

# **Local Telephone Competition: Status as of June 30, 2011**

Industry Analysis and Technology Division  
Wireline Competition Bureau  
June 2012



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## Local Telephone Competition: Status as of June 30, 2011

**Introduction.** The Commission has used FCC Form 477 to collect subscribership information from telephone service providers – the incumbent local exchange carriers (ILECs), competitive local exchange carriers (CLECs), and mobile telephony providers – for more than a decade.<sup>1,2</sup> The Commission has required interconnected Voice over Internet Protocol (“interconnected VoIP”) service providers to report subscribership information since December 2008 because the use of VoIP technology is growing rapidly and it increasingly is used to provide local telephone service.<sup>3</sup>

This report summarizes information about telephone services as of June 30, 2011. It demonstrates that interconnected VoIP service subscribership has continued to increase while subscribership to traditional wired telephone services has declined. We also update summary statistics for the mobile telephony subscribership information collected by Form 477.<sup>4</sup>

**Wireline retail local telephone service.** Retail local telephone service customers are served by two wireline technologies – “end-user” switched access lines and interconnected VoIP “subscriptions.”

- In June 2011, there were 112 million end-user switched access lines in service and 34 million interconnected VoIP subscriptions in the United States, or 146 million wireline retail local telephone service connections in total. See Figure 1.

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<sup>1</sup> See the Technical Notes and the Glossary that appear at the end of this report for more-detailed information about the Form 477 and the meaning of terms used in this report.

<sup>2</sup> For an overview of program history for the telephone services data, see *Local Telephone Competition: Status as of December 31, 2008* (June 2010) at pp. 1-2, available at [www.fcc.gov/wcb/iatd/comp.html](http://www.fcc.gov/wcb/iatd/comp.html). Readers who are interested in historical trends in the data should note the changes in reporting requirements that were effective in 2008 and earlier, in 2005.

<sup>3</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:

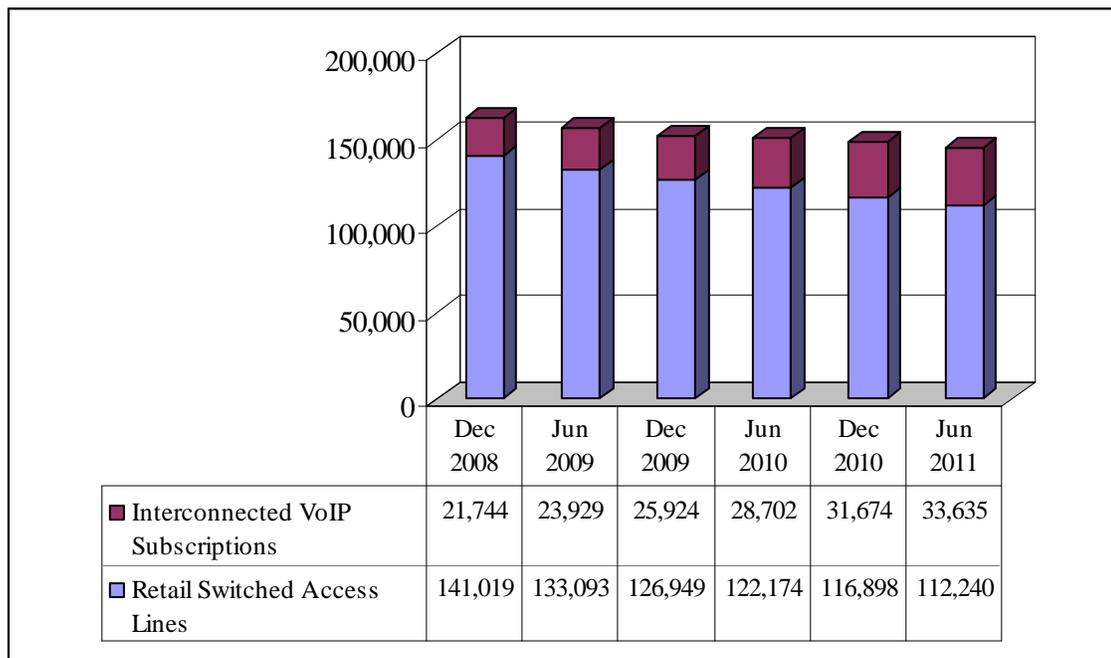
- (1) Enables real-time, two-way voice communications;
- (2) Requires a broadband connection from the user’s location;
- (3) Requires Internet protocol-compatible customer premises equipment (CPE); and
- (4) Permits users generally to receive calls that originate on the public switched telephone network 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. Prior to the December 2008 data, companies such as Vonage that solely provide interconnected VoIP service did not file Form 477. Telephone companies and cable companies that provided local exchange telephone service were required to file Form 477 but were not required to report interconnected VoIP subscriptions. However, some of these companies chose to include interconnected VoIP subscriptions in the number of retail (end-user) switched access lines that they reported.

<sup>4</sup> The presentation of mobile wireless telephone subscriber counts in 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.

- Interconnected VoIP subscriptions had increased by 17% (from 29 million to 34 million) and retail switched access lines had decreased by 8% (from 122 million to 112 million) between June 2010 and June 2011. The combined effect was an annual decrease of 3% in wireline retail local telephone service connections (from 151 million to 146 million). See Figure 1.

**Figure 1**  
**Interconnected VoIP Subscriptions and Retail Switched Access Lines, 2008 - 2011**  
**(In Thousands)**

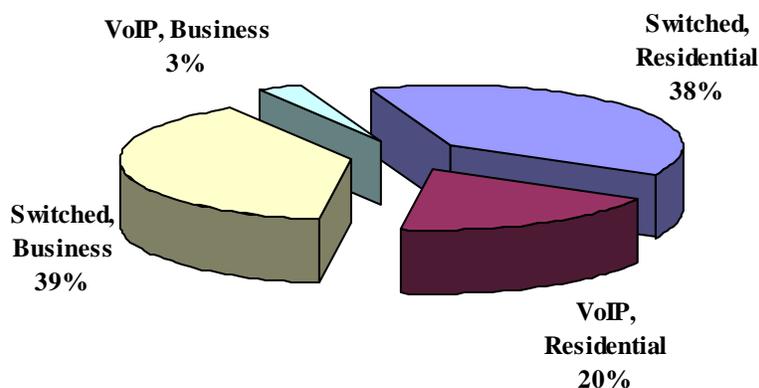


- Of the 146 million wireline retail local telephone service connections in June 2011, 84 million (or 58%) were residential connections and 62 million (or 42%) were business connections. See Figure 2.
- Cross-classified by technology and customer type, the 146 million wireline retail local telephone service connections in June 2011 were: 38% residential switched access lines, 39% business switched access lines, 20% residential interconnected VoIP subscriptions, and 3% business interconnected VoIP subscriptions. See Figure 2.

**Figure 2**  
**Wireline Retail Local Telephone Service Connections by Technology and Customer Type as of June 30, 2011 (In Thousands)**

	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
<b>Residential</b>	55,739	28,616	84,355
<b>Business</b>	56,501	5,019	61,520
<b>Total</b>	112,240	33,635	145,875

Figures may not add to totals due to rounding.



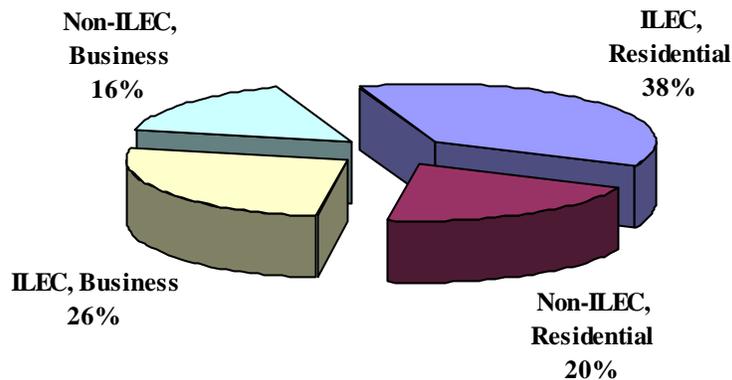
**Service providers.** The Form 477 program – and this report – distinguishes ILEC operations from all other operations.

- Cross-classified by customer type (residential or business) and the service retailer’s regulatory status (ILEC or non-ILEC), the 146 million wireline retail local telephone service connections (including both switched access lines and interconnected VoIP subscriptions) in June 2011 were: 38% ILEC residential service, 26% ILEC business service, 20% non-ILEC residential service, and 16% non-ILEC business service. See Figure 3.

**Figure 3**  
**Wireline Retail Local Telephone Service Connections by Customer Type and Regulatory Status as of June 30, 2011 (In Thousands)**

	<b>Residential</b>	<b>Business</b>	<b>Total</b>
<b>ILEC</b>	55,064	37,894	92,958
<b>Non-ILEC</b>	29,291	23,626	52,917
<b>Total</b>	84,355	61,520	145,875

Figures may not add to totals due to rounding.

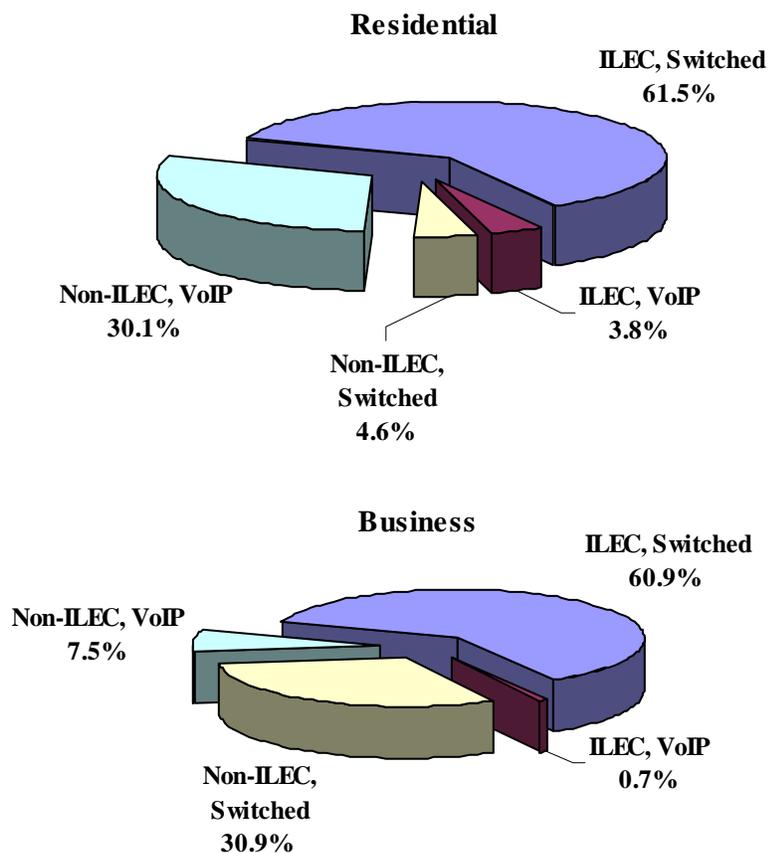


- Additionally cross-classified by technology, the 84 million wireline residential connections in June 2011 were: 61.5% ILEC switched access lines, 30.1% non-ILEC interconnected VoIP subscriptions, 4.6% non-ILEC switched access lines, and 3.8% ILEC interconnected VoIP subscriptions. Similarly, the 62 million wireline business connections were: 60.9% ILEC switched access lines, 30.9% non-ILEC switched access lines, 7.5% non-ILEC interconnected VoIP subscriptions, and 0.7% ILEC interconnected VoIP subscriptions. See Figure 4.

**Figure 4**  
**Wireline Retail Local Telephone Service Connections by Technology, Regulatory Status,**  
**and Customer Type as of June 30, 2011 (In Thousands)**

<b>Total</b>	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
ILEC	89,327	3,631	92,958
Non-ILEC	22,913	30,004	52,917
<b>Total</b>	<b>112,240</b>	<b>33,635</b>	<b>145,875</b>
<b>Residential</b>			
ILEC	51,847	3,217	55,064
Non-ILEC	3,892	25,399	29,291
<b>Residential Total</b>	<b>55,739</b>	<b>28,616</b>	<b>84,355</b>
<b>Business</b>			
ILEC	37,480	414	37,894
Non-ILEC	19,021	4,605	23,626
<b>Business Total</b>	<b>56,501</b>	<b>5,019</b>	<b>61,520</b>

Figures may not add to totals due to rounding.



**Interconnected VoIP service.** Form 477 identifies three types of information about retail interconnected VoIP service.

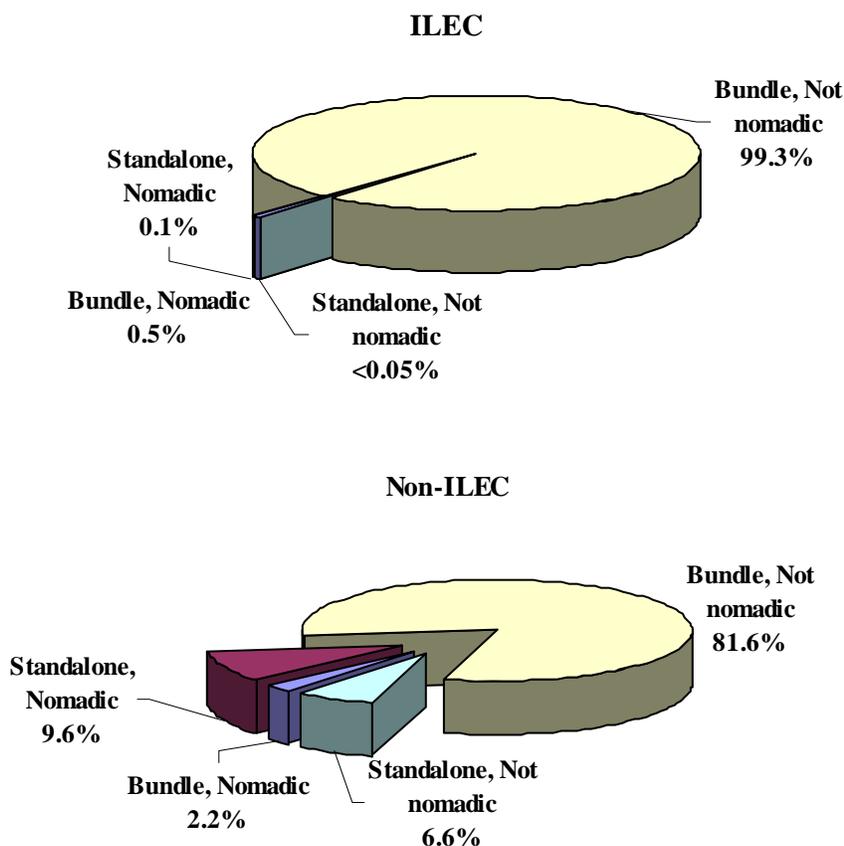
- First, interconnected VoIP service retailers distinguish between the interconnected VoIP subscriptions they sell to their broadband Internet access service customers (“broadband bundle” subscriptions, in this report) and all the other interconnected VoIP subscriptions that they sell (“standalone” subscriptions).
- 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 these three sets of information. See Figure 5.

**Figure 5**  
**Interconnected VoIP Subscriberhip by Reported Service Features**  
**as of June 30, 2011 (In Thousands)**

<b>Total</b>	<b>Broadband Bundle</b>	<b>Standalone VoIP</b>	<b>Total</b>
Nomadic	694	2,883	3,578
Not nomadic	28,090	1,967	30,058
<b>Total</b>	<b>28,785</b>	<b>4,851</b>	<b>33,635</b>
<b>I L E C</b>			
Nomadic	20	4	24
Not nomadic	3,607	#	3,607
<b>I L E C Total</b>	<b>3,627</b>	<b>4</b>	<b>3,631</b>
<b>Non-I L E C</b>			
Nomadic	675	2,879	3,554
Not nomadic	24,484	1,967	26,451
<b>Non-I L E C Total</b>	<b>25,158</b>	<b>4,846</b>	<b>30,004</b>

# = Rounds to zero. Figures may not add to totals due to rounding.

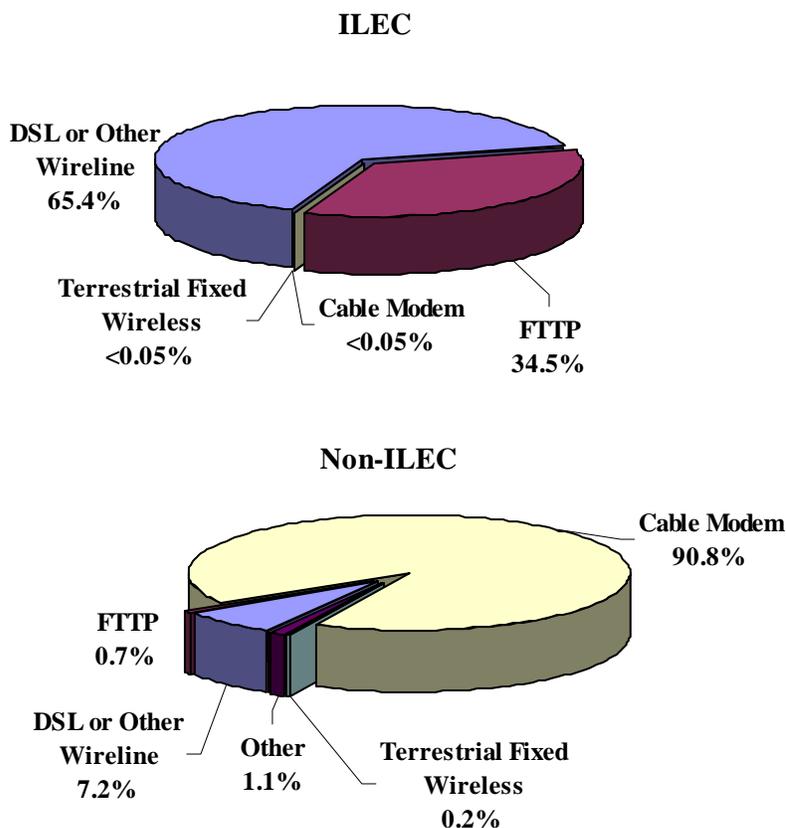


Form 477 collects the third type of information about retail interconnected VoIP service – the technology of the Internet access connection – for broadband bundles but not for standalone interconnected VoIP. See Figure 6.<sup>5</sup>

**Figure 6**  
**Technology of Internet Access Connections in Interconnected VoIP**  
**Broadband Bundles as of June 30, 2011 (In Thousands)**

<b>Technology</b>	<b>ILEC</b>	<b>Non-ILEC</b>	<b>Total</b>
DSL or Other Wireline	2,374	1,814	4,187
FTTP	1,252	179	1,431
Cable Modem	1	22,833	22,834
Terrestrial Fixed Wireless	#	53	53
Other	0	280	280
<b>Total</b>	<b>3,627</b>	<b>25,158</b>	<b>28,785</b>

# = Rounds to zero. Figures may not add to totals due to rounding.



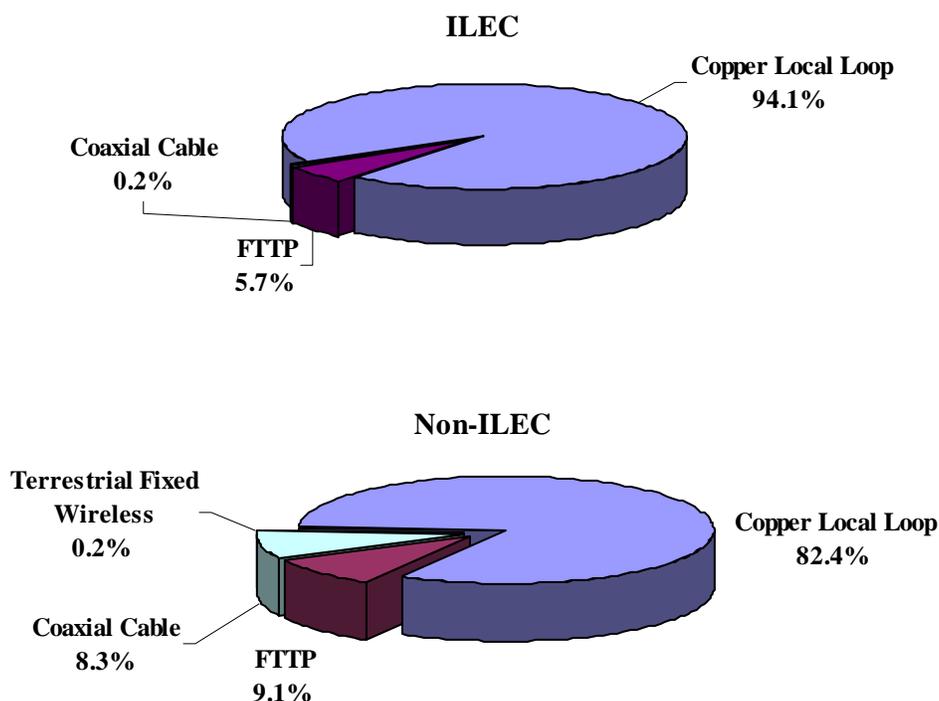
<sup>5</sup> *Internet Access Services: Status as of June 30, 2011* (XXX 2012) discusses types of Internet access connections in greater detail. The report is available at [www.fcc.gov/wcb/iatd/comp.html](http://www.fcc.gov/wcb/iatd/comp.html).

**Switched access lines.** 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. See Figure 7.

**Figure 7**  
**Technology of Retail Switched Access Lines**  
**as of June 30, 2011 (In Thousands)**

<b>Technology</b>	<b>ILEC</b>	<b>Non-ILEC</b>	<b>Total</b>
FTTP	5,079	2,079	7,158
Coaxial Cable	159	1,901	2,060
Terrestrial Fixed Wireless	2	50	52
Copper Local Loop	84,087	18,883	102,970
<b>Total</b>	<b>89,327</b>	<b>22,913</b>	<b>112,240</b>

Figures may not add to totals due to rounding.



**Wholesale relationships for switched access lines.** ILECs typically own the communications facilities over which they provide retail services. By contrast, CLECs use a range of methods: equipping ILEC UNE loops (“UNE-L”) as CLEC switched access lines,<sup>6</sup> reselling services (for example, reselling ILEC

<sup>6</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.

switched access lines obtained at wholesale rates or reselling ILEC lines obtained under commercial agreements that replaced the UNE-Platform (“UNE-P”), equipping leased ILEC special access circuits as switched access lines, and equipping local loops that the CLEC owns.

- CLECs reported using several methods to provide their nearly 23 million retail switched access lines in June 2011. They reported providing 38% of lines (or 8.6 million lines) by reselling ILEC wholesale or retail services. They reported providing 31% of lines (or 7.0 million lines) over ILEC facilities leased at regulated, cost-based rates (that is, as unbundled network elements, or UNEs). And they provided the remaining 32% of lines (or 7.2 million lines) over local loops that they owned. However, the information about wholesale relationships differs as reported by CLECs and by ILECs, as discussed in Figure 8.

**Figure 8**  
**Wholesale Relationships as Reported Respectively by CLECs and ILECs**  
**as of June 30, 2011 (In Thousands)**

	<b>CLEC</b>	<b>ILEC</b>	<b>Difference</b>
	<b>Retail Switched Access Lines provisioned over ILEC Services (reported by CLECs)</b>	<b>Wholesale Switched Access Lines and UNEs provided to CLECs (reported by ILECs)</b>	
<b>Resold ILEC services<sup>1</sup></b>	8,636	4,578	4,058
<b>UNE-P<sup>2</sup></b>	1,049	4	1,045
<b>UNE-L<sup>3</sup></b>	5,979	3,081	2,899
Total ILEC UNEs	7,028	3,085	3,943
Total ILEC services	15,664	7,662	8,002

Figures may not add to totals due to rounding.

<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, below.) 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 ILEC leased special access circuits or other high-capacity 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 Review Remand 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.

**Remainder of the report.** The remainder of the report consists of tables and charts that update and expand data presented in earlier reports in this series. We present national data first, followed by state-specific data and, finally, summary statistics of service-provider presence in individual ZIP Codes.<sup>7</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 sending comments to [IATDreports@fcc.gov](mailto:IATDreports@fcc.gov) for subject: June 2011 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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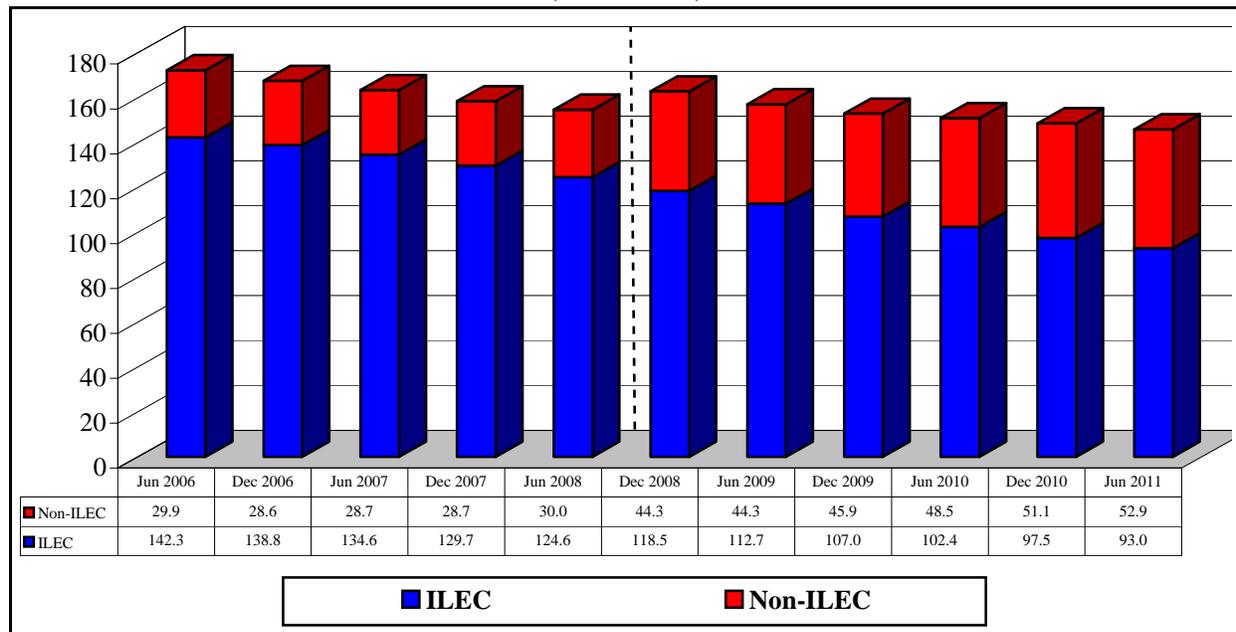
<sup>7</sup> The appropriate interpretation of the ZIP Code-based information is discussed in the Technical Notes at the end of the report.

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

Date	Provided by		Total	Non-ILEC Share
	ILEC	Non-ILEC		
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	118,496	44,267	162,763	27.2
Jun 2009	112,748	44,275	157,023	28.2
Dec 2009	107,019	45,854	152,873	30.0
Jun 2010	102,395	48,481	150,876	32.1
Dec 2010	97,518	51,054	148,572	34.4
Jun 2011	92,958	52,917	145,875	36.3

<sup>1</sup> Mandatory reporting by interconnected VoIP service providers started in December 2008. Previously, individual ILECs and CLECs included VoIP subscribers in reported switched access lines to a varying and largely unknown degree. 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**  
**Total End-User Switched Access Lines and VoIP Subscriptions**  
**(In Millions)**

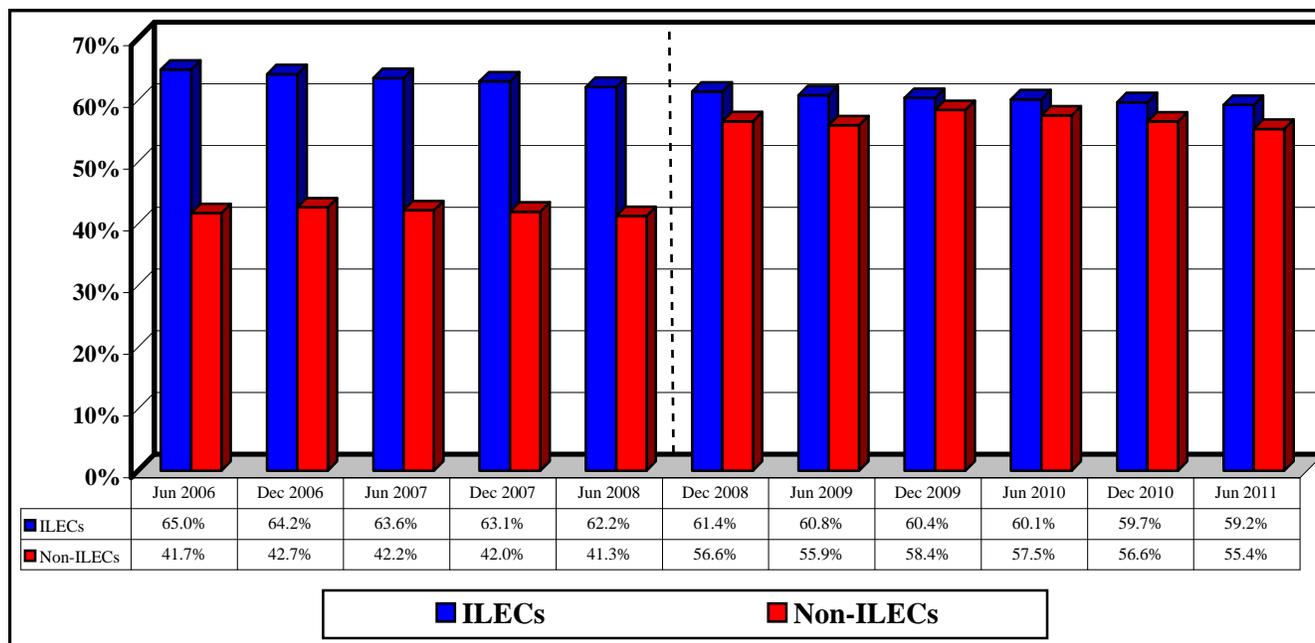


**Table 2**  
**Total End-User Switched Access Lines and VoIP Subscriptions by Customer Type<sup>1</sup>**  
**(In Thousands)**

Date	Reporting ILECs			Reporting Non-ILECs		
	Residential	Business	% Residential	Residential	Business	% Residential
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	72,786	45,711	61.4	25,049	19,218	56.6
Jun 2009	68,582	44,166	60.8	24,768	19,507	55.9
Dec 2009	64,613	42,405	60.4	26,791	19,064	58.4
Jun 2010	61,579	40,816	60.1	27,899	20,582	57.5
Dec 2010	58,211	39,307	59.7	28,877	22,178	56.6
Jun 2011	55,064	37,894	59.2	29,291	23,626	55.4

<sup>1</sup> 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 Total Lines and VoIP Subscriptions that Serve Residential Customers<sup>1</sup>**

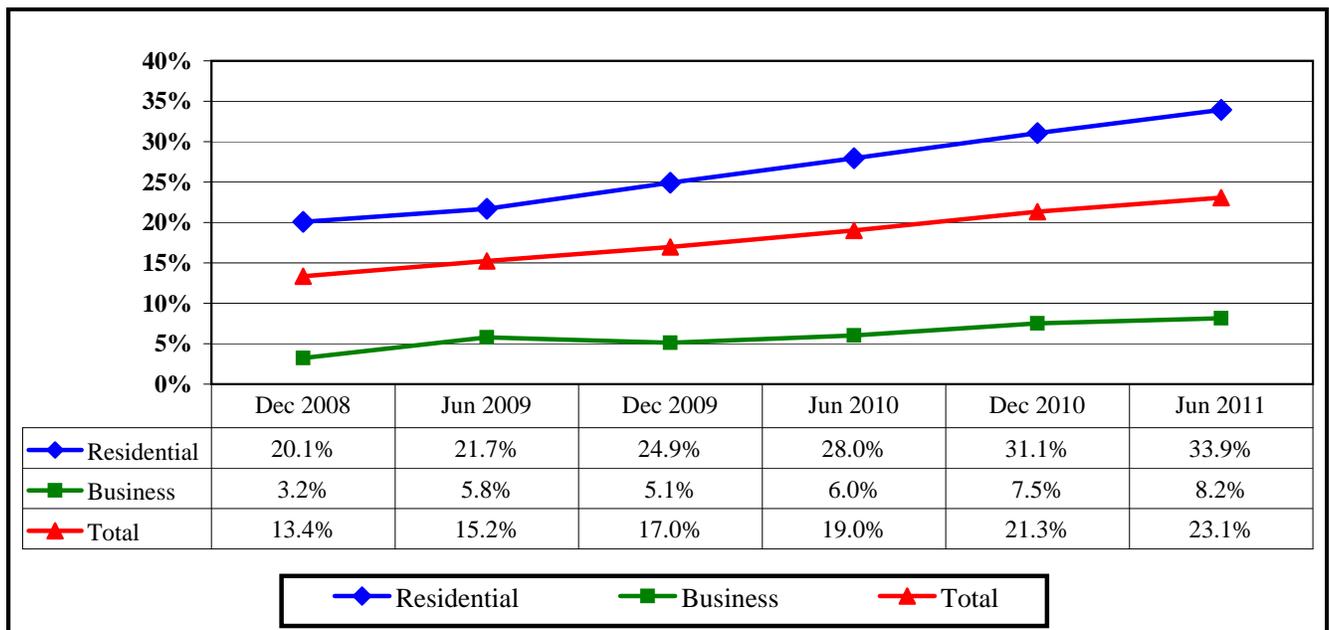


**Table 3**  
**End-User Switched Access Lines and VoIP Subscriptions by Customer Type**  
**(In Thousands)**

Date	End-User Switched Access Lines			VoIP Subscriptions			Total		
	Residential	Business	Total	Residential	Business	Total	Residential	Business	Total
Dec 2008	78,180	62,839	141,019	19,655	2,090	21,744	97,835	64,929	162,763
Jun 2009	73,093	60,000	133,093	20,257	3,673	23,929	93,350	63,673	157,023
Dec 2009	68,614	58,335	126,949	22,790	3,134	25,924	91,404	61,469	152,873
Jun 2010	64,463	57,711	122,174	25,015	3,687	28,702	89,478	61,398	150,876
Dec 2010	60,027	56,871	116,898	27,061	4,614	31,674	87,088	61,485	148,572
Jun 2011	55,739	56,501	112,240	28,616	5,019	33,635	84,355	61,520	145,875

Figures may not sum to totals due to rounding.

**Chart 3**  
**VoIP Share of Total End-User Switched Access Lines and VoIP Subscriptions**



**Table 4**  
**End-User Switched Access Lines and VoIP Subscriptions Reported by Non-ILECs<sup>1</sup>**  
**(Lines and Subscriptions in Thousands)**

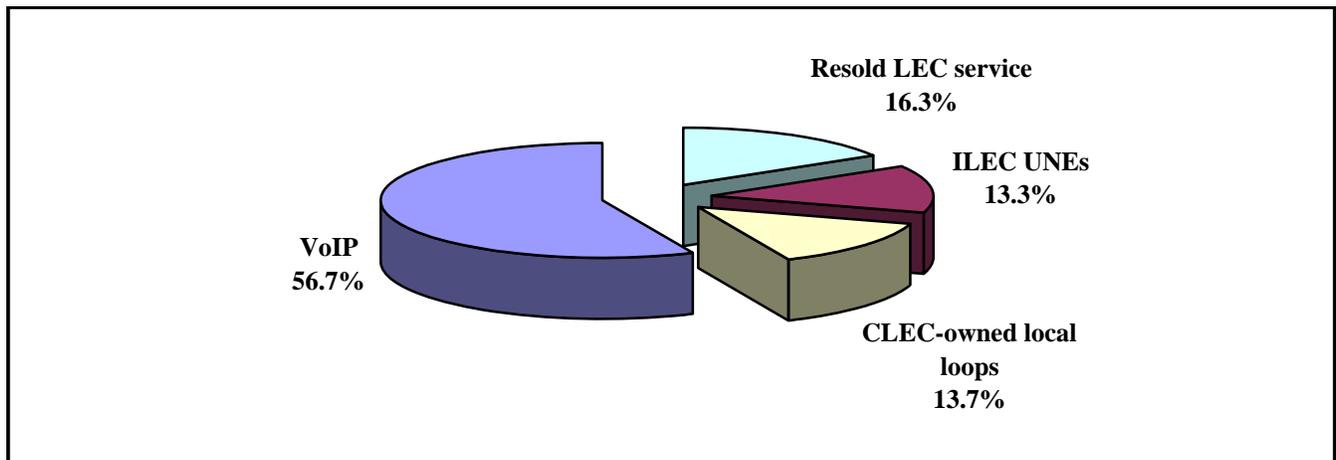
Date	Reporting Non-ILECs	End-User Switched Access Lines and VoIP Subscriptions	End-User Switched Access Lines			VoIP	Percent			
			Acquired from other LECs		CLEC-owned local loops <sup>3</sup>		Resold LEC service	ILEC UNEs	CLEC-owned local loops	VoIP
			Resold LEC service	ILEC UNEs <sup>2</sup>						
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	705	44,267	7,083	9,612	6,359	21,216	16.0	21.7	14.4	47.9
Jun 2009	719	44,275	6,841	8,461	6,002	22,971	15.5	19.1	13.6	51.9
Dec 2009	754	45,854	7,100	8,029	5,993	24,730	15.5	17.5	13.1	53.9
Jun 2010	786	48,481	8,002	7,509	6,229	26,740	16.5	15.5	12.8	55.2
Dec 2010	804	51,054	7,983	6,959	7,293	28,817	15.6	13.6	14.3	56.4
Jun 2011	830	52,917	8,636	7,028	7,248	30,004	16.3	13.3	13.7	56.7

<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 4**  
**Non-ILEC End-User Switched Access Lines and VoIP Subscriptions as of June 30, 2011**



**Table 5**

**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 <sup>4</sup>	Total UNEs		
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	777	128,288	117,968	529	3,209	3,844	2,740	6,583	9,792	7.6
Jun 2009	778	121,884	111,790	958	3,012	3,580	2,543	6,123	9,136	7.5
Dec 2009	768	116,075	105,824	1,195	2,993	3,668	2,396	6,063	9,056	7.8
Jun 2010	765	110,804	100,433	1,962	5,028	3,254	127	3,381	8,408	7.6
Dec 2010	761	105,412	94,661	2,857	4,717	3,124	53	3,177	7,894	7.5
Jun 2011	756	100,620	89,327	3,631	4,578	3,081	4	3,085	7,662	7.6

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

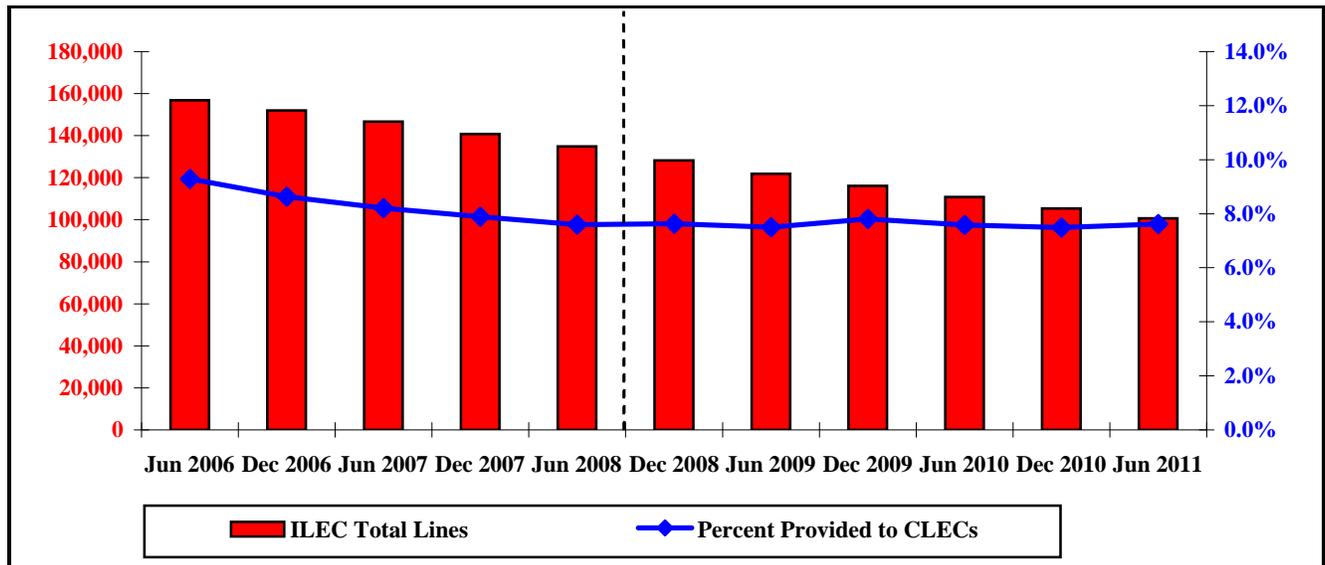
<sup>2</sup> Fewer ILECs were counted after mid-year 2007 primarily because FCC staff identified additional common-control relationships.

<sup>3</sup> 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.

<sup>4</sup> ILEC loops provided with ILEC switching, including the combination of ILEC loop UNE, switching UNE, and transport UNE, collectively referred to as the UNE-Platform ("UNE-P"). In the *Triennial Review Remand Order*, which was adopted on December 15, 2004, the Commission directed CLECs to migrate their retail customers served by these methods to alternative arrangements by March 11, 2006, i.e., within 12 months of the date the order went into effect See C.F.R. § 51.319(d)(2)(ii).

**Chart 5**

**ILEC Total (Retail and Wholesale) Lines and the Percent Provided to CLECs for Resale**



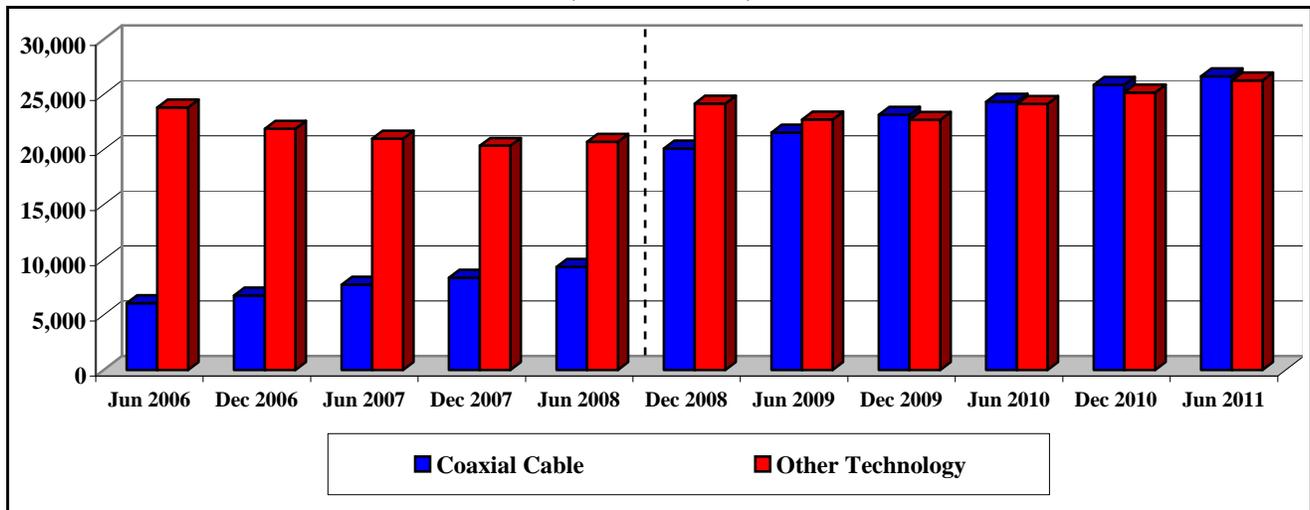
**Table 6**  
**End-User Switched Access Lines and VoIP Subscriptions**  
**by Type of Technology for Non-ILEC Providers<sup>1</sup>**  
**(In Thousands)**

Date	Coaxial Cable <sup>2</sup>	Other Technology	Total	Percent Coaxial Cable
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	20,108	24,158	44,267	45.4
Jun 2009	21,547	22,728	44,275	48.7
Dec 2009	23,168	22,686	45,854	50.5
Jun 2010	24,336	24,145	48,481	50.2
Dec 2010	25,878	25,177	51,054	50.7
Jun 2011	26,645	26,272	52,917	50.4

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

<sup>2</sup> Reported end-user switched access lines and interconnected VoIP connections that terminate on coaxial cable at the end user's premises. Starting, systematically, with the December 2008 data, interconnected VoIP service providers report subscriptions they sold in a bundle with cable modem Internet access service. For December 2008 and later dates, 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.

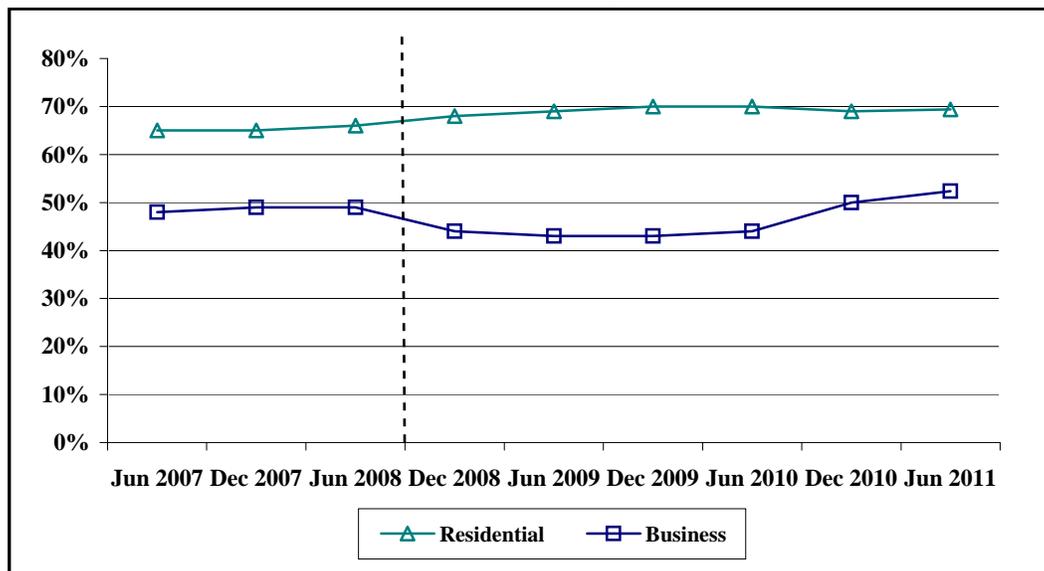
**Chart 6**  
**End-User Switched Access Lines and VoIP Subscriptions**  
**by Type of Technology for Non-ILEC Providers**  
**(In Thousands)**



**Table 7**  
**Percentage of Switched Access Lines Presubscribed for Long Distance Service**

	ILEC	CLEC	Total
<b>Residential</b>			
Jun 2007	65	86	68
Dec 2007	65	87	68
Jun 2008	66	88	69
Dec 2008	68	80	69
Jun 2009	69	80	70
Dec 2009	70	76	71
Jun 2010	70	76	71
Dec 2010	69	77	69
Jun 2011	69	78	70
<b>Business</b>			
Jun 2007	48	72	54
Dec 2007	49	70	54
Jun 2008	49	72	55
Dec 2008	44	70	51
Jun 2009	43	72	51
Dec 2009	43	71	51
Jun 2010	44	73	53
Dec 2010	50	76	58
Jun 2011	52	80	62
<b>Total</b>			
Jun 2007	59	78	62
Dec 2007	59	77	63
Jun 2008	59	79	63
Dec 2008	59	73	61
Jun 2009	59	74	61
Dec 2009	60	72	62
Jun 2010	60	74	62
Dec 2010	61	76	64
Jun 2011	62	80	66

**Chart 7**  
**Percent Presubscribed Interstate Long Distance Lines for ILECs**



**Table 8**  
**Residential and Business Presubscribed Switched Access Lines**  
**(In Thousands)**

	June 30, 2011		
	ILEC	CLEC	Total
<b>Residential</b>			
Presubscribed	35,984	3,024	39,008
Not Presubscribed	15,863	868	16,731
All Lines	51,847	3,892	55,739
Percent Presubscribed	69%	78%	70%
<b>Business</b>			
Presubscribed	19,620	15,210	34,830
Not Presubscribed	17,861	3,811	21,671
All Lines	37,480	19,021	56,501
Percent Presubscribed	52%	80%	62%
<b>Total</b>			
Presubscribed	55,604	18,234	73,838
Not Presubscribed	33,723	4,679	38,402
All Lines	89,327	22,913	112,240
Percent Presubscribed	62%	80%	66%
	December 31, 2010		
	ILEC Total	CLEC	Total
<b>Residential</b>			
Presubscribed	38,223	3,309	41,532
Not Presubscribed	17,488	1,007	18,495
All Lines	55,710	4,316	60,027
Percent Presubscribed	69%	77%	69%
<b>Business</b>			
Presubscribed	19,619	13,607	33,226
Not Presubscribed	19,331	4,313	23,644
All Lines	38,950	17,920	56,871
Percent Presubscribed	50%	76%	58%
<b>Total</b>			
Presubscribed	57,842	16,916	74,758
Not Presubscribed	36,819	5,320	42,140
All Lines	94,661	22,237	116,898
Percent Presubscribed	61%	76%	64%

Figures may not sum to totals due to rounding.

**Table 9**  
**Total End-User Switched Access Lines and VoIP Subscriptions by State as of June 30, 2011**  
**(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	1,354	0	32	1,386	329	74	222	625	2,011	31
Alaska	257	0	0	257	*	1	*	*	*	*
American Samoa	9	0	0	9	0	0	0	0	9	0
Arizona	1,407	2	1	1,409	678	102	419	1,198	2,608	46
Arkansas	802	0	25	827	118	22	117	257	1,085	24
California	12,244	1	542	12,786	2,308	562	2,623	5,492	18,279	30
Colorado	1,409	0	0	1,409	373	95	473	942	2,351	40
Connecticut	1,127	#	87	1,214	208	62	512	782	1,996	39
Delaware	285	#	22	307	64	*	*	177	484	37
District of Columbia	637	#	7	644	236	18	74	329	974	34
Florida	5,218	#	290	5,508	1,409	471	1,808	3,688	9,196	40
Georgia	2,677	#	102	2,779	670	175	570	1,415	4,193	34
Guam	45	0	0	45	*	*	*	*	*	*
Hawaii	430	#	1	431	44	5	88	137	568	24
Idaho	433	#	#	433	75	11	63	148	581	26
Illinois	3,856	0	222	4,078	709	260	924	1,894	5,972	32
Indiana	1,422	#	87	1,509	240	87	390	717	2,225	32
Iowa	916	#	#	917	185	133	42	360	1,277	28
Kansas	709	#	29	737	223	31	186	440	1,178	37
Kentucky	1,226	#	12	1,238	232	32	327	590	1,828	32
Louisiana	1,286	0	33	1,318	321	54	279	653	1,972	33
Maine	428	0	0	428	135	13	137	285	713	40
Maryland	2,034	#	159	2,193	443	114	417	975	3,168	31
Massachusetts	1,870	#	122	1,991	1,156	150	889	2,195	4,186	52
Michigan	2,444	0	175	2,619	456	192	929	1,577	4,195	38
Minnesota	1,537	0	#	1,537	497	89	367	954	2,491	38
Mississippi	771	0	12	783	116	27	98	241	1,024	24
Missouri	1,863	0	98	1,961	251	76	278	604	2,566	24
Montana	318	0	#	318	44	9	74	127	445	28
Nebraska	489	0	#	489	228	19	101	348	837	42
Nevada	709	0	11	720	133	60	277	470	1,189	40
New Hampshire	326	0	0	326	136	39	224	399	725	55
New Jersey	2,593	#	213	2,807	1,146	172	1,403	2,721	5,528	49
New Mexico	595	0	0	595	68	18	85	171	765	22
New York	5,009	#	249	5,258	1,944	224	3,045	5,212	10,470	50
North Carolina	2,739	#	39	2,779	680	115	777	1,572	4,350	36
North Dakota	210	0	0	210	82	2	40	125	335	37
Northern Mariana Isl.	15	0	0	15	0	0	0	0	15	0
Ohio	3,226	#	116	3,342	538	93	933	1,563	4,905	32
Oklahoma	956	0	26	981	303	48	268	619	1,601	39
Oregon	949	0	0	949	250	57	339	646	1,595	41
Pennsylvania	4,052	#	165	4,217	1,433	240	1,047	2,719	6,936	39
Puerto Rico	689	0	0	689	*	*	105	228	918	25
Rhode Island	233	#	22	255	282	*	*	383	638	60
South Carolina	1,295	0	34	1,330	292	58	273	623	1,952	32
South Dakota	212	0	#	212	136	5	58	199	411	48
Tennessee	1,721	0	53	1,774	507	85	442	1,034	2,808	37
Texas	6,599	#	447	7,046	1,108	273	1,166	2,547	9,593	27
Utah	586	0	0	586	171	34	167	372	959	39
Vermont	245	0	0	245	56	*	*	130	375	35
Virgin Islands	56	0	0	56	0	*	0	*	*	*
Virginia	2,579	#	125	2,705	836	154	531	1,522	4,227	36
Washington	1,722	0	0	1,722	389	119	717	1,224	2,946	42
West Virginia	603	#	#	603	113	16	141	270	873	31
Wisconsin	1,738	0	69	1,807	305	65	424	794	2,601	31
Wyoming	168	0	#	168	16	6	46	68	236	29
Nationwide	89,327	4	3,627	92,958	22,913	4,846	25,158	52,917	145,875	36

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

**Table 10**  
**Residential End-User Switched Access Lines and VoIP Subscriptions by State as of June 30, 2011**  
**(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	870	0	30	900	98	68	189	354	1,255	28
Alaska	126	0	0	126	*	1	*	*	*	*
American Samoa	5	0	0	5	0	0	0	0	5	0
Arizona	831	0	0	831	343	80	307	730	1,562	47
Arkansas	495	0	24	519	21	18	93	132	651	20
California	6,623	1	457	7,080	499	452	2,031	2,982	10,062	30
Colorado	867	0	0	867	15	80	381	475	1,342	35
Connecticut	620	#	81	702	46	52	456	555	1,257	44
Delaware	158	#	21	179	5	*	*	111	290	38
District of Columbia	119	#	3	122	12	12	35	59	181	33
Florida	3,103	#	261	3,363	65	401	1,567	2,032	5,396	38
Georgia	1,531	#	86	1,618	91	154	475	719	2,337	31
Guam	24	0	0	24	*	*	*	*	*	*
Hawaii	234	0	0	234	0	5	77	82	316	26
Idaho	270	#	0	270	22	8	50	80	350	23
Illinois	1,980	0	196	2,176	78	233	778	1,089	3,265	33
Indiana	819	0	82	901	66	78	346	490	1,390	35
Iowa	598	0	#	598	73	124	10	208	806	26
Kansas	402	#	26	428	94	24	141	259	687	38
Kentucky	766	#	10	775	76	23	223	321	1,097	29
Louisiana	758	0	29	787	134	47	227	407	1,194	34
Maine	310	0	0	310	11	11	126	148	458	32
Maryland	1,066	#	148	1,214	66	97	353	515	1,730	30
Massachusetts	991	#	111	1,102	57	131	830	1,017	2,119	48
Michigan	1,312	0	154	1,466	111	176	878	1,166	2,631	44
Minnesota	1,051	0	#	1,051	91	82	300	473	1,524	31
Mississippi	465	0	10	475	32	24	91	147	623	24
Missouri	1,160	0	92	1,251	32	67	221	320	1,571	20
Montana	203	0	#	203	14	7	56	77	280	28
Nebraska	277	0	0	277	105	15	70	189	467	41
Nevada	406	0	10	416	3	49	231	284	700	41
New Hampshire	214	0	0	214	4	35	208	247	461	54
New Jersey	1,386	#	192	1,579	76	149	1,207	1,431	3,010	48
New Mexico	388	0	0	388	8	15	62	85	473	18
New York	2,776	#	217	2,994	215	169	2,564	2,948	5,942	50
North Carolina	1,692	#	36	1,727	48	99	703	850	2,578	33
North Dakota	141	0	0	141	45	2	8	54	195	28
Northern Mariana Isl.	7	0	0	7	0	0	0	0	7	0
Ohio	1,962	#	101	2,063	83	71	840	993	3,056	33
Oklahoma	578	0	24	602	163	36	211	410	1,012	40
Oregon	635	0	0	635	20	49	300	368	1,003	37
Pennsylvania	2,616	#	151	2,767	132	207	954	1,293	4,060	32
Puerto Rico	503	0	0	503	*	*	89	100	603	17
Rhode Island	142	#	22	163	93	*	*	170	334	51
South Carolina	836	0	28	864	61	44	231	336	1,200	28
South Dakota	133	0	#	133	82	4	54	140	273	51
Tennessee	1,094	0	46	1,140	70	76	366	512	1,652	31
Texas	3,674	#	395	4,069	125	217	1,004	1,346	5,415	25
Utah	356	0	0	356	18	28	140	186	542	34
Vermont	172	0	0	172	5	*	*	74	247	30
Virgin Islands	34	0	0	34	0	*	0	*	*	*
Virginia	1,472	#	109	1,581	187	127	388	701	2,282	31
Washington	1,107	0	0	1,107	41	105	650	796	1,904	42
West Virginia	410	#	#	410	11	14	133	157	567	28
Wisconsin	996	0	62	1,058	60	57	404	521	1,580	33
Wyoming	84	0	#	85	3	6	37	46	130	35
Nationwide	51,847	2	3,215	55,064	3,892	4,089	21,310	29,291	84,355	35

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

**Table 11**  
**Business End-User Switched Access Lines and VoIP Subscriptions by State as of June 30, 2011**  
**(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	484	0	2	486	232	6	34	271	757	36%
Alaska	130	0	0	130	*	#	*	*	*	*
American Samoa	5	0	0	5	0	0	0	0	5	0
Arizona	575	2	1	578	335	21	112	468	1,046	45
Arkansas	307	0	1	308	97	4	24	125	433	29
California	5,621	0	86	5,706	1,808	110	592	2,510	8,217	31
Colorado	542	0	0	542	359	16	92	467	1,009	46
Connecticut	507	0	6	512	161	9	56	227	739	31
Delaware	127	0	1	128	58	*	*	66	194	34
District of Columbia	519	0	4	522	224	7	39	270	793	34
Florida	2,115	0	29	2,144	1,344	70	241	1,656	3,800	44
Georgia	1,146	0	15	1,161	579	21	95	696	1,857	37
Guam	21	0	0	21	*	0	*	*	*	*
Hawaii	196	#	1	197	44	#	10	55	252	22
Idaho	163	#	#	163	53	2	13	69	231	30
Illinois	1,876	0	26	1,902	631	28	146	805	2,707	30
Indiana	603	#	5	608	174	9	44	227	835	27
Iowa	318	#	#	318	112	9	32	152	471	32
Kansas	307	0	3	309	129	7	45	181	490	37
Kentucky	461	#	2	463	156	9	104	269	732	37
Louisiana	528	0	3	531	187	8	52	247	778	32
Maine	117	0	0	117	124	2	10	137	254	54
Maryland	969	0	10	979	378	17	64	459	1,438	32
Massachusetts	879	0	11	890	1,099	19	59	1,177	2,067	57
Michigan	1,132	0	20	1,153	345	16	50	411	1,564	26
Minnesota	486	0	0	486	406	7	67	481	967	50
Mississippi	306	0	2	307	84	3	7	94	401	23
Missouri	703	0	7	710	219	9	57	285	995	29
Montana	116	0	0	116	30	2	17	50	165	30
Nebraska	212	0	#	212	123	4	31	158	370	43
Nevada	303	0	1	304	130	11	46	186	490	38
New Hampshire	112	0	0	112	132	5	16	152	264	58
New Jersey	1,207	0	21	1,228	1,070	23	197	1,290	2,518	51
New Mexico	207	0	0	207	60	3	23	85	293	29
New York	2,233	0	32	2,265	1,728	55	481	2,264	4,529	50
North Carolina	1,047	0	4	1,051	632	16	74	722	1,773	41
North Dakota	69	0	0	69	37	#	32	70	139	50
Northern Mariana Isl.	8	0	0	8	0	0	0	0	8	0
Ohio	1,265	0	15	1,279	455	22	92	570	1,849	31
Oklahoma	378	0	1	379	140	12	57	210	589	36
Oregon	314	0	0	314	230	8	40	278	592	47
Pennsylvania	1,436	0	14	1,450	1,300	34	93	1,427	2,876	50
Puerto Rico	186	0	0	186	*	*	16	129	315	41
Rhode Island	91	0	#	92	189	*	*	213	304	70
South Carolina	460	0	6	466	231	13	42	286	752	38
South Dakota	79	0	0	79	55	#	4	59	138	43
Tennessee	627	0	7	634	437	9	76	522	1,156	45
Texas	2,925	0	52	2,977	983	56	162	1,201	4,178	29
Utah	230	0	0	230	153	5	28	186	416	45
Vermont	73	0	0	73	51	*	*	56	129	43
Virgin Islands	22	0	0	22	0	*	0	*	*	*
Virginia	1,108	0	16	1,124	649	27	144	821	1,944	42
Washington	615	0	0	615	348	13	67	428	1,042	41
West Virginia	193	0	0	193	102	3	8	112	306	37
Wisconsin	742	0	6	748	245	8	19	273	1,021	27
Wyoming	83	0	0	83	13	1	9	23	106	22
Nationwide	37,480	2	412	37,894	19,021	757	3,848	23,626	61,520	38

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

**Table 12**  
**Non-ILEC Share of Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**

State	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	13 %	14 %	16 %	21 %	21 %	24 %	28 %	29 %	31 %
Alaska	*	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0
Arizona	33	34	37	40	40	42	44	46	46
Arkansas	14	14	14	18	19	20	21	22	24
California	14	14	15	22	23	25	27	28	30
Colorado	17	16	19	31	32	34	36	39	40
Connecticut	13	14	15	29	31	33	35	37	39
Delaware	19	17	18	30	31	32	34	35	37
District of Columbia	14	14	15	20	20	21	21	24	34
Florida	13	13	14	27	28	31	36	37	40
Georgia	16	16	17	25	26	27	30	31	34
Guam	0	*	*	*	*	*	*	*	*
Hawaii	13	16	18	18	19	21	22	24	24
Idaho	11	11	11	17	17	19	25	28	26
Illinois	14	14	14	24	24	25	27	30	32
Indiana	9	9	11	18	19	20	23	25	32
Iowa	17	18	19	22	22	24	26	27	28
Kansas	25	26	28	31	31	32	34	36	37
Kentucky	16	19	18	25	27	28	28	31	32
Louisiana	17	18	21	23	24	27	29	31	33
Maine	17	20	24	30	33	36	38	39	40
Maryland	15	14	15	25	26	27	29	28	31
Massachusetts	23	24	25	39	40	42	44	49	52
Michigan	18	19	20	29	30	32	34	36	38
Minnesota	24	23	22	31	32	34	36	37	38
Mississippi	10	10	11	16	17	20	23	25	24
Missouri	14	14	15	18	18	20	22	23	24
Montana	16	18	19	21	22	23	24	26	28
Nebraska	29	30	31	34	35	38	39	42	42
Nevada	24	22	26	30	31	33	36	39	40
New Hampshire	23	23	25	42	45	49	51	54	55
New Jersey	17	17	18	34	36	38	40	46	49
New Mexico	8	8	9	14	15	17	19	21	22
New York	28	29	31	41	42	44	46	49	50
North Carolina	18	19	20	24	25	27	30	31	36
North Dakota	21	22	24	32	31	35	36	38	37
Northern Mariana Isl.	0	0	0	0	0	0	0	0	0
Ohio	18	20	23	25	26	28	29	31	32
Oklahoma	23	25	27	30	30	34	35	38	39
Oregon	18	18	18	31	32	34	36	39	41
Pennsylvania	20	20	21	30	30	32	34	36	39
Puerto Rico	*	*	19	22	25	22	26	25	25
Rhode Island	47	48	50	52	53	54	54	58	60
South Carolina	16	17	19	23	24	26	30	32	32
South Dakota	30	31	32	36	36	44	45	47	48
Tennessee	16	17	18	25	25	28	30	32	37
Texas	16	17	18	22	22	23	24	25	27
Utah	22	20	21	26	32	34	35	37	39
Vermont	12	12	13	24	23	27	29	32	35
Virgin Islands	0	0	0	*	0	*	*	*	*
Virginia	22	23	23	31	32	34	35	38	36
Washington	15	14	16	30	32	35	37	40	42
West Virginia	13	14	16	22	24	27	29	30	31
Wisconsin	21	23	24	26	26	27	27	30	31
Wyoming	17	18	19	21	21	22	24	26	29
Nationwide	18 %	18 %	19 %	27 %	28 %	30 %	32 %	34 %	36 %

\* = Data withheld to maintain firm confidentiality. NA = Not available.

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

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

State	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	298	315	352	463	452	493	573	574	625
Alaska	*	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0	0
Arizona	1,043	1,071	1,129	1,227	1,170	1,189	1,245	1,254	1,198
Arkansas	178	173	175	220	224	230	248	250	257
California	2,898	2,984	3,101	4,607	4,753	4,845	5,140	5,325	5,492
Colorado	425	395	449	847	823	835	893	942	942
Connecticut	261	265	291	630	644	680	706	751	782
Delaware	99	85	85	166	165	165	173	173	177
District of Columbia	137	131	136	183	179	190	183	210	329
Florida	1,298	1,265	1,276	2,748	2,734	2,903	3,435	3,426	3,688
Georgia	730	725	764	1,174	1,132	1,169	1,314	1,288	1,415
Guam	0	*	*	*	*	*	*	*	*
Hawaii	88	103	115	114	117	125	128	138	137
Idaho	78	75	79	123	116	123	159	177	148
Illinois	950	909	875	1,667	1,610	1,630	1,653	1,821	1,894
Indiana	293	284	313	565	562	592	649	692	717
Iowa	251	269	273	309	310	322	344	354	360
Kansas	349	358	375	419	413	408	429	436	440
Kentucky	328	371	331	497	508	521	520	581	590
Louisiana	363	383	449	491	507	539	586	619	653
Maine	135	150	181	233	250	274	282	283	285
Maryland	527	475	479	868	889	909	952	899	975
Massachusetts	865	844	871	1,602	1,589	1,641	1,692	1,964	2,195
Michigan	923	893	927	1,458	1,449	1,499	1,515	1,573	1,577
Minnesota	659	613	572	877	862	904	926	940	954
Mississippi	125	112	122	184	184	214	253	267	241
Missouri	436	448	471	523	518	553	597	609	604
Montana	82	93	96	101	103	104	109	117	127
Nebraska	258	265	274	299	302	332	330	359	348
Nevada	356	307	372	420	410	415	450	475	470
New Hampshire	171	165	167	347	351	376	388	395	399
New Jersey	897	859	866	1,946	1,984	2,001	2,103	2,458	2,721
New Mexico	77	73	75	123	128	138	157	168	171
New York	2,868	2,941	3,125	4,563	4,574	4,705	4,790	5,256	5,212
North Carolina	846	888	953	1,101	1,137	1,199	1,324	1,323	1,572
North Dakota	71	71	76	113	104	123	126	129	125
Northern Mariana Isl.	0	0	0	0	0	0	0	0	0
Ohio	1,069	1,171	1,365	1,473	1,448	1,490	1,547	1,613	1,563
Oklahoma	420	445	474	521	504	570	572	621	619
Oregon	325	308	300	575	562	581	614	629	646
Pennsylvania	1,521	1,407	1,423	2,205	2,157	2,197	2,317	2,472	2,719
Puerto Rico	*	*	186	210	234	170	244	234	228
Rhode Island	291	290	301	317	311	311	308	353	383
South Carolina	349	369	399	478	497	535	621	630	623
South Dakota	117	119	124	140	136	183	188	193	199
Tennessee	483	510	523	756	725	790	859	872	1,034
Texas	1,859	1,944	1,919	2,387	2,352	2,365	2,443	2,517	2,547
Utah	242	212	211	274	340	351	359	368	372
Vermont	47	47	47	90	91	102	110	116	130
Virgin Islands	0	0	0	*	#	*	*	*	*
Virginia	1,048	1,034	1,043	1,443	1,475	1,563	1,585	1,716	1,522
Washington	480	428	471	1,031	1,023	1,092	1,157	1,217	1,224
West Virginia	121	132	141	196	214	235	248	269	270
Wisconsin	684	709	744	770	755	771	728	791	794
Wyoming	46	48	51	54	53	54	58	62	68
<b>Total</b>	<b>28,729</b>	<b>28,725</b>	<b>30,049</b>	<b>44,267</b>	<b>44,275</b>	<b>45,854</b>	<b>48,481</b>	<b>51,054</b>	<b>52,917</b>

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

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

**Table 14**  
**ILEC Total End-User Switched Access Lines and VoIP Subscriptions by State<sup>1</sup>**  
**(In Thousands)**

State	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	1,982	1,991	1,861	1,746	1,665	1,579	1,506	1,439	1,386
Alaska	318	301	294	289	282	273	271	260	257
American Samoa	11	10	11	10	10	10	10	10	9
Arizona	2,109	2,035	1,943	1,847	1,741	1,649	1,563	1,476	1,409
Arkansas	1,132	1,105	1,069	1,021	982	941	904	865	827
California	18,485	17,864	17,149	16,345	15,555	14,796	14,118	13,455	12,786
Colorado	2,133	2,057	1,973	1,873	1,758	1,656	1,569	1,473	1,409
Connecticut	1,785	1,681	1,632	1,540	1,463	1,389	1,326	1,268	1,214
Delaware	432	414	396	380	363	344	331	317	307
District of Columbia	832	797	788	737	714	697	680	679	644
Florida	8,708	8,356	7,932	7,440	6,918	6,491	6,138	5,798	5,508
Georgia	3,957	3,824	3,675	3,468	3,304	3,156	3,011	2,881	2,779
Guam	67	66	62	54	51	49	48	48	45
Hawaii	562	541	516	512	489	473	455	444	431
Idaho	651	628	609	582	550	514	486	455	433
Illinois	5,976	5,773	5,562	5,342	5,086	4,812	4,581	4,313	4,078
Indiana	2,875	2,766	2,665	2,547	2,434	2,300	2,186	2,064	1,509
Iowa	1,245	1,200	1,162	1,113	1,077	1,024	987	941	917
Kansas	1,046	1,012	977	939	899	858	820	774	737
Kentucky	1,684	1,616	1,542	1,458	1,387	1,352	1,317	1,272	1,238
Louisiana	1,801	1,759	1,710	1,634	1,561	1,489	1,426	1,369	1,318
Maine	649	611	579	542	519	482	463	438	428
Maryland	2,984	2,886	2,792	2,588	2,520	2,403	2,333	2,262	2,193
Massachusetts	2,830	2,712	2,609	2,493	2,369	2,238	2,149	2,065	1,991
Michigan	4,118	3,895	3,719	3,514	3,323	3,113	2,952	2,757	2,619
Minnesota	2,137	2,078	2,006	1,922	1,826	1,725	1,666	1,586	1,537
Mississippi	1,091	1,035	1,018	963	922	879	848	813	783
Missouri	2,722	2,650	2,568	2,465	2,367	2,259	2,162	2,055	1,961
Montana	435	416	406	387	371	351	342	327	318
Nebraska	628	624	606	584	564	543	521	501	489
Nevada	1,158	1,106	1,042	972	911	856	809	759	720
New Hampshire	575	546	507	470	435	385	366	342	326
New Jersey	4,354	4,137	3,936	3,734	3,519	3,288	3,112	2,937	2,807
New Mexico	834	816	783	754	713	682	651	618	595
New York	7,417	7,068	6,902	6,557	6,234	5,900	5,653	5,416	5,258
North Carolina	3,973	3,847	3,715	3,519	3,335	3,189	3,045	2,886	2,779
North Dakota	261	253	248	241	233	224	220	213	210
Northern Mariana Isl.	19	18	18	17	17	16	16	16	15
Ohio	4,973	4,763	4,537	4,326	4,124	3,914	3,719	3,515	3,342
Oklahoma	1,375	1,321	1,267	1,215	1,169	1,117	1,070	1,022	981
Oregon	1,502	1,429	1,359	1,286	1,210	1,140	1,080	1,003	949
Pennsylvania	5,953	5,775	5,494	5,243	5,029	4,771	4,571	4,387	4,217
Puerto Rico	916	809	786	755	698	610	706	707	689
Rhode Island	327	312	302	292	281	270	264	260	255
South Carolina	1,866	1,798	1,728	1,629	1,561	1,488	1,429	1,368	1,330
South Dakota	276	268	261	251	244	233	227	217	212
Tennessee	2,618	2,537	2,436	2,297	2,170	2,061	1,962	1,863	1,774
Texas	9,608	9,329	9,020	8,673	8,307	7,999	7,678	7,360	7,046
Utah	864	844	811	776	725	690	657	614	586
Vermont	355	340	323	289	299	280	265	253	245
Virgin Islands	67	64	62	61	59	57	59	58	56
Virginia	3,642	3,540	3,422	3,265	3,160	3,050	2,944	2,811	2,705
Washington	2,762	2,643	2,509	2,367	2,211	2,071	1,962	1,815	1,722
West Virginia	806	780	752	714	677	637	606	628	603
Wisconsin	2,516	2,422	2,336	2,246	2,156	2,051	1,970	1,874	1,807
Wyoming	233	225	218	209	200	190	183	175	168
<b>Total</b>	<b>134,640</b>	<b>129,693</b>	<b>124,606</b>	<b>118,496</b>	<b>112,748</b>	<b>107,019</b>	<b>102,395</b>	<b>97,518</b>	<b>92,958</b>

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

**Table 15**  
**Non-ILEC Methods of Providing Wireline Telephone Services by State**  
**as of June 30, 2011**  
**(In Thousands)**

State	Resold LEC service	ILEC UNEs	CLEC-owned local loops	VoIP Subscriptions <sup>1</sup>	Total
Alabama	107	137	84	296	625
Alaska	*	*	*	*	*
American Samoa	0	0	0	0	0
Arizona	157	103	418	520	1,198
Arkansas	34	18	66	139	257
California	1,235	441	632	3,185	5,492
Colorado	158	166	50	568	942
Connecticut	53	59	96	574	782
Delaware	34	28	2	113	177
District of Columbia	158	30	48	93	329
Florida	612	562	236	2,279	3,688
Georgia	197	344	129	744	1,415
Guam	*	*	*	*	*
Hawaii	25	3	16	93	137
Idaho	20	27	27	74	148
Illinois	306	239	164	1,185	1,894
Indiana	76	70	94	477	717
Iowa	62	38	84	176	360
Kansas	71	35	116	217	440
Kentucky	87	53	92	359	590
Louisiana	127	99	94	333	653
Maine	24	64	47	150	285
Maryland	229	134	81	531	975
Massachusetts	315	215	625	1,039	2,195
Michigan	130	270	57	1,121	1,577
Minnesota	126	249	123	457	954
Mississippi	63	44	9	125	241
Missouri	88	114	49	354	604
Montana	8	10	26	83	127
Nebraska	79	8	142	120	348
Nevada	78	35	21	337	470
New Hampshire	40	63	34	263	399
New Jersey	555	229	360	1,575	2,721
New Mexico	38	12	18	103	171
New York	802	521	620	3,268	5,212
North Carolina	270	275	134	892	1,572
North Dakota	7	15	60	42	125
Northern Mariana Isl.	0	0	0	0	0
Ohio	175	195	167	1,025	1,563
Oklahoma	109	60	135	316	619
Oregon	65	134	50	396	646
Pennsylvania	492	393	549	1,287	2,719
Puerto Rico	13	*	*	*	228
Rhode Island	29	22	231	101	383
South Carolina	104	114	74	330	623
South Dakota	11	1	124	63	199
Tennessee	193	186	128	527	1,034
Texas	449	420	237	1,439	2,547
Utah	53	79	40	201	372
Vermont	14	24	19	74	130
Virgin Islands	*	*	*	*	*
Virginia	334	170	332	686	1,522
Washington	127	179	82	835	1,224
West Virginia	26	68	19	157	270
Wisconsin	55	204	45	489	794
Wyoming	10	3	4	52	68
<b>Total</b>	<b>8,636</b>	<b>7,028</b>	<b>7,248</b>	<b>30,004</b>	<b>52,917</b>

\* = Data withheld to maintain firm confidentiality. Figures may not sum to totals due to rounding.

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

**Table 16**  
**Percentage of End-User Switched Access Lines and VoIP Subscriptions**  
**Provided to Residential Customers by State as of June 30, 2011**

<b>State</b>	<b>ILECs</b>	<b>Non-ILECs</b>	<b>Total</b>
Alabama	65%	57%	62%
Alaska	49	*	*
American Samoa	56	NA	56
Arizona	59	61	60
Arkansas	63	51	60
California	55	54	55
Colorado	62	50	57
Connecticut	58	71	63
Delaware	58	63	60
District of Columbia	19	18	19
Florida	61	55	59
Georgia	58	51	56
Guam	53	*	*
Hawaii	54	60	56
Idaho	62	54	60
Illinois	53	57	55
Indiana	60	68	62
Iowa	65	58	63
Kansas	58	59	58
Kentucky	63	54	60
Louisiana	60	62	61
Maine	72	52	64
Maryland	55	53	55
Massachusetts	55	46	51
Michigan	56	74	63
Minnesota	68	50	61
Mississippi	61	61	61
Missouri	64	53	61
Montana	64	61	63
Nebraska	57	54	56
Nevada	58	60	59
New Hampshire	66	62	64
New Jersey	56	53	54
New Mexico	65	50	62
New York	57	57	57
North Carolina	62	54	59
North Dakota	67	43	58
Northern Mariana Isl.	47	NA	47
Ohio	62	64	62
Oklahoma	61	66	63
Oregon	67	57	63
Pennsylvania	66	48	59
Puerto Rico	73	44	66
Rhode Island	64	44	52
South Carolina	65	54	61
South Dakota	63	70	66
Tennessee	64	50	59
Texas	58	53	56
Utah	61	50	57
Vermont	70	57	66
Virgin Islands	61	*	*
Virginia	58	46	54
Washington	64	65	65
West Virginia	68	58	65
Wisconsin	59	66	61
Wyoming	51	68	55
Nationwide	59	55	58

\* = Data withheld to maintain firm confidentiality. NA = Not applicable.

**Table 17**  
**Number of Reporting ILECs, Non-ILECs, and VoIP Providers by State**  
**as of June 30, 2011**

<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	112	125	83
Alaska	17	16	32	15
American Samoa	1	0	1	0
Arizona	15	111	123	91
Arkansas	20	81	97	61
California	15	164	175	128
Colorado	25	119	142	91
Connecticut	2	92	92	72
Delaware	1	61	62	45
District of Columbia	1	78	79	62
Florida	10	196	201	135
Georgia	27	155	174	115
Guam	1	4	5	3
Hawaii	2	29	31	26
Idaho	18	67	81	52
Illinois	43	161	195	112
Indiana	29	120	140	85
Iowa	134	110	216	56
Kansas	38	98	123	64
Kentucky	17	111	119	75
Louisiana	11	92	97	63
Maine	7	56	60	37
Maryland	2	116	116	85
Massachusetts	4	113	115	87
Michigan	25	117	133	84
Minnesota	48	116	149	74
Mississippi	13	91	98	65
Missouri	31	106	129	78
Montana	17	66	76	49
Nebraska	31	71	93	49
Nevada	12	83	93	72
New Hampshire	6	74	80	58
New Jersey	3	134	134	103
New Mexico	16	73	84	53
New York	25	151	166	114
North Carolina	19	139	149	98
North Dakota	23	49	66	29
Northern Mariana Isl	1	0	1	0
Ohio	34	134	158	99
Oklahoma	38	89	121	61
Oregon	23	101	120	74
Pennsylvania	23	145	159	110
Puerto Rico	1	18	18	17
Rhode Island	1	56	57	43
South Carolina	17	117	123	82
South Dakota	28	52	71	39
Tennessee	18	118	131	84
Texas	51	191	224	129
Utah	12	77	87	61
Vermont	7	57	63	43
Virgin Islands	1	1	2	1
Virginia	15	119	129	95
Washington	16	117	129	93
West Virginia	7	69	73	56
Wisconsin	40	113	139	72
Wyoming	9	60	65	42
Nationwide	756	830	1,377	491

<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 and once in the Total 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 18**  
**Mobile Telephone Facilities-based Carriers and Mobile Telephony Subscribers**

State	Jun 2011		Subscribers (In Thousands)								
	Carriers	%	2007		2008		2009		2010		2011
		Resold <sup>1</sup>	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Alabama	12	12 %	3,605	3,765	3,887	3,960	4,003	4,228	4,211	4,328	4,350
Alaska	12	6	432	460	480	383	544	586	590	608	619
American Samoa	2	*	*	*	*	*	*	*	*	*	*
Arizona	12	6	4,637	4,800	4,936	4,983	5,005	5,101	5,268	5,285	5,402
Arkansas	11	19	2,149	2,288	2,446	2,530	2,576	2,519	2,485	2,673	2,773
California	14	4	30,204	32,247	31,946	32,177	32,215	32,938	33,548	33,839	34,299
Colorado	13	8	3,756	3,968	4,066	4,311	4,357	4,503	4,647	4,687	4,705
Connecticut	9	7	2,787	2,884	2,959	3,030	3,047	3,123	3,192	3,230	3,305
Delaware	10	8	724	751	775	778	779	803	859	851	881
District of Columbia	9	7	966	936	1,047	1,096	1,116	1,183	1,227	1,249	1,273
Florida	12	7	15,255	15,605	15,809	16,158	16,425	16,744	16,895	17,251	17,613
Georgia	14	9	7,598	7,941	8,142	8,322	8,562	8,863	8,869	9,063	9,137
Guam	4	2	*	*	*	*	*	*	*	*	139
Hawaii	8	5	1,067	1,096	1,115	1,184	1,196	1,216	1,248	1,252	1,274
Idaho	16	6	1,019	1,086	1,125	1,167	1,180	1,221	1,269	1,277	1,293
Illinois	16	9	9,949	10,330	10,634	10,919	11,070	11,523	11,604	12,057	12,259
Indiana	13	9	4,448	4,675	4,824	4,956	4,983	5,205	5,289	5,410	5,496
Iowa	72	8	2,058	2,166	2,245	2,319	2,336	2,432	2,466	2,535	2,559
Kansas	16	12	2,133	2,261	2,326	2,421	2,430	2,466	2,491	2,560	2,570
Kentucky	13	11	3,101	3,291	3,343	3,445	3,439	3,631	3,654	3,726	3,754
Louisiana	15	16	3,612	3,765	3,896	4,012	4,053	3,993	3,953	4,340	4,861
Maine	9	18	882	941	972	1,012	1,006	1,065	1,040	1,124	1,090
Maryland	11	7	4,818	5,024	5,124	5,234	5,260	5,323	5,500	5,560	5,665
Massachusetts	9	9	5,289	5,470	5,624	5,749	6,027	6,171	6,367	6,316	6,419
Michigan	12	15	7,333	7,608	7,821	8,027	8,171	8,576	8,690	8,861	9,391
Minnesota	12	9	3,834	4,048	4,164	4,345	4,254	4,439	4,611	4,704	4,782
Mississippi	11	11	2,070	2,196	2,252	2,312	2,361	2,345	2,322	2,440	2,516
Missouri	14	12	4,480	4,674	4,835	4,940	4,985	5,129	5,141	5,309	5,458
Montana	11	8	650	694	723	748	707	802	783	846	803
Nebraska	13	7	1,325	1,387	1,451	1,496	1,508	1,515	1,566	1,523	1,542
Nevada	13	9	2,093	2,167	2,249	2,268	2,325	2,393	2,417	2,453	2,490
New Hampshire	10	11	973	1,022	1,045	1,080	1,075	1,125	1,141	1,170	1,171
New Jersey	10	6	7,419	7,654	7,834	8,008	8,036	8,158	8,624	8,601	8,786
New Mexico	11	5	1,416	1,489	1,555	1,536	1,550	1,624	1,668	1,689	1,662
New York	12	9	15,901	16,395	17,260	16,702	18,193	18,882	19,303	19,504	19,938
North Carolina	14	10	6,962	7,306	7,428	8,024	8,193	8,108	8,259	8,526	8,513
North Dakota	12	7	492	513	541	581	562	618	590	623	615
Northern Mariana Isl.	2	*	*	*	*	*	*	*	*	*	*
Ohio	13	12	8,723	9,099	9,357	9,565	9,456	10,059	10,236	10,511	10,936
Oklahoma	17	8	2,572	2,723	2,808	2,889	2,988	3,077	3,109	3,188	3,259
Oregon	12	7	2,781	2,923	3,007	3,084	3,112	3,235	3,297	3,340	3,355
Pennsylvania	16	10	9,201	9,615	9,895	10,214	10,455	10,867	11,070	11,424	11,401
Puerto Rico	7	6	2,323	2,411	2,502	2,624	2,706	2,807	2,879	3,014	3,004
Rhode Island	9	7	829	848	874	888	880	893	906	920	935
South Carolina	16	10	3,340	3,500	3,573	3,323	3,374	3,896	3,848	3,960	3,987
South Dakota	10	7	570	596	611	631	613	681	681	728	690
Tennessee	13	9	4,971	5,246	5,791	5,518	5,676	5,914	6,041	6,193	6,236
Texas	24	6	18,792	19,677	20,390	21,008	21,403	21,849	22,201	23,037	23,482
Utah	13	5	1,874	1,971	2,046	2,095	2,109	2,166	2,220	2,251	2,276
Vermont	7	13	375	402	421	435	398	463	431	485	471
Virgin Islands	4	13	*	*	*	*	*	*	*	*	117
Virginia	12	8	6,148	6,416	6,242	6,856	6,596	7,250	7,440	7,595	7,622
Washington	12	7	5,035	5,292	5,461	5,624	5,671	5,816	5,965	6,022	6,118
West Virginia	11	20	1,095	1,173	1,236	1,295	1,315	1,401	1,406	1,500	1,506
Wisconsin	15	11	3,641	3,842	3,966	4,265	4,317	4,546	4,599	4,704	4,895
Wyoming	13	8	410	441	457	484	429	517	501	526	514
Nationwide	185	9 %	238,316	249,332	255,729	261,284	265,332	274,283	278,918	285,125	290,304

\* = Data withheld to maintain firm confidentiality.

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

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

Number of Providers <sup>2</sup>	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Zero	17.7 %	19.4 %	18.3 %	7.7 %	8.7 %	9.3 %	7.1 %	6.9 %	7.2 %
One	11.1	11.7	11.6	9.2	10.1	10.1	8.7	8.6	8.7
Two	8.3	8.3	8.6	7.8	7.9	7.6	7.4	7.6	7.6
Three	6.7	6.2	6.3	6.4	6.1	6.2	6.2	6.3	6.4
Four	5.4	5.0	5.0	5.4	5.4	5.2	5.2	5.5	5.5
Five	4.4	3.9	4.1	4.8	4.6	4.5	4.7	5.0	5.1
Six	3.8	3.5	3.5	4.2	4.0	3.8	4.2	4.2	4.3
Seven	3.4	3.3	3.2	3.6	3.4	3.5	3.6	3.7	4.0
Eight	2.8	2.9	3.0	3.2	3.1	3.0	3.4	3.5	3.4
Nine	2.9	2.6	2.7	2.8	2.6	2.7	2.8	3.0	3.0
Ten or More	33.5	33.1	33.6	44.7	44.0	44.0	46.6	45.7	44.8

**Table 20**  
**Percentage of Households in ZIP Codes with CLECs or Non-ILEC VoIP Providers<sup>1</sup>**

Number of Providers <sup>2</sup>	2007		2008		2009		2010		2011
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec	Jun
Zero	2.4 %	2.8 %	2.6 %	0.4 %	0.5 %	0.6 %	0.4 %	0.4 %	0.4 %
One	2.4	2.6	2.4	0.9	1.2	1.2	0.9	0.8	0.8
Two	2.2	2.4	2.4	1.2	1.3	1.3	1.0	1.1	1.1
Three	2.3	2.5	2.4	1.3	1.4	1.4	1.3	1.2	1.2
Four	2.4	2.2	2.2	1.3	1.5	1.5	1.3	1.3	1.3
Five	2.5	2.2	2.2	1.6	1.4	1.5	1.4	1.4	1.5
Six	2.3	2.2	2.1	1.7	1.5	1.5	1.3	1.5	1.4
Seven	2.4	2.5	2.3	1.8	1.5	1.6	1.4	1.5	1.7
Eight	2.4	2.8	2.8	1.7	1.8	1.6	1.6	1.8	1.6
Nine	2.8	2.8	2.7	1.6	1.6	1.7	1.6	1.5	1.5
Ten or More	75.8	75.0	75.9	86.6	86.2	86.1	87.9	87.4	87.6

Demographic data were created by geographically merging contemporaneous TomTom ZIP Code Boundary and Inventory Files with census block group-level population data from Census. Figures may not add to 100% due to rounding.

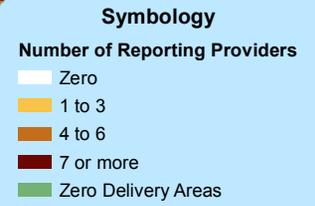
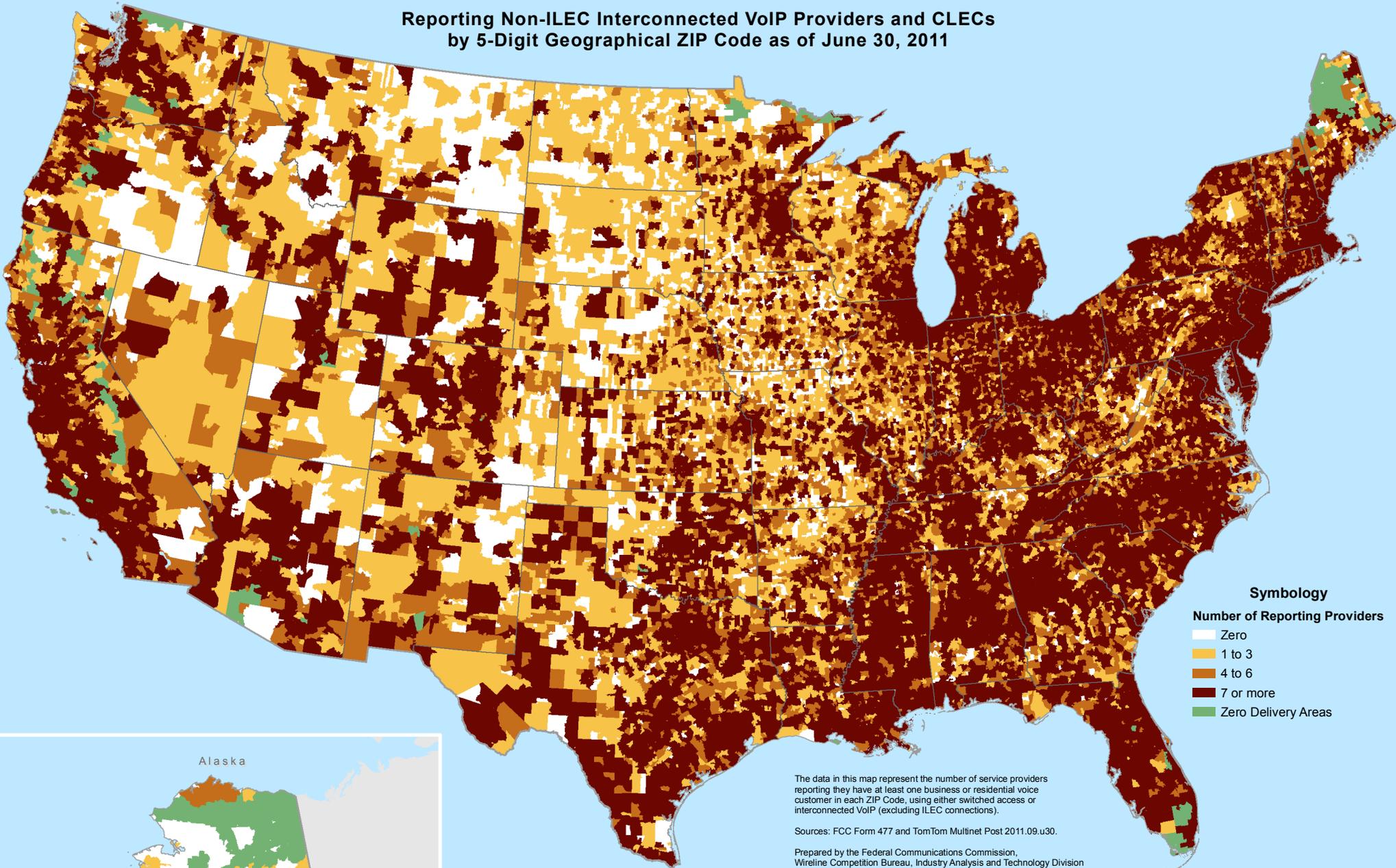
<sup>1</sup> See footnote 1, Table 1.

<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 21**  
**Percentage of ZIP Codes with CLECs or Non-ILEC VoIP Providers by State**  
**as of June 30, 2011**

State	Number of Providers								
	Zero	One - Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
Alabama	3 %	15 %	5 %	5 %	4 %	4 %	3 %	3 %	58 %
Alaska	65	24	5	1	3	1	0	0	0
Arizona	7	14	3	4	3	3	4	3	60
Arkansas	15	43	7	6	5	2	3	2	16
California	1	12	3	4	4	3	3	2	68
Colorado	10	24	4	3	3	3	2	2	49
Connecticut	0	6	5	6	9	7	5	6	57
Delaware	0	2	3	2	5	7	2	3	76
District of Columbia	0	11	11	0	0	0	0	0	79
Florida	0	3	2	2	2	3	2	2	85
Georgia	3	17	5	5	5	4	3	3	56
Hawaii	3	24	8	7	8	7	6	3	34
Idaho	10	40	7	5	8	2	2	2	23
Illinois	5	26	8	8	4	4	3	3	39
Indiana	3	20	9	8	5	8	4	2	41
Iowa	25	41	8	5	3	2	2	1	13
Kansas	15	40	6	5	5	3	3	2	21
Kentucky	9	30	7	8	6	6	4	4	26
Louisiana	4	17	4	5	5	3	5	3	52
Maine	6	26	8	8	6	8	9	5	23
Maryland	0	4	4	4	6	4	5	3	71
Massachusetts	0	4	2	2	2	2	3	4	81
Michigan	1	12	5	5	6	6	5	5	56
Minnesota	12	39	5	5	3	3	3	1	29
Mississippi	1	11	4	4	7	4	4	5	61
Missouri	17	36	6	4	4	3	3	1	26
Montana	39	37	3	1	3	2	2	1	11
Nebraska	18	51	7	3	3	2	1	1	13
Nevada	8	18	4	5	5	3	1	3	52
New Hampshire	0	4	5	10	7	10	8	7	48
New Jersey	0	0	1	1	1	3	2	2	91
New Mexico	16	36	10	4	6	2	2	1	23
New York	1	12	5	5	4	4	5	5	58
North Carolina	1	12	5	6	4	5	5	4	58
North Dakota	29	60	2	1	1	1	0	1	5
Ohio	1	8	5	7	7	7	6	6	54
Oklahoma	12	31	4	3	4	3	3	3	38
Oregon	10	25	8	5	5	5	3	2	38
Pennsylvania	2	19	7	5	5	5	4	4	49
Puerto Rico	0	24	12	14	13	21	9	5	3
Rhode Island	0	8	9	8	1	8	3	7	57
South Carolina	1	12	5	5	3	4	4	3	62
South Dakota	29	53	4	2	1	2	2	1	6
Tennessee	4	18	4	5	4	5	4	4	51
Texas	5	20	4	5	3	2	3	2	56
Utah	11	28	5	4	2	2	2	3	43
Vermont	1	30	15	11	8	7	8	4	16
Virginia	2	28	8	6	5	4	4	3	39
Washington	5	24	4	5	4	2	3	3	49
West Virginia	7	29	10	11	10	5	5	4	20
Wisconsin	8	38	7	6	4	3	3	2	27
Wyoming	15	55	3	6	1	3	0	1	17
Nationwide	7 %	23 %	6 %	5 %	4 %	4 %	3 %	3 %	45 %

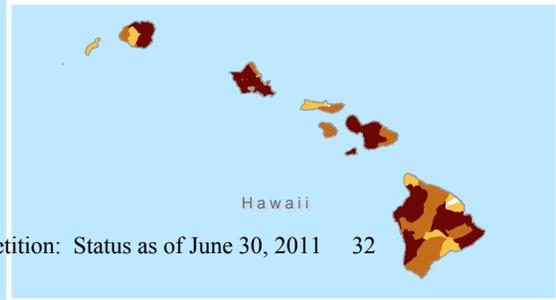
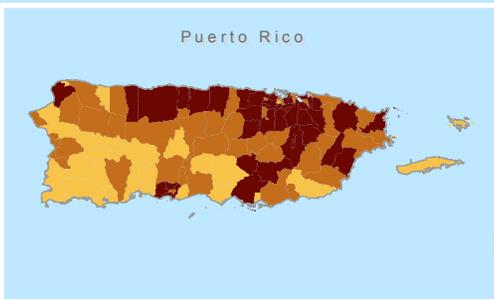
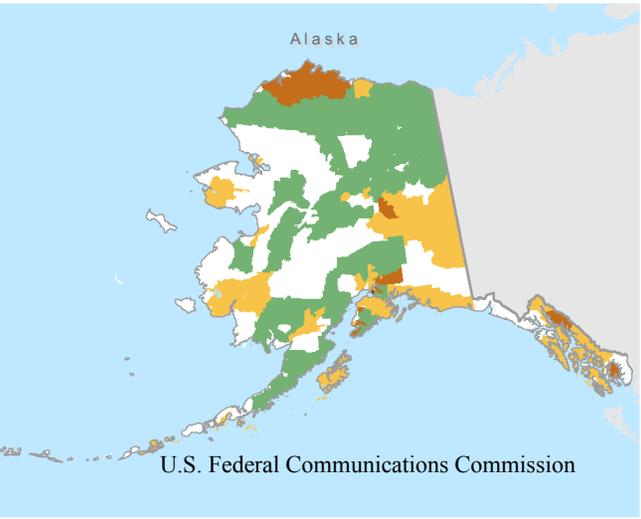
Reporting Non-ILEC Interconnected VoIP Providers and CLECs  
by 5-Digit Geographical ZIP Code as of June 30, 2011



The data in this map represent the number of service providers reporting they have at least one business or residential voice customer in each ZIP Code, using either switched access or interconnected VoIP (excluding ILEC connections).

Sources: FCC Form 477 and TomTom Multinet Post 2011.09.u30.

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



## Technical Notes

### **General**

Detailed information about FCC Form 477 reporting requirements is available at [www.fcc.gov/form477](http://www.fcc.gov/form477).

See Glossary for definitions of terms used in this report.

### **Counting lines and subscribers**

- 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. All VoIP subscriptions discussed in this report are interconnected VoIP subscriptions.
- Form 477 data may not count all VoIP phone connections to Internet Protocol Private Branch Exchange (IP PBX) equipment that is owned by business end users because of the variety of ways the IP PBX may connect to the public switched telephone network.

### **Holding company-subsidiary relationships**

- 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.

### **ILEC-CLEC affiliations**

- Lines from CLECs who have ILEC affiliates are handled at the state level in one of several ways. We place the lines into the non-ILEC category if the affiliate is an ILEC other than AT&T or Verizon. Lines from CLEC affiliates of AT&T and Verizon are allocated between the ILEC and non-ILEC categories based on staff estimates if the CLEC operates in the AT&T or Verizon ILEC service area in the state, respectively.

### **ZIP Code-based information**

- 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. This contrasts with the census tract-based broadband reporting requirements the Commission adopted in 2008.

- The report includes summary statistics of the presence of competitors to the ILEC, or ILECs, in individual ZIP Codes. These entities are CLECs or interconnected VoIP providers who are not affiliated with the ILEC, or ILECs, who serve end users in that ZIP Code. However, 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.

## Glossary

<b>Term</b>	<b>Definition</b>
Broadband bundle	The purchase, from the same or affiliated retailers, of interconnected VoIP service and broadband Internet access service, either for a single price or for separate prices.
Cable modem service	A service which offers customers access to the Internet over a cable system at broadband speeds.
Circuit switching	A method of completing electronic communications in which a transmission path is established for dedicated use by a communication; the basis of the public switched telephone network (PSTN).
CLEC	Competitive Local Exchange Carrier: A new LEC that operates within the service area of an ILEC.
DSL	Digital Subscriber Line: A digital local loop, typically using copper facilities, that frequently is used to offer customers access to the Internet at broadband speeds.
End users	Residential, business, institutional, or government entities that use services for their own purposes and who do not resell such services to other entities.
Fixed wireless service	A radio communication service between specified fixed points.
FTTP or FTTH	Fiber to the Premises (Home): A network access architecture in which optical fiber is deployed all the way to the customer's premises (home).
Internet access service	Service that provides end users access to the Internet.
ILEC	Incumbent Local Exchange Carrier: A company or cooperative that was providing telephone service in a localized area, typically on a monopoly basis, prior to enactment of the Telecommunications Act of 1996.
Internet protocol or IP	A language and set of formal rules that govern how packets transit the Internet.
Interconnected VoIP or iVoIP	A service that enables real-time, two-way voice communications; requires a broadband connection from the user's location; requires Internet-protocol compatible customer premises equipment; and permits users generally to receive calls that originate on the public switched telephone network and to terminate calls to the public switched telephone network.
LEC	Local Exchange Carrier: A company that provides telephone service within a localized area and access services that connect its customers to long-distance (Interexchange Carrier) networks.
Local loop	The physical connection between the customer's premises and the telephone company's local switching office, typically provided using copper, fiber, or a combination of copper and fiber facilities.
Mobile wireless service	A radio communication service between mobile and fixed stations, or between mobile stations.
Nomadic interconnected VoIP	A service whose terms allow use over any broadband connection available to the subscriber (such as at a hotel or vacation residence); by contrast, a non-nomadic service subscription must be used over a single predetermined broadband connection.

Non-ILEC	Any provider of communications services who does not have ILEC regulatory status.
Other ILEC	An ILEC who is not an RBOC.
Other wireline	All copper-wire based transmission technologies other than DSL technologies; Ethernet over copper and T-1 are examples.
OTT	Over-the-top: Interconnected VoIP service provided by entities that neither own nor operate telecommunications facilities.
Packet switching	A method of completing electronic communications in which the information is disassembled into discrete packets that are transmitted independently and later reassembled; IP is an example.
PBX	Private Branch Exchange: A telephone switch that is owned or leased by the telephone company's customer and generally located on the customer's premises.
Retail local telephone service	Retail switched access lines and interconnected VoIP subscriptions.
Retail switched access lines	Switched access lines for which an end user is the customer.
Standalone interconnected VoIP	The purchase of interconnected VoIP service without the purchase of broadband Internet access service from the same retailer, or from an affiliated retailer.
Special access circuit	A dedicated, non-switched circuit (connection or line) provided by an ILEC, commonly used to connect an end user to another communications service provider; also frequently used by wireless service providers to connect cell towers to mobile switching centers (MSCs).
Switched access line	A service connection between an end user and the local telephone company's switch; the basis of plain old telephone service (POTS).
Total ILEC lines	The sum of ILEC-reported retail switched access lines, interconnected VoIP subscriptions, wholesale switched access lines, and UNEs provided to CLECs.
UNE	Unbundled Network Element: A physical or functional element of an ILEC network that must be provided to a CLEC at a cost-based price, as provide for in the Telecommunications Act of 1996.
UNE-L	UNE-Loop: An ILEC unbundled local loop provided to a CLEC at a cost-base price.
UNE-P	UNE-Platform: The combination of ILEC unbundled local loop, switching, and transport, provided to a CLEC at cost-based prices.
Wholesale switched access lines	Local telephone service provided to an unaffiliated telephone company, which resells the service to end users; typically provided by an ILEC to a CLEC.
ZIP Code	A five-digit geographical ZIP Code.

# Customer Response

Publication: *Local Telephone Competition: Status as of June 30, 2011*

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	( )	( )	( )	( )	( )
Data presentation	( )	( )	( )	( )	( )
Timeliness of data	( )	( )	( )	( )	( )
Completeness of data	( )	( )	( )	( )	( )
Text clarity	( )	( )	( )	( )	( )
Completeness of text	( )	( )	( )	( )	( )

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

( )                      ( )                      ( )                      ( )                      ( )

4. How can this report be improved?

5. May we contact you to discuss possible improvements?

Name:

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To discuss the information in this report, contact: 202-418-0940 or for users of TTY equipment, call 202-418-0484		
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