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Section	Question	Response
Filer Information	Provider Name	TDS TELECOMMUNICATIONS CORPORATION
	Holding Company Name	Telephone and Data Systems, Inc.
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	499 ID	801201, 801264, 801558, 801561, 801576, 801840, 801945, 802068, 802134, 803232, 804465, 804768, 804819, 805377, 805434, 805437, 805446, 805449, 805455, 805461, 805467, 805473, 805479, 805485, 805560, 805563, 805566, 805569, 805572, 805575, 805578, 805581, 805584, 805585, 805587, 805590, 805593, 805596, 805602, 805866, 806409, 806523, 806526, 806529, 806532, 806535, 806538, 806541, 806544, 806547, 806550, 806553, 806556, 806559, 806565, 806568, 806574, 806577, 806580, 806583, 806586, 806589, 806592, 806598, 806604, 806607, 806610, 806613, 806619, 806622, 806625, 806628, 806631, 806634, 806637, 806766, 806775, 806781, 806784, 806787, 806790, 806793, 806796, 806799, 806802, 806805, 806808, 806814, 806817, 806820, 806823, 806862, 807207, 807810, 807813, 808275, 808374, 808410, 808419, 808425, 809001, 809034, 809218, 809570, 809790

Section	Question	Response
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Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	ilec_fixed_broadband_deployment.csv	Aug 15, 2017 15:09:00	76851

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Subscription	201 new output1 ilec_data_Crosstab.csv	Aug 18, 2017 11:26:20	7503
Fixed Voice Subscription	301 new output1 ilec_voice_Crosstab.csv	Aug 18, 2017 09:16:47	1176

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Alabama	TDS TELECOM	ADSL2	
		Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
Arizona	TDS TELECOM	ADSL2	
		Asymmetric xDSL	
		VDSL	
California	TDS TELECOM	ADSL2	
		Asymmetric xDSL	
Colorado	TDS TELECOM	VDSL	
		ADSL2	

State	DBA Name	Technology	Blocks
		Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
Florida	TDS TELECOM	Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
Georgia	TDS TELECOM	Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
Idaho	TDS TELECOM	Asymmetric xDSL	
		VDSL	
		ADSL2	
Indiana	TDS TELECOM	Asymmetric xDSL	

State	DBA Name	Technology	Blocks
Kentucky	TDS TELECOM	Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
		Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
Maine	TDS TELECOM	Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
Michigan	TDS TELECOM	Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
Minnesota	TDS TELECOM	Asymmetric xDSL	

State	DBA Name	Technology	Blocks
Mississippi	TDS TELECOM	Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
		Asymmetric xDSL	
New Hampshire	TDS TELECOM	Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
		Asymmetric xDSL	
New York	TDS TELECOM	Optical Carrier/Fiber to the End User	
		VDSL	
		ADSL2	
North Carolina	TDS TELECOM	ADSL2	
		ADSL2	
Ohio	TDS TELECOM	Asymmetric xDSL	

State	DBA Name	Technology	Blocks
Oklahoma	TDS TELECOM	VDSL	
		ADSL2	
		Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
Oregon	TDS TELECOM	VDSL	
		Asymmetric xDSL	
Pennsylvania	TDS TELECOM	ADSL2	
		Asymmetric xDSL	
South Carolina	TDS TELECOM	VDSL	
		ADSL2	
		Asymmetric xDSL	
Tennessee	TDS TELECOM	VDSL	
		ADSL2	
		Asymmetric xDSL	
Tennessee	TDS TELECOM	Optical Carrier/Fiber to the End User	
		VDSL	

State	DBA Name	Technology	Blocks
Vermont	TDS TELECOM	ADSL2	
		Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
Virginia	TDS TELECOM	ADSL2	
		Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	
Washington	TDS TELECOM	ADSL2	468
		Asymmetric xDSL	441
		Optical Carrier/Fiber to the End User	10
		VDSL	312
Wisconsin	TDS TELECOM	ADSL2	
		Asymmetric xDSL	
		Optical Carrier/Fiber to the End User	
		VDSL	

State

DBA Name

Technology

Blocks

Total

76851

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

State

Technology

Census Tracts

Subscriptions

Consumer

Business / Govt

Total

Asymmetric xDSL

Alabama

Optical Carrier/Fiber to the End User

Symmetric xDSL

Arizona

Asymmetric xDSL

Optical Carrier/Fiber to the End User

California

Asymmetric xDSL

Colorado

Asymmetric xDSL

Asymmetric xDSL

Florida

Optical Carrier/Fiber to the End User

Symmetric xDSL

Georgia

Asymmetric xDSL

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Idaho	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
	Asymmetric xDSL				
Indiana	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Kentucky	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Maine	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Michigan	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Minnesota	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Mississippi	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Asymmetric xDSL				
New Hampshire	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
	Asymmetric xDSL				
New York	Asymmetric xDSL				
	Asymmetric xDSL				
Ohio	Asymmetric xDSL				
	Asymmetric xDSL				
	Asymmetric xDSL				
Oklahoma	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
	Asymmetric xDSL				
Oregon	Asymmetric xDSL				
Pennsylvania	Asymmetric xDSL				

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
South Carolina	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Tennessee	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Vermont	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Virginia	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Washington	Asymmetric xDSL	122	6122	304	6426
	Optical Carrier/Fiber to the End User	7	25	0	25
	Symmetric xDSL	3	0	11	11

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Wisconsin	Asymmetric xDSL				
	Optical Carrier/Fiber to the End User				
	Symmetric xDSL				
Total					

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.384	0.256			
0.512	0.256			
0.768	0.512			
1.000	0.512			
1.500	0.512			
1.500	1.500			
2.000	2.000			
3.000	0.512			
3.000	3.000			

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
4.000	0.512			
4.000	4.000			
5.000	0.512			
6.000	0.512			
6.000	6.000			
7.000	0.768			
7.000	0.864			
10.000	0.768			
10.000	2.000			
12.000	12.000			
15.000	0.768			
15.000	1.000			
15.000	2.000			
25.000	1.500			
25.000	2.000			
25.000	5.000			

	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	25.000	10.000			
	25.000	25.000			
	50.000	10.000			
	50.000	20.000			
	50.000	50.000			
	75.000	30.000			
	100.000	40.000			
	100.000	50.000			
	100.000	100.000			
	300.000	120.000			
	300.000	300.000			
	1000.000	400.000			
	Total				

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Asymmetric xDSL	0.384	0.256			

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	0.512	0.256			
	0.768	0.512			
	1.000	0.512			
	1.500	0.512			
	3.000	0.512			
	4.000	0.512			
	5.000	0.512			
	6.000	0.512			
	7.000	0.768			
	10.000	0.768			
	15.000	0.768			
	15.000	1.000			
	15.000	2.000			
	25.000	1.500			
	25.000	2.000			
	25.000	5.000			

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	50.000	10.000			
	0.768	0.512			
	1.000	0.512			
	1.500	0.512			
	2.000	2.000			
	3.000	0.512			
	4.000	0.512			
	5.000	0.512			
Optical Carrier/Fiber to the End User	6.000	0.512			
	7.000	0.864			
	10.000	2.000			
	15.000	2.000			
	25.000	5.000			
	25.000	10.000			
	50.000	10.000			
	50.000	20.000			

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	50.000	50.000			
	75.000	30.000			
	100.000	40.000			
	100.000	50.000			
	100.000	100.000			
	300.000	120.000			
	300.000	300.000			
	1000.000	400.000			
	1.500	1.500			
	2.000	2.000			
	3.000	3.000			
	4.000	4.000			
Symmetric xDSL	6.000	6.000			
	12.000	12.000			
	25.000	25.000			
	50.000	50.000			

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	100.000	100.000			
	Total				

Fixed Voice Subscription

VGE Lines and VoIP Subscriptions by State and End-user Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Alabama				
Arizona				
California				
Colorado				
Florida				
Georgia				
Idaho				
Indiana				
Kentucky				
Maine				
Michigan				

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Minnesota				
Mississippi				
New Hampshire				
New York				
Ohio				
Oklahoma				
Oregon				
Pennsylvania				
South Carolina				
Tennessee				
Vermont				
Virginia				
Washington	8352	7453	172	0
Wisconsin				
Total				

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Alabama		
Arizona		
California		
Colorado		
Florida		
Georgia		
Idaho		
Indiana		
Kentucky		
Maine		
Michigan		
Minnesota		
Mississippi		
New Hampshire		
New York		

State	Wholesale	UNE-L
Ohio		
Oklahoma		
Oregon		
Pennsylvania		
South Carolina		
Tennessee		
Vermont		
Virginia		
Washington		
Wisconsin		
Total		

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Alabama							

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Arizona							
California							
Colorado							
Florida							
Georgia							
Idaho							
Indiana							
Kentucky							
Maine							
Michigan							
Minnesota							
Mississippi							
New Hampshire							
New York							

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Ohio							
Oklahoma							
Oregon							
Pennsylvania							
South Carolina							
Tennessee							
Vermont							
Virginia							
Washington	3352	6723	1629	342	6611	321	578
Wisconsin							
Total							

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership				by Last-mile Medium		
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper

State	Total	by Ownership				by Last-mile Medium		
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Ohio								
Oklahoma								
Oregon								
Pennsylvania								
South Carolina								
Tennessee								
Vermont								
Virginia								
Washington	8352	8352	0	0	30	0	0	8322
Wisconsin								
Total								

Fixed Voice Subscription (iVoIP)

Over-the-top VoIP Subscriptions by State and End-user Type

State	Total	Consumer	Business / Govt
Alabama			

State	Total	Consumer	Business / Govt
Florida			
Georgia			
Indiana			
Kentucky			
Maine			
Michigan			
Minnesota			
New Hampshire			
Oklahoma			
South Carolina			
Tennessee			
Vermont			
Virginia			
Washington	█	█	█
Wisconsin			
Total			
