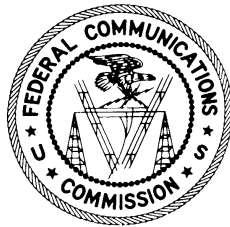


# **Local Telephone Competition: Status as of December 31, 2008**

Industry Analysis and Technology Division  
Wireline Competition Bureau  
June 2010



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## Local Telephone Competition: Status as of December 31, 2008

**Introduction.** The Commission revised its FCC Form 477 program in 2008 to collect comprehensive information about retail interconnected Voice over Internet Protocol (“interconnected VoIP”) service starting with data for year-end 2008.<sup>1,2</sup> In this report, we highlight summary statistics for interconnected VoIP and explain the newly available data.<sup>3</sup> At the same time, we continue to summarize the comprehensive information that Form 477 collects about more-traditional wireline local telephone service (“switched access lines”) in the tables and charts that constitute the body of the report, including the extent to which retail switched access lines are sold in bundles with (“presubscribed for”) long distance calling.

We note that previous reports in this series included certain ZIP Code-based information about traditional wireline telephone service. We update the ZIP Code-based information in this report by including interconnected VoIP service retailers.<sup>4</sup> We note that there is at present no Form 477 requirement to report

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<sup>1</sup> *Development of Nationwide Broadband Data to Evaluate Reasonable and Timely Deployment of Advanced Services to All Americans, Improvement of Wireless Broadband Subscriber Data, and Development of Data on Interconnected Voice over Internet Protocol (VoIP) Subscriber Data*, WC Docket No. 07-38, Report and Order and Further Notice of Proposed Rulemaking, 23 FCC Rcd 9691 (2008) (*2008 Broadband Data Gathering Order*); Order on Reconsideration, 23 FCC Rcd 9800 (2008). Qualifying entities file FCC Form 477 each year on March 1 (reporting data for the preceding December 31) and September 1 (reporting data for June 30 of the same year). The first data collected on Form 477 were for December 31, 1999. Effective with the filing of data as of December 31, 2008, Form 477 is a Web-based electronic filing system, and the reporting of information about voice service subscribers is mandatory for providers of interconnected VoIP service as well as for local exchange carriers and facilities-based providers of mobile telephony service. Information about the filing system and the Form 477 program generally is available at <http://www.fcc.gov/form477/>.

<sup>2</sup> The FCC’s rules (at 47 C.F.R. § 9.3) state:

An interconnected Voice over Internet Protocol (VoIP) service is a service that:

- (1) Enables real-time, two-way voice communications;
- (2) Requires a broadband connection from the user’s location;
- (3) Requires Internet protocol-compatible customer premises equipment (CPE); and
- (4) Permits users generally to receive calls that originate on the public switched telephone network and to terminate calls to the public switched telephone network.

We note that the current interpretation of element (4) of the definition excludes the VoIP services that Skype offers in the United States, and subscribers to those services are not reported on Form 477.

<sup>3</sup> Prior to the December 2008 data, companies that solely provide interconnected VoIP service did not file Form 477. Local exchange carriers were required to file Form 477 but were not required to report interconnected VoIP subscriptions. However, some local exchange carriers chose to include interconnected VoIP subscriptions in the number of retail (end-user) switched access lines that they reported.

<sup>4</sup> Wireline service providers report whether they have at least one residential or business customer in each ZIP Code, using either switched access or interconnected VoIP. Because providers may not offer service across an entire ZIP Code and because different providers may target different customer segments in areas where they provide service, we cannot conclude that the number of providers identified as delivering wireline service within a ZIP Code represents the number of options available to any specific customer within that ZIP Code. We further note that these data on the number of providers in a ZIP Code do not indicate whether a particular provider is offering service solely over its own last-mile facilities or is using the facilities of another carrier or entity.

any telephone service information at the census-tract level of detail.<sup>5</sup> We also update summary statistics for the mobile telephony subscribership information collected by Form 477.<sup>6,7</sup>

**Explanation of terminology used in this report.**

- We use “Non-ILEC” to refer to any service provider who does not have incumbent local exchange carrier (ILEC) regulatory status, including, for example, competitive local exchange carriers (CLECs), including both those who provide service over their own facilities and those who employ ILEC facilities or services, cable companies without CLEC regulatory status who provide interconnected VoIP service, and over-the-top (OTT) interconnected VoIP providers who neither own nor operate telecommunications facilities.
- All “VoIP subscriptions” discussed in this report are interconnected VoIP subscriptions.
- When referring specifically to ILECs, we use the term “total lines” to mean the sum of ILEC-reported retail (end-user) switched access lines, ILEC interconnected VoIP subscriptions, and ILEC wholesale switched access lines and unbundled network elements (UNEs) provided to CLECs.
- We specify “RBOC” and “Other ILEC” when we wish to distinguish between information reported by the Regional Bell Operating Companies (that is, AT&T, Qwest, and Verizon) and information reported by all other ILECs as a group.
- We place information into the non-ILEC category if it pertains to the CLEC affiliate of an ILEC who is not one of the RBOCs.
- We place information into the ILEC category to the extent the information pertains to the CLEC affiliate of an RBOC who is operating within the RBOC’s ILEC service area.
- When counting service providers who have any retail customers in a particular geography (for example, a state or a ZIP Code), we count a holding company or common-control entity no more than once in any specified sub-category of total providers.
- Nationwide counts of providers are unique counts for any specified sub-category of total providers (for example, all non-ILECs or all interconnected VoIP providers); an entity operating in multiple states is counted only once.

**Wireline retail local telephone service.** We begin by summarizing the information that Form 477 collects about retail local telephone service customers served by the two wireline technologies – “end-user” switched access lines and interconnected VoIP “subscriptions.” We note that the Form 477 program counts lines and subscriptions as the maximum number of voice calls that can be active at one

<sup>5</sup> This contrasts with the census tract-based broadband reporting requirements the Commission adopted in 2008, at which time the Commission sought comment about requiring local exchange carriers and interconnected VoIP service providers to report the number of voice telephone service connections, and the percentage of these that are residential, at the 5-digit ZIP Code or census tract level of detail. *See 2008 Broadband Data Gathering Order*, 23 FCC Rcd at 9708, para. 33.

<sup>6</sup> We emphasize that the presentation of mobile wireless telephone subscriber counts in Table 17 of this report does not constitute, or imply, Commission analysis of the extent to which wireline and mobile wireless telephone services are demand substitutes or complements in general or in any particular situation. In the Form 477 program, commercial mobile radio service (CMRS) carriers who own or operate wireless networks report both their retail telephone service customers and the retail customers of mobile wireless telephone service resellers.

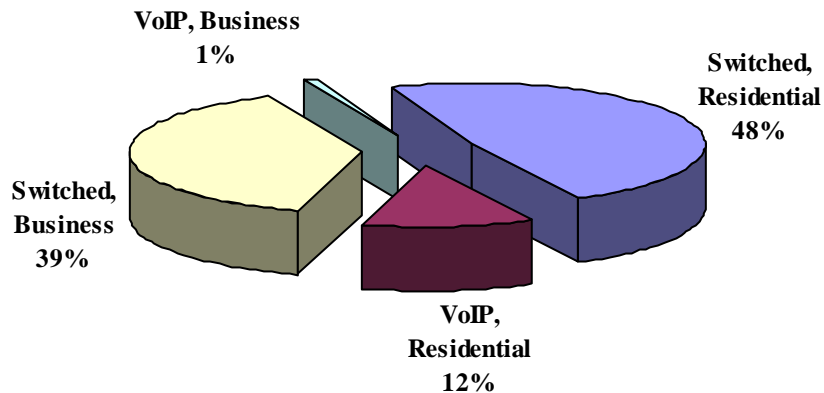
<sup>7</sup> For an in-depth discussion of mobile wireless services, *see, e.g., Implementation of Section 6002(b) of the Omnibus Budget Reconciliation Act of 1993, Annual Report and Analysis of Competitive Market Conditions With Respect to Mobile Wireless, Including Commercial Mobile Services*, WT Docket No. 09-66, Fourteenth Report, FCC 10-81 (2010), available at [http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/FCC-10-81A1.doc](http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-81A1.doc).

time from the retail customer’s location (for example, a business customer’s premises) under the service plan that the end user has purchased from a local exchange carrier or interconnected VoIP service retailer.<sup>8</sup>

- At year-end 2008, there were 141 million end-user switched access lines in service and 21 million interconnected VoIP subscriptions in the United States, or about 162 million wireline retail local telephone service connections in total. Of these, 97 million were residential connections and 65 million were business connections. See Figure 1.
- Cross-classified by technology and customer type, the 162 million wireline retail local telephone service connections were: 48% residential switched access lines, 39% business switched access lines, 12% residential VoIP subscriptions, and 1% business VoIP subscriptions. See Figure 1.

**Figure 1**  
**Wireline Retail Local Telephone Service Connections by Technology and Customer Type as of December 31, 2008 (In Thousands)**

	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
<b>Residential</b>	78,174	19,246	97,419
<b>Business</b>	62,801	2,009	64,810
<b>Total</b>	140,975	21,255	162,230



**Service providers.** Next, we summarize the information that Form 477 collects about the retailers of wireline local telephone service. These include a variety of entities that are subject to different federal communications regulation. For example, they include the local telephone companies – both the long-established ILECs and the newer CLECs. They also include cable TV system operators, some of whom acquired CLEC regulatory status to provide switched access lines and others who chose to provide interconnected VoIP service over the communications facilities they own. More recently, they include OTT retailers of interconnected VoIP applications, such as Vonage.

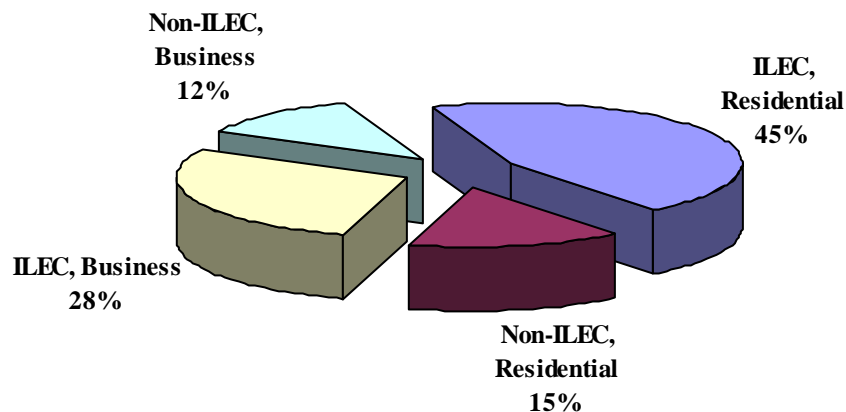
<sup>8</sup> Form 477 data may not count all VoIP phone connections to IP PBX equipment that is owned by end users because of the variety of ways the PBX may connect to the public switched telephone network.

The Form 477 program – and this report – distinguishes ILEC operations from all other operations. Generally, ILEC operations are more closely regulated than non-ILEC operations because they operated as local monopolies for many years. After the Telecommunications Act of 1996 became law, some ILECs established CLEC affiliates (usually within a holding company or common-control structure) that compete against other ILECs. Also, some ILECs have acquired CLECs. In particular, RBOCs AT&T and Verizon have acquired major CLECs that operated within their ILEC service areas and elsewhere.<sup>9</sup> With this brief overview as background, we report:

- Cross-classified by customer type (residential or business) and the service retailer's regulatory status (ILEC or non-ILEC), the 162 million wireline retail local telephone service connections (including both switched access lines and interconnected VoIP subscriptions) at year-end 2008 were: 45% ILEC residential service, 28% ILECs business service, 15% non-ILECs residential service, and 12% non-ILECs business service. See Figure 2.

**Figure 2**  
**Wireline Retail Local Telephone Service Connections by Customer Type and Regulatory Status as of December 31, 2008 (In Thousands)**

	<b>Residential</b>	<b>Business</b>	<b>Total</b>
<b>ILEC</b>	72,785	45,718	118,503
<b>Non-ILEC</b>	24,634	19,092	43,726
<b>Total</b>	<b>97,419</b>	<b>64,810</b>	<b>162,230</b>

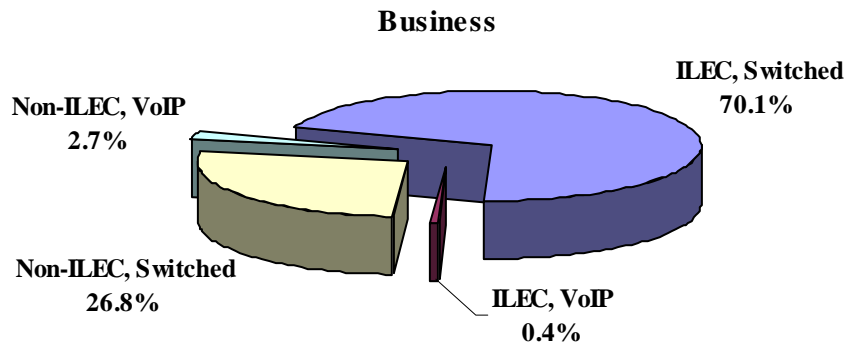
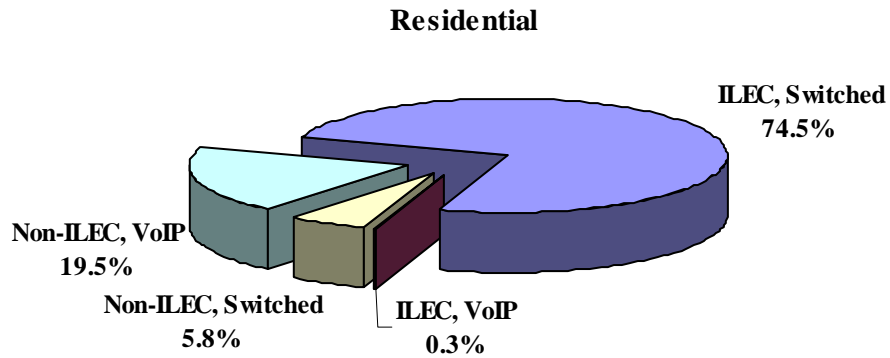


- Additionally cross-classified by technology, the 97 million wireline residential connections at year-end 2008 were: 74.5% ILEC switched access lines, 19.5% non-ILEC interconnected VoIP subscriptions, 5.8% non-ILEC switched access lines, and 0.3% ILEC interconnected VoIP subscriptions. By contrast, the 65 million wireline business connections were: 70.1% ILEC switched access lines, 26.8% non-ILEC switched access lines, 2.7% non-ILEC interconnected VoIP subscriptions, and 0.4% ILEC interconnected VoIP subscriptions. See Figure 3.

<sup>9</sup> Qwest is the third of the three surviving RBOCs.

**Figure 3**  
**Wireline Retail Local Telephone Service Connections by Technology, Regulatory Status,**  
**and Customer Type as of December 31, 2008 (In Thousands)**

<b>Total</b>	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
ILEC	117,975	529	118,503
Non-ILEC	23,000	20,726	43,726
<b>Total</b>	<b>140,975</b>	<b>21,255</b>	<b>162,230</b>
<b>Residential</b>			
ILEC	72,531	254	72,785
Non-ILEC	5,643	18,991	24,634
<b>Residential Total</b>	<b>78,174</b>	<b>19,245</b>	<b>97,419</b>
<b>Business</b>			
ILEC	45,444	274	45,718
Non-ILEC	17,357	1,735	19,092
<b>Business Total</b>	<b>62,801</b>	<b>2,009</b>	<b>64,810</b>





**Interconnected VoIP service.** Turning to consider the wireline local telephone service technologies individually, we discuss the new information about interconnected VoIP service that Form 477 now collects. In addition to counting interconnected VoIP subscriptions comprehensively, the recently modified Form 477 focuses on identifying three sets of information.

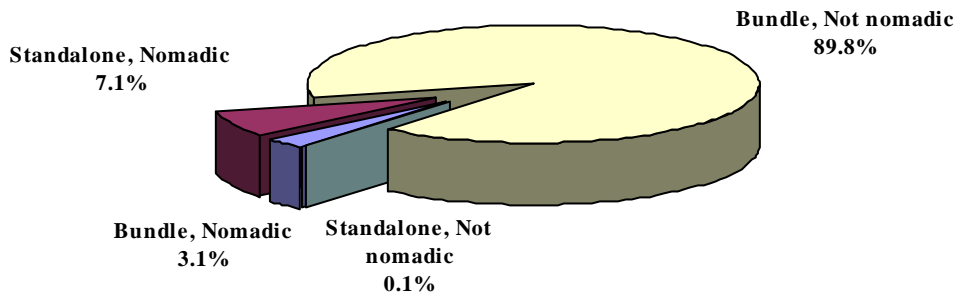
- First, filers must report retail interconnected VoIP service bundles that include broadband Internet access service (“broadband bundle”). More specifically, Form 477 now requires interconnected VoIP service retailers to distinguish between those interconnected VoIP subscriptions they sell in a package with broadband Internet access service and all the other interconnected VoIP subscriptions they sell (“standalone” subscriptions). We note that a retailer might complete the broadband bundle with an Internet access service connection that it owns, with a leased ILEC local loop or service that the retailer has equipped to operate as a broadband Internet access service connection, or with resold Internet access service. We also note that a retailer’s standalone service might be OTT interconnected VoIP but it also might be, for example, a standalone interconnected VoIP subscription sold by a cable system operator or a cable system’s bundle of interconnected VoIP and cable TV service.
- Second, filers report whether or not interconnected VoIP subscriptions include, as a service feature, the capability to use the service over any broadband connection to which the customer has access, for example, at a hotel or vacation residence (“nomadic” functionality).
- Third, filers identify the different broadband technologies (for example, cable modem Internet access service) in the broadband bundle.

The Form 477 data cross-classify the first two of the three new sets of information. See Figure 4.

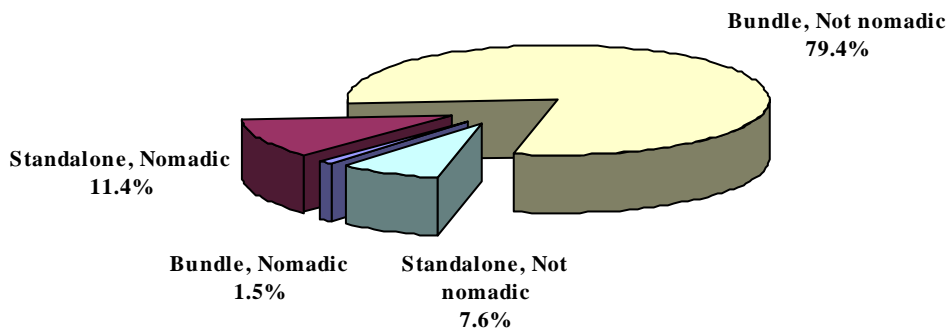
**Figure 4**  
**Interconnected VoIP Subscribership by Reported Service Features**  
**as of December 31, 2008 (In Thousands)**

<b>Total</b>	<b>Broadband Bundle</b>	<b>Standalone VoIP</b>	<b>Total</b>
Nomadic	333	2,409	2,742
Not nomadic	16,927	1,585	18,513
<b>Total</b>	<b>17,260</b>	<b>3,995</b>	<b>21,255</b>
<b>ILEC</b>			
Nomadic	16	37	54
Not nomadic	475	0	475
<b>ILEC Total</b>	<b>491</b>	<b>38</b>	<b>529</b>
<b>Non-ILEC</b>			
Nomadic	317	2,372	2,688
Not nomadic	16,453	1,585	18,038
<b>Non-ILEC Total</b>	<b>16,769</b>	<b>3,957</b>	<b>20,726</b>

**ILEC**



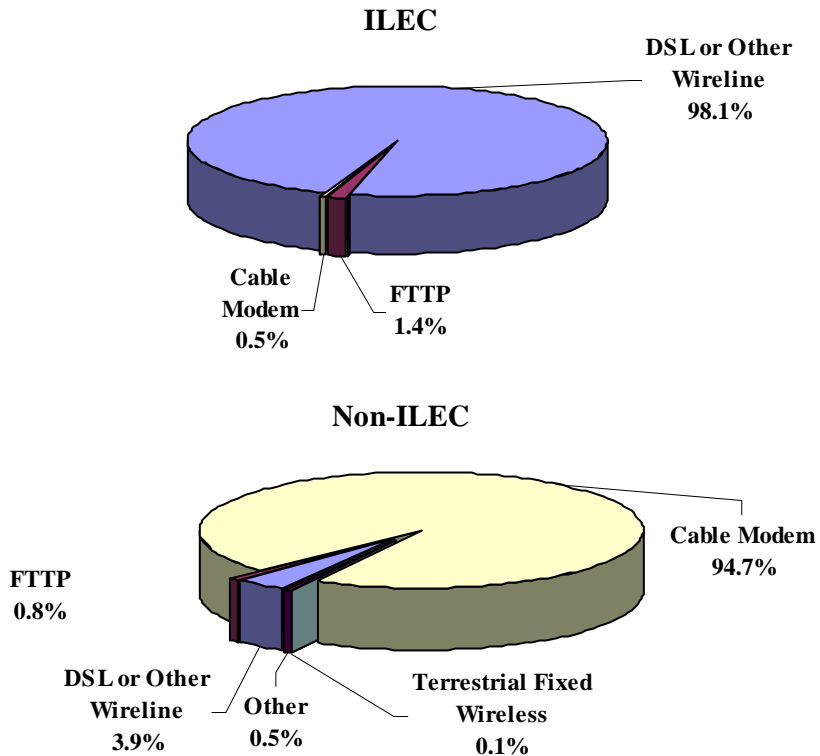
**Non-ILEC**



Form 477 collects the third type of newly available information – the technology of the Internet access connection – for broadband bundles but not for standalone interconnected VoIP. See Figure 5.<sup>10</sup>

**Figure 5**  
**Technology of Internet Access Connections in Interconnected VoIP**  
**Broadband Bundles as of December 31, 2008 (In Thousands)**

<b>Technology</b>	<b>ILEC</b>	<b>Non-ILEC</b>	<b>Total</b>
DSL or Other Wireline	481	658	1,139
FTTP	7	129	136
Cable Modem	2	15,879	15,881
Terrestrial Fixed Wireless	0	17	17
Other	0	87	87
<b>Total</b>	<b>491</b>	<b>16,769</b>	<b>17,260</b>

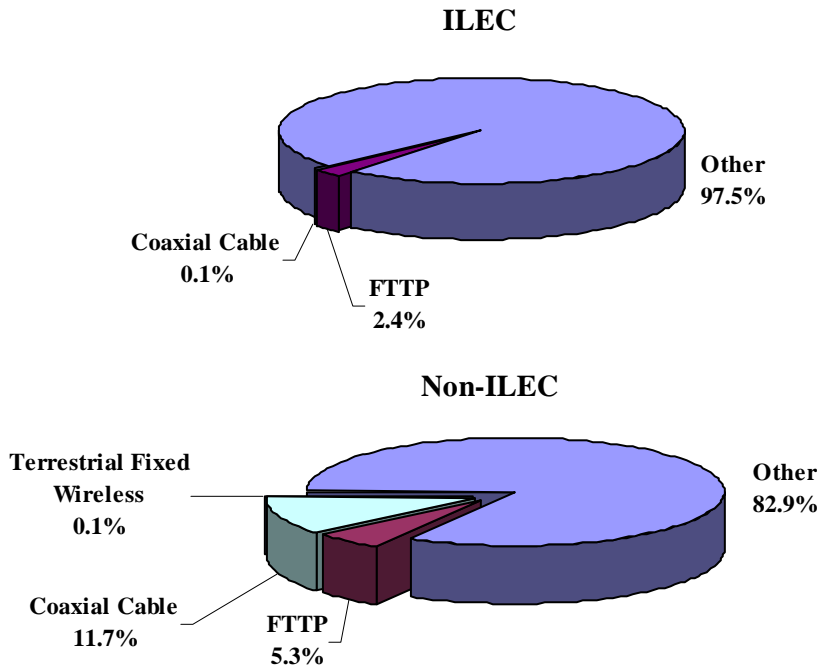


<sup>10</sup> Form 477 asks about five technology categories for the bundled Internet access connections, as specified in Figure 5. The “Other Wireline” component of the “DSL or Other Wireline” includes, for example, T-1 circuits and Ethernet over copper. “FTTP” is fiber to the premises.

**Switched access lines.** Turning to the second wireline local telephone service technology, we note that ILECs as a group predominantly deliver retail switched access lines over copper local loops. This appears also to be the case for those non-ILECs who report retail switched access lines.<sup>11</sup> See Figure 6.

**Figure 6  
Technology of Retail Switched Access Lines  
as of December 31, 2008 (In Thousands)**

<b>Technology</b>	<b>ILEC</b>	<b>Non-ILEC</b>	<b>Total</b>
FTTP	2,867	1,208	4,075
Coaxial Cable	99	2,702	2,801
Terrestrial Fixed Wireless	9	14	23
Other	114,999	19,076	134,075
<b>Total</b>	<b>117,975</b>	<b>23,000</b>	<b>140,975</b>



**Wholesale relationships for switched access lines.** We discuss briefly the information that Form 477 collects about wholesale relationships between CLECs and ILECs. ILECs typically own the communications facilities over which they provide retail switched access lines to homes and businesses.

<sup>11</sup> Form 477 filers have four choices for reporting the technology over which a retail switched access line terminates at the end user’s premises: FTTP, coaxial cable, fixed wireless, and (implicitly) the default category of copper local loop.

By contrast, CLECs use a range of methods to provide retail switched access lines: equipping ILEC UNE loops (“UNE-L”) as CLEC switched access lines,<sup>12</sup> reselling services (for example, reselling ILEC switched access lines obtained at wholesale rates, reselling ILEC lines obtained under commercial agreements that replaced the UNE-Platform (“UNE-P”), or equipping leased ILEC special access circuits as switched access lines), and equipping local loops that the CLEC owns.

- At year-end 2008, CLECs reported using several methods to provide their 23 million retail switched access lines: 42% (or 9.6 million lines) over ILEC facilities that the CLEC leased at regulated, cost-based UNE rates, 31% (or about 7.1 million lines) by reselling ILEC wholesale or retail services, and the remaining 28% (or about 6.3 million lines) over local loops that the CLEC owned. However, the information about wholesale relationships differs as reported by CLECs and by ILECs. See Figure 7.

**Figure 7**  
**Wholesale Relationships as Reported Respectively by CLECs and ILECs**  
**as of December 31, 2008 (In Thousands)**

	<b>CLEC</b> <b>Retail Switched</b> <b>Access Lines</b> <b>provisioned over</b> <b>ILEC Services</b> <b>(reported by CLECs)</b>	<b>ILEC</b> <b>Wholesale Switched</b> <b>Access Lines and</b> <b>UNEs provided to</b> <b>CLECs</b> <b>(reported by ILECs)</b>	<b>Difference</b>
<b>Resold ILEC services<sup>1</sup></b>	7,065	3,209	3,856
<b>UNE-P<sup>2</sup></b>	7,614	2,740	4,875
<b>UNE-L<sup>3</sup></b>	1,983	3,844	(1,861)
Total ILEC UNEs	9,597	6,583	3,014
Total ILEC services	16,662	9,792	6,870

<sup>1</sup> Resold ILEC services include switched access lines made available to CLECs at wholesale rates, resold Centrex, Integrated Services Digital Network (ISDN), or other ILEC services, ILEC special access circuits channelized to provide CLEC retail switched access lines, and ILEC switched access lines provided to CLECs under commercial agreements that replaced UNE-P. (See note 2.) Filers are instructed to count the number of voice-grade channels the retail customer purchased, not the theoretical capacity of the circuit over which the service was delivered. ILECs generally do not know (and do not report) which leased ILEC special access circuits are being used to provide CLEC retail switched access lines (which the CLECs do report).

<sup>2</sup> UNE-P was the combination of ILEC loop UNE, switching UNE, and transport UNE. The Commission directed CLECs to migrate their retail customers served by UNE-P to an alternative arrangement within 12 months of the effective date of the *Triennial Regulatory Review Order*, that is, by March 11, 2006. See C.F.R. § 51.319(d)(2)(ii).

<sup>3</sup> ILECs report the number of UNE-L they provide to CLECs but do not convert any high-capacity UNE-L, such as DS1 UNE loops, into voice-grade equivalents. By contrast, CLECs report the number of switched access lines their retail customers purchase which the CLEC provisioned over UNE-L obtained from ILECs. Note, however, that a CLEC might use UNE-L only to provide broadband Internet access connections.

<sup>12</sup> CLECs (as opposed to non-ILECs more generally) have certain regulatory rights to obtain ILEC local loops at cost-based UNE rates, which the CLEC may use to provide retail switched access lines or retail broadband Internet access connections. See C.F.R. § 51.307.

The reasons for the differences summarized in Figure 7 are not entirely clear. Inconsistent adherence to the Form 477 instructions, particular for reporting UNE-P, may be factor. It is also possible that CLECs acquired by ILECs are not uniformly following Form 477 instructions to report, as owned facilities, any affiliated-ILEC lines or UNEs that the CLEC used to provide its retail switched access lines. We will continue to work with Form 477 filers to clarify the reasons for the differences in reported information.

**Remainder of the report.** The remainder of the report consists of tables and charts that update and expand data presented earlier in this series. We present national data first, followed by state-specific data and, finally, summary statistics of the presence of competitors to the incumbent wireline local telephone service providers in individual ZIP Codes.<sup>13</sup>

\* \* \* \*

We invite users of this information to provide suggestions for improved analysis of data presented in this report by using the attached customer response form or by e-mailing comments to [IATDreports@fcc.gov](mailto:IATDreports@fcc.gov) for subject: Dec 2008 local telephone data. We encourage users of this information to provide suggestions for improved data collection by participating in any formal proceedings undertaken by the Commission to solicit comments for improvement of FCC Form 477.

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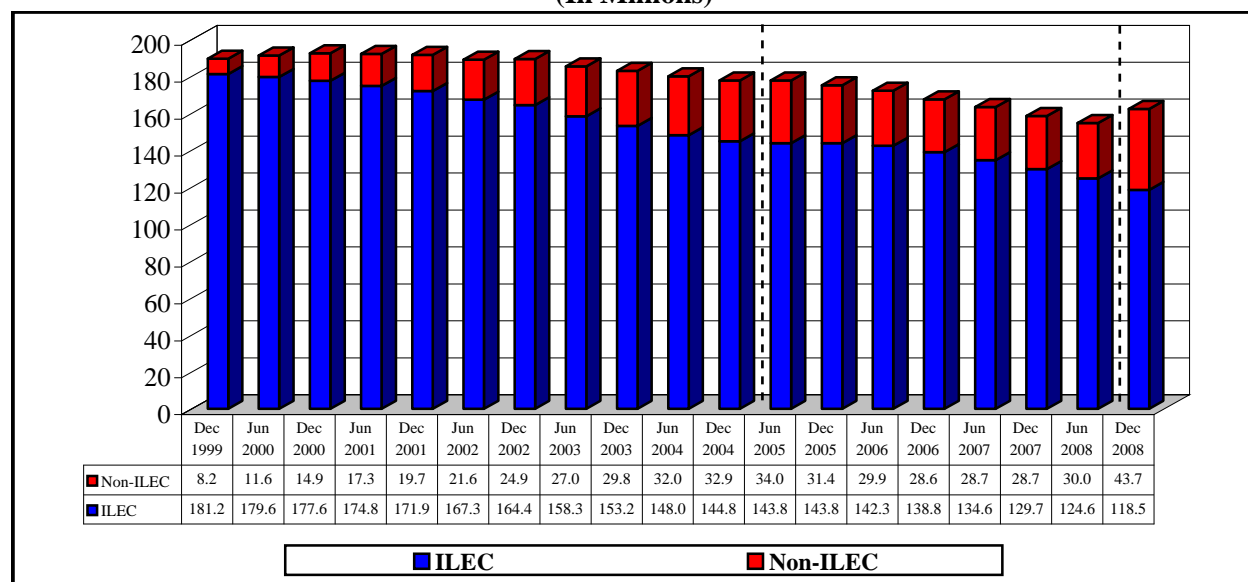
<sup>13</sup> In any individual ZIP Code, the competitors to ILECs may be CLECs or interconnected VoIP providers who are not affiliated with the ILEC, or ILECs, who serve end users in that ZIP Code. The information reported on Form 477 allows us to determine the number of competitors who have any end user customers (residential or business) in the ZIP Code. The competitors do not report the number or type of end user customers they have in individual ZIP Codes or where within the ZIP Code their customers are located.

**Table 1**  
**End-User Switched Access Lines and VoIP Subscriptions<sup>1</sup>**  
**(In Thousands)**

Date	Provided by		Total	Non-ILEC Share
	ILEC	Non-ILEC		
Dec 1999	181,203	8,194	189,397	4.3 %
Jun 2000	179,649	11,557	191,206	6.0
Dec 2000	177,561	14,871	192,432	7.7
Jun 2001	174,752	17,275	192,027	9.0
Dec 2001	171,917	19,653	191,571	10.3
Jun 2002	167,330	21,645	188,975	11.5
Dec 2002	164,386	24,864	189,250	13.1
Jun 2003	158,275	26,985	185,260	14.6
Dec 2003	153,158	29,775	182,933	16.3
Jun 2004	147,993	32,034	180,027	17.8
Dec 2004	144,810	32,881	177,691	18.5
Jun 2005	143,758	33,975	177,733	19.1
Dec 2005	143,773	31,388	175,161	17.9
Jun 2006	142,293	29,896	172,189	17.4
Dec 2006	138,834	28,626	167,460	17.1
Jun 2007	134,640	28,729	163,369	17.6
Dec 2007	129,693	28,725	158,418	18.1
Jun 2008	124,606	30,049	154,655	19.4
Dec 2008	118,503	43,726	162,230	27.0

<sup>1</sup> Only incumbent local exchange carriers (ILECs) and competitive local exchange carriers (CLECs) with at least 10,000 retail or wholesale switched access lines in service in a state were required to report through December 2004. All were required to report June 2005 and later data. Providers of interconnected VoIP service were first required to report subscribers as of December 2008, and individual ILECs and CLECs, to a varying and largely unknown degree, included or excluded VoIP subscribers in the earlier data. Interconnected VoIP is distinguished from VoIP service more generally by permitting users to receive calls that originate on the public switched telephone network and to terminate calls to the public switched telephone network. See 47 C.F.R. § 9.3. Form 477 counts both switched access lines and interconnected VoIP subscriptions as the maximum number of calls that may be active, simultaneously, from the end user's location under the purchased service plan.

**Chart 1**  
**End-User Switched Access Lines and VoIP Subscriptions**  
**(In Millions)**

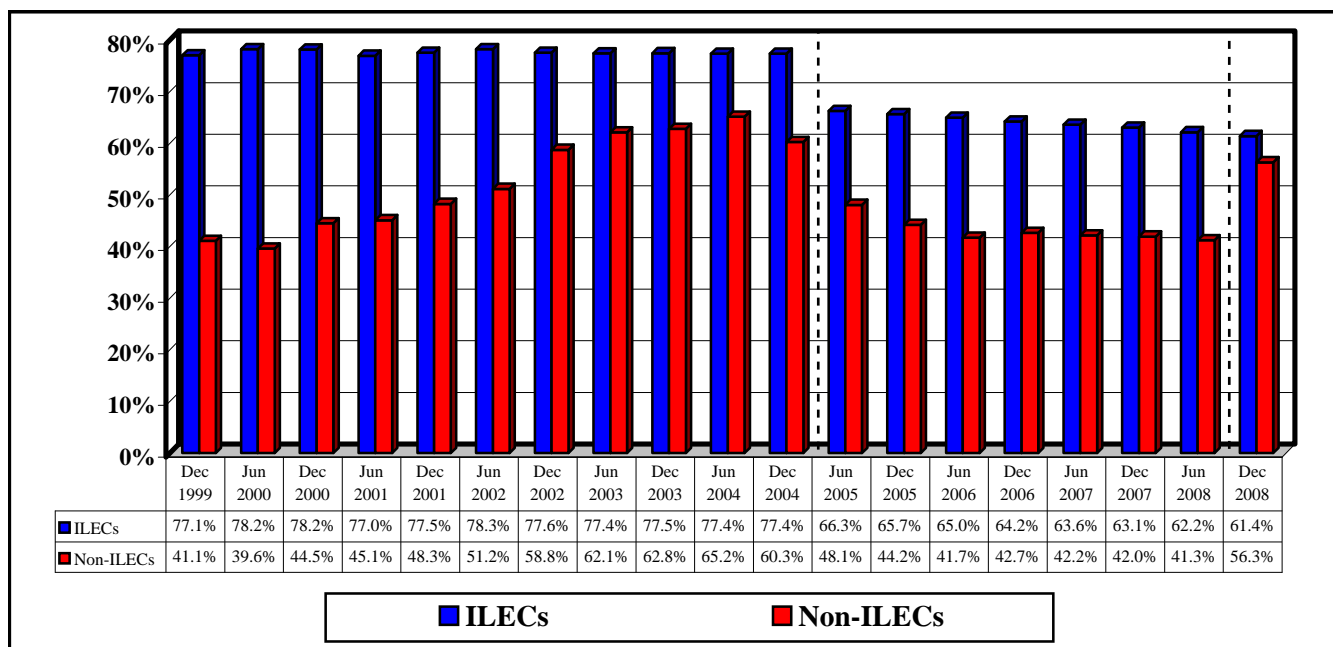


**Table 2**  
**End-User Switched Access Lines and VoIP Subscriptions by Customer Type<sup>1</sup>**  
**(In Thousands)**

Date	Reporting ILECs			Reporting Non-ILECs		
	Residential	Business	% Residential	Residential	Business	% Residential
Dec 1999	139,694	41,508	77.1 %	3,369	4,826	41.1 %
Jun 2000	140,566	39,083	78.2	4,580	6,978	39.6
Dec 2000	138,824	38,737	78.2	6,620	8,251	44.5
Jun 2001	134,531	40,221	77.0	7,793	9,482	45.1
Dec 2001	133,320	38,597	77.5	9,489	10,164	48.3
Jun 2002	130,937	36,393	78.3	11,081	10,564	51.2
Dec 2002	127,495	36,892	77.6	14,608	10,255	58.8
Jun 2003	122,574	35,701	77.4	16,771	10,215	62.1
Dec 2003	118,659	34,499	77.5	18,702	11,073	62.8
Jun 2004	114,533	33,460	77.4	20,872	11,162	65.2
Dec 2004	112,054	32,755	77.4	19,812	13,069	60.3
Jun 2005	95,316	48,442	66.3	16,338	17,637	48.1
Dec 2005	94,393	49,381	65.7	13,873	17,515	44.2
Jun 2006	92,453	49,840	65.0	12,474	17,422	41.7
Dec 2006	89,167	49,667	64.2	12,211	16,415	42.7
Jun 2007	85,633	49,007	63.6	12,117	16,612	42.2
Dec 2007	81,798	47,894	63.1	12,051	16,675	42.0
Jun 2008	77,457	47,149	62.2	12,396	17,654	41.3
Dec 2008	72,785	45,718	61.4	24,634	19,092	56.3

<sup>1</sup> In 2004, the Commission modified instructions for reporting lines serving small businesses. They were counted with residential lines through December 2004 and with business lines thereafter. This change caused a one-time drop in the percentages of ILEC and CLEC lines reported as residential. The December 2008 data are the first for which comprehensive reporting of interconnected VoIP subscribers was required. See footnote 1, Table 1.

**Chart 2**  
**Percent of Lines and VoIP Subscriptions that Serve Residential Customers<sup>1</sup>**





**Table 3**  
**End-User Switched Access Lines and VoIP Subscriptions Reported by Non-ILECs<sup>1</sup>**  
**(Lines and Subscriptions in Thousands)**

Date	Reporting Non-ILECs	End-User Switched Access Lines and VoIP Subscriptions	End-User Switched Access Lines			VoIP	Percent			
			Acquired from other LECs		CLEC-owned local loops <sup>3</sup>		Resold LEC service	ILEC UNEs	CLEC-owned local loops	VoIP
			Resold LEC service	ILEC UNEs <sup>2</sup>						
Dec 1999	81	8,194	3,513	1,959	2,723	-	42.9%	23.9%	33.2%	-
Jun 2000	78	11,557	4,315	3,201	4,042	-	37.3	27.7	35.0	-
Dec 2000	89	14,871	4,114	5,540	5,217	-	27.7	37.3	35.1	-
Jun 2001	91	17,275	3,919	7,580	5,776	-	22.7	43.9	33.4	-
Dec 2001	94	19,653	4,250	9,332	6,072	-	21.6	47.5	30.9	-
Jun 2002	96	21,645	4,478	10,930	6,236	-	20.7	50.5	28.8	-
Dec 2002	112	24,864	4,677	13,709	6,479	-	18.8	55.1	26.1	-
Jun 2003	125	26,985	4,887	15,728	6,370	-	18.1	58.3	23.6	-
Dec 2003	136	29,775	4,842	17,888	7,045	-	16.3	60.1	23.7	-
Jun 2004	137	32,034	4,927	19,624	7,483	-	15.4	61.3	23.4	-
Dec 2004	149	32,881	5,417	18,961	8,503	-	16.5	57.7	25.9	-
Jun 2005	326	33,975	5,826	19,025	9,124	-	17.1	56.0	26.9	-
Dec 2005	382	31,388	6,704	14,521	10,163	-	21.4	46.3	32.4	-
Jun 2006	400	29,896	6,548	12,547	10,802	-	21.9	42.0	36.1	-
Dec 2006	397	28,626	5,819	11,663	11,144	-	20.3	40.7	38.9	-
Jun 2007	406	28,729	6,193	11,511	11,025	-	21.6	40.1	38.4	-
Dec 2007	443	28,725	6,430	10,582	11,713	-	22.4	36.8	40.8	-
Jun 2008	469	30,049	6,073	10,884	13,093	-	20.2	36.2	43.6	-
Dec 2008	701	43,726	7,065	9,597	6,338	20,726	16.2	21.9	14.5	47.4%

<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> Includes unbundled network element (UNE) loops leased from an unaffiliated ILEC on a stand-alone basis and also UNE loops leased in combination with UNE switching or any other unbundled network element.

<sup>3</sup> Lines provided over CLEC-owned "last-mile" facilities.

**Chart 3**  
**Non-ILEC End-User Switched Access Lines and VoIP Subscriptions**

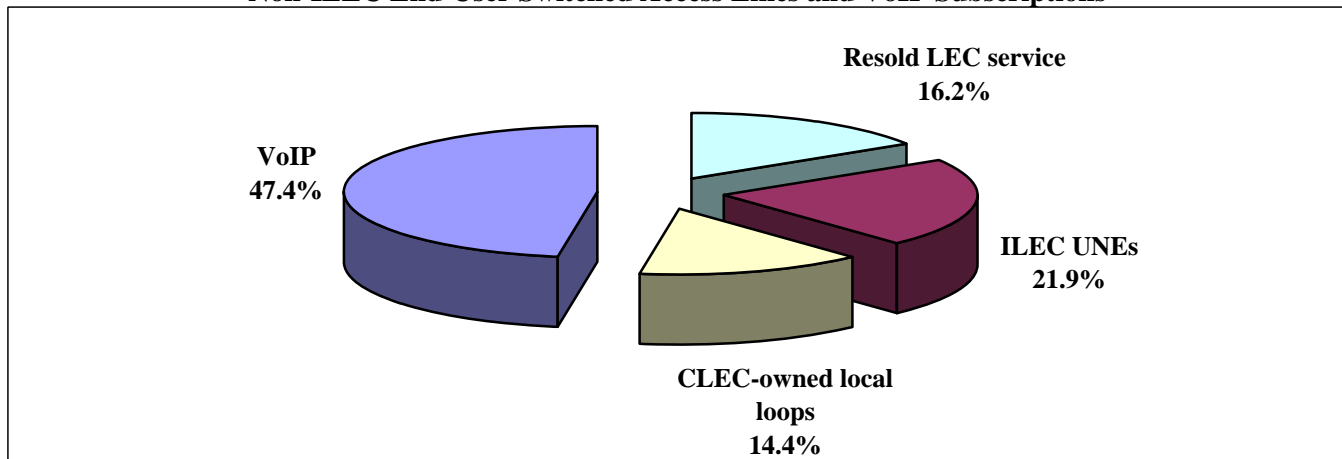


Table 4

**ILEC End-User (Retail) and Wholesale Switched Access Lines, VoIP Subscriptions, and UNEs<sup>1</sup>**  
**(Lines, Subscriptions, and UNEs in Thousands)**

Date	Reporting ILECs <sup>2</sup>	ILEC Total Lines <sup>3</sup>	End-User Switched Access Lines	VoIP	Switched Access Lines and UNEs Provided to CLECs					
					Resold Lines	UNEs			Total UNEs & Resold Lines	% of Total Lines
						Without Switching	With Switching	Total UNEs		
Dec 1999	168	187,190	181,203	-	4,494	1,004	489	1,493	5,987	3.2 %
Jun 2000	159	188,058	179,679	-	5,098	1,696	1,616	3,312	8,409	4.5
Dec 2000	166	188,223	177,561	-	5,388	2,436	2,838	5,274	10,662	5.7
Jun 2001	156	187,092	174,752	-	4,417	3,161	4,761	7,922	12,340	6.6
Dec 2001	164	185,391	171,917	-	4,014	3,679	5,781	9,460	13,474	7.3
Jun 2002	166	182,345	167,330	-	3,475	4,061	7,478	11,540	15,015	8.2
Dec 2002	174	181,616	164,386	-	2,743	4,259	10,227	14,487	17,229	9.5
Jun 2003	181	177,770	158,275	-	2,232	4,227	13,036	17,263	19,495	11.0
Dec 2003	185	174,453	153,158	-	1,833	4,287	15,176	19,463	21,296	12.2
Jun 2004	185	171,050	147,993	-	1,600	4,322	17,136	21,458	23,057	13.5
Dec 2004	190	167,063	144,810	-	1,490	4,217	16,546	20,763	22,253	13.3
Jun 2005	757	164,449	143,758	-	1,796	4,300	14,596	18,895	20,691	12.6
Dec 2005	807	160,881	143,773	-	1,793	4,469	10,846	15,315	17,108	10.6
Jun 2006	805	156,872	142,293	-	1,723	4,413	8,443	12,856	14,579	9.3
Dec 2006	814	151,958	138,834	-	1,613	4,408	7,103	11,511	13,124	8.6
Jun 2007	816	146,672	134,640	-	1,517	4,285	6,230	10,515	12,032	8.2
Dec 2007	805	140,808	129,693	-	1,460	4,122	5,534	9,655	11,115	7.9
Jun 2008	800	134,846	124,606	-	1,473	3,827	4,941	8,768	10,241	7.6
Dec 2008	780	128,295	117,975	529	3,209	3,844	2,740	6,583	9,792	7.6

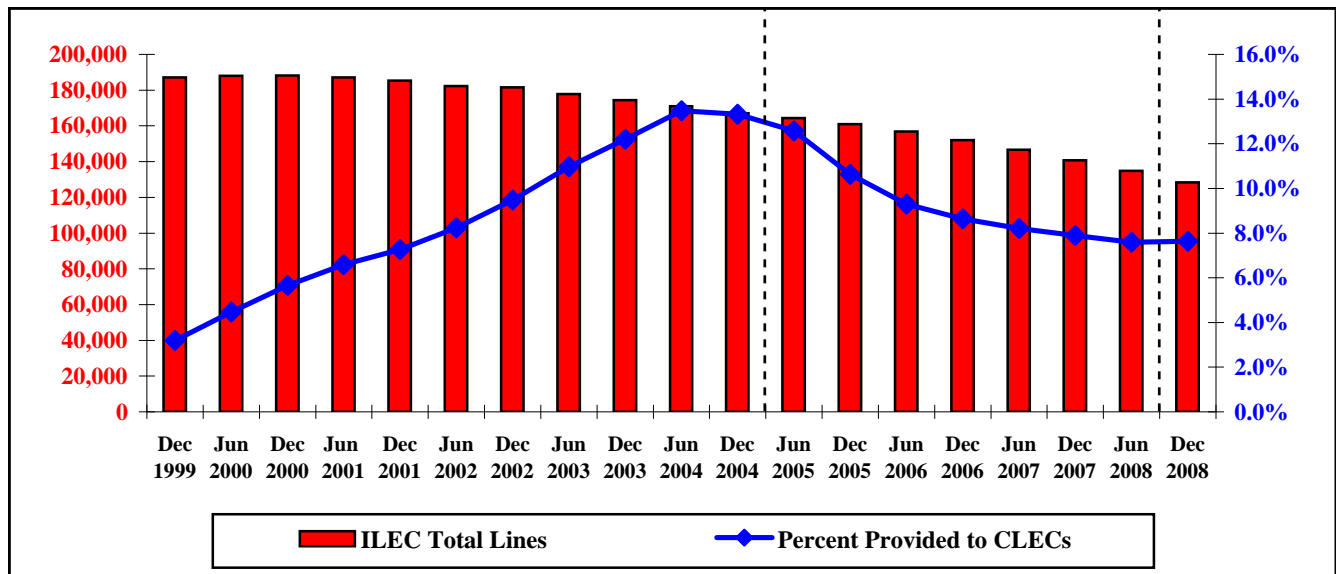
Figures may not add to totals due to rounding.

<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> Fewer ILECs were counted for year-end 2008 than year-end 2007 primarily because FCC staff identified additional common-control relationships among filers.

<sup>3</sup> This figure is the sum of ILEC-reported end-user (retail) switched access lines, ILEC interconnected VoIP subscriptions, and ILEC wholesale switched access lines and UNEs provided to CLECs.

**Chart 4**  
**ILEC Total Lines and the Percent Provided to CLECs**



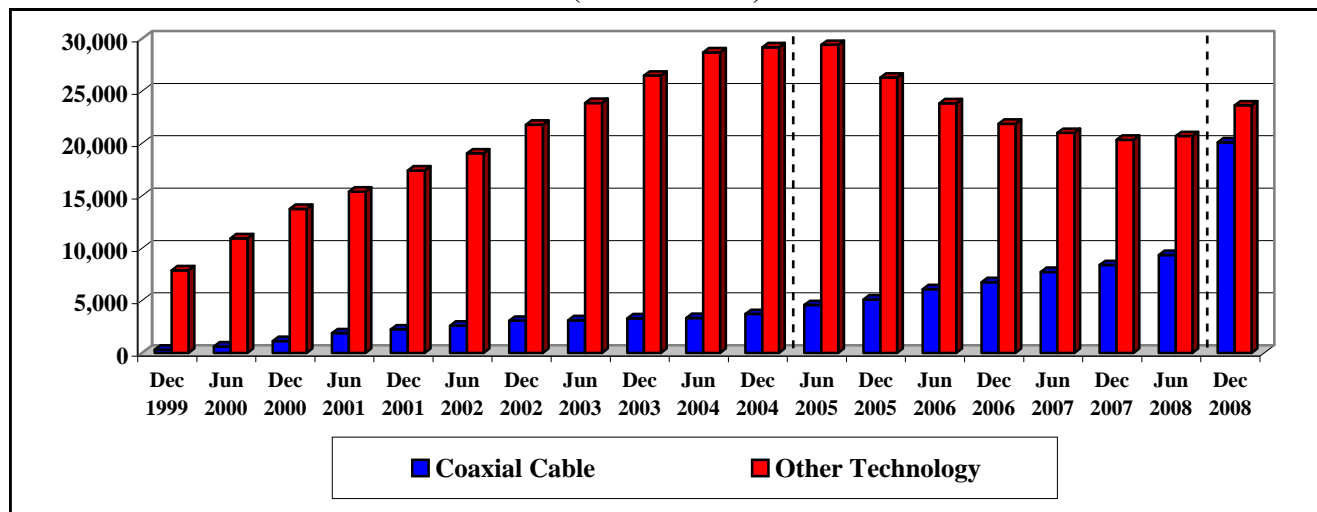
**Table 5**  
**End-User Switched Access Lines and VoIP Subscriptions**  
**by Type of Technology for Non-ILEC Providers<sup>1</sup>**  
**(In Thousands)**

Date	Coaxial Cable <sup>2</sup>	Other Technology	Total	Percent Coaxial Cable
Dec 1999	308	7,886	8,194	3.8 %
Jun 2000	614	10,943	11,557	5.3
Dec 2000	1,125	13,746	14,871	7.6
Jun 2001	1,876	15,399	17,275	10.9
Dec 2001	2,246	17,408	19,653	11.4
Jun 2002	2,597	19,048	21,645	12.0
Dec 2002	3,071	21,793	24,864	12.4
Jun 2003	3,123	23,863	26,985	11.6
Dec 2003	3,301	26,474	29,775	11.1
Jun 2004	3,338	28,696	32,034	10.4
Dec 2004	3,706	29,175	32,881	11.3
Jun 2005	4,571	29,404	33,975	13.5
Dec 2005	5,100	26,287	31,388	16.2
Jun 2006	6,070	23,826	29,896	20.3
Dec 2006	6,751	21,875	28,626	23.6
Jun 2007	7,730	21,000	28,729	26.9
Dec 2007	8,385	20,340	28,725	29.2
Jun 2008	9,352	20,697	30,049	31.1
Dec 2008	20,094	23,632	43,726	46.0

<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> This figure includes reported end-user switched access lines and interconnected VoIP connections that terminate on coaxial cable at the end user's premises. Form 477 collects information about the end-user switched access lines that terminate on coaxial cable and (starting, systematically, with the December 2008 data) the interconnected VoIP subscriptions that are sold in a bundle with cable modem Internet access service. FCC staff used other Form 477 data to estimate the number of standalone VoIP subscriptions that terminated on coaxial cable at the end user's premises in December 2008.

**Chart 5**  
**End-User Switched Access Lines and VoIP Subscriptions**  
**by Type of Technology for Non-ILEC Providers**  
**(In Thousands)**

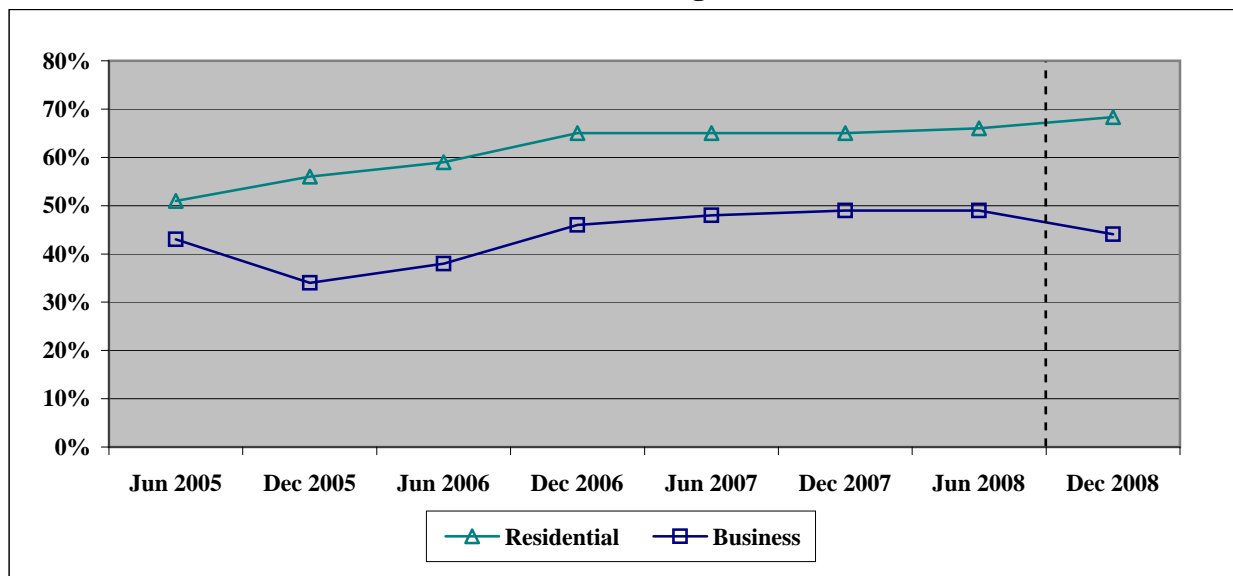


**Table 6**  
**Percentage of Switched Access Lines Presubscribed for Long Distance Service**

	RBOC	Other ILEC	ILEC Total	CLEC	Total
<b>Residential</b>					
Jun 2005	52%	49%	51%	80%	56%
Dec 2005	56	57	56	88	60
Jun 2006	59	58	59	85	62
Dec 2006	66	60	65	86	68
Jun 2007	66	61	65	86	68
Dec 2007	66	63	65	87	68
Jun 2008	66	64	66	88	69
Dec 2008	69	65	68	80	69
<b>Business</b>					
Jun 2005	45	30	43	69	50
Dec 2005	34	39	34	71	44
Jun 2006	38	37	38	69	46
Dec 2006	47	39	46	68	51
Jun 2007	49	42	48	72	54
Dec 2007	50	43	49	70	54
Jun 2008	49	44	49	72	55
Dec 2008	44	47	44	70	51
<b>Total</b>					
Jun 2005	50	44	49	74	54
Dec 2005	48	52	49	79	54
Jun 2006	51	52	51	76	56
Dec 2006	59	54	58	76	61
Jun 2007	59	56	59	78	62
Dec 2007	60	57	59	77	63
Jun 2008	60	58	59	79	63
Dec 2008	59	60	59	73	61

RBOC is an acronym for Regional Bell Operating Company. They currently are AT&T, Qwest, and Verizon.

**Chart 6**  
**Percent Presubscribed Interstate Long Distance Lines for ILECs**



**Table 7**  
**Residential and Business Presubscribed Switched Access Lines**  
**(In Thousands)**

	December 31, 2008				
	RBOC	Other ILEC	ILEC Total	CLEC	Total
<b>Residential</b>					
Presubscribed	39,696	9,864	49,560	4,527	54,088
Not Presubscribed	17,635	5,335	22,971	1,116	24,086
All Lines	57,331	15,200	72,531	5,643	78,174
Percent Presubscribed	69%	65%	68%	80%	69%
<b>Business</b>					
Presubscribed	17,021	3,007	20,028	12,229	32,257
Not Presubscribed	22,041	3,375	25,416	5,129	30,544
All Lines	39,061	6,382	45,444	17,357	62,801
Percent Presubscribed	44%	47%	44%	70%	51%
<b>Total</b>					
Presubscribed	56,717	12,872	69,588	16,756	86,345
Not Presubscribed	39,676	8,710	48,386	6,244	54,630
All Lines	96,392	21,582	117,975	23,000	140,975
Percent Presubscribed	59%	60%	59%	73%	61%
	June 30, 2008				
	RBOC	Other ILEC	ILEC Total	CLEC	Total
<b>Residential</b>					
Presubscribed	40,690	10,236	50,926	10,944	61,870
Not Presubscribed	20,847	5,684	26,531	1,451	27,983
All Lines	61,537	15,920	77,457	12,396	89,853
Percent Presubscribed	66%	64%	66%	88%	69%
<b>Business</b>					
Presubscribed	20,077	2,893	22,970	12,698	35,668
Not Presubscribed	20,508	3,671	24,178	4,956	27,983
All Lines	40,585	6,564	47,149	17,654	64,802
Percent Presubscribed	49%	44%	49%	72%	55%
<b>Total</b>					
Presubscribed	60,767	13,129	73,896	23,642	97,538
Not Presubscribed	41,355	9,355	50,709	6,407	57,117
All Lines	102,122	22,484	124,606	30,049	154,655
Percent Presubscribed	60%	58%	59%	79%	63%

RBOC is an acronym for Regional Bell Operating Company. They currently are AT&T, Qwest, and Verizon. Figures may not add to totals due to rounding.

**Table 8**  
**Total End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 2008**  
**(In Thousands)**

State	ILECs				Non-ILECs				Total	Non-ILEC % of Total
	Switched Access Lines	VoIP purchased as		Total	Switched Access Lines	VoIP purchased as		Total		
		Stand- alone	Bundled with Internet			Stand- alone	Bundled with Internet			
Alabama	1,745	#	#	1,746	307	57	95	460	2,205	21%
Alaska	289	0	0	289	*	1	*	*	*	*
American Samoa	10	0	0	10	0	0	0	0	10	0
Arizona	1,847	#	#	1,847	956	73	175	1,204	3,051	39
Arkansas	1,018	#	3	1,021	143	19	61	223	1,245	18
California	16,274	6	66	16,345	2,464	413	1,659	4,536	20,882	22
Colorado	1,873	0	0	1,873	430	88	320	838	2,711	31
Connecticut	1,515	1	24	1,540	247	45	333	625	2,165	29
Delaware	379	#	1	380	79	*	*	164	544	30
District of Columbia	733	#	4	737	131	12	38	182	919	20
Florida	7,395	4	40	7,440	1,179	385	1,125	2,690	10,130	27
Georgia	3,465	2	2	3,468	622	158	376	1,157	4,626	25
Guam	54	0	0	54	*	*	*	*	*	*
Hawaii	512	#	0	512	40	*	*	114	626	18
Idaho	581	#	#	582	81	10	30	122	703	17
Illinois	5,282	2	58	5,342	738	246	662	1,646	6,989	24
Indiana	2,524	1	22	2,547	266	73	219	559	3,106	18
Iowa	1,113	#	#	1,113	198	97	13	307	1,421	22
Kansas	933	#	6	939	264	25	128	417	1,356	31
Kentucky	1,458	#	#	1,458	292	25	176	493	1,951	25
Louisiana	1,634	#	#	1,634	289	41	158	488	2,122	23
Maine	539	#	2	542	108	*	*	211	753	28
Maryland	2,581	1	7	2,588	462	88	304	854	3,443	25
Massachusetts	2,477	1	15	2,493	794	134	661	1,590	4,084	39
Michigan	3,444	2	67	3,512	607	177	658	1,442	4,954	29
Minnesota	1,922	0	#	1,922	554	84	234	873	2,794	31
Mississippi	963	#	#	963	111	21	49	182	1,145	16
Missouri	2,463	1	2	2,465	256	62	196	514	2,980	17
Montana	387	0	0	387	46	7	47	101	488	21
Nebraska	584	#	#	584	250	10	38	298	882	34
Nevada	970	#	2	972	188	54	172	414	1,386	30
New Hampshire	469	0	1	470	172	33	137	343	813	42
New Jersey	3,715	1	25	3,741	784	118	1,015	1,917	5,658	34
New Mexico	754	#	#	754	72	14	35	121	875	14
New York	6,534	2	20	6,557	2,063	191	2,257	4,511	11,068	41
North Carolina	3,511	3	5	3,519	463	106	516	1,084	4,603	24
North Dakota	241	0	0	241	79	*	*	113	354	32
Northern Mariana Isl.	17	0	0	17	0	0	0	0	17	0
Ohio	4,291	1	34	4,326	644	74	745	1,463	5,790	25
Oklahoma	1,210	#	6	1,216	318	39	162	519	1,736	30
Oregon	1,284	#	1	1,286	301	49	221	571	1,856	31
Pennsylvania	5,233	1	9	5,243	1,326	194	667	2,186	7,430	29
Puerto Rico	755	0	0	755	121	8	81	210	965	22
Rhode Island	292	#	#	292	259	*	*	316	608	52
South Carolina	1,625	#	4	1,629	243	50	179	472	2,101	22
South Dakota	251	0	0	251	98	*	*	140	391	36
Tennessee	2,296	1	#	2,297	426	69	255	751	3,048	25
Texas	8,634	5	34	8,673	1,242	200	908	2,350	11,022	21
Utah	776	0	0	776	134	32	103	269	1,046	26
Vermont	289	0	#	289	54	*	*	88	378	23
Virgin Islands	61	0	0	61	0	*	*	*	*	*
Virginia	3,254	1	9	3,265	1,015	122	290	1,427	4,692	30
Washington	2,363	#	3	2,367	444	105	471	1,020	3,386	30
West Virginia	714	#	1	714	121	16	58	195	909	21
Wisconsin	2,231	#	15	2,246	372	54	340	765	3,012	25
Wyoming	209	#	#	209	15	6	33	54	263	20
Nationwide	117,975	38	491	118,503	23,000	3,957	16,769	43,726	162,230	27

# = Rounds to zero. \* Data withheld to maintain firm confidentiality.

**Table 9**  
**Residential End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 2008**  
**(In Thousands)**

State	ILECs				Non-ILECs				Total	Non-ILEC % of Total
	Switched Access Lines	VoIP purchased as		Total	Switched Access Lines	VoIP purchased as		Total		
		Stand- alone	Bundled with Internet			Stand- alone	Bundled with Internet			
Alabama	1,174	#	#	1,174	102	55	90	247	1,422	17%
Alaska	147	0	0	147	*	1	*	*	*	*
American Samoa	5	0	0	5	0	0	0	0	5	0
Arizona	1,133	#	0	1,133	538	63	144	746	1,879	40
Arkansas	661	#	3	665	28	17	54	99	763	13
California	9,378	6	29	9,412	796	355	1,339	2,490	11,902	21
Colorado	1,209	0	0	1,209	27	76	279	382	1,591	24
Connecticut	917	1	23	940	64	41	317	421	1,361	31
Delaware	230	#	0	231	13	*	*	95	326	29
District of Columbia	168	#	0	168	19	10	22	50	218	23
Florida	4,680	4	0	4,684	115	346	1,049	1,510	6,195	24
Georgia	2,060	2	0	2,062	112	146	346	603	2,665	23
Guam	31	0	0	31	*	*	*	*	*	*
Hawaii	293	0	0	293	0	*	*	73	366	20
Idaho	380	#	#	380	21	9	26	56	437	13
Illinois	2,957	2	24	2,983	114	230	600	944	3,927	24
Indiana	1,616	1	16	1,633	72	70	207	348	1,981	18
Iowa	775	#	#	775	94	96	1	191	966	20
Kansas	542	#	6	548	120	22	119	261	808	32
Kentucky	933	#	0	934	153	23	171	347	1,281	27
Louisiana	1,005	#	0	1,005	106	39	145	291	1,296	22
Maine	400	#	2	402	13	*	*	115	517	22
Maryland	1,484	1	0	1,485	125	80	289	493	1,978	25
Massachusetts	1,440	1	0	1,441	96	126	627	848	2,289	37
Michigan	1,938	2	58	1,997	222	163	632	1,017	3,014	34
Minnesota	1,341	0	#	1,341	121	79	198	397	1,738	23
Mississippi	605	#	0	605	37	19	45	101	707	14
Missouri	1,603	1	#	1,604	47	59	172	278	1,882	15
Montana	250	0	0	250	16	7	43	66	317	21
Nebraska	334	#	#	334	126	9	32	167	502	33
Nevada	575	#	1	576	16	50	158	224	800	28
New Hampshire	331	0	0	331	7	30	133	171	501	34
New Jersey	2,135	1	0	2,136	149	105	961	1,215	3,352	36
New Mexico	507	#	#	507	12	13	27	52	559	9
New York	3,876	2	0	3,878	381	159	2,122	2,661	6,539	41
North Carolina	2,266	3	0	2,269	40	97	497	635	2,903	22
North Dakota	161	0	0	161	46	*	*	76	237	32
Northern Mariana Isl.	8	0	0	8	0	0	0	0	8	0
Ohio	2,740	1	22	2,764	194	62	720	975	3,739	26
Oklahoma	767	#	6	773	162	36	152	350	1,123	31
Oregon	886	#	0	886	20	45	200	265	1,151	23
Pennsylvania	3,568	1	0	3,569	196	174	622	992	4,561	22
Puerto Rico	589	0	0	589	2	7	74	84	673	12
Rhode Island	184	#	0	184	135	*	*	188	372	51
South Carolina	1,079	#	0	1,079	52	45	174	271	1,350	20
South Dakota	158	0	0	158	63	*	*	99	257	38
Tennessee	1,528	1	0	1,528	58	65	237	360	1,888	19
Texas	5,258	5	16	5,279	201	175	844	1,220	6,499	19
Utah	502	0	0	502	27	29	90	146	648	23
Vermont	207	0	0	207	7	*	*	40	246	16
Virgin Islands	41	0	0	41	0	*	*	*	*	*
Virginia	1,886	1	0	1,887	329	110	266	705	2,592	27
Washington	1,570	#	0	1,570	46	98	441	585	2,155	27
West Virginia	548	#	0	548	14	14	56	84	633	13
Wisconsin	1,356	#	12	1,369	101	50	316	467	1,836	25
Wyoming	113	0	#	113	6	6	31	42	156	27
Nationwide	72,531	36	218	72,785	5,643	3,572	15,419	24,634	97,419	25

# = Rounds to zero. \* Data withheld to maintain firm confidentiality.

**Table 10**  
**Business End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 2008**  
**(In Thousands)**

State	ILECs				Non-ILECs				Total	Non-ILEC % of Total
	Switched Access Lines	VoIP purchased as		Total	Switched Access Lines	VoIP purchased as		Total		
		Stand- alone	Bundled with Internet			Stand- alone	Bundled with Internet			
Alabama	571	#	#	571	205	2	5	212	784	27%
Alaska	142	0	0	142	0	#	0	0	0	*
American Samoa	5	0	0	5	0	0	0	0	5	0
Arizona	714	#	#	714	417	10	31	458	1,172	39
Arkansas	357	0	#	357	115	2	8	125	481	26
California	6,896	#	37	6,933	1,668	58	321	2,047	8,980	23
Colorado	664	0	0	664	404	11	41	455	1,120	41
Connecticut	599	#	1	600	183	4	16	203	803	25
Delaware	149	#	1	149	66	0	0	69	218	31
District of Columbia	565	#	4	569	112	3	16	132	701	19
Florida	2,715	#	40	2,756	1,064	39	76	1,179	3,935	30
Georgia	1,404	#	2	1,406	511	13	31	554	1,960	28
Guam	23	0	0	23	0	0	0	0	0	*
Hawaii	218	#	0	219	40	0	0	41	259	16
Idaho	201	#	#	201	61	1	4	65	267	25
Illinois	2,325	#	34	2,359	624	16	62	702	3,061	23
Indiana	908	#	6	914	194	4	13	211	1,125	19
Iowa	338	#	#	339	104	1	12	117	455	26
Kansas	391	#	#	391	144	4	9	157	548	29
Kentucky	524	#	#	524	138	2	5	146	670	22
Louisiana	629	#	#	629	183	2	12	197	826	24
Maine	139	#	1	140	95	0	0	96	236	41
Maryland	1,096	#	7	1,103	337	8	16	361	1,464	25
Massachusetts	1,037	#	15	1,052	699	9	35	742	1,795	41
Michigan	1,506	#	9	1,515	384	14	26	425	1,940	22
Minnesota	581	0	#	581	433	5	37	475	1,056	45
Mississippi	358	0	#	358	75	2	4	80	438	18
Missouri	860	#	2	861	209	3	24	236	1,098	22
Montana	136	0	0	136	30	#	4	35	171	20
Nebraska	250	0	#	250	124	1	6	131	381	34
Nevada	396	#	#	396	172	4	14	190	586	32
New Hampshire	139	0	1	140	165	3	5	172	312	55
New Jersey	1,580	#	25	1,605	635	13	53	702	2,307	30
New Mexico	247	#	#	247	60	1	8	69	316	22
New York	2,658	#	20	2,679	1,683	32	135	1,850	4,529	41
North Carolina	1,246	#	5	1,251	422	9	18	450	1,700	26
North Dakota	80	0	0	80	34	0	0	37	117	32
Northern Mariana Isl.	9	0	0	9	0	0	0	0	9	0
Ohio	1,551	#	12	1,563	450	12	25	488	2,051	24
Oklahoma	443	0	#	443	156	3	10	170	613	28
Oregon	398	#	1	399	281	4	21	306	705	43
Pennsylvania	1,665	#	9	1,674	1,130	20	45	1,195	2,869	42
Puerto Rico	166	0	0	166	119	1	6	126	292	43
Rhode Island	108	#	#	108	124	0	0	128	237	54
South Carolina	546	#	4	550	191	5	5	201	751	27
South Dakota	93	0	0	93	35	0	0	41	134	31
Tennessee	769	#	#	769	368	5	18	391	1,160	34
Texas	3,376	#	18	3,394	1,041	25	64	1,130	4,523	25
Utah	275	0	0	275	108	3	13	123	398	31
Vermont	82	0	#	83	47	0	0	49	131	37
Virgin Islands	20	0	0	20	0	0	0	0	0	*
Virginia	1,368	#	9	1,378	686	12	24	722	2,100	34
Washington	793	#	3	796	398	7	30	435	1,231	35
West Virginia	166	#	1	166	106	2	2	110	277	40
Wisconsin	874	#	3	877	270	4	24	298	1,175	25
Wyoming	95	#	#	96	10	#	2	11	107	11
Nationwide	45,444	2	272	45,718	17,357	385	1,350	19,092	64,810	29

# = Rounds to zero. \* Data withheld to maintain firm confidentiality.



**Table 11**  
**Non-ILEC Share of Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**

State	2005		2006		2007		2008	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	16 %	15 %	16 %	13 %	13 %	14 %	16 %	21 %
Alaska	*	*	26	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0
Arizona	27	30	30	32	33	34	37	39
Arkansas	13	11	12	13	14	14	14	18
California	18	13	13	14	14	14	15	22
Colorado	17	20	19	17	17	16	19	31
Connecticut	14	11	12	12	13	14	15	29
Delaware	20	20	18	18	19	17	18	30
District of Columbia	20	17	14	14	14	14	15	20
Florida	16	17	15	13	13	13	14	27
Georgia	21	18	19	14	16	16	17	25
Guam	NA	0	0	0	0	*	*	*
Hawaii	6	7	9	11	13	16	18	18
Idaho	10	10	11	10	11	11	11	17
Illinois	20	15	15	15	14	14	14	24
Indiana	14	10	10	10	9	9	11	18
Iowa	14	14	15	16	17	18	19	22
Kansas	25	21	24	23	25	26	28	31
Kentucky	14	15	16	15	16	19	18	25
Louisiana	19	17	18	16	17	18	21	23
Maine	20	20	16	16	17	20	24	28
Maryland	18	18	16	15	15	14	15	25
Massachusetts	25	25	24	24	23	24	25	39
Michigan	25	19	18	17	18	19	20	29
Minnesota	21	24	23	22	24	23	22	31
Mississippi	14	12	13	10	10	10	11	16
Missouri	14	11	13	13	14	14	15	17
Montana	8	10	12	14	16	18	19	21
Nebraska	25	26	27	28	29	30	31	34
Nevada	13	13	17	15	24	22	26	30
New Hampshire	25	25	24	23	23	23	25	42
New Jersey	22	21	17	18	17	17	18	34
New Mexico	8	7	8	8	8	8	9	14
New York	30	31	27	27	28	29	31	41
North Carolina	13	15	16	16	18	19	20	24
North Dakota	20	19	20	21	21	22	24	32
Northern Mariana Isl.	NA	0	0	0	0	0	0	0
Ohio	15	15	15	16	18	20	23	25
Oklahoma	18	18	20	21	23	25	27	30
Oregon	13	19	16	17	18	18	18	31
Pennsylvania	23	23	20	19	20	20	21	29
Puerto Rico	*	*	*	*	*	*	19	22
Rhode Island	40	42	43	46	47	48	50	52
South Carolina	13	13	15	14	16	17	19	22
South Dakota	30	33	33	30	30	31	32	36
Tennessee	16	17	18	15	16	17	18	25
Texas	19	16	16	17	16	17	18	21
Utah	23	22	24	21	22	20	21	26
Vermont	14	12	12	12	12	12	13	23
Virgin Islands	*	*	*	0	0	0	0	*
Virginia	21	22	21	22	22	23	23	30
Washington	14	14	14	14	15	14	16	30
West Virginia	12	12	12	13	13	14	16	21
Wisconsin	19	18	19	20	21	23	24	25
Wyoming	11	12	14	15	17	18	19	20
Nationwide	19 %	18 %	17 %	17 %	18 %	18 %	19 %	27 %

\* Data withheld to maintain firm confidentiality. NA is an abbreviation for not available.

<sup>1</sup> See footnote 1, Table 1.

**Table 12**  
**Non-ILEC Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**  
**(In Thousands)**

State	2005		2006		2007		2008	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	394	359	366	301	298	315	352	460
Alaska	*	*	116	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0
Arizona	865	979	970	1,018	1,043	1,071	1,129	1,204
Arkansas	182	152	163	166	178	173	175	223
California	4,030	3,023	2,900	3,046	2,898	2,984	3,101	4,536
Colorado	497	591	529	452	425	395	449	838
Connecticut	316	251	262	261	261	265	291	625
Delaware	122	118	102	100	99	85	85	164
District of Columbia	223	173	145	144	137	131	136	182
Florida	1,745	1,869	1,618	1,340	1,298	1,265	1,276	2,690
Georgia	1,032	886	909	655	730	725	764	1,157
Guam	0	0	0	0	0	*	*	*
Hawaii	38	49	61	74	88	103	115	114
Idaho	77	76	81	76	78	75	79	122
Illinois	1,602	1,136	1,139	1,075	950	909	875	1,646
Indiana	493	360	338	335	293	284	313	559
Iowa	216	222	230	238	251	269	273	307
Kansas	362	301	347	327	349	358	375	417
Kentucky	302	306	337	313	328	371	331	493
Louisiana	460	365	394	358	363	383	449	488
Maine	169	164	135	123	135	150	181	211
Maryland	717	691	591	552	527	475	479	854
Massachusetts	1,089	1,037	979	928	865	844	871	1,590
Michigan	1,483	1,049	993	883	923	893	927	1,442
Minnesota	643	724	676	641	659	613	572	873
Mississippi	175	156	161	125	125	112	122	182
Missouri	452	369	426	403	436	448	471	514
Montana	43	52	62	72	82	93	96	101
Nebraska	228	237	244	249	258	265	274	298
Nevada	185	182	246	219	356	307	372	414
New Hampshire	218	209	196	182	171	165	167	343
New Jersey	1,389	1,283	994	977	897	859	866	1,917
New Mexico	76	65	77	75	77	73	75	121
New York	3,575	3,553	3,043	2,942	2,868	2,941	3,125	4,511
North Carolina	627	749	798	768	846	888	953	1,084
North Dakota	69	67	68	70	71	71	76	113
Northern Mariana Isl.	0	0	0	0	0	0	0	0
Ohio	981	953	963	962	1,069	1,171	1,365	1,463
Oklahoma	329	329	362	387	420	445	474	519
Oregon	260	375	306	318	325	308	300	571
Pennsylvania	1,878	1,892	1,572	1,437	1,521	1,407	1,423	2,186
Puerto Rico	*	*	*	*	*	*	186	210
Rhode Island	267	265	276	287	291	290	301	316
South Carolina	290	292	330	321	349	369	399	472
South Dakota	128	136	135	119	117	119	124	140
Tennessee	538	543	576	465	483	510	523	751
Texas	2,332	1,884	1,906	1,969	1,859	1,944	1,919	2,350
Utah	281	260	282	245	242	212	211	269
Vermont	61	51	49	48	47	47	47	88
Virgin Islands	*	*	*	0	0	0	0	*
Virginia	1,058	1,110	1,047	1,032	1,048	1,034	1,043	1,427
Washington	505	514	506	479	480	428	471	1,020
West Virginia	118	118	117	119	121	132	141	195
Wisconsin	645	588	612	653	684	709	744	765
Wyoming	30	34	39	44	46	48	51	54
<b>Total</b>	<b>33,975</b>	<b>31,388</b>	<b>29,896</b>	<b>28,626</b>	<b>28,729</b>	<b>28,725</b>	<b>30,049</b>	<b>43,726</b>

# = Rounds to zero; \* = Data withheld to maintain firm confidentiality.

<sup>1</sup> See footnote 1, Table 1.

**Table 13**  
**ILEC Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**  
**(In Thousands)**

State	2005		2006		2007		2008	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	2,024	2,024	1,979	2,016	1,982	1,991	1,861	1,746
Alaska	328	326	325	321	318	301	294	289
American Samoa	11	11	11	11	11	10	11	10
Arizona	2,326	2,295	2,227	2,175	2,109	2,035	1,943	1,847
Arkansas	1,216	1,215	1,193	1,164	1,132	1,105	1,069	1,021
California	18,945	19,631	19,479	18,926	18,485	17,864	17,149	16,345
Colorado	2,371	2,338	2,276	2,207	2,133	2,057	1,973	1,873
Connecticut	1,985	1,962	1,928	1,849	1,785	1,681	1,632	1,540
Delaware	479	467	468	450	432	414	396	380
District of Columbia	894	872	892	855	832	797	788	737
Florida	9,345	9,210	9,013	8,975	8,708	8,356	7,932	7,440
Georgia	3,972	3,970	3,844	4,045	3,957	3,824	3,675	3,468
Guam	0	67	68	68	67	66	62	54
Hawaii	644	627	608	584	562	541	516	512
Idaho	682	672	666	664	651	628	609	582
Illinois	6,214	6,497	6,354	6,154	5,976	5,773	5,562	5,342
Indiana	3,070	3,112	3,080	2,971	2,875	2,766	2,665	2,547
Iowa	1,356	1,325	1,302	1,273	1,245	1,200	1,162	1,113
Kansas	1,110	1,123	1,100	1,074	1,046	1,012	977	939
Kentucky	1,792	1,768	1,732	1,725	1,684	1,616	1,542	1,458
Louisiana	1,954	1,832	1,800	1,825	1,801	1,759	1,710	1,634
Maine	688	664	692	669	649	611	579	542
Maryland	3,173	3,097	3,166	3,079	2,984	2,886	2,792	2,588
Massachusetts	3,246	3,102	3,076	2,927	2,830	2,712	2,609	2,493
Michigan	4,411	4,609	4,491	4,303	4,118	3,895	3,719	3,512
Minnesota	2,385	2,319	2,273	2,210	2,137	2,078	2,006	1,922
Mississippi	1,117	1,114	1,089	1,108	1,091	1,035	1,018	963
Missouri	2,892	2,907	2,842	2,778	2,722	2,650	2,568	2,465
Montana	487	473	460	445	435	416	406	387
Nebraska	692	681	661	644	628	624	606	584
Nevada	1,252	1,246	1,233	1,200	1,158	1,106	1,042	972
New Hampshire	646	624	624	598	575	546	507	470
New Jersey	4,847	4,715	4,784	4,543	4,354	4,137	3,936	3,741
New Mexico	902	893	877	860	834	816	783	754
New York	8,292	8,020	8,297	7,900	7,417	7,068	6,902	6,557
North Carolina	4,239	4,142	4,060	4,067	3,973	3,847	3,715	3,519
North Dakota	280	279	272	267	261	253	248	241
Northern Mariana Isl.	0	23	21	21	19	18	18	17
Ohio	5,505	5,575	5,368	5,168	4,973	4,763	4,537	4,326
Oklahoma	1,535	1,521	1,470	1,425	1,375	1,321	1,267	1,216
Oregon	1,673	1,643	1,627	1,562	1,502	1,429	1,359	1,286
Pennsylvania	6,400	6,300	6,385	6,175	5,953	5,775	5,494	5,243
Puerto Rico	1,048	1,021	1,035	994	916	809	786	755
Rhode Island	394	369	363	340	327	312	302	292
South Carolina	1,895	1,939	1,908	1,909	1,866	1,798	1,728	1,629
South Dakota	297	279	280	278	276	268	261	251
Tennessee	2,727	2,718	2,676	2,695	2,618	2,537	2,436	2,297
Texas	9,730	10,036	9,958	9,738	9,608	9,329	9,020	8,673
Utah	917	924	915	894	864	844	811	776
Vermont	370	364	370	362	355	340	323	289
Virgin Islands	70	70	69	68	67	64	62	61
Virginia	3,925	3,834	3,844	3,734	3,642	3,540	3,422	3,265
Washington	3,137	3,063	2,994	2,868	2,762	2,643	2,509	2,367
West Virginia	891	876	852	828	806	780	752	714
Wisconsin	2,725	2,739	2,670	2,605	2,516	2,422	2,336	2,246
Wyoming	249	252	245	238	233	225	218	209
<b>Total</b>	<b>143,758</b>	<b>143,773</b>	<b>142,293</b>	<b>138,834</b>	<b>134,640</b>	<b>129,693</b>	<b>124,606</b>	<b>118,503</b>

<sup>1</sup> See footnote 1, Table 1.

**Table 14**  
**Non-ILEC Methods of Providing Wireline Telephone Services by State**  
**as of December 31, 2008**  
**(In Thousands)**

State	Resold LEC service	ILEC UNEs	CLEC-owned local loops	VoIP Subscriptions <sup>1</sup>	Total
Alabama	74	154	80	152	460
Alaska	*	*	*	*	*
American Samoa	0	0	0	0	0
Arizona	155	168	633	248	1,204
Arkansas	14	51	78	81	223
California	841	839	790	2,072	4,536
Colorado	146	207	78	408	838
Connecticut	41	100	105	378	625
Delaware	38	40	1	85	164
District of Columbia	61	28	42	51	182
Florida	477	546	157	1,511	2,690
Georgia	160	334	128	535	1,157
Guam	*	*	*	*	*
Hawaii	22	3	15	74	114
Idaho	25	34	22	41	122
Illinois	190	438	110	908	1,646
Indiana	56	140	71	293	559
Iowa	54	57	87	109	307
Kansas	38	85	140	153	417
Kentucky	74	96	122	201	493
Louisiana	51	112	126	199	488
Maine	29	67	12	103	211
Maryland	239	185	38	393	854
Massachusetts	312	364	118	796	1,590
Michigan	104	452	51	835	1,442
Minnesota	123	301	130	318	873
Mississippi	39	57	16	70	182
Missouri	53	141	62	258	514
Montana	10	13	23	55	101
Nebraska	52	11	187	48	298
Nevada	70	77	40	226	414
New Hampshire	46	111	15	170	343
New Jersey	470	218	97	1,132	1,917
New Mexico	33	22	17	49	121
New York	894	716	453	2,448	4,511
North Carolina	125	214	123	622	1,084
North Dakota	5	19	54	34	113
Northern Mariana Isl.	0	0	0	0	0
Ohio	145	283	216	819	1,463
Oklahoma	70	78	171	201	519
Oregon	55	196	50	270	571
Pennsylvania	473	527	325	861	2,186
Puerto Rico	39	*	*	89	210
Rhode Island	34	42	184	57	316
South Carolina	48	136	60	229	472
South Dakota	4	3	91	42	140
Tennessee	117	192	117	325	751
Texas	330	692	218	1,108	2,350
Utah	50	56	28	135	269
Vermont	15	26	14	34	88
Virgin Islands	*	*	*	*	*
Virginia	373	273	370	412	1,427
Washington	111	249	84	576	1,020
West Virginia	27	86	7	74	195
Wisconsin	43	300	29	394	765
Wyoming	4	9	2	39	54
<b>Total</b>	<b>7,065</b>	<b>9,597</b>	<b>6,338</b>	<b>20,726</b>	<b>43,726</b>

\* Data withheld to maintain firm confidentiality.

<sup>1</sup> See footnote 1, Table 1.

**Table 15**  
**Percentage of End-User Switched Access Lines and VoIP Subscriptions**  
**Provided to Residential Customers by State as of December 31, 2008**

<b>State</b>	<b>ILECs</b>	<b>Non-ILECs</b>	<b>Total</b>
Alabama	67%	54%	64%
Alaska	51	*	*
American Samoa	50	NA	50
Arizona	61	62	62
Arkansas	65	44	61
California	58	55	57
Colorado	65	46	59
Connecticut	61	67	63
Delaware	61	58	60
District of Columbia	23	27	24
Florida	63	56	61
Georgia	59	52	58
Guam	57	*	*
Hawaii	57	64	58
Idaho	65	46	62
Illinois	56	57	56
Indiana	64	62	64
Iowa	70	62	68
Kansas	58	63	60
Kentucky	64	70	66
Louisiana	62	60	61
Maine	74	55	69
Maryland	57	58	57
Massachusetts	58	53	56
Michigan	57	71	61
Minnesota	70	45	62
Mississippi	63	55	62
Missouri	65	54	63
Montana	65	65	65
Nebraska	57	56	57
Nevada	59	54	58
New Hampshire	70	50	62
New Jersey	57	63	59
New Mexico	67	43	64
New York	59	59	59
North Carolina	64	59	63
North Dakota	67	67	67
Northern Mariana Isl.	47	NA	47
Ohio	64	67	65
Oklahoma	64	67	65
Oregon	69	46	62
Pennsylvania	68	45	61
Puerto Rico	78	40	70
Rhode Island	63	59	61
South Carolina	66	57	64
South Dakota	63	71	66
Tennessee	67	48	62
Texas	61	52	59
Utah	65	54	62
Vermont	72	45	65
Virgin Islands	67	*	*
Virginia	58	49	55
Washington	66	57	64
West Virginia	77	43	70
Wisconsin	61	61	61
Wyoming	54	78	59
Nationwide	61	56	60

\* Data withheld to maintain firm confidentiality. NA is an abbreviation for not applicable.

**Table 16**  
**Number of Reporting ILECs, Non-ILECs, and VoIP Providers by State**  
**as of December 31, 2008**

<b>State</b>	<b>ILECs</b>	<b>Non-ILECs</b>	<b>Total<sup>1</sup></b>	<b>VoIP Providers<sup>2</sup></b>
Alabama	20	95	115	54
Alaska	17	18	35	16
American Samoa	1	0	1	0
Arizona	17	76	93	56
Arkansas	20	64	84	38
California	16	122	138	80
Colorado	26	83	109	60
Connecticut	2	68	70	49
Delaware	1	54	55	36
District of Columbia	1	66	67	45
Florida	11	161	172	93
Georgia	26	126	152	76
Guam	1	5	6	4
Hawaii	3	30	33	26
Idaho	20	56	76	41
Illinois	45	129	174	75
Indiana	32	102	134	56
Iowa	134	86	220	34
Kansas	37	84	121	52
Kentucky	17	106	123	55
Louisiana	11	72	83	40
Maine	9	47	56	29
Maryland	2	98	100	65
Massachusetts	5	84	89	53
Michigan	27	99	126	57
Minnesota	56	98	154	55
Mississippi	14	84	98	47
Missouri	32	85	117	54
Montana	17	49	66	32
Nebraska	33	60	93	35
Nevada	15	73	88	53
New Hampshire	8	61	69	41
New Jersey	4	109	113	66
New Mexico	17	60	77	38
New York	26	127	153	80
North Carolina	20	105	125	61
North Dakota	22	45	67	23
Northern Mariana Isl	1	0	1	0
Ohio	35	112	147	69
Oklahoma	39	72	111	40
Oregon	27	86	113	53
Pennsylvania	23	111	134	70
Puerto Rico	1	13	14	11
Rhode Island	1	48	49	33
South Carolina	17	95	112	51
South Dakota	26	45	71	25
Tennessee	19	100	119	61
Texas	53	149	202	80
Utah	12	61	73	43
Vermont	7	42	49	29
Virgin Islands	1	3	4	3
Virginia	16	102	118	71
Washington	19	93	112	66
West Virginia	7	52	59	33
Wisconsin	43	93	136	50
Wyoming	12	45	57	33
Nationwide	780	701	1,481	366

<sup>1</sup> Holding companies or common-control entities that report both ILEC and non-ILEC operations in a state are counted once in the ILECs column and once in the Non-ILECs column for that state. Either type of operations might report interconnected VoIP subscribers.

<sup>2</sup> The providers reporting interconnected VoIP subscribers in a state are a subset of the ILECs and non-ILECs in that state.

**Table 17**  
**Mobile Telephone Facilities-based Carriers and Mobile Telephony Subscribers**

State	Dec 2008		Subscribers (In Thousands)							
	Carriers	% Resold <sup>1</sup>	2005		2006		2007		2008	
			Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	15	7 %	2,874	3,105	3,276	3,375	3,605	3,765	3,887	3,960
Alaska	12	13	341	377	397	412	432	460	480	383
American Samoa	*	*	*	*	*	*	*	*	*	*
Arizona	13	8	3,543	3,844	4,153	4,405	4,637	4,800	4,936	4,983
Arkansas	9	9	1,681	1,781	1,924	2,044	2,149	2,288	2,446	2,530
California	18	7	24,572	25,537	27,497	29,717	30,204	32,247	31,946	32,177
Colorado	12	11	3,041	3,247	3,428	3,608	3,756	3,968	4,066	4,311
Connecticut	8	7	2,329	2,463	2,582	2,705	2,787	2,884	2,959	3,030
Delaware	7	8	585	618	650	683	724	751	775	778
District of Columbia	7	9	753	825	879	880	966	936	1,047	1,096
Florida	13	9	12,620	12,568	14,177	14,762	15,255	15,605	15,809	16,158
Georgia	14	5	6,001	6,079	6,865	7,282	7,598	7,941	8,142	8,322
Guam	*	*	*	*	*	*	*	*	*	*
Hawaii	7	4	934	983	1,010	1,035	1,067	1,096	1,115	1,184
Idaho	18	7	774	834	901	973	1,019	1,086	1,125	1,167
Illinois	15	7	8,227	8,655	9,148	9,589	9,949	10,330	10,634	10,919
Indiana	12	11	3,443	3,716	3,973	4,271	4,448	4,675	4,824	4,956
Iowa	67	8	1,634	1,811	1,867	2,010	2,058	2,166	2,245	2,319
Kansas	15	11	1,660	1,794	1,905	2,047	2,133	2,261	2,326	2,421
Kentucky	13	10	2,508	2,662	2,821	2,966	3,101	3,291	3,343	3,445
Louisiana	11	7	2,942	3,192	3,356	3,492	3,612	3,765	3,896	4,012
Maine	8	17	711	746	787	845	882	941	972	1,012
Maryland	9	8	3,968	4,239	4,471	4,691	4,818	5,024	5,124	5,234
Massachusetts	7	7	4,488	4,728	4,917	5,129	5,289	5,470	5,624	5,749
Michigan	13	8	6,230	6,604	6,863	7,094	7,333	7,608	7,821	8,027
Minnesota	9	11	3,132	3,380	3,543	3,702	3,834	4,048	4,164	4,345
Mississippi	12	8	1,631	1,821	1,923	2,030	2,070	2,196	2,252	2,312
Missouri	14	9	3,595	3,853	4,068	4,322	4,480	4,674	4,835	4,940
Montana	8	7	466	525	575	620	650	694	723	748
Nebraska	13	5	1,071	1,160	1,199	1,272	1,325	1,387	1,451	1,496
Nevada	13	7	1,605	1,777	1,883	1,990	2,093	2,167	2,249	2,268
New Hampshire	8	11	791	849	897	943	973	1,022	1,045	1,080
New Jersey	7	6	6,234	6,617	6,954	7,207	7,419	7,654	7,834	8,008
New Mexico	11	9	1,025	1,170	1,253	1,333	1,416	1,489	1,555	1,536
New York	11	10	12,996	13,805	14,574	15,262	15,901	16,395	17,260	16,702
North Carolina	14	8	5,503	5,792	6,209	6,627	6,962	7,306	7,428	8,024
North Dakota	9	6	368	432	457	473	492	513	541	581
Northern Mariana Isl.	*	*	*	*	*	*	*	*	*	*
Ohio	14	9	6,994	7,504	7,939	8,380	8,723	9,099	9,357	9,565
Oklahoma	19	8	2,002	2,189	2,317	2,480	2,572	2,723	2,808	2,889
Oregon	10	9	2,056	2,339	2,484	2,656	2,781	2,923	3,007	3,084
Pennsylvania	14	10	7,397	7,942	8,349	8,831	9,201	9,615	9,895	10,214
Puerto Rico	7	2	2,003	2,111	2,171	2,301	2,323	2,411	2,502	2,624
Rhode Island	7	9	689	749	765	798	829	848	874	888
South Carolina	15	9	2,607	2,784	3,001	3,209	3,340	3,500	3,573	3,323
South Dakota	10	6	434	481	514	548	570	596	611	631
Tennessee	14	8	4,066	4,417	4,731	5,127	4,971	5,246	5,791	5,518
Texas	28	6	14,424	15,644	16,928	17,822	18,792	19,677	20,390	21,008
Utah	15	7	1,414	1,530	1,649	1,775	1,874	1,971	2,046	2,095
Vermont	7	16	295	314	334	358	375	402	421	435
Virgin Islands	*	*	*	*	*	*	*	*	*	*
Virginia	11	9	4,851	5,073	5,325	5,607	6,148	6,416	6,242	6,856
Washington	11	9	4,062	4,249	4,495	4,799	5,035	5,292	5,461	5,624
West Virginia	11	17	821	858	965	1,040	1,095	1,173	1,236	1,295
Wisconsin	12	10	3,200	3,366	3,517	3,510	3,641	3,842	3,966	4,265
Wyoming	13	9	315	342	359	387	410	441	457	484
Nationwide	175	8 %	192,053	203,667	217,418	229,619	238,316	249,332	255,729	261,284

\* Data withheld to maintain firm confidentiality. Some data for June 2008 have been revised.

<sup>1</sup> Percentage of mobile telephony subscribers purchasing their service subscriptions from a mobile wireless reseller.

**Table 18**  
**Percentage of ZIP Codes with CLECs or Non-ILEC VoIP Providers<sup>1</sup>**

Number of Providers <sup>2</sup>	2005		2006		2007		2008	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Zero	17.4 %	18.4 %	17.7 %	17.7 %	17.7 %	19.4 %	18.3 %	7.7 %
One	10.5	11.4	11.3	11.1	11.1	11.7	11.6	9.2
Two	7.6	7.6	7.8	8.2	8.3	8.3	8.6	7.8
Three	6.0	6.2	6.2	6.7	6.7	6.2	6.3	6.4
Four	4.8	4.7	5.0	5.2	5.4	5.0	5.0	5.4
Five	4.2	4.1	4.2	4.4	4.4	3.9	4.1	4.8
Six	3.4	3.6	3.5	3.8	3.8	3.5	3.5	4.2
Seven	3.1	3.3	3.2	3.2	3.4	3.3	3.2	3.6
Eight	3.1	2.9	2.9	3.0	2.8	2.9	3.0	3.2
Nine	2.8	2.7	2.8	2.7	2.9	2.6	2.7	2.8
Ten or More	36.9	35.0	35.3	34.0	33.5	33.1	33.6	44.7

**Table 19**  
**Percentage of Households in ZIP Codes with CLECs or Non-ILEC VoIP Providers<sup>1</sup>**

Number of Providers <sup>2</sup>	2005		2006		2007		2008	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Zero	2.2 %	2.4 %	2.3 %	2.4 %	2.4 %	2.8 %	2.6 %	0.4 %
One	2.1	2.3	2.4	2.5	2.4	2.6	2.4	0.9
Two	2.3	2.2	2.1	2.2	2.2	2.4	2.4	1.2
Three	2.2	2.3	2.2	2.4	2.3	2.5	2.4	1.3
Four	2.2	2.1	2.3	2.4	2.4	2.2	2.2	1.3
Five	2.2	2.2	2.0	2.4	2.5	2.2	2.2	1.6
Six	1.9	2.2	1.9	2.4	2.3	2.2	2.1	1.7
Seven	2.0	2.4	2.2	2.4	2.4	2.5	2.3	1.8
Eight	2.6	2.5	2.3	2.5	2.4	2.8	2.8	1.7
Nine	2.4	2.7	2.7	2.5	2.8	2.8	2.7	1.6
Ten or More	77.9	76.8	77.4	76.1	75.8	75.0	75.9	86.6

Demographic data were created by geographically merging contemporaneous Tele Atlas ® Dynamap ® ZIP Code Boundary & Inventory Files with census block-level population data from the 2000 Census of Population and Housing. Figures may not add to 100% due to rounding.

<sup>1</sup> See footnote 1, Table 1.

<sup>2</sup> A holding company or common-control entity that reports both CLEC end-user switched access lines and interconnected VoIP subscribers in a state reports a single list of ZIP Codes in which it has any such customers and is counted once in each listed ZIP Code.

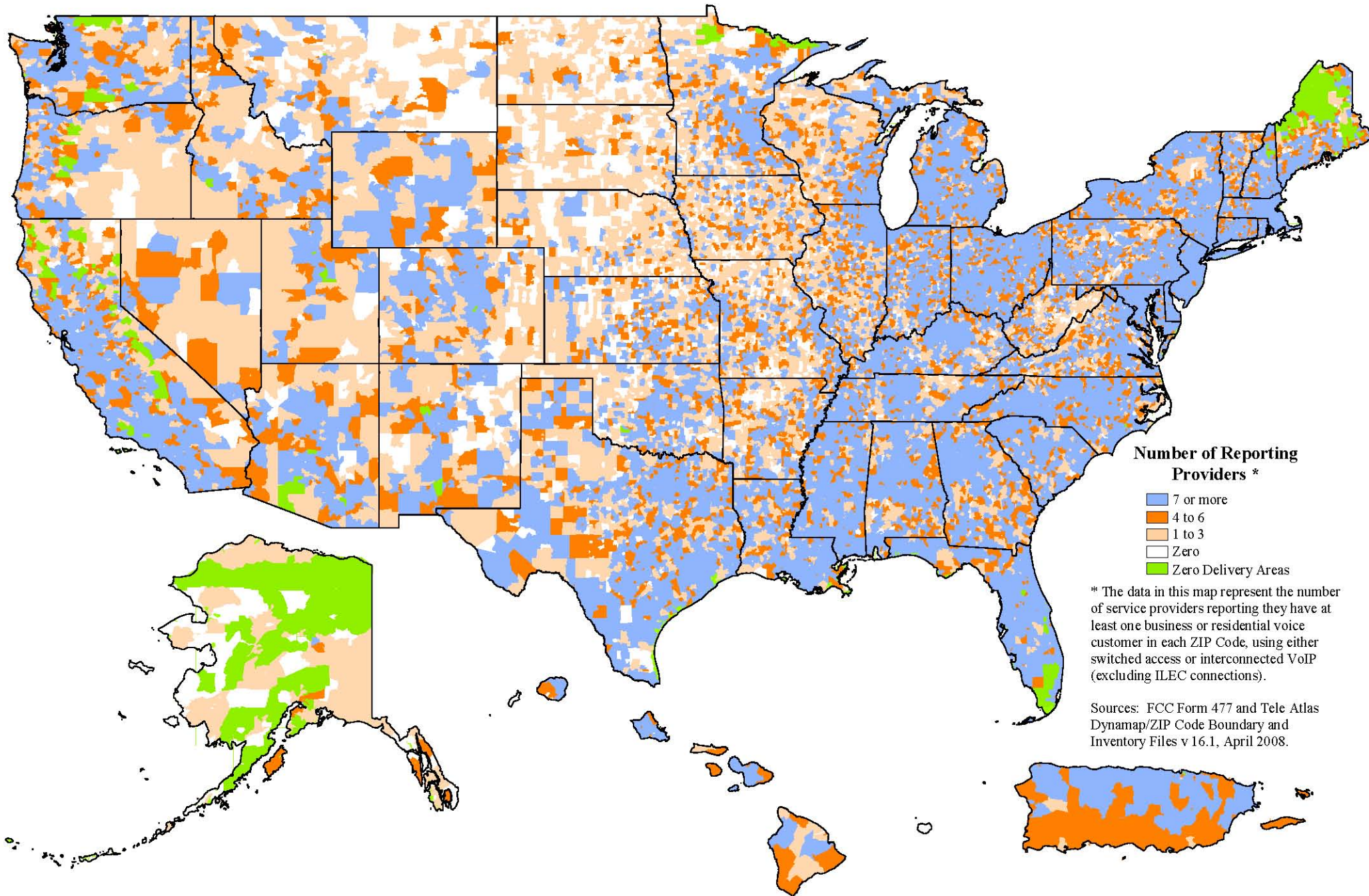


**Table 20**  
**Percentage of ZIP Codes with CLECs or Non-ILEC VoIP Providers by State**  
**as of December 31, 2008**

State	Number of Providers								
	Zero	One - Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
Alabama	3 %	18 %	6 %	4 %	4 %	3 %	4 %	4 %	53 %
Alaska	58	28	2	3	1	2	2	1	0
Arizona	3	19	5	4	3	3	2	5	56
Arkansas	16	43	6	6	3	4	3	3	15
California	2	13	4	5	3	3	2	2	67
Colorado	10	26	4	2	2	3	4	2	46
Connecticut	0	7	4	6	8	7	5	4	59
Delaware	0	2	2	5	2	5	2	0	83
District of Columbia	0	8	4	0	0	0	0	0	88
Florida	0	4	2	2	2	2	2	2	85
Georgia	2	19	5	5	5	4	2	2	56
Hawaii	6	21	13	9	8	6	3	4	30
Idaho	7	42	7	7	8	4	2	2	22
Illinois	6	30	9	6	4	3	2	2	39
Indiana	3	23	8	7	8	5	4	3	39
Iowa	20	49	7	4	2	3	1	1	13
Kansas	20	36	5	5	5	3	3	2	22
Kentucky	7	26	8	6	6	5	4	5	34
Louisiana	3	21	4	4	4	5	3	4	50
Maine	5	20	8	11	9	8	8	5	25
Maryland	1	7	3	5	4	4	3	3	70
Massachusetts	0	4	0	2	3	1	3	3	83
Michigan	2	13	6	6	6	5	5	3	56
Minnesota	15	35	5	5	3	4	2	2	29
Mississippi	2	12	6	6	6	3	5	5	56
Missouri	18	37	6	5	3	2	2	2	25
Montana	43	33	3	2	3	2	2	2	10
Nebraska	28	50	3	2	2	1	2	1	12
Nevada	3	22	6	5	5	3	3	4	50
New Hampshire	1	6	5	6	6	7	7	7	56
New Jersey	0	0	0	1	1	2	1	1	94
New Mexico	16	40	7	3	4	2	4	1	22
New York	1	10	5	4	4	3	5	4	66
North Carolina	1	15	7	7	5	4	4	3	54
North Dakota	44	44	3	2	1	0	0	1	5
Ohio	0	8	5	6	6	8	6	5	55
Oklahoma	14	35	4	4	2	2	2	2	33
Oregon	5	35	6	5	5	3	4	4	34
Pennsylvania	3	20	7	5	4	5	3	3	49
Puerto Rico	0	4	10	15	22	24	20	4	1
Rhode Island	0	7	8	5	1	3	9	4	62
South Carolina	1	17	4	4	4	3	4	4	59
South Dakota	40	46	3	2	2	1	1	0	5
Tennessee	4	20	5	5	4	5	2	3	52
Texas	5	20	4	4	3	3	3	2	56
Utah	2	36	6	4	5	3	3	3	39
Vermont	2	28	13	6	11	6	9	6	22
Virginia	7	25	8	6	5	4	2	4	39
Washington	3	24	5	6	3	5	2	3	50
West Virginia	10	41	10	8	7	4	4	3	14
Wisconsin	8	39	8	5	5	3	3	3	27
Wyoming	13	53	7	5	1	2	1	3	14
Nationwide	8 %	23 %	5 %	5 %	4 %	4 %	3 %	3 %	45 %

# Reporting Non-ILEC Interconnected VoIP Providers and CLECs by 5-Digit Geographical ZIP Code

(As of December 31, 2008)



Prepared by the Federal Communications Commission,  
Wireline Competition Bureau, Industry Analysis and Technology Division

# Customer Response

Publication: *Local Telephone Competition: Status as of December 31, 2008*

You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis and Technology Division of the FCC's Wireline Competition Bureau.

1. Please check the category that best describes you:

- press
- current telecommunications carrier
- potential telecommunications carrier
- business customer evaluating vendors/service options
- consultant, law firm, lobbyist
- other business customer
- academic/student
- residential customer
- FCC employee
- other federal government employee
- state or local government employee
- Other (please specify)

2. Please rate the report:      Excellent      Good      Satisfactory      Poor      No opinion

Data accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Timeliness of data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completeness of data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Text clarity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completeness of text	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Overall, how do you rate this report?      Excellent      Good      Satisfactory      Poor      No opinion

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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4. How can this report be improved?

5. May we contact you to discuss possible improvements?

Name:

Telephone #:

To discuss the information in this report, contact: 202-418-0940 or for users of TTY equipment, call 202-418-0484		
Fax this response to	or	Mail this response to
202-418-0520		FCC/WCB/IATD, Mail Stop 1600 F Washington, DC 20554