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(RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

**FRN:**

0004948105

**Data as of:**

Dec 31, 2017

**Operations:**

ILEC

**Submission Status:**

Original - Submitted

**Last Updated:**

Feb 28, 2018 10:46:21

**Filer Identification**

| **Section** | **Question** | **Response** |
| --- | --- | --- |
| **Filer Information** | Provider Name | TDS TELECOMMUNICATIONS CORPORATION |
| Holding Company Name | Telephone and Data Systems, Inc. |
| SAC ID | 100005, 100007, 100010, 100011, 100024, 100031, 100034, 120045, 120047, 120049, 120050, 123321, 140058, 140061, 140062, 150089, 150092, 150114, 150118, 150129, 150133, 170183, 170206, 190217, 190253, 193029, 210338, 220338, 220346, 220351, 220375, 240533, 240535, 240544, 240551, 250284, 250311, 250314, 260411, 260412, 260417, 280448, 283301, 287449, 290559, 290566, 290575, 290578, 300585, 300607, 300613, 300645, 300662, 310672, 310677, 310685, 310726, 310738, 320744, 320776, 320777, 320778, 320788, 320809, 320816, 320829, 320830, 320837, 330844, 330849, 330851, 330856, 330859, 330875, 330880, 330881, 330909, 330914, 330915, 330917, 330930, 330943, 330945, 330952, 330954, 330955, 330958, 330963, 330968, 361350, 361362, 361413, 361433, 361507, 431984, 432010, 452171, 452174, 462184, 462207, 472230, 522404, 522427, 522430, 532404, 542321, 542322, 542323 |
| 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 |
| **Data Contact Information** | Data Contact Name | Pam Trickel |
| Data Contact Phone Number | (608) 664-7872 |
| Data Contact E-mail | pamela.trickel@tdstelecom.com |
| **Emergency Operations Contact Information** | Emergency Operations Name | Network Operations Management |
| Emergency Operations Phone Number | (888) 790-1216 |
| Emergency Operations E-mail | telecom.network.management@tdstelecom.com |
| **Certifying Official Contact Information** | Certifying Official Name | Andrew Petersen | |
| Certifying Official Phone Number | (608) 664-4155 | |
| Certifying Official E-mail | andrew.petersen@tdstelecom.com | |

**Data Submitted**

| **Form Section** | **File Name** | **Date & Time** | **Number of Rows** | |
| --- | --- | --- | --- | --- |
| Fixed Broadband Deployment | fixed\_broadband\_deploymentilec.csv | Feb 22, 2018 06:46:01 | 77401 |
| Fixed Broadband Subscription | 201712\_ilec\_data\_Crosstab.csv | Feb 26, 2018 14:19:29 | 7664 |
| Fixed Voice Subscription | 201712\_ilec\_voice\_Crosstab.csv | Feb 21, 2018 15:56:29 | 1166 |

**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 |  |
| VDSL |  |
| **Colorado** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Florida** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Georgia** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Idaho** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| VDSL |  |
| **Indiana** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Kentucky** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Maine** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Michigan** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Minnesota** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Mississippi** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **New Hampshire** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **New York** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| VDSL |  |
| **North Carolina** | TDS TELECOM | ADSL2 |  |
| **Ohio** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| VDSL |  |
| **Oklahoma** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Oregon** | TDS TELECOM | Asymmetric xDSL |  |
| **Pennsylvania** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| VDSL |  |
| **South Carolina** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| VDSL |  |
| **Tennessee** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **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 | 471 |
| Asymmetric xDSL | 441 |
| Optical Carrier/Fiber to the End User | 10 |
| VDSL | 309 |
| **Wisconsin** | TDS TELECOM | ADSL2 |  |
| Asymmetric xDSL |  |
| Optical Carrier/Fiber to the End User |  |
| VDSL |  |
| **Total** | | |  |

**Fixed Broadband Subscription**

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

| **State** | **Technology** | **Census Tracts** | **Subscriptions** | | |
| --- | --- | --- | --- | --- | --- |
| **Consumer** | **Business / Govt** | **Total** |
| **Alabama** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| Symmetric xDSL |  |  |  |  |
| **Arizona** | Asymmetric xDSL |  |  |  |  |
| **California** | Asymmetric xDSL |  |  |  |  |
| **Colorado** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| **Florida** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| Symmetric xDSL |  |  |  |  |
| **Georgia** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| Symmetric xDSL |  |  |  |  |
| **Idaho** | 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 |  |  |  |  |
| **Minnesota** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| Symmetric xDSL |  |  |  |  |
| **Mississippi** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| **New Hampshire** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| Symmetric xDSL |  |  |  |  |
| **New York** | Asymmetric xDSL |  |  |  |  |
| **Ohio** | Asymmetric xDSL |  |  |  |  |
| **Oklahoma** | Asymmetric xDSL |  |  |  |  |
| Optical Carrier/Fiber to the End User |  |  |  |  |
| Symmetric xDSL |  |  |  |  |
| **Oregon** | Asymmetric xDSL |  |  |  |  |
| **Pennsylvania** | Asymmetric xDSL |  |  |  |  |
| **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 | 127 | 5993 | 303 | 6296 |
| Optical Carrier/Fiber to the End User | 8 | 26 | 0 | 26 |
| Symmetric xDSL | 7 | 0 | 10 | 10 |
| **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 |  | |  | |  | |
| 0.768 | | 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 |  | |  | |  | |
| 4.000 | | 0.512 |  | |  | |  | |
| 4.000 | | 4.000 |  | |  | |  | |
| 5.000 | | 0.512 |  | |  | |  | |
| 5.000 | | 512.000 |  | |  | |  | |
| 6.000 | | 0.512 |  | |  | |  | |
| 6.000 | | 6.000 |  | |  | |  | |
| 7.000 | | 0.768 |  | |  | |  | |
| 10.000 | | 0.768 |  | |  | |  | |
| 10.000 | | 2.000 |  | |  | |  | |
| 12.000 | | 12.000 |  | |  | |  | |
| 15.000 | | 0.768 |  | |  | |  | |
| 15.000 | | 1.000 |  | |  | |  | |
| 15.000 | | 2.000 |  | |  | |  | |
| 15.000 | | 768.000 |  | |  | |  | |
| 25.000 | | 1.500 |  | |  | |  | |
| 25.000 | | 2.000 |  | |  | |  | |
| 25.000 | | 5.000 |  | |  | |  | |
| 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 | |  | |  | |  | |
| 0.768 | | 0.512 | |  | |  | |  | |
| 1.000 | | 0.512 | |  | |  | |  | |
| 1.500 | | 0.512 | |  | |  | |  | |
| 3.000 | | 0.512 | |  | |  | |  | |
| 4.000 | | 0.512 | |  | |  | |  | |
| 5.000 | | 0.512 | |  | |  | |  | |
| 5.000 | | 512.000 | |  | |  | |  | |
| 6.000 | | 0.512 | |  | |  | |  | |
| 7.000 | | 0.768 | |  | |  | |  | |
| 10.000 | | 0.768 | |  | |  | |  | |
| 15.000 | | 0.768 | |  | |  | |  | |
| 15.000 | | 1.000 | |  | |  | |  | |
| 15.000 | | 2.000 | |  | |  | |  | |
| 15.000 | | 768.000 | |  | |  | |  | |
| 25.000 | | 1.500 | |  | |  | |  | |
| 25.000 | | 2.000 | |  | |  | |  | |
| 25.000 | | 5.000 | |  | |  | |  | |
| 50.000 | | 10.000 | |  | |  | |  | |
| **Optical Carrier/Fiber to the End User** | 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 | |  | |  | |  | |
| 10.000 | | 2.000 | |  | |  | |  | |
| 15.000 | | 2.000 | |  | |  | |  | |
| 25.000 | | 5.000 | |  | |  | |  | |
| 25.000 | | 10.000 | |  | |  | |  | |
| 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 | |  | |  | |  | |
| **Symmetric xDSL** | 1.500 | | 1.500 | |  | |  | |  | |
| 2.000 | | 2.000 | |  | |  | |  | |
| 3.000 | | 3.000 | |  | |  | |  | |
| 4.000 | | 4.000 | |  | |  | |  | |
| 6.000 | | 6.000 | |  | |  | |  | |
| 12.000 | | 12.000 | |  | |  | |  | |
| 25.000 | | 25.000 | |  | |  | |  | |
| 50.000 | | 50.000 | |  | |  | |  | |
| 100.000 | | 100.000 | |  | |  | |  | |
|  | | | | | |  | |  | |  | |

**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** | |  | |  | |  |  | |
| **Minnesota** | |  | |  | |  |  | |
| **Mississippi** | |  | |  | |  |  | |
| **New Hampshire** | |  | |  | |  |  | |
| **New York** | |  | |  | |  |  | |
| **Ohio** | |  | |  | |  |  | |
| **Oklahoma** | |  | |  | |  |  | |
| **Oregon** | |  | |  | |  |  | |
| **Pennsylvania** | |  | |  | |  |  | |
| **South Carolina** | |  | |  | |  |  | |
| **Tennessee** | |  | |  | |  |  | |
| **Vermont** | |  | |  | |  |  | |
| **Virginia** | |  | |  | |  |  | |
| **Washington** | | 8067 | | 7209 | | 167 | 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** |  |  | |
| **Ohio** |  |  | |
| **Oklahoma** |  |  | |
| **Oregon** |  |  | |
| **Pennsylvania** |  |  | |
| **South Carolina** |  |  | |
| **Tennessee** |  |  | |
| **Vermont** |  |  | |
| **Virginia** |  |  | |
| **Washington** | 3 | 0 | |
| **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** | |  |  | |  |  |  |  | | |  | |
| **Arizona** | |  |  | |  |  |  |  | | |  | |
| **California** | |  |  | |  |  |  |  | | |  | |
| **Colorado** | |  |  | |  |  |  |  | | |  | |
| **Florida** | |  |  | |  |  |  |  | | |  | |
| **Georgia** | |  |  | |  |  |  |  | | |  | |
| **Idaho** | |  |  | |  |  |  |  | | |  | |
| **Indiana** | |  |  | |  |  |  |  | | |  | |
| **Kentucky** | |  |  | |  |  |  |  | | |  | |
| **Maine** | |  |  | |  |  |  |  | | |  | |
| **Michigan** | |  |  | |  |  |  |  | | |  | |
| **Minnesota** | |  |  | |  |  |  |  | | |  | |
| **Mississippi** | |  |  | |  |  |  |  | | |  | |
| **New Hampshire** | |  |  | |  |  |  |  | | |  | |
| **New York** | |  |  | |  |  |  |  | | |  | |
| **Ohio** | |  |  | |  |  |  |  | | |  | |
| **Oklahoma** | |  |  | |  |  |  |  | | |  | |
| **Oregon** | |  |  | |  |  |  |  | | |  | |
| **Pennsylvania** | |  |  | |  |  |  |  | | |  | |
| **South Carolina** | |  |  | |  |  |  |  | | |  | |
| **Tennessee** | |  |  | |  |  |  |  | | |  | |
| **Vermont** | |  |  | |  |  |  |  | | |  | |
| **Virginia** | |  |  | |  |  |  |  | | |  | |
| **Washington** | | 8067 | 6503 | | 1564 | 799 | 6410 | 280 | | | 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** | |
| **Alabama** |  |  | |  | |  | |  | |  | |  | |  | |
| **Arizona** |  |  | |  | |  | |  | |  | |  | |  | |
| **California** |  |  | |  | |  | |  | |  | |  | |  | |
| **Colorado** |  |  | |  | |  | |  | |  | |  | |  | |
| **Florida** |  |  | |  | |  | |  | |  | |  | |  | |
| **Georgia** |  |  | |  | |  | |  | |  | |  | |  | |
| **Idaho** |  |  | |  | |  | |  | |  | |  | |  | |
| **Indiana** |  |  | |  | |  | |  | |  | |  | |  | |
| **Kentucky** |  |  | |  | |  | |  | |  | |  | |  | |
| **Maine** |  |  | |  | |  | |  | |  | |  | |  | |
| **Michigan** |  |  | |  | |  | |  | |  | |  | |  | |
| **Minnesota** |  |  | |  | |  | |  | |  | |  | |  | |
| **Mississippi** |  |  | |  | |  | |  | |  | |  | |  | |
| **New Hampshire** |  |  | |  | |  | |  | |  | |  | |  | |
| **New York** |  |  | |  | |  | |  | |  | |  | |  | |
| **Ohio** |  |  | |  | |  | |  | |  | |  | |  | |
| **Oklahoma** |  |  | |  | |  | |  | |  | |  | |  | |
| **Oregon** |  |  | |  | |  | |  | |  | |  | |  | |
| **Pennsylvania** |  |  | |  | |  | |  | |  | |  | |  | |
| **South Carolina** |  |  | |  | |  | |  | |  | |  | |  | |
| **Tennessee** |  |  | |  | |  | |  | |  | |  | |  | |
| **Vermont** |  |  | |  | |  | |  | |  | |  | |  | |
| **Virginia** |  |  | |  | |  | |  | |  | |  | |  | |
| **Washington** | 8067 | 8067 | | 0 | | 0 | | 32 | | 0 | | 0 | | 8035 | |
| **Wisconsin** |  |  | |  | |  | |  | |  | |  | |  | |
| **Total** |  |  | |  | |  | |  | |  | |  | |  | |

**Fixed Voice Subscription (iVoIP)**

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

| **State** | **Total** | **Consumer** | | **Business / Govt** | |
| --- | --- | --- | --- | --- | --- |
| **Alabama** |  |  |  | |
| **Florida** |  |  |  | |
| **Georgia** |  |  |  | |
| **Indiana** |  |  |  | |
| **Kentucky** |  |  |  | |
| **Maine** |  |  |  | |
| **Michigan** |  |  |  | |
| **Minnesota** |  |  |  | |
| **New Hampshire** |  |  |  | |
| **Oklahoma** |  |  |  | |
| **South Carolina** |  |  |  | |
| **Tennessee** |  |  |  | |
| **Vermont** |  |  |  | |
| **Virginia** |  |  |  | |
| **Washington** | 0 | 0 | 0 | |
| **Wisconsin** |  |  |  | |
| **Total** |  |  |  | |

**All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium**

| **State** | **Total** | **by End-user Type** | | **by Bundle** | | | **by Last-mile Medium** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Consumer** | **Business / Government** | **Sold w/ Internet** | **Sold w/o Internet** | | **FTTP** | **Coax** | | **Fixed Wireless** | | **Copper** | |
| **Alabama** |  |  |  |  |  |  |  | |  | |  | |
| **Florida** |  |  |  |  |  |  |  | |  | |  | |
| **Georgia** |  |  |  |  |  |  |  | |  | |  | |
| **Indiana** |  |  |  |  |  |  |  | |  | |  | |
| **Kentucky** |  |  |  |  |  |  |  | |  | |  | |
| **Maine** |  |  |  |  |  |  |  | |  | |  | |
| **Michigan** |  |  |  |  |  |  |  | |  | |  | |
| **Minnesota** |  |  |  |  |  |  |  | |  | |  | |
| **New Hampshire** |  |  |  |  |  |  |  | |  | |  | |
| **Oklahoma** |  |  |  |  |  |  |  | |  | |  | |
| **South Carolina** |  |  |  |  |  |  |  | |  | |  | |
| **Tennessee** |  |  |  |  |  |  |  | |  | |  | |
| **Vermont** |  |  |  |  |  |  |  | |  | |  | |
| **Virginia** |  |  |  |  |  |  |  | |  | |  | |
| **Washington** | 167 | 0 | 167 | 167 | 0 | 0 | 0 | | 0 | | 167 | |
| **Wisconsin** |  |  |  |  |  |  |  | |  | |  | |
| **Total** |  |  |  |  |  |  |  | |  | |  | |