moves text
Original Page 6.1	Location for moved text; revises definition
1 <sup>st</sup> Revised Page 7	Moves text; adds VoIP-PSTN definitions
Original Page 7.1	Location for moved text
1 <sup>st</sup> Revised Page 9	Adds VoIP-PSTN definitions
Original Page 25.1	Adds VoIP-PSTN provisions
Original Page 25.2	Adds VoIP-PSTN provisions
Original Page 25.3	Adds VoIP-PSTN provisions
Original Page 25.4	Adds VoIP-PSTN provisions
Original Page 25.5	Adds VoIP-PSTN provisions
1 <sup>st</sup> Revised Page 47	Adds Application of Access Charges to Toll VoIP-PSTN Traffic

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7<sup>th</sup> Revised Page 2  
Cancels 6<sup>th</sup> Revised Page 2

ACCESS SERVICES

CHECK SHEET

Sheets of this tariff are effective as of the date shown at the bottom of the respective sheet(s). Original and revised sheets as named below comprise all changes from the original tariff and are currently in effect as of the date on the bottom of this sheet.

<u>SHEET</u>	<u>REVISION</u>		<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>
Title 1	2 <sup>nd</sup>		26	Original	51	Original
Title 1	7 <sup>th</sup>	*	27	Original	52	Original
1.1	5 <sup>th</sup>	*	28	Original		
2	7 <sup>th</sup>	*	29	Original		
3	Original		30	Original		
4	Original		31	Original		
5	Original		32	Original		
6	1 <sup>st</sup>		33	Original		
6.1	Original		34	Original		
7	1 <sup>st</sup>		35	Original		
7.1	Original		36	Original		
8	Original		37	Original		
9	1 <sup>st</sup>		38	Original		
10	Original		39	Original		
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13	Original		42	Original		
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16	Original		45	Original		
17	Original		46	3 <sup>rd</sup>		
18	Original		46.1	1 <sup>st</sup>	*	
19	Original		47	2 <sup>nd</sup>		
20	Original		47.1	Original		
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22	Original		49	Original		
23	Original		50	Original		
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25	Original					
25.1	1 <sup>st</sup>					
25.2	Original					
25.3	2 <sup>nd</sup>					
25.4	2 <sup>nd</sup>					
25.4.1	Original					
25.5	Original					

Cancelled  
By  
8<sup>th</sup> Revised Page No. 2  
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OFFICIALLY FILED TARIFF

Issued: September 3, 2014

Effective: October 3, 2014

Issued by: Tariff Manager  
Lancaster, TX 75146

PAa1404

R-2014-2424395

HYPERCUBE TELECOM, LLC

Supplement No. 6  
Telephone PA P.U.C. Tariff No. 4  
6<sup>th</sup> Revised Page 2  
Cancels 5<sup>th</sup> Revised Page 2

ACCESS SERVICES

CHECK SHEET

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<u>SHEET</u>	<u>REVISION</u>		<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>
Title I	2 <sup>nd</sup>	*	26	Original	51	Original
Title I	6 <sup>th</sup>	*	27	Original	52	Original
1.1	4 <sup>th</sup>	*	28	Original		
2	6 <sup>th</sup>	*	29	Original		
3	Original		30	Original		
4	Original		31	Original		
5	Original		32	Original		
6	1 <sup>st</sup>		33	Original		
6.1	Original		34	Original		
7	1 <sup>st</sup>		35	Original		
7.1	Original		36	Original		
8	Original		37	Original		
9	1 <sup>st</sup>		38	Original		
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15	Original		44	Original		
16	Original		45	Original		
17	Original		46	3 <sup>rd</sup>	*	
18	Original		46.1	Original	*	
19	Original		47	2 <sup>nd</sup>	*	
20	Original		47.1	Original		
21	Original		48	Original		
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23	Original		50	Original		
24	Original					
25	Original					
25.1	1 <sup>st</sup>					
25.2	Original					
25.3	2 <sup>nd</sup>					
25.4	2 <sup>nd</sup>					
25.4.1	Original					
25.5	Original					

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By  
7<sup>th</sup> Revised Page No. 2  
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Lancaster, TX 75146

PAa1401

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R-2014-2424395

HYPERCUBE TELECOM, LLC

Supplement No. 6  
Telephone PA P.U.C. Tariff No. 4  
6<sup>th</sup> Revised Page 2  
Cancels 5<sup>th</sup> Revised Page 2

ACCESS SERVICES

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<u>SHEET</u>	<u>REVISION</u>		<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>
Title 1	1 <sup>st</sup>		26	Original	51	Original
Title 1	6 <sup>th</sup>	*	27	Original	52	Original
1.1	4 <sup>th</sup>	*	28	Original		
2	6 <sup>th</sup>	*	29	Original		
3	Original		30	Original		
4	Original		31	Original		
5	Original		32	Original		
6	1 <sup>st</sup>		33	Original		
6.1	Original		34	Original		
7	1 <sup>st</sup>		35	Original		
7.1	Original		36	Original		
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16	Original		45	Original		
17	Original		46	3 <sup>rd</sup>	*	
18	Original		46.1	Original	*	
19	Original		47	2 <sup>nd</sup>	*	
20	Original		47.1	Original		
21	Original		48	Original		
22	Original		49	Original		
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25	Original					
25.1	1 <sup>st</sup>					
25.2	Original					
25.3	2 <sup>nd</sup>					
25.4	2 <sup>nd</sup>					
25.4.1	Original					
25.5	Original					

Cancelled Changes  
By  
Revised Page No.  
Effective

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R-2013-2366887

HYPERCUBE TELECOM, LLC

Supplement No. 5  
Telephone PA P.U.C. Tariff No. 4  
5<sup>th</sup> Revised Page 2  
Cancels 4<sup>th</sup> Revised Page 2

ACCESS SERVICES

CHECK SHEET

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<u>SHEET</u>	<u>REVISION</u>		<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>
Title 1	1 <sup>st</sup>		26	Original	51	Original
Title 1	5 <sup>th</sup>	*	27	Original	52	Original
1.1	3 <sup>rd</sup>	*	28	Original		
2	5 <sup>th</sup>	*	29	Original		
3	Original		30	Original		
4	Original		31	Original		
5	Original		32	Original		
6	1 <sup>st</sup>		33	Original		
6.1	Original		34	Original		
7	1 <sup>st</sup>		35	Original		
7.1	Original		36	Original		
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10	Original		39	Original		
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17	Original		46	2 <sup>nd</sup>		
18	Original		47	1 <sup>st</sup>		
19	Original		47.1	Original		
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25.2	Original					
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25.4	2 <sup>nd</sup>	*				
25.4.1	Original	*				
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6<sup>th</sup> Revised Page No. 2  
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R-2012-2310987

HYPERCUBE TELECOM, LLC

Supplement No. 4  
Telephone PA P.U.C. Tariff No. 4  
4<sup>th</sup> Revised Page 2  
Cancels 3<sup>rd</sup> Revised Page 2

ACCESS SERVICES

CHECK SHEET

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<u>SHEET</u>	<u>REVISION</u>		<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>
Title I	1 <sup>st</sup>		26	Original	51	Original
Title I	4 <sup>th</sup>	*	27	Original	52	Original
1.1	2 <sup>nd</sup>	*	28	Original		
2	4 <sup>th</sup>	*	29	Original		
3	Original		30	Original		
4	Original		31	Original		
5	Original		32	Original		
6	1 <sup>st</sup>		33	Original		
6.1	Original		34	Original		
7	1 <sup>st</sup>		35	Original		
7.1	Original		36	Original		
8	Original		37	Original		
9	1 <sup>st</sup>		38	Original		
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17	Original		46	1 <sup>st</sup>		
18	Original		47	1 <sup>st</sup>		
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25.1	1 <sup>st</sup>	*				
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25.3	1 <sup>st</sup>	*				
25.4	1 <sup>st</sup>	*				
25.5	Original					

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By  
5<sup>th</sup> Revised Page No. 2  
Effective 7/1/13

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Lancaster, TX 75146

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R-2012-2308298

ACCESS SERVICES

CHECK SHEET

Sheets of this tariff are effective as of the date shown at the bottom of the respective sheet(s). Original and revised sheets as named below comprise all changes from the original tariff and are currently in effect as of the date on the bottom of this sheet.

<u>SHEET</u>	<u>REVISION</u>		<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>
Title 1	1 <sup>st</sup>		26	Original	51	Original
Title 1	3 <sup>rd</sup>	*	27	Original	52	Original
1.1	1 <sup>st</sup>	*	28	Original		
2	3 <sup>rd</sup>	*	29	Original		
3	Original		30	Original		
4	Original		31	Original		
5	Original		32	Original		
6	1 <sup>st</sup>		33	Original		
6.1	Original		34	Original		
7	1 <sup>st</sup>		35	Original		
7.1	Original		36	Original		
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9	1 <sup>st</sup>		38	Original		
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13	Original		42	Original		
14	Original		43	Original		
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16	Original		45	Original		
17	Original		46	1 <sup>st</sup>		
18	Original		47	1 <sup>st</sup>		
19	Original		47.1	Original		
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By  
4<sup>th</sup> Revised Page No. 2  
Effective 7/22/12

OFFICIALLY FILED TARIFF

Issued: June 1, 2012

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Issued by: Tariff Manager  
Lancaster, Texas 75146

PAa1202

R-2012-22838 17

HYPERCUBE TELECOM, LLC

Supplement No. 2  
Telephone PA P.U.C. Tariff No. 4  
2<sup>nd</sup> Revised Page 2  
Cancels 1<sup>st</sup> Revised Page 2

ACCESS SERVICES

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Title 1	1 <sup>st</sup> Revised	26	Original	51	Original
Title 1	2 <sup>nd</sup> Revised *	27	Original	52	Original
1.1	Original	28	Original		
2	2 <sup>nd</sup> Revised *	29	Original		
3	Original	30	Original		
4	Original	31	Original		
5	Original	32	Original		
6	1 <sup>st</sup> Revised *	33	Original		
6.1	Original	34	Original		
7	1 <sup>st</sup> Revised *	35	Original		
7.1	Original	36	Original		
8	Original	37	Original		
9	1 <sup>st</sup> Revised *	38	Original		
10	Original	39	Original		
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14	Original	43	Original		
15	Original	44	Original		
16	Original	45	Original		
17	Original	46	Original		
18	Original	47	1 <sup>st</sup> Revised *		
19	Original	48	Original		
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25.1	Original *				
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25.4	Original *				
25.5	Original *				

**VOL. POSTPONE TO  
MAR 16 2012**

Cancelled  
By  
3<sup>rd</sup> Revised Page No. 8  
Effective 7/1/12

OFFICIALLY FILED TARIFF

Issued: January 13, 2012

Effective: February 16, 2012

Issued by: Tariff Manager  
Lancaster, TX 75146

PAa1201

ACCESS SERVICES

CHECK SHEET

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<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>	<u>SHEET</u>	<u>REVISION</u>
Title 1	1 <sup>st</sup> Revised *	26	Original	51	Original
Title 1	2 <sup>nd</sup> Revised *	27	Original	52	Original
1.1	Original	28	Original		
2	2 <sup>nd</sup> Revised *	29	Original		
3	Original	30	Original		
4	Original	31	Original		
5	Original	32	Original		
6	1 <sup>st</sup> Revised *	33	Original		
6.1	Original *	34	Original		
7	1 <sup>st</sup> Revised *	35	Original		
7.1	Original *	36	Original		
8	Original	37	Original		
9	1 <sup>st</sup> Revised *	38	Original		
10	Original	39	Original		
111	Original	40	Original		
12	Original	41	Original		
13	Original	42	Original		
14	Original	43	Original		
15	Original	44	Original		
16	Original	45	Original		
17	Original	46	Original		
18	Original	47	1 <sup>st</sup> Revised *		
19	Original	48	Original		
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25.1	Original *				
25.2	Original *				
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25.5	Original *				

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By  
Revised Page No.  
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OFFICIALLY FILED TARIFF

Issued: January 17, 2012

Effective: February 16, 2012

Issued by: Tariff Manager  
Lancaster, TX 75146

PAa1201

A-311124

HYPERCUBE TELECOM, LLC

Supplement #1  
Telephone PA P.U.C. Tariff No. 4  
1<sup>st</sup> Revised Page 2  
Cancels Original Page 2

ACCESS SERVICES

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SHEET	REVISION	SHEET	REVISION	SHEET	REVISION
1	1 <sup>st</sup> Revised*	26	Original	51	Original
2	1 <sup>st</sup> Revised*	27	Original	52	Original
3	Original	28	Original		
4	Original	29	Original		
5	Original	30	Original		
6	Original	31	Original		
7	Original	32	Original		
8	Original	33	Original		
9	Original	34	Original		
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11	Original	36	Original		
12	Original	37	Original		
13	Original	38	Original		
14	Original	39	Original		
15	Original	40	Original		
16	Original	41	Original		
17	Original	42	Original		
18	Original	43	Original		
19	Original	44	Original		
20	Original	45	Original		
21	Original	46	Original		
22	Original	47	Original		
23	Original	48	Original		
24	Original	49	Original		
25	Original	50	Original		

OFFICIALLY FILED TARIFF

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Issued: October 6, 2008

Effective: October 7, 2008

Issued By: James M. Mertz  
Vice President of Government Affairs  
Hypercube Telecom, LLC  
5300 Oakbrook Parkway  
Bldg 300, Suite 330  
Norcross, GA 30093

R-2012-228387

ACCESS SERVICES

SECTION 1 - DEFINITIONS

Certain terms used generally throughout this tariff for the Access Services of this Company are defined below.

Access Code - A uniform seven digit code assigned by a Common Carrier to an individual customer. The seven digit code has the form 950-XXXX or 101XXXX

Access Service - Switched Access to the network of an Interexchange Carrier for the purpose of originating or terminating communications.

Access Service Request (ASR) - The industry service order format used by Access Service Customers and access providers as agreed to by the Ordering and Billing Forum.

Access Tandem - A switching system that provides traffic concentration and distribution function for originating or terminating traffic as an intermediate carrier between other switching facilities that originate or terminate calls to or from an End User,

Authorized User - A person, firm, corporation or other entity that either is authorized by the Customer to use Access Services or is placed in a position by the Customer, either through acts or omissions, to use Access Services.

Carrier or Common Carrier - See Interexchange Carrier or Exchange Carrier.

CMRS - Commercial Mobile Radio Service

Co-Carrier - Any other Telecommunications provider authorized by the Commission to provide local exchange service in the state.

Commission - The Pennsylvania Public Utility Commission

Common Channel Signaling (CCS) - A high-speed packet switched communications network which is separate (out of band) from the public packet switched and message networks. It is used to carry addressed signaling messages for individual trunk circuits and/or database related services between signaling points in the CCS network.

Cancelled  
By  
Revised Page No.  
Effective

*Revised  
pages*

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Certain material previously located on this page is now found on Page 6.1

OFFICIALLY FILED TARIFF

Issued: January 17, 2012 Effective: February 16, 2012

Issued by: Tariff Manager  
Lancaster, TX 75146 PAa1201

R-00061790

KMC Data, LLC

Telephone PA P.U.C. Tariff No. 4  
Canceling Telephone PA P.U.C. Tariff No. 3  
Original Page 6

**ACCESS SERVICES**

**SECTION 1 - DEFINITIONS**

Certain terms used generally throughout this tariff for the Access Services of this Company are defined below.

Access Code: A uniform seven digit code assigned by a Common Carrier to an individual customer. The seven digit code has the form 950-XXXX or 101XXXX.

Access Service: Switched Access to the network of an Interexchange Carrier for the purpose of originating or terminating communications.

Access Service Request (ASR): The industry service order format used by Access Service Customers and access providers as agreed to by the Ordering and Billing Forum.

Access Tandem: A switching system that provides traffic concentration and distribution function for originating or terminating traffic as an intermediate carrier between other switching facilities that originate or terminate calls to or from an End User.

Authorized User: A person, firm, corporation or other entity that either is authorized by the Customer to use Access Services or is placed in a position by the Customer, either through acts or omissions, to use Access Services.

Carrier or Common Carrier: See Interexchange Carrier or Exchange Carrier.

CMRS: Commercial Mobile Radio Service

Co-Carrier: Any other Telecommunications provider authorized by the Commission to provide local exchange service in the state.

Commission: The Pennsylvania Public Utility Commission

Common Channel Signaling (CCS): A high-speed packet switched communications network which is separate (out of band) from the public packet switched and message networks. It is used to carry addressed signaling messages for individual trunk circuits and/or database related services between signaling points in the CCS network.

Company: KMC Data, LLC, issuer of this tariff.

Constructive Order: Delivery of calls to or acceptance of calls from the Company's locations constitutes a Constructive Order by the Customer to purchase switched access services as described herein. Similarly the selection by a Company's End User of the Customer as the presubscribed IXC constitutes a Constructive Order of switched access by the Customer.

Customer: The person, firm, corporation or other entity which orders Service or receives service including through a Constructive Order and is responsible for the payment of charges and for compliance with the Company's tariff regulations. The Customer could be an interexchange carrier, a local exchange carrier, a wireless provider, or any other Carrier that operates in the state.

8XX Data Base Access Service: The term "8XX Data Base Access Service" denotes a toll-free originating Trunkside Access Service when the 8XX Service Access Code (i.e., 800, 822, 833, 844, 855, 866, 877, or 888 as available) is used.

Issued: September 1, 2006

Effective: September 30, 2006

Issued By: James M. Mertz  
Vice President of Government Affairs  
KMC Data, LLC  
5300 Oakbrook Parkway  
Bldg 300, Suite 330  
Norcross, GA 30093.

Cancelled  
By  
1st Revised Page No. 6  
Effective 8/16/10

OFFICIALLY FILED TARIFF

ACCESS SERVICES

SECTION 1 - DEFINITIONS, (CONT'D.)

Company - Hypercube Telecom, LLC, issuer of this tariff.

Constructive Order - Delivery of calls to or acceptance of calls from the Company's locations constitutes a Constructive Order by the Customer to purchase switched access services as described herein. Similarly the selection by a Company's End User of the Customer as the presubscribed IXC constitutes a Constructive Order of switched access by the Customer.

Customer - The person, firm, corporation or other entity which orders Service or receives service including through a Constructive Order and is responsible for the payment of charges and for compliance with the Company's tariff regulations. The Customer could be an interexchange carrier, a local exchange carrier, a wireless provider, any other Carrier that operates in the state, or other provider originating or terminating toll VoIP-PSTN traffic. (C)

8XX Data Base Access Service - The term "8XX Data Base Access Service" denotes a toll-free originating Trunkside Access Service when the 8XX Service Access Code (i.e., 800, 822, 833, 844, 855, 866, 877, or 888 as available) is used.

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By *pages*  
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Material found on this page was previously located on Page 6.

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Issued: January 17, 2012

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Lancaster, TX 75146

PAa1201

R-2012-2283871

ACCESS SERVICES

SECTION 1 – DEFINITIONS, (CONT'D.)

End User - Any individual, association, corporation, governmental agency or any other entity other than an Interexchange Carrier which subscribes to local exchange services, interexchange services, CMRs, VoIP services, or other telecommunications service provided by an Exchange Carrier, Common Carrier, Wireless Provider, VoIP Provider or other provider of services that transit the Company's facilities.

Entrance Facility - A trunk facility connecting the Customer's point of presence with the local switching center.

Exchange Carrier - Any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged in the provision of local exchange telephone service, CMRS, wireless services or VoIP services.

Firm Order Confirmation (FOC) - Acknowledgment by the Company of receipt of an Access Service Request from the Customer and commitment by the Company of a Service Date.

Individual Case Basis - A service arrangement in which the regulations, rates and charges are developed based on the specific circumstances of the Customer's situation.

Inter-MTA Traffic - Wireless traffic originating on the network of a CMRS provider within one NITA and terminating to End Users in another MTA.

Internet Protocol (IP): The method or protocol by which data is sent from one computer to another on the Internet. (C)

Internet Protocol (IP) Signaling: A packet data-oriented protocol used for communicating call signaling information. (C)

Intra-MTA Traffic - Wireless traffic originating on the network of a CMRS provider within a MTA and terminating to End Users in the same MTA.

Interexchange Carrier (IXC) or Interexchange Common Carrier - Any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged in state or foreign communication for hire by wire or radio, between two or more exchanges.

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R-00061790

KMC Data, LLC

Telephone PA P.U.C. Tariff No. 4  
Canceling Telephone PA P.U.C. Tariff No. 3  
Original Page 7

**ACCESS SERVICES**

**SECTION 1 - DEFINITIONS (Cont.)**

End User: Any individual, association, corporation, governmental agency or any other entity other than an Interexchange Carrier which subscribes to local exchange services, interexchange services, CMRS, VOIP services, or other telecommunications service provided by an Exchange Carrier, Common Carrier, Wireless Provider, VOIP Provider or other provider of services that transit the Company's facilities.

Entrance Facility: A trunk facility connecting the Customer's point of presence with the local switching center.

Exchange Carrier: Any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged in the provision of local exchange telephone service, CMRS, wireless services or VOIP services.

Firm Order Confirmation (FOC): Acknowledgment by the Company of receipt of an Access Service Request from the Customer and commitment by the Company of a Service Date.

Individual Case Basis: A service arrangement in which the regulations, rates and charges are developed based on the specific circumstances of the Customer's situation.

Inter-MTA Traffic: Wireless traffic originating on the network of a CMRS provider within one MTA and terminating to End Users in another MTA.

Intra-MTA Traffic: Wireless traffic originating on the network of a CMRS provider within a MTA and terminating to End Users in the same MTA.

Interexchange Carrier (IXC) or Interexchange Common Carrier: Any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged in state or foreign communication for hire by wire or radio, between two or more exchanges.

LATA: A local access and transport area established pursuant to the Modification of Final Judgment entered by the United States District Court for the District of Columbia in Civil Action No. 82-0192 for the provision and administration of communications services.

Line Information Data Base (LIDB): The data base which contains base information such as telephone numbers, calling card numbers and associated billed number restriction data used in connection with the validation and billing of calls.

Local Access: The connection between a Customer's premises and a point of presence of the Exchange Carrier.

Local Switching Center: The switching center where telephone exchange service Customer station Channels are terminated for purposes of interconnection to each other and to interoffice Trunks.

Local Traffic: Traffic, other than 8XX calls, is "Local Traffic" under this tariff if: (i) the call originates and terminates in the same exchange area; or (ii) the call originates and terminates within different KMC Data, LLC Exchanges that share a common mandatory local calling area, e.g., a mandatory Extended Local Calling Service (ELCS) or Extended Area Service areas (EAS) or other like types of mandatory local calling scopes.

Meet Point: A point of interconnection that is not an end office or tandem.

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ACCESS SERVICES

SECTION 1 – DEFINITIONS, (CONT'D.)

LATA - A local access and transport area established pursuant to the Modification of Final Judgment entered by the United States District Court for the District of Columbia in Civil Action No. 82-0192 for the provision and administration of communications services.

Line Information Data Base (LIDB) - The data base which contains base information such as telephone numbers, calling card numbers and associated billed number restriction data used in connection with the validation and billing of calls.

Local Access - The connection between a Customer's premises and a point of presence of the Exchange Carrier.

Local Switching Center - The switching center where telephone exchange service Customer station Channels are terminated for purposes of interconnection to each other and to interoffice Trunks.

Local Traffic - Traffic, other than 8XX calls, is "Local Traffic" under this tariff if: (i) the call originates and terminates in the same exchange area; or (ii) the call originates and terminates within different Hypercube Telecom, LLC Exchanges that share a common mandatory local calling area, e.g., a mandatory Extended Local Calling Service (ELCS) or Extended Area Service areas (EAS) or other like types of mandatory local calling scopes.

Meet Point - A point of interconnection that is not an end office or tandem.

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**ACCESS SERVICES**

**SECTION 1 - DEFINITIONS (Cont.)**

Service(s): The Company's telecommunications Access Services offered on the Company's Network.

Signaling Point of Interface: The Customer designated location where the SS7 signaling information is exchanged between the Company and the Customer.

Signaling System 7 (SS7): The common Channel Out of Band Signaling protocol developed by the Consultative Committee for International Telephone and Telegraph (CCITT) and the American National Standards Institute (ANSI).

Switched Access Service: Access to the switched network of an Exchange Carrier for the purpose of originating or terminating communications. Switched Access is available to Carriers, as defined in this tariff.

Trunk: A communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

VOIP Provider: Any individual association, corporation, governmental agency or any other entity that is providing voice over internet protocol. The VOIP provider may or may not be certified by the Pennsylvania Public Utility Commission.

Wireless Provider: Any carrier authorized to operate as a provider of cellular, personal communications, paging CMRS or any other form of wireless transmission.

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ACCESS SERVICES

SECTION 1 - DEFINITIONS, (CONT'D.)

Service(s) - The Company's telecommunications Access Services offered on the Company's Network.

Signaling Point of Interface - The Customer designated location where the SS7 signaling information is exchanged between the Company and the Customer.

Signaling System 7 (SS7) - The common Channel Out of Band Signaling protocol developed by the Consultative Committee for International Telephone and Telegraph (CCITT) and the American National Standards Institute (ANSI).

Switched Access Service - Access to the switched network of an Exchange Carrier for the purpose of originating or terminating communications. Switched Access is available to Carriers, as defined in this tariff.

Time Division Multiplexing (TDM): A method of transmitting and receiving voice signals over the Public Switched Telephone Network (PSTN). (C)

Toll VoIP-PSTN Traffic: A Customer's interexchange voice traffic exchanged with the Company in Time Division Multiplexing format over PSTN facilities, which originates and/or terminates in Internet Protocol (IP) format. Toll VoIP-PSTN Traffic originates and/or terminates in IP format when it originates from and/or terminates to an end user customer of a service that requires IP-compatible customer premises equipment. (C)

Trunk - A communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

VoIP Provider - Any individual association, corporation, governmental agency or any other entity that is providing voice over internet protocol. The VoIP provider may or may not be certified by the Pennsylvania Public Utility Commission.

VoIP Service: Transmission of communication by aid of wire, cable, radio, or other like connection using Voice over Internet Protocol that is originated or terminated in Internet Protocol ("IP") format. VoIP services are those services that require the use of IP compatible customer premises equipment. (C)

Wireless Provider - Any carrier authorized to operate as a provider of cellular, personal communications, paging CMRS or any other form of wireless transmission.

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ACCESS SERVICES

SECTION 2 – RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic

A. Scope

VoIP-PSTN Traffic is the traffic exchanged in Time Division Multiplexing ("TDM") format that originates and/or terminates in Internet Protocol ("IP") format. This section governs the identification and billing of VoIP-PSTN Traffic pursuant to the FCC's Inter-carrier Compensation Report and Order in WC Docket Nos. 10-90, et. al., FCC No. 11-161 (Nov. 18, 2011) ("FCC ICC Order"). Pursuant to the FCC ICC Order, the Company shall apply interstate access charges to VoIP-PSTN Traffic. Specifically, this section establishes the method of separating such traffic (referred to in this tariff as "Relevant VoIP-PSTN Traffic") from the Customer's traditional intrastate access traffic, so that such Relevant VoIP-PSTN Traffic can be billed in accordance with the FCC ICC Order in a symmetrical manner.

B. Methodology Options

Unless otherwise negotiated, the Customer may elect an approach from the following options to identify the Relevant VoIP-PSTN Traffic that is subject to the FCC ICC Order:

1. Option 1 – Self-Reporting: Self-Report Percent VoIP Usage pursuant to Section 2.3.5.E, following; or
2. Option 2 – Call Signaling: Properly populate the Originating Line Indicator ("OLI") field of the call signaling stream to reflect that the call originated as a VoIP call, which shall be through the use of the digit-code 40 or other digit pair mutually agreed upon in writing by Customer and Company's Chief Technical Officer; or
3. Option 3 – Trunk Group Segregation: Properly segregate the calls that originate as VoIP calls and exchange such calls through a trunk group established solely for the completion of VoIP-originated calls.

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ACCESS SERVICES

SECTION 2 – RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic

A. Scope

VoIP-PSTN Traffic is the traffic exchanged in Time Division Multiplexing ("TDM") format that originates and/or terminates in Internet Protocol ("IP") format. This section governs the identification and billing of VoIP-PSTN Traffic pursuant to the FCC's Inter-carrier Compensation Report and Order in WC Docket Nos. 10-90, et. al., FCC No. 11-161 (Nov. 18, 2011) ("FCC ICC Order"). Pursuant to the FCC ICC Order, the Company shall apply interstate access charges to VoIP-PSTN Traffic. Specifically, this section establishes the method of separating such traffic (referred to in this tariff as "Relevant VoIP-PSTN Traffic") from the Customer's traditional intrastate access traffic, so that such Relevant VoIP-PSTN Traffic can be billed in accordance with the FCC ICC Order in a symmetrical manner.

B. Methodology Options

Unless otherwise negotiated, the Customer may elect an approach from the following options to identify the Relevant VoIP-PSTN Traffic that is subject to the FCC ICC Order:

1. Option 1 – Self-Reporting: Self-Report Percent VoIP Usage pursuant to Section 2.3.5.E, following; or
2. Option 2 – Call Signaling: Properly populate the Originating Line Indicator ("OLI") field of the call signaling stream to reflect that the call originated as a VoIP call, which shall be through the use of the digit-code 40 or other digit pair mutually agreed upon in writing by Customer and Company's Chief Technical Officer; or
3. Option 3 – Trunk Group Segregation: Properly segregate the calls that originate as VoIP calls and exchange such calls through a trunk group established solely for the completion of VoIP-originated calls.

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ACCESS SERVICES

SECTION 2 – RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

C. Initial Methodology

The Company shall provide a one-time grace period of thirty (30) days for the Customer to notify the Company of its Methodology Option selection immediately following the effectiveness of this Section. For Option 1 – Self-Reporting, the Customer is subject to auditing and verification by the Company and the Customer is obligated to support all self-reported figures with traffic studies or other reasonable analyses upon Company's written request. Option 1 – Self-Reporting is available to all Customers pursuant to tariff without the need for contractual negotiations. Options 2 and 3 are available to all Customers pursuant to tariff and may be customized through contractual negotiations. For Option 2 – Call Signaling, provided pursuant to this tariff, if any replacement digit-code is established through industry-consensus or updated industry standards, the Company shall update this tariff to reflect the replacement digit-code and the Customer shall within six months transition to the replacement digit-code then set forth in this tariff, unless otherwise agreed upon in writing by Customer and Company's Chief Technical Officer. Option 3 – Trunk Group Segregation is provided subject to up-front and recurring certification, auditing and verification by the Company. For Option 3 – Trunk Group Segregation provided pursuant to this tariff, intervals and costs for the establishment of dedicated trunk groups are subject to negotiation.

If the Customer has neither selected one of the above-three Options, nor otherwise negotiated an approach with the Company, the PVU for all calls shall be determined pursuant to Option 1 as described in subsection E, following of this tariff, except that the Company may rely on Call Signaling for all traffic for which a valid digit-code was provided and may supplement such call detail information as appropriate with the use of jurisdictional factors addressed in subsection E, following. All grace period billing pursuant to this Section is subject to retroactive adjustment to December 29, 2011, to be compliant with the FCC ICC Order.

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ACCESS SERVICES

SECTION 2 – RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

D. Rating of Toll VoIP-PSTN Traffic

The relevant Toll VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Company's applicable tariffed Toll VoIP-PSTN Traffic rates as specified in Section 4 of this tariff.

(C)

E. Calculation and Application of Percent-VoIP-Usage Factor

For the Customer that selects Option 1 – Self Reporting, the Company will determine the number of relevant VoIP PSTN Traffic minutes of use ("MOU") to which interstate rates will be applied under subsection D, above, by applying a Percent VoIP Usage ("PVU") factor to the total intrastate access MOU exchanged between a the Company and the Customer. By default, the effective PVU will be equal to the total number of incumbent LEC and non-incumbent LEC VoIP subscriptions in the State divided by the sum of those reported VoIP subscriptions plus incumbent LEC and non-incumbent LEC switched access lines, based on the FCC's Local Competition Report, as released periodically. If the Customer proposes to use a different PVU, it must be derived and applied as follows:

1. The Customer will calculate and furnish to the Company a factor (the "PVU-A") representing the whole number percentage of the total terminating intrastate access MOU that the Customer exchanges with the Company in the State, that is sent to the Company and that originated in IP format. Beginning July 1, 2014, the Customer's PVU-A shall be based on access MOU the Customer exchanges with the Company in the State that is (a) sent to the Company that originated in IP format, (b) is received from the Company and terminated in IP format, or (c) indicated via the JIP parameter (RFC-5503). This PVU-A shall be based on information that is verifiable by the Company such as traffic studies, actual call detail, or other relevant and verifiable information.

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2. The Company will, likewise calculate a factor (the "PVU-B") representing the whole number percentage of the Company's total terminating intrastate access MOU in the State that terminates in IP format. Beginning July 1, 2014, the PVU-B shall be based on intrastate access MOU in the State that originates or terminates in IP format. This PVU-B shall be based on information such as the number of the Company's retail VoIP subscriptions in the state (e.g., as reported on the FCC Form 477), traffic studies, actual call detail, or other relevant and verifiable information.

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ACCESS SERVICES

SECTION 2 - RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

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D. Rating of Toll VoIP-PSTN Traffic

The relevant Toll VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Company's applicable tariffed Toll VoIP-PSTN Traffic rates as specified in Section 4.4.4 of this tariff.

E. Calculation and Application of Percent-VoIP-Usage Factor

For the Customer that selects Option 1 - Self Reporting, the Company will determine the number of relevant VoIP PSTN Traffic minutes of use ("MOU") to which interstate rates will be applied under subsection D, above, by applying a Percent VoIP Usage ("PVU") factor to the total intrastate access MOU exchanged between a the Company and the Customer. By default, the effective PVU will be equal to the total number of incumbent LEC and non-incumbent LEC VoIP subscriptions in the State divided by the sum of those reported VoIP subscriptions plus incumbent LEC and non-incumbent LEC switched access lines, based on the FCC's Local Competition Report, as released periodically. If the Customer proposes to use a different PVU, it must be derived and applied as follows:

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1. The Customer will calculate and furnish to the Company a factor (the "PVU-A") representing the whole number percentage of the total access MOU that the Customer exchanges with the Company in the State, that (a) is sent to the Company and that originated in IP format; or (b) is received from the Company and terminated in IP format. This PVU-A shall be based on information that is verifiable by the Company such as traffic studies, actual call detail, or other relevant and verifiable information.

2. The Company will, likewise calculate a factor (the "PVU-B") representing the whole number percentage of the Company's total access MOU in the State that the Company originates or terminates in IP format. This PVU-B shall be based on information such as the number of the Company's retail VoIP subscriptions in the state (e.g., as reported on the FCC Form 477), traffic studies, actual call detail, or other relevant and verifiable information.

3. The Company will use the PVU-A and PVU-B factors to calculate an effective PVU factor that represents the whole number percentage of total access MOU exchanged between the Company and the Customer that is originated and/or terminated in IP format, whether at the Company's end, at the Customer's end, or at both ends. The effective PVU factor will be calculated as the sum of: (A) the PVU-A factor and (B) the PVU-B factor times (1.0 minus the PVU-A factor).

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ACCESS SERVICES

SECTION 2 – RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

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D. Rating of Toll VoIP-PSTN Traffic

The relevant Toll VoIP-PSTN Traffic identified in accordance with this tariff section will be billed at rates equal to the Company's applicable tariffed Toll VoIP-PSTN Traffic rates as specified in Section 4.4.4 of this tariff.

E. Calculation and Application of Percent-VoIP-Usage Factor

For the Customer that selects Option 1 – Self Reporting, the Company will determine the number of relevant VoIP PSTN Traffic minutes of use ("MOU") to which interstate rates will be applied under subsection D, above, by applying a Percent VoIP Usage ("PVU") factor to the total intrastate access MOU exchanged between a the Company and the Customer. By default, the effective PVU will be equal to the total number of incumbent LEC and non-incumbent LEC VoIP subscriptions in the State divided by the sum of those reported VoIP subscriptions plus incumbent LEC and non-incumbent LEC switched access lines, based on the FCC's Local Competition Report, as released periodically. If the Customer proposes to use a different PVU, it must be derived and applied as follows:

1. The Customer will calculate and furnish to the Company a factor (the "PVU-A") representing the whole number percentage of the total access MOU that the Customer exchanges with the Company in the State, that (a) is sent to the Company and that originated in IP format; or (b) is received from the Company and terminated in IP format. This PVU-A shall be based on information that is verifiable by the Company such as traffic studies, actual call detail, or other relevant and verifiable information.
2. The Company will, likewise calculate a factor (the "PVU-B") representing the whole number percentage of the Company's total access MOU in the State that the Company originates or terminates in IP format. This PVU-B shall be based on information such as the number of the Company's retail VoIP subscriptions in the state (e.g., as reported on the FCC Form 477), traffic studies, actual call detail, or other relevant and verifiable information.
3. The Company will use the PVU-A and PVU-B factors to calculate an effective PVU factor that represents the whole number percentage of total access MOU exchanged between the Company and the Customer that is originated and/or terminated in IP format, whether at the Company's end, at the Customer's end, or at both ends. The effective PVU factor will be calculated as the sum of: (A) the PVU-A factor and (B) the PVU-B factor times (1.0 minus the PVU-A factor).

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ACCESS SERVICES

SECTION 2 - RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

E. Calculation and Application of Percent-VoIP-Usage Factor, (Cont'd.)

3. The Company will use the PVU-A and PVU-B factors to calculate an effective PVU factor that represents the whole number percentage of total terminating access MOU that is terminated in IP format by the Company and/or originated in IP format by the Customer. Beginning July 1, 2014, the PVU factor will represent the total access MOU exchanged between the Company and the Customer that is originated and/or terminated in IP format, whether at the Company's end, at the Customer's end, or at both ends. The effective PVU factor will be calculated as the sum of: (A) the PVU-A factor and (B) the PVU-B factor times (1.0 minus the PVU-A factor). (C)

4. The Company will apply the effective PVU factor to the total applicable intrastate access MOU exchanged with the Customer to determine the number of Relevant VoIP-PSTN Traffic MOUs. (C)

Example 1:

The PVU-B is 10% and the PVU-A is 40%. The effective PVU factor is equal to  $40\% + (10\% \times 60\%) = 46\%$ . The Company will bill 46% of the Customer's applicable intrastate access MOU in accordance with the Company's interstate switched access tariff. (C)

Example 2:

The PVU-B is 10% and the PVU-A is 0%. The effective PVU factor is  $0\% + (100\% \times 10\%) = 10\%$ . The Company will bill 10% of the Customer's applicable intrastate access MOU in accordance with the Company's interstate switched access tariff. (C)

Example 3:

The PVU-A is 100%. No matter what the PVU-B factor is, the effective PVU is 100%. The Company will bill 100% of the Customer's applicable intrastate access MOU in accordance with the Company's interstate switched access tariff. (C)

In the above examples, the Company will apply the PVU to terminating access from July 22, 2012 through June 30, 2014 and to originating as well as terminating access beginning July 1, 2014. (C)

5. The Customer shall not modify their reported PIU factor to account for VoIP-PSTN Traffic.

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ACCESS SERVICES

SECTION 2 - RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

E. Calculation and Application of Percent-VoIP-Usage Factor, (Cont'd.)

- 4. The Company will apply the effective PVU factor to the total intrastate access MOU exchanged with the Customer to determine the number of Relevant VoIP-PSTN Traffic MOUs.

Example 1:

The PVU-B is 10% and the PVU-A is 40%. The effective PVU factor is equal to  $40\% + (10\% \times 60\%) = 46\%$ . The Company will bill 46% of the Customer's intrastate access MOU in accordance with the Company's applicable interstate switched access tariff.

Example 2:

The PVU-B is 10% and the PVU-A is 0%. The effective PVU factor is  $0\% + (100\% \times 10\%) = 10\%$ . The Company will bill 10% of the Customer's intrastate access MOU in accordance with the Company's applicable interstate switched access tariff.

Example 3:

The PVU-A is 100%. No matter what the PVU-B factor is, the effective PVU is 100%. The Company will bill 100% of the Customer's intrastate access MOU in accordance with the Company's applicable interstate switched access tariff.

- 5. The Customer shall not modify their reported PIU factor to account for VoIP-PSTN Traffic.

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ACCESS SERVICES

SECTION 2 - RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

E. Calculation and Application of Percent-VoIP-Usage Factor, (Cont'd.)

- 4. The Company will apply the effective PVU factor to the total intrastate access MOU exchanged with the Customer to determine the number of Relevant VoIP-PSTN Traffic MOUs.

Example 1:

The PVU-B is 10% and the PVU-A is 40%. The effective PVU factor is equal to  $40\% + (10\% \times 60\%) = 46\%$ . The Company will bill 46% of the Customer's intrastate access MOU in accordance with the Company's applicable interstate switched access tariff.

Example 2:

The PVU-B is 10% and the PVU-A is 0%. The effective PVU factor is  $0\% + (100\% \times 10\%) = 10\%$ . The Company will bill 10% of the Customer's intrastate access MOU in accordance with the Company's applicable interstate switched access tariff.

Example 3:

The PVU-A is 100%. No matter what the PVU-B factor is, the effective PVU is 100%. The Company will bill 100% of the Customer's intrastate access MOU in accordance with the Company's applicable interstate switched access tariff.

- 5. The Customer shall not modify their reported PIU factor to account for VoIP-PSTN Traffic.

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ACCESS SERVICES

SECTION 2 - RULES AND REGULATIONS, (CONT'D.)

2.3 Obligations of the Customer, (Cont'd.)

2.3.5 Identification and Rating of Toll VoIP-PSTN Traffic, (Cont'd.)

F. Initial PVU Factor

If the PVU factor cannot be implemented by December 29, 2011, once the factor is available and can be implemented, the Company will adjust the Customer's bills to reflect the PVU retroactively to December 29, 2011, provided that the Customer provides the factor to the Company no later than April 15, 2012; otherwise, the initial PVU will be set as specified above.

G. PVU Factor Updates

Customers selecting Option 1 - Self Reporting may update the PVU-A factor quarterly using the method set forth in subsection E.1, above. If the Customer chooses to submit such updates, it shall forward to the Company, no later than 15 days after the first day of January, April, July and/or October of each year, a revised PVU-A factor based on data for the prior three months, ending the last day of December, March, June and September, respectively, along with supporting documentation for the prior three month period. The verified revised PVU factor will apply prospectively and serve as the basis for billing until superseded by a new verified PVU factor.

H. PVU Factor Verification

Not more than four times in any year, the Company may ask the Customer to verify the PVU-A factor furnished to the Company. The Customer is subject to auditing and verification by the Company and the Customer is obligated to support all self-reported figures with traffic studies or other reasonable analyses upon the Company's written request. The Customer shall comply with such requests, and shall reasonably provide the records, including information used to determine the PVU-A factor and other information contained in Company's written requests.

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges

4.4.1 Carrier Switched Access

A. Originating Access

The Company bills originating access at a blended per minute rate.

Originating FG Access Per Originating Access Minute  
\$0.025

B. Terminating Access

Terminating traffic will be assessed switched access charges at the rates set forth in the Company's Federal Access Tariff, FCC No. 4, as follows:

1. For Services Provided on or after July 1, 2013 through July 30, 2014:

a. Switched Transport

Competing ILEC Area	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing	Tandem Common Trunk Port
Verizon PA	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
CenturyLink	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900	\$0.00049000

b. Local Switching

Competing ILEC Area	Per Terminating Access Minute
Verizon PA	\$0.00240600
CenturyLink	\$0.00389200

c. 8XX Data Base Access Service Queries

	Per Query
Basic	\$0.0075
Vertical Feature	\$0.0080

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4<sup>th</sup> Revised Page No. 46  
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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges

4.4.1 Carrier Switched Access

A. Originating Access

The Company bills originating access at a blended per minute rate.

Originating FG Access Per Originating Access Minute  
\$0.025

B. Terminating Access

Terminating traffic will be assessed switched access charges at the rates set forth in the Company's Federal Access Tariff, FCC No. 4, as follows:

1. For Services Provided on or after July 1, 2013 through July 30, 2014:

a. Switched Transport

Competing ILEC Area	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing	Tandem Common Trunk Port
Verizon (f Bell Atl)	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
CenturyLink (f Embarq)	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900	\$0.00049000

b. Local Switching

Competing ILEC Area	Per Terminating Access Minute
Verizon (f Bell Atl)	\$0.00240600
CenturyLink (f Embarq)	\$0.00389200

c. 8XX Data Base Access Service Queries

	Per Query
Basic	\$0.0075
Vertical Feature	\$0.0080

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2<sup>nd</sup> Revised Page 46  
Cancels 1<sup>st</sup> Revised Page 46

**ACCESS SERVICES**

**SECTION 4 – SWITCHED ACCESS RATES, (CONT'D.)**

**4.4 Rates and Charges**

**4.4.1 Blended Carrier Switched Access**

Hypercube Telecom, LLC bills originating and terminating access per minute as a blended rate. The blended rate includes Switching and Transport.

Per Access Minute

- A. Originating FG Access \$0.025
- B. Terminating FG Access

All terminating access traffic will be assessed based on the rates and rate structure set forth in the Company's Federal Access Tariff, FCC Tariff No. 4. Sec Section 4.4.4 of this tariff for current rates.

(C)  
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(C)

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges

4.4.1 Blended Carrier Switched Access

Hypercube Telecom, LLC bills originating and terminating access per minute as a blended rate. The blended rate includes Switching and Transport.

	Per Access Minute	
A. Originating FG Access	\$0.025	(C)
B. Terminating FG Access		
1. Verizon Areas		
Local Switching	\$0.00240600	(R)
Common Trunk Port	\$0.00168800	
Tandem Switched Transport		
Termination, per minute	\$0.00000000	
Facility, per minute, per mile	\$0.00000200	
Tandem Switching	\$0.00157400	
Common Multiplexing	\$0.00000000	
2. Other ILEC Areas		
Local Switching	\$0.00389200	
Common Trunk Port	\$0.00049000	
Tandem Switched Transport		
Termination, per minute	\$0.00044900	
Facility, per minute, per mile	\$0.00002200	
Tandem Switching	\$0.00143800	
Common Multiplexing	\$0.00046900	(R)(C)

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KMC Data, LLC

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Canceling Telephone PA P.U.C. Tariff No. 3  
Original Page 46

**ACCESS SERVICES**

**SECTION 4- SWITCHED ACCESS RATES (Cont.)**

**4.4 Rates and Charges**

**4.4.1 Blended Carrier Switched Access**

KMC Data, LLC bills originating and terminating access per minute as a blended rate. The blended rate includes Switching and Transport.

Originating FG Access	\$0.025
Terminating FG Access	\$0.025

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OFFICIALLY FILED TARIFF

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Vice President of Government Affairs  
KMC Data, LLC  
5300 Oakbrook Parkway  
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Norcross, GA 30093

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.1 Carrier Switched Access, (Cont'd.)

B. Terminating Access, (Cont'd.)

2. For Services Provided on or after July 31, 2015

(C)

a. Switched Transport, Rates Apply per Terminating Access Minute

Competing ILEC Area	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing
All Areas	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000

b. End Office Functions

(1) Composite Terminating End Office Charge

Competing ILEC Area	Per Terminating Access Minute
All Areas	\$0.00193100 (R)

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.1 Carrier Switched Access, (Cont'd.)

B. Terminating Access, (Cont'd.)

2. For Services Provided on or after July 31, 2014

a. Switched Transport, Rates Apply per Terminating Access Minute

Competing ILEC Area	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing
All Areas (C)	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000

(D)  
(C)  
(C)

b. End Office Functions

(C)  
-----  
(C)

(1) Composite Terminating End Office Charge

(C)

Competing ILEC Area	Per Terminating Access Minute
All Areas (C)	\$0.00316200

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(C)

(C)  
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(C)

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By

2nd Revised Page No. 46.1

Effective

7/1/15

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.1 Carrier Switched Access, (Cont'd.)

B. Terminating Access, (Cont'd.)

2. For Services Provided on or after July 31, 2014

a. Switched Transport, Rates Apply per Terminating Access Minute

Competing ILEC Area	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing
Verizon PA	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000
Verizon North	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000
CenturyLink	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900

b. End Office Functions

(1) Local Switching

Competing ILEC Area	Per Terminating Access Minute
Verizon PA	\$0.00000000
Verizon North	\$0.00000000
CenturyLink	\$0.00217200

(2) Composite Terminating End Office Charge

Competing ILEC Area	Per Terminating Access Minute
Verizon PA	\$0.00316200
Verizon North	\$0.00312800
CenturyLink	\$0.00000000

(3) Common Trunk Port

Competing ILEC Area	Per Terminating Access Minute
Verizon PA	\$0.00000000
Verizon North	\$0.00000000
CenturyLink	\$0.00049000

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Lancaster, TX 75146

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.2 800 Data Base Access Service Queries

Basic  
Vertical Feature

Per Query  
\$0.005  
\$0.0055

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4.4.3 Switched Access Optional Features

All Optional Features are offered on an Individual Case Basis (ICB).

4.4.4 Application of Access Charges to Toll VoIP-PSTN Traffic

All Toll VoIP PSTN traffic will be assessed switched access charges at the rates set forth in the Company's Federal Access Tariff, FCC No. 4, which are as follows:

A. Originating Access

1. Switched Transport

Competing ILEC	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing	Tandem Common Trunk Port
Verizon PA	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
Verizon North (fka GTE) (T)	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
CenturyLink	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900	\$0.00049000

2. Local Switching

Competing ILEC Area	Per Originating Access Minute
Verizon PA	\$0.00240600
Verizon North (fka GTE)	\$0.00240600
CenturyLink	\$0.00389200

3. 8XX Data Base Access Service Queries

	Per Query
Basic	\$0.0075
Vertical Feature	\$0.0080

B. Terminating Access

See Section 4.4.1.B.

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HYPERCUBE TELECOM, LLC

Supplement No. 6  
Telephone PA P.U.C. Tariff No. 4  
2<sup>nd</sup> Revised Page 47  
Cancels 1<sup>st</sup> Revised Page 47

ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.2 800 Data Base Access Service Queries

	<u>Per Query</u>
Basic	\$0.005
Vertical Feature	\$0.0055

4.4.3 Switched Access Optional Features

All Optional Features are offered on an Individual Case Basis (ICB).

4.4.4 Application of Access Charges to Toll VoIP-PSTN Traffic

All Toll VoIP PSTN traffic will be assessed switched access charges at the rates set forth in the Company's Federal Access Tariff, FCC No. 4, which are as follows:

A. Originating Access

1. Switched Transport

Competing ILEC	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing	Tandem Common Trunk Port
Verizon PA	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
Verizon North	\$0.00019500	\$0.00004500	\$0.00098300	\$0.00000000	\$0.00159800
CenturyLink	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900	\$0.00049000

2. Local Switching

Competing ILEC Area	Per Originating Access Minute
Verizon PA	\$0.00240600
Verizon North	\$0.00621200
CenturyLink	\$0.00240600

3. 8XX Data Base Access Service Queries

	Per Query
Basic	\$0.0075
Vertical Feature	\$0.0080

B. Terminating Access

See Section 4.4.1.B.

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.2 800 Data Base Access Service Queries

	<u>Per Query</u>
Basic	\$0.005
Vertical Feature	\$0.0055

4.4.3 Switched Access Optional Features

All Optional Features are offered on an Individual Case Basis (ICB).

4.4.4 Application of Access Charges to Toll VoIP-PSTN Traffic

All Toll VoIP PSTN traffic will be assessed switched access charges at the rates set forth in the Company's Federal Access Tariff, FCC No. 4, which are as follows:

A. Originating Access

1. Switched Transport

Competing ILEC	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing	Tandem Common Trunk Port
Verizon (f Bell Atl)	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
CenturyLink (f Embarq)	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900	\$0.00049000

2. Local Switching

Competing ILEC Area	Per Originating Access Minute
Verizon (f Bell Atl)	\$0.00240600
CenturyLink (f Embarq)	\$0.00389200

3. 8XX Data Base Access Service Queries

	Per Query
Basic	\$0.0075
Vertical Feature	\$0.0080

B. Terminating Access

See Section 4.4.1.B.

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.2 800 Data Base Access Service Queries

	<u>Per Query</u>
Basic	\$0.005
Vertical Feature	\$0.0055

4.4.3 Switched Access Optional Features

All Optional Features are offered on an Individual Case Basis (ICB).

4.4.4 Application of Access Charges to Toll VoIP-PSTN Traffic

All Toll VoIP PSTN traffic will be assessed switched access charges at the rates set forth in the Company's Federal Access Tariff, FCC No. 4, which are as follows:

A. Originating Access

1. Switched Transport

Competing ILEC	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing	Tandem Common Trunk Port
Verizon (f Bell Atl)	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
CenturyLink (f Embarq)	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900	\$0.00049000

2. Local Switching

Competing ILEC Area	Per Terminating Access Minute
Verizon (f Bell Atl)	\$0.00240600
CenturyLink (f Embarq)	\$0.00389200

3. 8XX Data Base Access Service Queries

	Per Query
Basic	\$0.0075
Vertical Feature	\$0.0080

B. Terminating Access

See Section 4.4.1.B.

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ACCESS SERVICES

SECTION 4 - SWITCHED ACCESS RATES, (CONT'D.)

4.4 Rates and Charges, (Cont'd.)

4.4.2 800 Data Base Access Service Queries

	<u>Per Query</u>
Basic	\$0.005
Vertical Feature	\$0.0055

4.4.3 Switched Access Optional Features

All Optional Features are offered on an Individual Case Basis (ICB).

4.4.4 Application of Access Charges to Toll VoIP-PSTN Traffic

A. All Toll VoIP-PSTN traffic will be assessed switched access charges at the rates set forth in the Company's Federal Access Tariff, FCC No. 4, as follows:

1. Switched Transport

Competing ILEC	Tandem Switched Transport	Tandem Switched Transport Per Mile	Access Tandem Switching	Tandem Multiplexing	Tandem Common Trunk Port
Verizon	\$0.00000000	\$0.00000200	\$0.00157400	\$0.00000000	\$0.00168800
Other ILEC Areas	\$0.00044900	\$0.00002200	\$0.00143800	\$0.00046900	\$0.00049000

2. Local Switching

Verizon	\$0.00240600
Other ILEC Areas	\$0.00389200

3. 8XX Data Base Access Service Queries

<u>Per Query</u>	
Basic	\$0.0075
Vertical Feature	\$0.0080

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MAR 16 2012**

**Cancelled**  
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KMC Data, LLC

Telephone PA P.U.C. Tariff No. 4  
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Original Page 47

**ACCESS SERVICES**

**SECTION 4- SWITCHED ACCESS RATES (Cont.)**

**4.4 Rates and Charges (Cont.)**

**4.4.2 800 Data Base Access Service Queries**

Per Query

Basic	\$0.005
Vertical Feature	\$0.0055

**4.4.3 Switched Access Optional Features**

*All Optional Features are offered on an Individual Case Basis (ICB).*

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