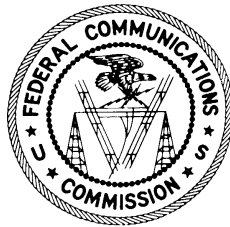


# **Local Telephone Competition: Status as of December 31, 2011**

Industry Analysis and Technology Division  
Wireline Competition Bureau  
January 2013



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## Local Telephone Competition: Status as of December 31, 2011

**Introduction.** The Commission has used FCC Form 477 to collect subscribership information from providers of local telephone service – the incumbent local exchange carriers (ILECs), competitive local exchange carriers (CLECs), and mobile telephony providers – for more than a decade.<sup>1</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>2</sup>

This report summarizes the information collected about telephone services as of December 31, 2011. It demonstrates continued growth in subscribership to interconnected VoIP and mobile telephony services and continued decline in subscribership to traditional wired telephone services.<sup>3</sup>

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

- In December 2011, there were 107 million end-user switched access lines in service, 37 million interconnected VoIP subscriptions, and 298 million mobile subscriptions in the United States, or 442 million 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. 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>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:

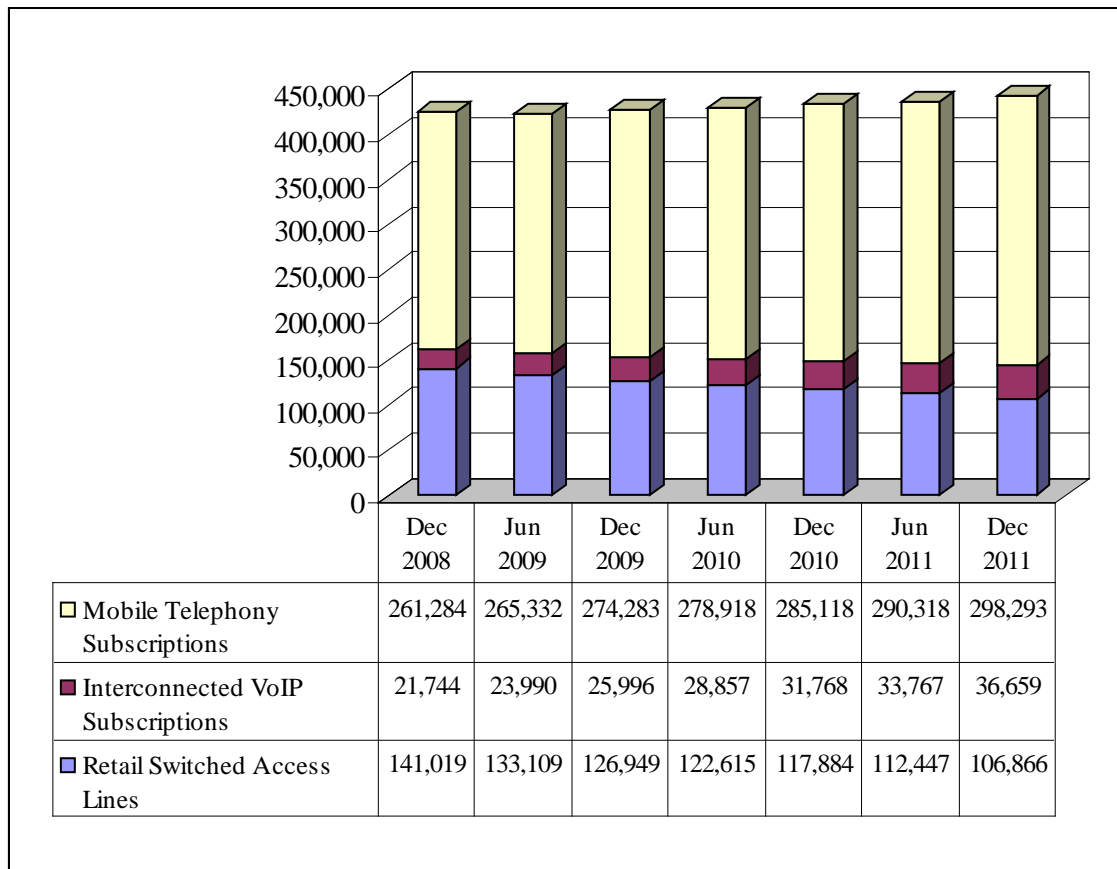
- (1) Enables real-time, two-way voice communications;
- (2) Requires a broadband connection from the user’s location;
- (3) Requires Internet protocol-compatible customer premises equipment (CPE); and
- (4) Permits users generally to receive calls that originate on the public switched telephone network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

- Over the three-year period presented in Figure 1, interconnected VoIP subscriptions increased at a compound annual growth rate of 19.0%, mobile telephony subscriptions increased at a compound annual growth rate of 4.5%, and retail switched access lines declined at about 8.8% a year.<sup>4</sup>

**Figure 1**  
**Retail Local Telephone Service Connections, 2008 - 2011**  
**(In Thousands)**



- Of the 144 million wireline retail local telephone service connections (including both switched access lines and interconnected VoIP subscriptions) in December 2011, 83 million (or 58%) were residential connections and 61 million (or 42%) were business connections.<sup>5</sup> See Figure 2.

<sup>4</sup> The compound annual growth rate (CAGR) is a smoothed rate of growth calculated in three steps. First, divide the ending (Dec 2011) value by the beginning (Dec 2008) value. Second, raise the result of that division to a power equal to one divided by the number of years in the period (in this case, 3 years, so the power is 1/3). Third, subtract the number one from the result of the second step.

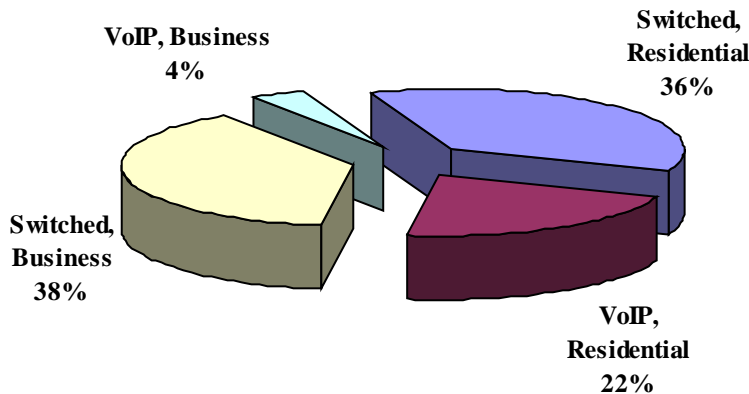
<sup>5</sup> FCC Form 477 does not distinguish between residential and business subscribers to mobile *telephony* service. The information that Form 477 collects about mobile *broadband* service is summarized elsewhere; see *Internet Access Services: Status as of December 31, 2011*, available at [www.fcc.gov/wcb/iatd/comp.html](http://www.fcc.gov/wcb/iatd/comp.html).

- Cross-classified by technology and customer type, the 144 million wireline retail local telephone service connections in December 2011 were: 36% residential switched access lines, 38% business switched access lines, 22% residential interconnected VoIP subscriptions, and 4% business interconnected VoIP subscriptions. See Figure 2.

**Figure 2**  
**Wireline Retail Local Telephone Service Connections by Technology and Customer Type as of December 31, 2011 (In Thousands)**

	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
<b>Residential</b>	52,095	30,906	83,000
<b>Business</b>	54,772	5,753	60,525
<b>Total</b>	106,866	36,659	143,525

Figures may not add to totals due to rounding.



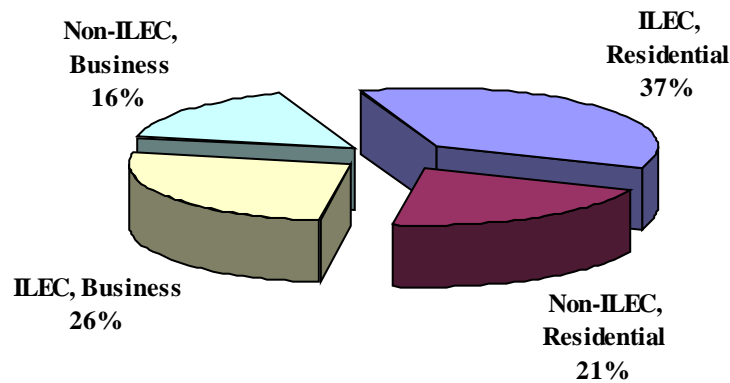
**Service providers.** The Form 477 program – and this report – distinguishes ILEC operations from all other operations.

- Cross-classified by customer type (residential or business) and the service retailer’s regulatory status (ILEC or non-ILEC), the 144 million wireline retail local telephone service connections in December 2011 were: 37% ILEC residential service, 26% ILEC business service, 21% 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 December 31, 2011 (In Thousands)**

	<b>Residential</b>	<b>Business</b>	<b>Total</b>
<b>ILEC</b>	52,538	36,909	89,446
<b>Non-ILEC</b>	30,462	23,616	54,078
<b>Total</b>	83,000	60,525	143,525

Figures may not add to totals due to rounding.

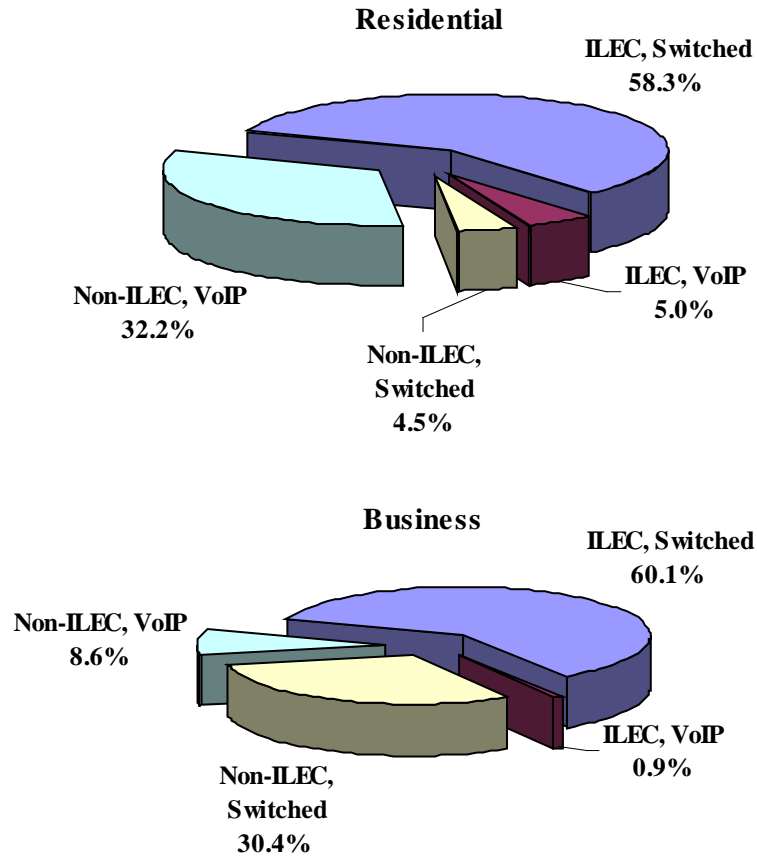


- Additionally cross-classified by technology, the 83 million wireline residential connections in December 2011 were: 58.3% ILEC switched access lines, 32.2% non-ILEC interconnected VoIP subscriptions, 4.5% non-ILEC switched access lines, and 5.0% ILEC interconnected VoIP subscriptions. Similarly, the 61 million wireline business connections were: 60.1% ILEC switched access lines, 30.4% non-ILEC switched access lines, 8.6% non-ILEC interconnected VoIP subscriptions, and 0.9% ILEC interconnected VoIP subscriptions. See Figure 4.

**Figure 4**  
**Wireline Retail Local Telephone Service Connections by Technology, Regulatory Status,**  
**and Customer Type as of December 31, 2011 (In Thousands)**

<b>Total</b>	<b>Switched Access Lines</b>	<b>Interconnected VoIP</b>	<b>Total</b>
ILEC	84,745	4,701	89,446
Non-ILEC	22,121	31,958	54,078
<b>Total</b>	<b>106,866</b>	<b>36,659</b>	<b>143,525</b>
<b>Residential</b>			
ILEC	48,364	4,174	52,538
Non-ILEC	3,731	26,732	30,462
<b>Residential Total</b>	<b>52,095</b>	<b>30,906</b>	<b>83,000</b>
<b>Business</b>			
ILEC	36,382	527	36,909
Non-ILEC	18,390	5,226	23,616
<b>Business Total</b>	<b>54,772</b>	<b>5,753</b>	<b>60,525</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.

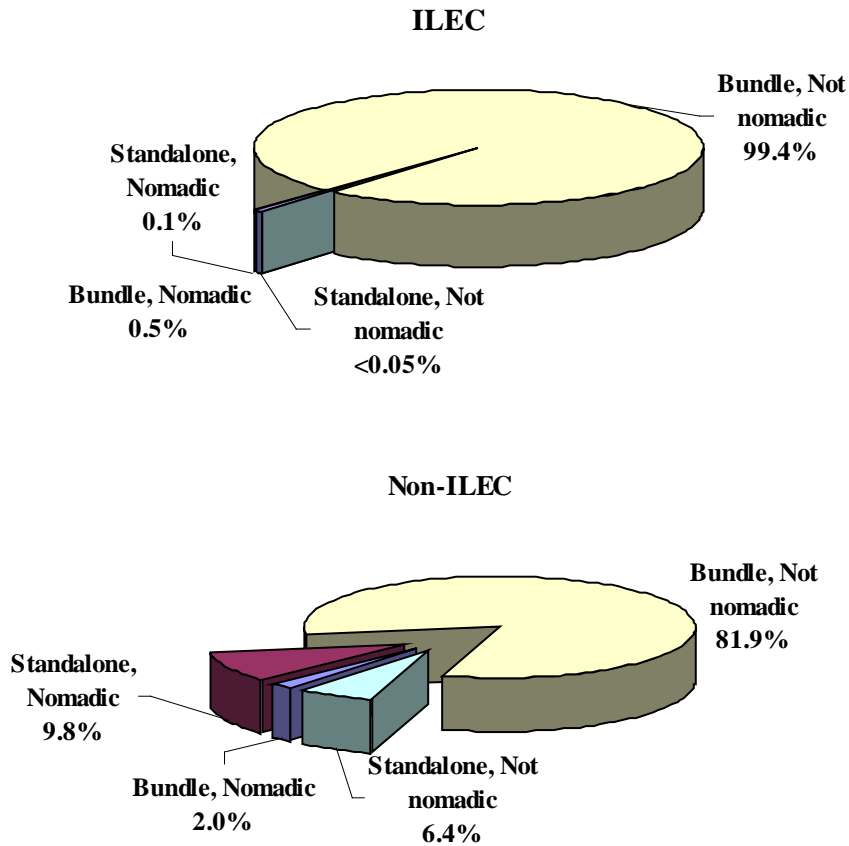
- First, interconnected VoIP service retailers distinguish between the interconnected VoIP subscriptions they sell to their broadband Internet access service customers (“broadband bundle” subscriptions, in this report) and all the other interconnected VoIP subscriptions that they sell (“standalone” subscriptions).
- 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 December 31, 2011 (In Thousands)**

<b>Total</b>	<b>Broadband Bundle</b>	<b>Standalone VoIP</b>	<b>Total</b>
Nomadic	659	3,134	3,793
Not nomadic	30,834	2,031	32,865
<b>Total</b>	<b>31,493</b>	<b>5,165</b>	<b>36,659</b>
<b>ILEC</b>			
Nomadic	23	5	28
Not nomadic	4,672	1	4,673
<b>ILEC Total</b>	<b>4,695</b>	<b>6</b>	<b>4,701</b>
<b>Non-ILEC</b>			
Nomadic	637	3,129	3,766
Not nomadic	26,162	2,030	28,192
<b>Non-ILEC Total</b>	<b>26,799</b>	<b>5,159</b>	<b>31,958</b>

Figures may not add to totals due to rounding.

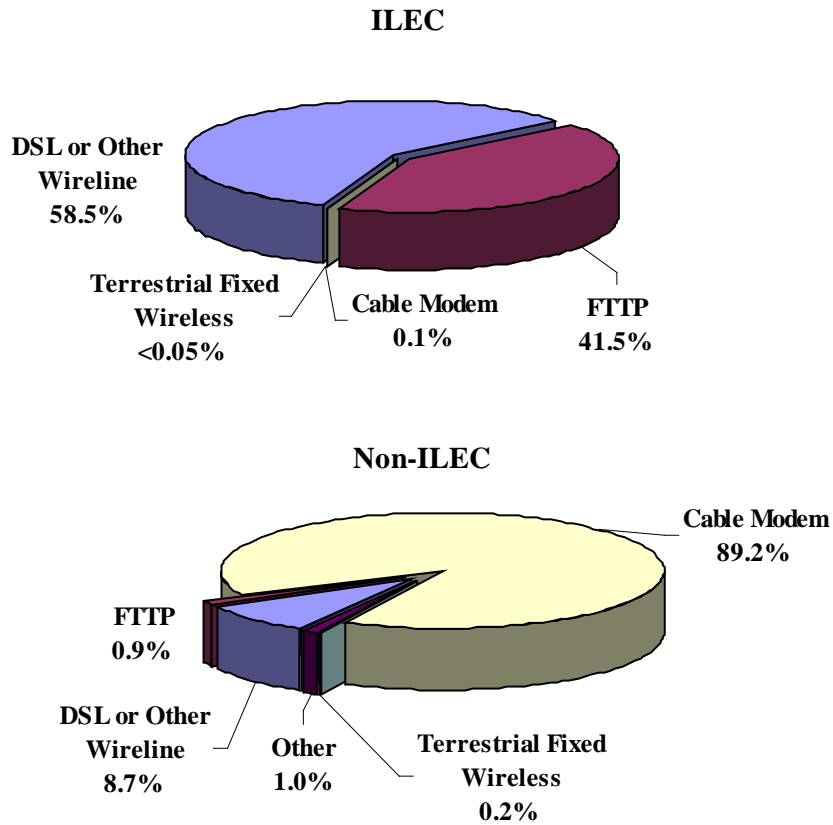


Form 477 collects the third type of information about retail interconnected VoIP service – the technology of the Internet access connection – for broadband bundles but not for standalone interconnected VoIP. See Figure 6.<sup>6</sup>

**Figure 6**  
**Technology of Internet Access Connections in Interconnected VoIP**  
**Broadband Bundles as of December 31, 2011 (In Thousands)**

<b>Technology</b>	<b>ILEC</b>	<b>Non-ILEC</b>	<b>Total</b>
DSL or Other Wireline	2,745	2,334	5,079
FTTP	1,947	243	2,190
Cable Modem	2	23,904	23,906
Terrestrial Fixed Wireless	#	47	47
Other	0	272	272
<b>Total</b>	<b>4,695</b>	<b>26,799</b>	<b>31,493</b>

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



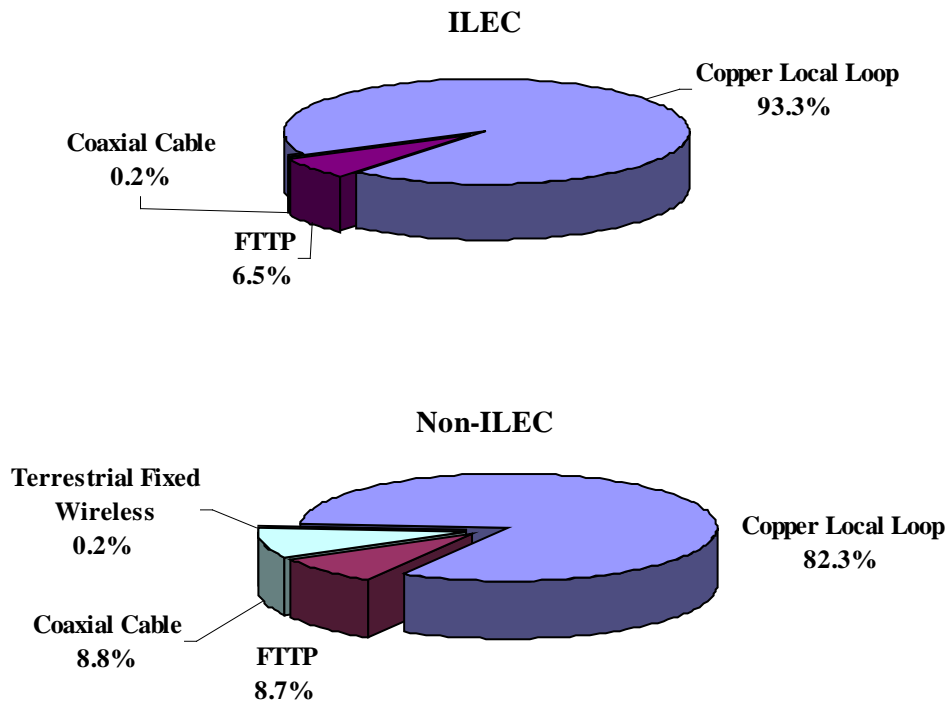
<sup>6</sup> *Internet Access Services: Status as of December 31, 2011* discusses types of Internet access connections in greater detail. The report is available at [www.fcc.gov/wcb/iatd/comp.html](http://www.fcc.gov/wcb/iatd/comp.html).

**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 December 31, 2011 (In Thousands)**

Technology	ILEC	Non-ILEC	Total
FTTP	5,500	1,928	7,428
Coaxial Cable	176	1,938	2,115
Terrestrial Fixed Wireless	2	53	55
Copper Local Loop	79,066	18,202	97,268
<b>Total</b>	<b>84,745</b>	<b>22,121</b>	<b>106,866</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>7</sup> reselling services (for example, reselling ILEC

<sup>7</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 22 million retail switched access lines in December 2011. They reported providing 38% of lines (or 8.4 million lines) by reselling ILEC wholesale or retail services. They reported providing 31% of lines (or 6.8 million lines) over ILEC facilities leased at regulated, cost-based rates (that is, as unbundled network elements, or UNEs). And they provided the remaining 31% of lines (or 6.9 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 December 31, 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>	8,370	4,366	4,004
<b>UNE-P<sup>2</sup></b>	948	68	880
<b>UNE-L<sup>3</sup></b>	5,864	3,028	2,835
Total ILEC UNEs	6,812	3,097	3,715
Total ILEC services	15,181	7,463	7,719

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>8</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: December 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>8</sup> The appropriate interpretation of the ZIP Code-based information is discussed in the Technical Notes at the end of the report.

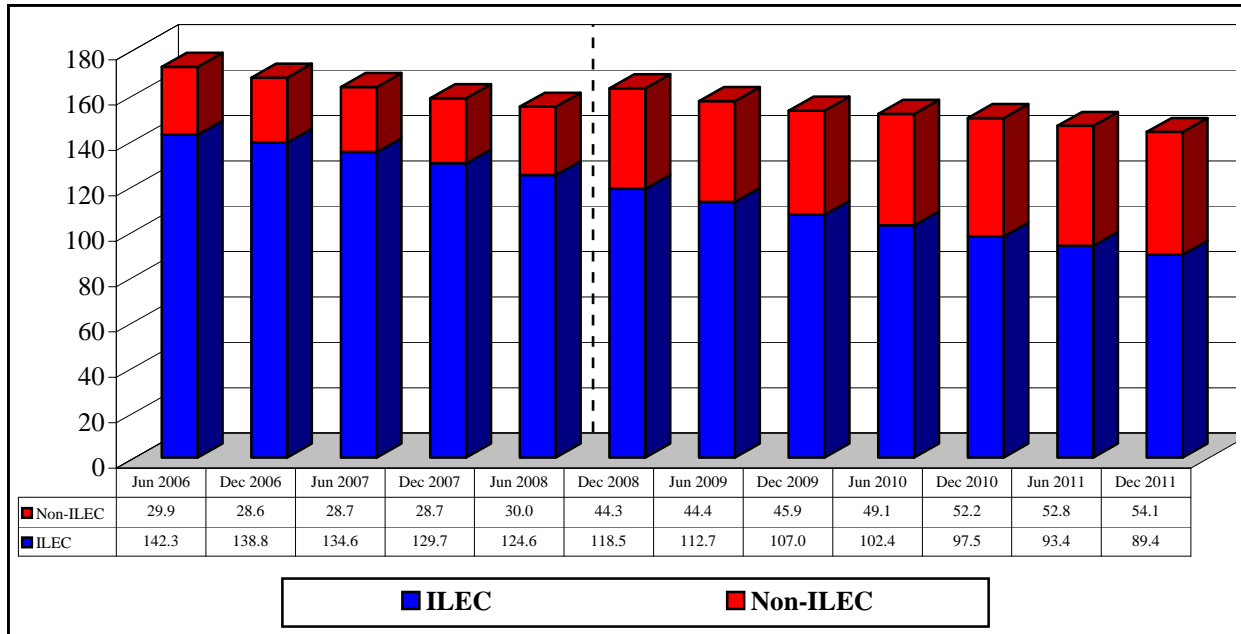
**Table 1**  
**Total End-User Switched Access Lines and VoIP Subscriptions<sup>1</sup>**  
**(In Thousands)**

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	44,351	157,098	28.2
Dec 2009	107,018	45,927	152,945	30.0
Jun 2010	102,395	49,077	151,472	32.4
Dec 2010	97,497	52,155	149,652	34.9
Jun 2011	93,394	52,820	146,214	36.1
Dec 2011	89,446	54,078	143,525	37.7

Some previously published data have been revised.

<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)**



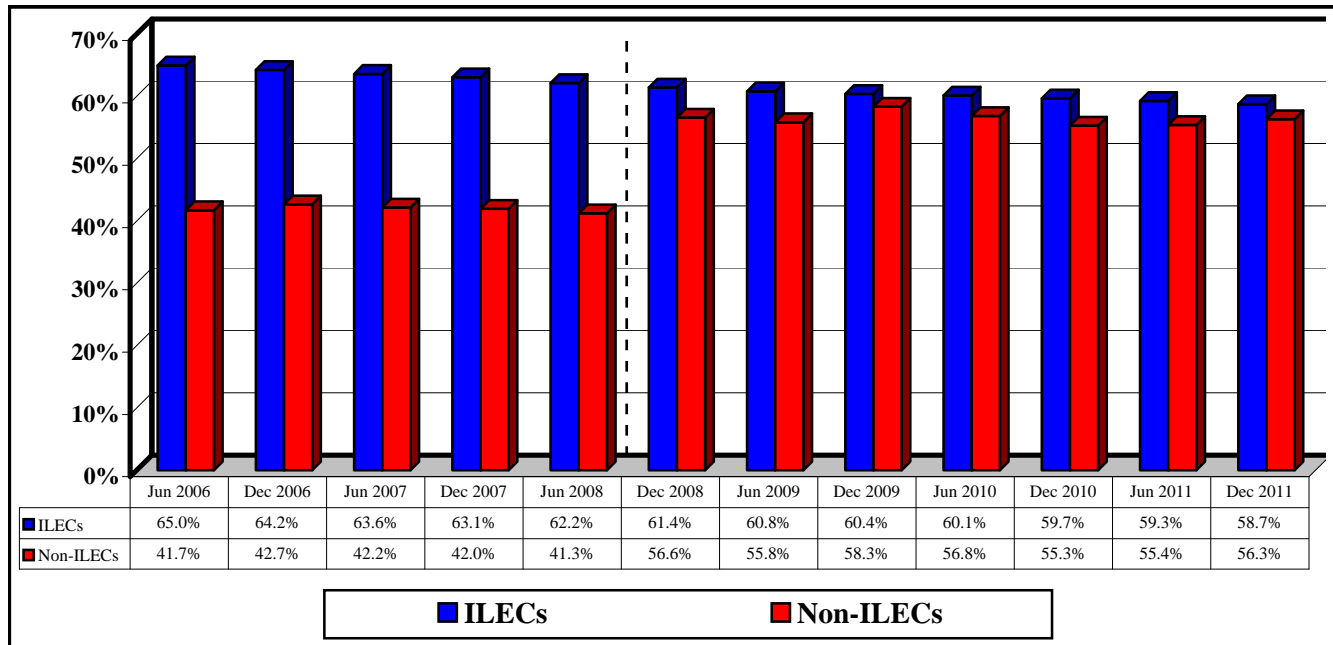
**Table 2**  
**Total End-User Switched Access Lines and VoIP Subscriptions by Customer Type<sup>1</sup>**  
**(In Thousands)**

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	68,581	44,166	60.8	24,769	19,582	55.8
Dec 2009	64,613	42,405	60.4	26,793	19,134	58.3
Jun 2010	61,579	40,816	60.1	27,899	21,178	56.8
Dec 2010	58,194	39,303	59.7	28,851	23,304	55.3
Jun 2011	55,365	38,029	59.3	29,272	23,548	55.4
Dec 2011	52,538	36,909	58.7	30,462	23,616	56.3

Some previously published data have been revised.

<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>**



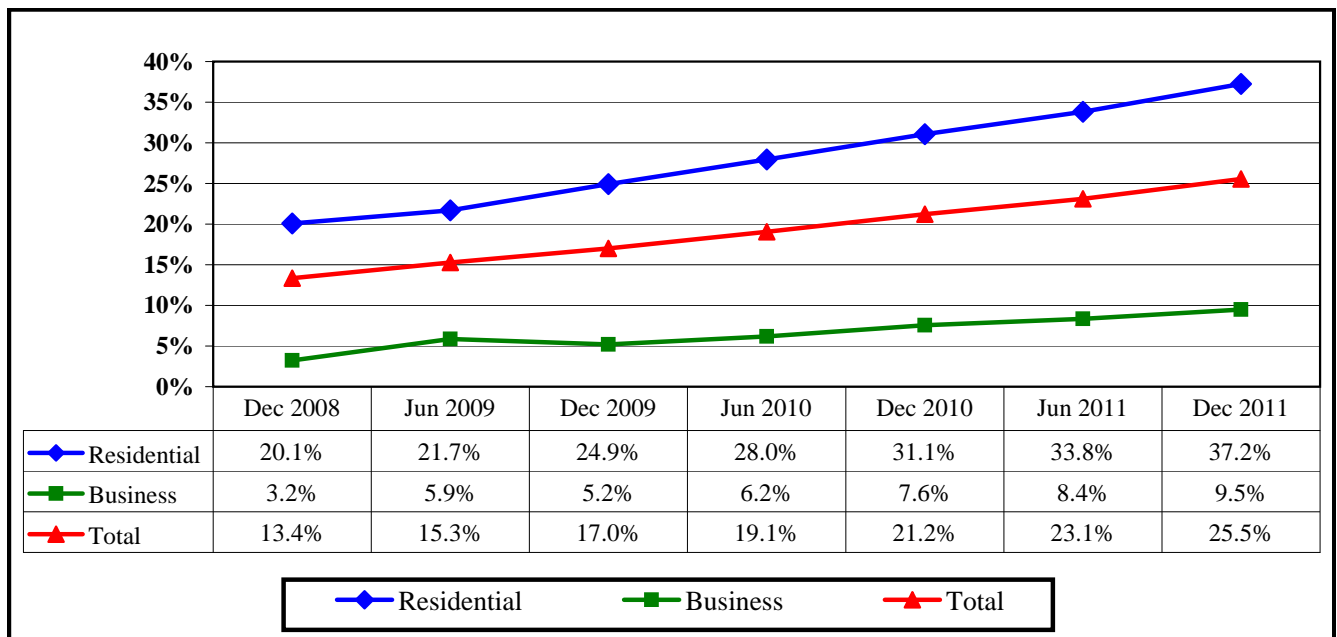


**Table 3**  
**End-User Switched Access Lines and VoIP Subscriptions by Customer Type**  
**(In Thousands)**

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	60,015	133,109	20,257	3,733	23,990	93,350	63,748	157,098
Dec 2009	68,614	58,335	126,949	22,793	3,204	25,996	91,406	61,539	152,945
Jun 2010	64,463	58,152	122,615	25,015	3,842	28,857	89,478	61,994	151,472
Dec 2010	60,010	57,874	117,884	27,036	4,733	31,768	87,045	62,607	149,652
Jun 2011	56,019	56,428	112,447	28,617	5,150	33,767	84,637	61,577	146,214
Dec 2011	52,095	54,772	106,866	30,906	5,753	36,659	83,000	60,525	143,525

Some previously published data have been revised. 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	720	44,351	6,799	8,516	6,005	23,032	15.3	19.2	13.5	51.9
Dec 2009	758	45,927	7,100	8,029	5,993	24,802	15.5	17.5	13.0	54.0
Jun 2010	787	49,077	8,249	7,701	6,231	26,895	16.8	15.7	12.7	54.8
Dec 2010	809	52,155	8,634	7,313	7,294	28,912	16.6	14.0	14.0	55.4
Jun 2011	834	52,820	8,492	6,950	7,242	30,136	16.1	13.2	13.7	57.1
Dec 2011	869	54,078	8,370	6,812	6,933	31,958	15.5	12.6	12.8	59.1

Some previously published data have been revised. Figures may not sum to totals due to rounding.

<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 December 31, 2011**

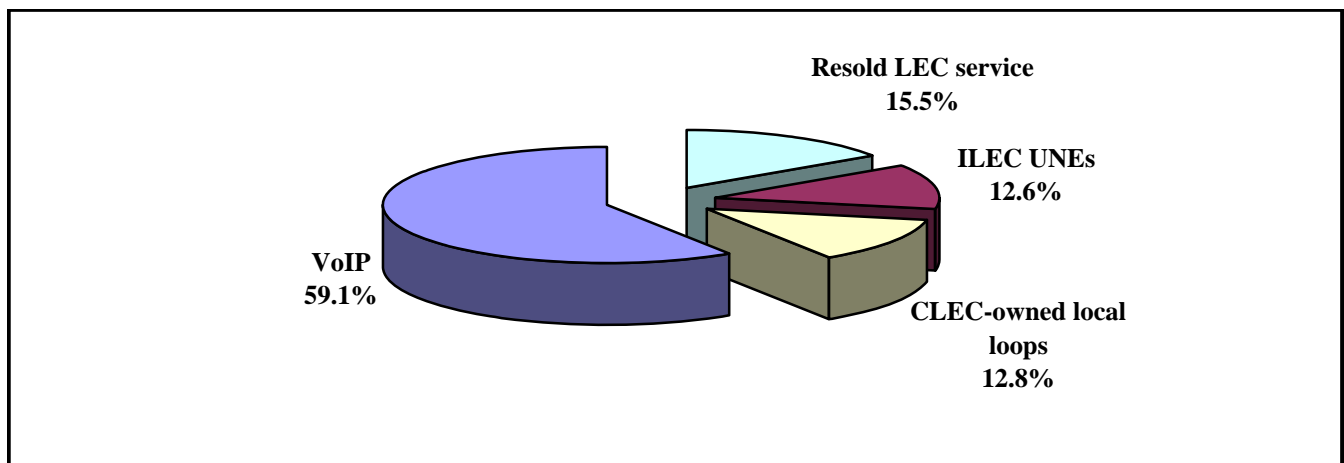


Table 5

**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	777	121,879	111,790	958	3,008	3,580	2,543	6,123	9,131	7.5
Dec 2009	766	116,070	105,824	1,194	2,988	3,668	2,396	6,063	9,051	7.8
Jun 2010	763	110,798	100,433	1,962	5,023	3,254	127	3,381	8,403	7.6
Dec 2010	754	105,386	94,641	2,856	4,712	3,124	53	3,177	7,889	7.5
Jun 2011	756	101,056	89,763	3,631	4,578	3,081	4	3,085	7,662	7.6
Dec 2011	759	96,909	84,745	4,701	4,366	3,028	68	3,097	7,463	7.7

Some previously published data have been revised.

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

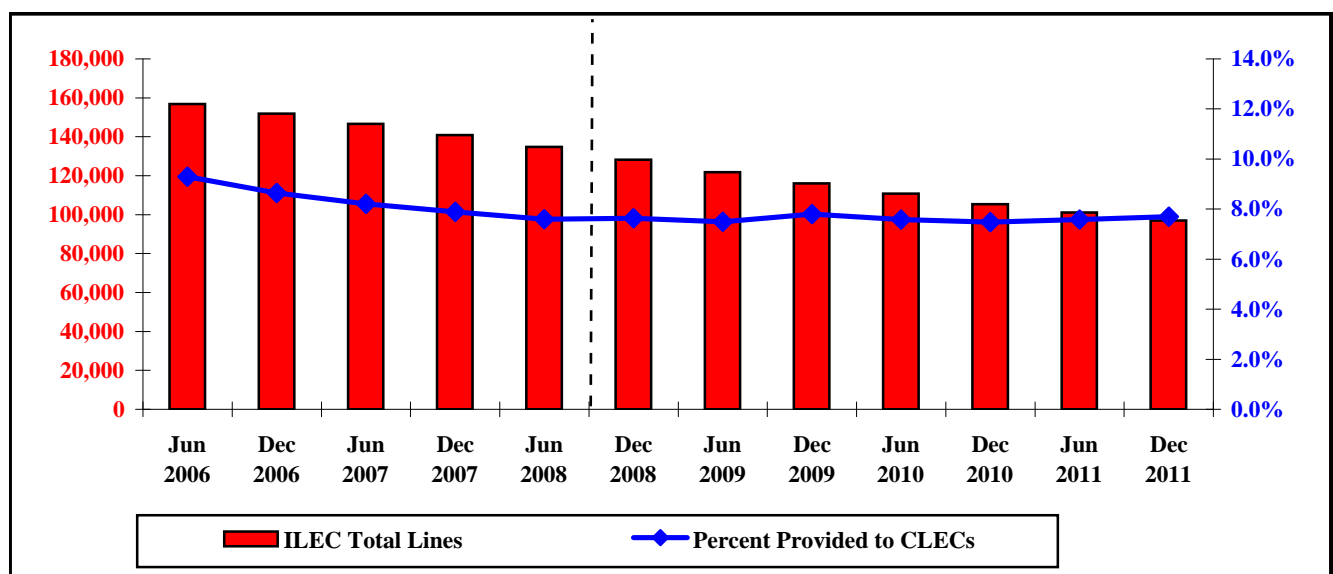
<sup>2</sup> Fewer ILECs were counted after mid-year 2007 primarily because FCC staff identified additional common-control relationships.

<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)**

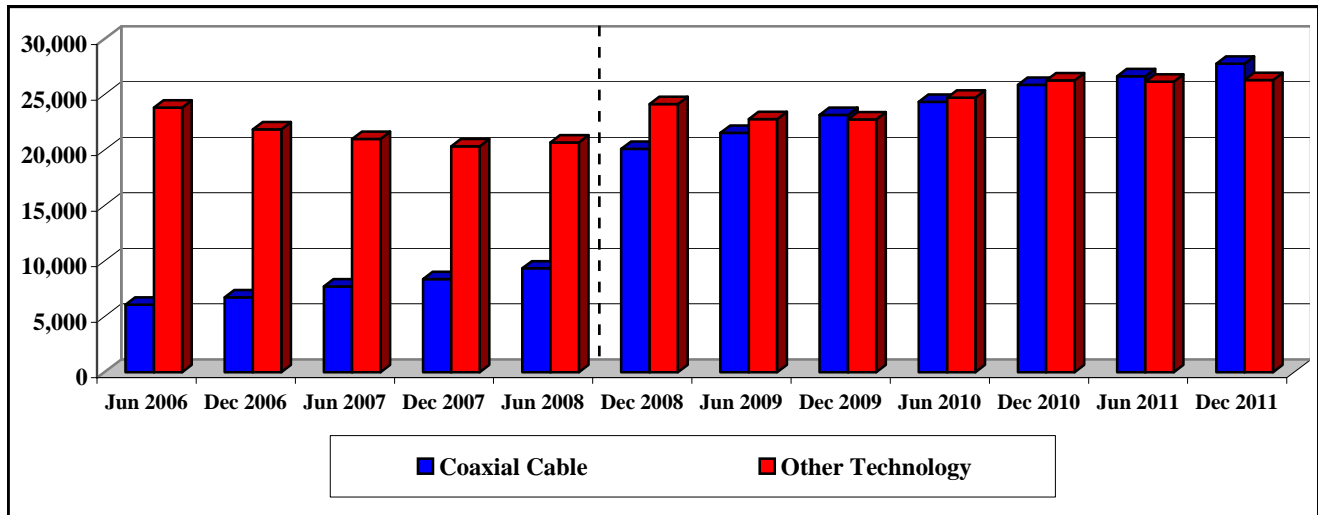
Date	Coaxial Cable <sup>2</sup>	Other Technology	Total	Percent Coaxial Cable
Jun 2006	6,070	23,826	29,896	20.3
Dec 2006	6,751	21,875	28,626	23.6
Jun 2007	7,730	21,000	28,729	26.9
Dec 2007	8,385	20,340	28,725	29.2
Jun 2008	9,352	20,697	30,049	31.1
Dec 2008	20,108	24,158	44,267	45.4
Jun 2009	21,547	22,804	44,351	48.6
Dec 2009	23,171	22,756	45,927	50.5
Jun 2010	24,339	24,738	49,077	49.6
Dec 2010	25,877	26,278	52,155	49.6
Jun 2011	26,645	26,175	52,820	50.4
Dec 2011	27,770	26,309	54,078	51.4

Some previously published data have been revised.

<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)**

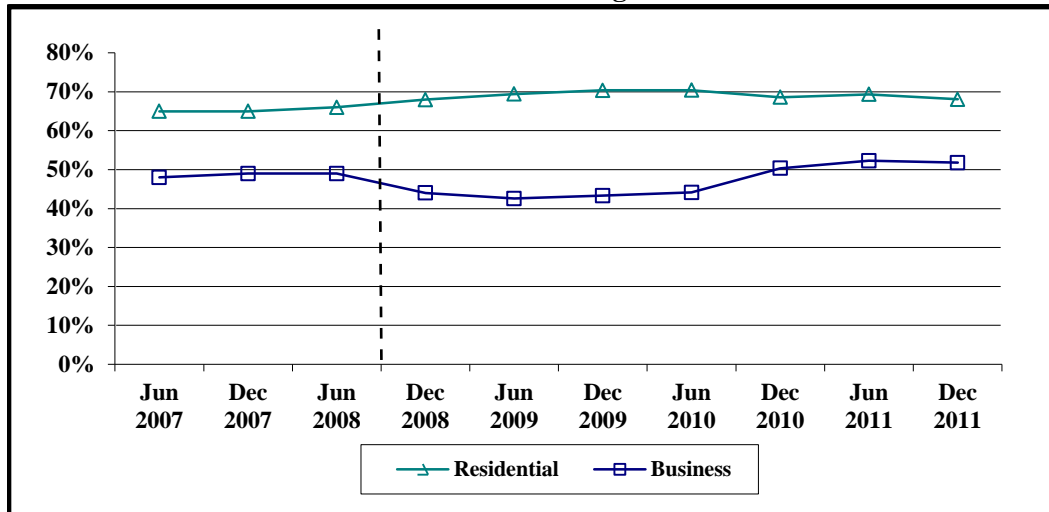


**Table 7**  
**Percentage of Switched Access Lines Presubscribed for Long Distance Service**

	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
Dec 2011	68	74	69
<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	59
Jun 2011	52	80	62
Dec 2011	52	75	59
<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
Dec 2011	61	75	64

Some previously published data for December 2010 have been revised.

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



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

	December 31, 2011		
	ILEC	CLEC	Total
<b>Residential</b>			
Presubscribed	32,928	2,775	35,702
Not Presubscribed	15,436	956	16,392
All Lines	48,364	3,731	52,094
Percent Presubscribed	68%	74%	69%
<b>Business</b>			
Presubscribed	18,840	13,726	32,566
Not Presubscribed	17,541	4,664	22,205
All Lines	36,382	18,390	54,772
Percent Presubscribed	52%	75%	59%
<b>Total</b>			
Presubscribed	51,768	16,501	68,269
Not Presubscribed	32,977	5,620	38,597
All Lines	84,745	22,121	106,866
Percent Presubscribed	61%	75%	64%
	June 30, 2011		
	ILEC Total	CLEC	Total
<b>Residential</b>			
Presubscribed	36,167	3,005	39,173
Not Presubscribed	15,980	866	16,846
All Lines	52,148	3,871	56,019
Percent Presubscribed	69%	78%	70%
<b>Business</b>			
Presubscribed	19,668	15,074	34,741
Not Presubscribed	17,948	3,739	21,687
All Lines	37,615	18,813	56,428
Percent Presubscribed	52%	80%	62%
<b>Total</b>			
Presubscribed	55,835	18,079	73,914
Not Presubscribed	33,928	4,605	38,533
All Lines	89,763	22,684	112,447
Percent Presubscribed	62%	80%	66%

Some previously published data have been revised. Figures may not sum to totals due to rounding.

**Table 9**  
**Total End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 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	1,278	0	44	1,322	327	75	232	634	1,957	32
Alaska	247	0	0	247	*	1	*	*	*	*
American Samoa	9	0	0	9	0	0	0	0	9	0
Arizona	1,342	2	1	1,345	630	111	488	1,228	2,573	48
Arkansas	763	0	26	789	185	23	123	331	1,120	30
California	11,522	#	675	12,197	2,195	640	2,847	5,683	17,879	32
Colorado	1,329	0	#	1,329	363	95	510	967	2,296	42
Connecticut	1,063	#	101	1,165	201	66	532	799	1,964	41
Delaware	266	0	31	297	61	*	*	179	476	38
District of Columbia	616	0	11	627	242	22	79	343	969	35
Florida	4,858	#	401	5,259	1,434	487	1,924	3,846	9,105	42
Georgia	2,528	#	131	2,659	718	185	603	1,506	4,166	36
Guam	42	0	0	42	*	*	*	*	*	*
Hawaii	417	#	2	419	43	8	96	147	567	26
Idaho	404	0	0	404	73	12	64	150	554	27
Illinois	3,615	0	237	3,852	631	276	1,015	1,923	5,775	33
Indiana	1,801	#	93	1,894	244	96	410	750	2,644	28
Iowa	881	#	#	882	177	138	48	363	1,244	29
Kansas	670	#	31	700	208	34	198	441	1,141	39
Kentucky	1,182	#	14	1,196	232	34	370	636	1,832	35
Louisiana	1,213	0	42	1,255	280	57	302	639	1,894	34
Maine	407	0	#	407	141	13	140	293	700	42
Maryland	1,879	#	249	2,128	449	122	453	1,024	3,152	32
Massachusetts	1,741	#	184	1,926	1,088	155	925	2,168	4,093	53
Michigan	2,334	0	179	2,513	432	194	974	1,601	4,114	39
Minnesota	1,467	0	1	1,468	482	103	534	1,119	2,587	43
Mississippi	735	0	17	752	100	27	105	233	985	24
Missouri	1,752	0	113	1,866	250	79	283	612	2,478	25
Montana	302	0	#	302	42	9	86	137	439	31
Nebraska	474	0	#	474	212	20	110	342	816	42
Nevada	679	0	13	691	131	61	301	493	1,184	42
New Hampshire	312	0	#	312	128	40	227	396	708	56
New Jersey	2,399	#	301	2,700	929	186	1,461	2,576	5,276	49
New Mexico	569	0	0	569	65	19	93	176	745	24
New York	4,717	#	382	5,099	1,867	241	3,106	5,213	10,311	51
North Carolina	2,634	2	57	2,693	661	120	807	1,589	4,281	37
North Dakota	206	0	0	206	81	3	40	124	329	38
Northern Mariana Isl.	15	0	0	15	0	0	0	0	15	0
Ohio	3,047	#	127	3,174	530	98	965	1,593	4,767	33
Oklahoma	911	0	28	939	289	48	280	617	1,556	40
Oregon	895	#	#	895	239	61	358	659	1,554	42
Pennsylvania	3,818	#	236	4,055	1,427	249	1,110	2,786	6,841	41
Puerto Rico	655	0	0	655	*	*	103	224	879	25
Rhode Island	215	0	36	252	254	*	*	360	611	59
South Carolina	1,239	0	46	1,284	301	61	278	640	1,925	33
South Dakota	205	0	#	205	136	5	67	209	413	50
Tennessee	1,612	0	70	1,681	529	86	469	1,085	2,766	39
Texas	6,214	#	511	6,725	1,055	300	1,230	2,584	9,309	28
Utah	554	1	#	555	168	38	221	426	981	43
Vermont	246	0	#	246	41	13	67	121	367	33
Virgin Islands	53	#	#	53	0	*	0	*	*	*
Virginia	2,406	#	227	2,633	796	164	567	1,527	4,160	37
Washington	1,621	#	1	1,621	373	128	756	1,257	2,878	44
West Virginia	589	#	1	589	113	16	151	280	869	32
Wisconsin	1,640	0	75	1,715	307	67	450	824	2,539	32
Wyoming	159	0	#	160	17	6	56	78	238	33
Nationwide	84,745	6	4,695	89,446	22,121	5,159	26,799	54,078	143,525	38

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

**Table 10**  
**Residential End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 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	813	0	41	855	88	68	197	353	1,208	29
Alaska	121	0	0	121	*	1	*	*	*	*
American Samoa	5	0	0	5	0	0	0	0	5	0
Arizona	784	0	0	784	311	82	334	727	1,511	48
Arkansas	467	0	24	491	85	18	97	199	691	29
California	6,111	#	573	6,685	505	467	2,147	3,119	9,803	32
Colorado	806	0	0	806	13	79	423	515	1,321	39
Connecticut	574	#	93	666	43	54	478	575	1,241	46
Delaware	142	0	29	171	5	*	*	117	288	41
District of Columbia	109	0	6	115	12	12	38	62	177	35
Florida	2,812	#	365	3,177	61	398	1,664	2,123	5,300	40
Georgia	1,430	#	115	1,544	103	157	502	762	2,307	33
Guam	24	0	0	24	*	*	*	*	*	*
Hawaii	225	0	0	225	#	6	80	86	311	28
Idaho	250	0	0	250	19	9	49	78	328	24
Illinois	1,856	0	207	2,063	71	238	876	1,186	3,249	37
Indiana	1,038	0	86	1,124	67	76	370	513	1,637	31
Iowa	568	0	#	568	70	126	11	207	775	27
Kansas	376	#	27	403	87	24	143	254	657	39
Kentucky	732	#	12	744	72	23	260	355	1,099	32
Louisiana	704	0	37	741	90	47	238	376	1,117	34
Maine	295	0	0	295	10	11	128	148	444	33
Maryland	947	#	237	1,184	64	98	379	541	1,726	31
Massachusetts	904	#	172	1,076	53	132	894	1,078	2,154	50
Michigan	1,210	0	157	1,367	99	174	915	1,188	2,555	46
Minnesota	996	0	#	996	94	93	405	592	1,588	37
Mississippi	437	0	15	452	29	24	98	151	603	25
Missouri	1,072	0	105	1,176	31	67	224	322	1,498	21
Montana	190	0	#	190	13	6	65	84	274	31
Nebraska	265	0	0	265	98	15	72	185	450	41
Nevada	389	0	12	401	3	48	239	290	690	42
New Hampshire	205	0	0	205	3	35	221	259	464	56
New Jersey	1,236	#	272	1,507	70	156	1,280	1,507	3,014	50
New Mexico	367	0	0	367	7	15	70	93	460	20
New York	2,572	#	343	2,915	193	168	2,625	2,986	5,901	51
North Carolina	1,606	2	48	1,656	42	99	726	867	2,522	34
North Dakota	136	0	0	136	43	2	7	52	189	28
Northern Mariana Isl.	7	0	0	7	0	0	0	0	7	0
Ohio	1,847	#	110	1,956	78	72	860	1,011	2,967	34
Oklahoma	538	0	27	565	158	33	211	402	967	42
Oregon	592	0	0	592	19	50	323	393	985	40
Pennsylvania	2,406	#	218	2,623	122	210	1,043	1,375	3,998	34
Puerto Rico	475	0	0	475	*	*	86	96	571	17
Rhode Island	129	0	36	164	83	*	*	161	325	49
South Carolina	792	0	39	830	67	43	239	348	1,178	30
South Dakota	127	0	#	127	78	5	62	145	272	53
Tennessee	1,014	0	60	1,074	71	75	399	545	1,619	34
Texas	3,357	#	448	3,805	117	226	1,022	1,364	5,169	26
Utah	331	0	0	331	20	28	162	210	542	39
Vermont	167	0	0	167	2	11	65	78	245	32
Virgin Islands	33	#	#	33	0	*	0	*	*	*
Virginia	1,338	#	194	1,532	170	128	402	701	2,233	31
Washington	1,036	#	#	1,036	41	109	696	847	1,883	45
West Virginia	395	#	1	396	11	14	141	165	561	29
Wisconsin	931	0	64	995	55	58	412	524	1,519	34
Wyoming	79	0	#	79	4	5	43	51	130	39
Nationwide	48,364	3	4,171	52,538	3,731	4,145	22,587	30,462	83,000	37

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



**Table 11**  
**Business End-User Switched Access Lines and VoIP Subscriptions by State as of December 31, 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	465	0	3	468	239	7	35	281	749	38%
Alaska	126	0	0	126	*	#	*	*	*	*
American Samoa	5	0	0	5	0	0	0	0	5	0
Arizona	557	2	1	560	319	29	154	501	1,062	47
Arkansas	296	0	2	297	101	5	26	132	429	31
California	5,411	0	101	5,512	1,691	173	701	2,564	8,076	32
Colorado	523	0	#	523	350	16	86	452	975	46
Connecticut	490	0	9	498	157	12	55	225	723	31
Delaware	123	0	2	126	57	*	*	63	189	33
District of Columbia	507	0	5	512	230	9	41	280	792	35
Florida	2,046	0	36	2,082	1,374	89	260	1,723	3,804	45
Georgia	1,098	0	17	1,115	616	27	101	744	1,859	40
Guam	19	0	0	19	*	0	*	*	*	*
Hawaii	192	#	2	195	43	2	16	61	256	24
Idaho	153	0	0	153	54	4	15	72	225	32
Illinois	1,759	0	30	1,789	560	38	139	737	2,526	29
Indiana	764	#	7	770	177	21	40	237	1,007	24
Iowa	313	#	#	313	107	12	37	156	469	33
Kansas	294	0	3	297	122	10	55	186	484	39
Kentucky	450	#	2	452	160	11	110	281	733	38
Louisiana	509	0	4	514	190	9	63	263	776	34
Maine	112	0	#	112	131	3	12	145	257	56
Maryland	932	0	12	944	385	24	73	482	1,426	34
Massachusetts	837	0	12	849	1,035	23	31	1,090	1,939	56
Michigan	1,124	0	22	1,146	334	20	60	413	1,559	26
Minnesota	471	0	1	472	388	10	129	526	999	53
Mississippi	298	0	2	301	71	3	8	82	382	21
Missouri	681	0	8	689	219	13	59	291	980	30
Montana	112	0	0	112	30	3	21	53	165	32
Nebraska	209	0	#	209	114	6	38	157	366	43
Nevada	290	0	1	291	128	14	62	203	494	41
New Hampshire	107	0	#	107	125	6	6	136	243	56
New Jersey	1,163	0	30	1,193	858	31	180	1,069	2,262	47
New Mexico	202	0	0	202	58	3	22	83	285	29
New York	2,145	0	39	2,184	1,674	72	481	2,227	4,411	50
North Carolina	1,029	0	8	1,037	620	21	81	722	1,759	41
North Dakota	69	0	0	69	38	#	32	71	141	51
Northern Mariana Isl.	8	0	0	8	0	0	0	0	8	0
Ohio	1,200	0	18	1,218	452	26	105	582	1,800	32
Oklahoma	373	0	2	374	131	15	69	215	589	36
Oregon	303	#	#	303	220	11	35	266	569	47
Pennsylvania	1,413	0	19	1,432	1,305	39	67	1,411	2,843	50
Puerto Rico	180	0	0	180	*	*	17	127	308	41
Rhode Island	87	0	1	87	171	*	*	199	286	70
South Carolina	447	0	7	454	235	18	39	292	746	39
South Dakota	78	0	0	78	58	1	5	64	141	45
Tennessee	598	0	9	607	458	11	71	539	1,147	47
Texas	2,857	0	64	2,920	938	74	208	1,220	4,140	29
Utah	223	1	#	224	148	10	58	216	439	49
Vermont	79	0	#	79	39	2	2	43	121	35
Virgin Islands	20	#	0	20	0	*	0	*	*	*
Virginia	1,068	0	33	1,101	625	36	164	826	1,927	43
Washington	585	#	#	585	332	19	59	410	995	41
West Virginia	194	0	0	194	102	3	10	114	308	37
Wisconsin	709	0	11	720	252	9	38	300	1,020	29
Wyoming	81	0	0	81	13	1	13	28	108	26
Nationwide	36,382	3	523	36,909	18,390	1,015	4,212	23,616	60,525	39

# = 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	2008		2009		2010		2011	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	16 %	21 %	21 %	24 %	28 %	30 %	31 %	32 %
Alaska	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0
Arizona	37	40	40	42	44	46	46	48
Arkansas	14	18	19	20	22	22	24	30
California	15	22	23	25	27	28	30	32
Colorado	19	31	32	34	36	39	40	42
Connecticut	15	29	31	33	35	37	39	41
Delaware	18	30	31	32	34	35	37	38
District of Columbia	15	20	20	21	31	32	34	35
Florida	14	27	28	31	36	39	40	42
Georgia	17	25	26	27	31	33	34	36
Guam	*	*	*	*	*	*	*	*
Hawaii	18	18	19	21	22	24	24	26
Idaho	11	17	18	19	25	28	26	27
Illinois	14	24	24	25	27	30	32	33
Indiana	11	18	19	20	23	25	27	28
Iowa	19	22	22	24	26	27	28	29
Kansas	28	31	31	32	34	36	37	39
Kentucky	18	25	27	28	29	33	32	35
Louisiana	21	23	25	27	30	32	33	34
Maine	24	30	33	36	38	39	40	42
Maryland	15	25	26	27	28	30	31	32
Massachusetts	25	39	40	42	44	49	52	53
Michigan	20	29	30	33	34	36	38	39
Minnesota	22	31	32	34	36	37	38	43
Mississippi	11	16	17	20	23	25	22	24
Missouri	15	18	18	20	22	23	24	25
Montana	19	21	22	23	24	26	29	31
Nebraska	31	34	35	38	39	42	42	42
Nevada	26	30	31	33	36	39	40	42
New Hampshire	25	42	45	49	51	54	55	56
New Jersey	18	34	36	38	40	46	47	49
New Mexico	9	14	15	17	19	21	22	24
New York	31	41	42	44	46	49	50	51
North Carolina	20	24	25	27	33	35	36	37
North Dakota	24	32	31	35	36	38	37	38
Northern Mariana Isl.	0	0	0	0	0	0	0	0
Ohio	23	25	26	28	29	31	32	33
Oklahoma	27	30	30	34	35	38	39	40
Oregon	18	31	32	34	36	39	41	42
Pennsylvania	21	30	30	32	35	38	40	41
Puerto Rico	19	22	25	22	26	25	25	25
Rhode Island	50	52	53	54	54	58	60	59
South Carolina	19	23	24	26	30	32	32	33
South Dakota	32	36	36	44	45	47	48	50
Tennessee	18	25	25	28	33	36	37	39
Texas	18	22	22	23	24	25	27	28
Utah	21	26	32	34	36	38	39	43
Vermont	13	24	23	27	29	31	34	33
Virgin Islands	0	*	0	*	*	*	*	*
Virginia	23	31	32	34	33	35	36	37
Washington	16	30	32	35	37	40	42	44
West Virginia	16	22	24	27	29	30	31	32
Wisconsin	24	26	26	27	27	30	31	32
Wyoming	19	21	21	22	24	26	29	33
Nationwide	19 %	27 %	28 %	30 %	32 %	35 %	36 %	38 %

\* = Data withheld to maintain firm confidentiality. NA = Not available. Some previously published data have been revised.

<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	2008		2009		2010		2011	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	352	463	453	494	594	622	620	634
Alaska	*	*	*	*	*	*	*	*
American Samoa	0	0	0	0	0	0	0	0
Arizona	1,129	1,227	1,173	1,193	1,236	1,244	1,203	1,228
Arkansas	175	220	224	230	248	250	257	331
California	3,101	4,607	4,764	4,857	5,166	5,342	5,515	5,683
Colorado	449	847	825	837	884	929	944	967
Connecticut	291	630	644	680	706	751	782	799
Delaware	85	166	166	165	173	174	177	179
District of Columbia	136	183	180	190	300	314	337	343
Florida	1,276	2,748	2,737	2,907	3,525	3,729	3,690	3,846
Georgia	764	1,174	1,133	1,173	1,370	1,410	1,427	1,506
Guam	*	*	*	*	*	*	*	*
Hawaii	115	114	117	125	128	138	137	147
Idaho	79	123	117	123	159	177	149	150
Illinois	875	1,667	1,614	1,634	1,658	1,826	1,899	1,923
Indiana	313	565	562	592	647	691	719	750
Iowa	273	309	310	322	344	354	360	363
Kansas	375	419	413	408	429	436	440	441
Kentucky	331	497	508	521	546	621	591	636
Louisiana	449	491	507	539	602	642	640	639
Maine	181	233	250	274	282	283	285	293
Maryland	479	868	891	911	912	961	981	1,024
Massachusetts	871	1,602	1,592	1,643	1,695	1,967	2,198	2,168
Michigan	927	1,458	1,451	1,501	1,518	1,576	1,580	1,601
Minnesota	572	877	864	905	927	942	956	1,119
Mississippi	122	184	184	214	252	267	227	233
Missouri	471	523	518	553	598	611	606	612
Montana	96	101	103	104	109	117	127	137
Nebraska	274	299	302	332	330	359	348	342
Nevada	372	420	411	416	451	476	471	493
New Hampshire	167	347	351	376	388	395	397	396
New Jersey	866	1,946	1,986	2,004	2,104	2,464	2,530	2,576
New Mexico	75	123	128	138	157	168	171	176
New York	3,125	4,563	4,578	4,710	4,807	5,295	5,222	5,213
North Carolina	953	1,101	1,137	1,200	1,480	1,557	1,535	1,589
North Dakota	76	113	104	123	126	129	124	124
Northern Mariana Isl.	0	0	0	0	0	0	0	0
Ohio	1,365	1,473	1,450	1,492	1,550	1,615	1,563	1,593
Oklahoma	474	521	504	570	572	621	619	617
Oregon	300	575	563	582	615	631	650	659
Pennsylvania	1,423	2,205	2,176	2,201	2,422	2,650	2,759	2,786
Puerto Rico	186	210	234	170	244	231	228	224
Rhode Island	301	317	311	311	308	353	383	360
South Carolina	399	478	497	535	622	645	623	640
South Dakota	124	140	136	183	188	193	199	209
Tennessee	523	756	726	791	966	1,020	1,051	1,085
Texas	1,919	2,387	2,358	2,372	2,452	2,498	2,556	2,584
Utah	211	274	342	353	362	371	375	426
Vermont	47	90	91	102	110	116	126	121
Virgin Islands	0	*	#	*	*	*	*	*
Virginia	1,043	1,443	1,476	1,565	1,463	1,497	1,523	1,527
Washington	471	1,031	1,025	1,095	1,162	1,221	1,229	1,257
West Virginia	141	196	214	235	248	269	270	280
Wisconsin	744	770	755	771	728	791	794	824
Wyoming	51	54	53	54	58	62	68	78
<b>Total</b>	<b>30,049</b>	<b>44,267</b>	<b>44,351</b>	<b>45,927</b>	<b>49,077</b>	<b>52,155</b>	<b>52,820</b>	<b>54,078</b>

# = Rounds to zero. \* = Data withheld to maintain firm confidentiality. Some previously published data have been revised.

<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	2008		2009		2010		2011	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	1,861	1,746	1,665	1,579	1,506	1,438	1,386	1,322
Alaska	294	289	282	273	271	260	257	247
American Samoa	11	10	10	10	10	10	9	9
Arizona	1,943	1,847	1,741	1,649	1,563	1,476	1,409	1,345
Arkansas	1,069	1,021	982	941	904	865	827	789
California	17,149	16,345	15,555	14,796	14,118	13,455	12,786	12,197
Colorado	1,973	1,873	1,758	1,656	1,569	1,473	1,409	1,329
Connecticut	1,632	1,540	1,463	1,389	1,326	1,268	1,214	1,165
Delaware	396	380	363	344	331	317	307	297
District of Columbia	788	737	714	697	680	679	644	627
Florida	7,932	7,440	6,918	6,491	6,138	5,798	5,508	5,259
Georgia	3,675	3,468	3,304	3,156	3,011	2,881	2,779	2,659
Guam	62	54	51	49	48	48	45	42
Hawaii	516	512	489	473	455	444	431	419
Idaho	609	582	550	514	486	455	433	404
Illinois	5,562	5,342	5,086	4,812	4,581	4,313	4,078	3,852
Indiana	2,665	2,547	2,434	2,300	2,186	2,064	1,945	1,894
Iowa	1,162	1,113	1,077	1,024	987	940	917	882
Kansas	977	939	899	858	820	774	737	700
Kentucky	1,542	1,458	1,387	1,352	1,317	1,272	1,238	1,196
Louisiana	1,710	1,634	1,561	1,489	1,426	1,369	1,318	1,255
Maine	579	542	519	482	463	438	428	407
Maryland	2,792	2,588	2,520	2,403	2,333	2,262	2,193	2,128
Massachusetts	2,609	2,493	2,369	2,238	2,149	2,065	1,991	1,926
Michigan	3,719	3,514	3,323	3,113	2,952	2,757	2,619	2,513
Minnesota	2,006	1,922	1,826	1,725	1,666	1,583	1,537	1,468
Mississippi	1,018	963	922	879	848	813	783	752
Missouri	2,568	2,465	2,367	2,259	2,162	2,055	1,961	1,866
Montana	406	387	371	351	342	327	318	302
Nebraska	606	584	564	543	521	501	489	474
Nevada	1,042	972	911	856	809	759	719	691
New Hampshire	507	470	435	385	366	342	326	312
New Jersey	3,936	3,734	3,519	3,288	3,112	2,937	2,807	2,700
New Mexico	783	754	713	682	651	618	595	569
New York	6,902	6,557	6,234	5,900	5,653	5,416	5,258	5,099
North Carolina	3,715	3,519	3,335	3,189	3,045	2,886	2,779	2,693
North Dakota	248	241	233	224	220	213	210	206
Northern Mariana Isl.	18	17	17	16	16	16	15	15
Ohio	4,537	4,326	4,124	3,914	3,719	3,515	3,342	3,174
Oklahoma	1,267	1,215	1,169	1,117	1,070	1,022	981	939
Oregon	1,359	1,286	1,210	1,140	1,080	1,003	949	895
Pennsylvania	5,494	5,243	5,029	4,771	4,571	4,387	4,217	4,055
Puerto Rico	786	755	698	610	706	707	689	655
Rhode Island	302	292	281	270	264	260	255	252
South Carolina	1,728	1,629	1,561	1,488	1,429	1,368	1,330	1,284
South Dakota	261	251	244	233	227	217	212	205
Tennessee	2,436	2,297	2,170	2,061	1,962	1,846	1,774	1,681
Texas	9,020	8,673	8,307	7,999	7,678	7,360	7,046	6,725
Utah	811	776	725	690	657	614	586	555
Vermont	323	289	299	280	265	253	245	246
Virgin Islands	62	61	59	57	59	58	56	53
Virginia	3,422	3,265	3,160	3,050	2,944	2,811	2,705	2,633
Washington	2,509	2,367	2,211	2,071	1,962	1,815	1,722	1,621
West Virginia	752	714	677	637	606	628	603	589
Wisconsin	2,336	2,246	2,156	2,051	1,970	1,874	1,807	1,715
Wyoming	218	209	200	190	183	175	168	160
Total	124,606	118,496	112,748	107,018	102,395	97,497	93,394	89,446

Some previously published data have been revised.

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

**Table 15**  
**Non-ILEC Methods of Providing Wireline Telephone Services by State**  
**as of December 31, 2011**  
**(In Thousands)**

State	Resold LEC service	ILEC UNEs	CLEC-owned local loops	VoIP Subscriptions <sup>1</sup>	Total
Alabama	101	138	88	307	634
Alaska	*	*	*	*	*
American Samoa	0	0	0	0	0
Arizona	157	92	381	599	1,228
Arkansas	103	18	64	146	331
California	1,180	484	532	3,487	5,683
Colorado	166	140	57	604	967
Connecticut	54	55	92	599	799
Delaware	33	28	1	118	179
District of Columbia	168	27	47	101	343
Florida	582	565	285	2,411	3,846
Georgia	235	348	135	788	1,506
Guam	*	*	*	*	*
Hawaii	25	3	16	104	147
Idaho	20	27	26	77	150
Illinois	291	245	95	1,291	1,923
Indiana	75	69	101	506	750
Iowa	47	39	90	186	363
Kansas	67	35	106	232	441
Kentucky	88	52	92	403	636
Louisiana	94	101	86	359	639
Maine	23	60	57	153	293
Maryland	239	125	84	574	1,024
Massachusetts	315	214	558	1,080	2,168
Michigan	130	252	49	1,169	1,601
Minnesota	128	222	131	637	1,119
Mississippi	49	42	9	132	233
Missouri	79	122	49	362	612
Montana	7	11	24	95	137
Nebraska	68	10	134	130	342
Nevada	71	38	23	362	493
New Hampshire	40	57	31	267	396
New Jersey	418	172	339	1,647	2,576
New Mexico	36	11	19	111	176
New York	738	490	638	3,346	5,213
North Carolina	262	268	131	927	1,589
North Dakota	5	17	60	42	124
Northern Mariana Isl.	0	0	0	0	0
Ohio	177	190	163	1,063	1,593
Oklahoma	98	67	124	329	617
Oregon	64	126	50	419	659
Pennsylvania	533	342	552	1,359	2,786
Puerto Rico	13	*	*	*	224
Rhode Island	31	20	204	106	360
South Carolina	109	117	76	339	640
South Dakota	7	6	123	73	209
Tennessee	198	197	134	555	1,085
Texas	421	413	221	1,529	2,584
Utah	55	72	40	259	426
Vermont	9	22	11	80	121
Virgin Islands	*	*	*	*	*
Virginia	345	146	305	731	1,527
Washington	120	176	78	883	1,257
West Virginia	27	67	19	167	280
Wisconsin	60	202	45	517	824
Wyoming	5	8	4	62	78
<b>Total</b>	<b>8,370</b>	<b>6,812</b>	<b>6,933</b>	<b>31,958</b>	<b>54,078</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 December 31, 2011**

<b>State</b>	<b>ILECs</b>	<b>Non-ILECs</b>	<b>Total</b>
Alabama	65%	56%	62%
Alaska	49	*	*
American Samoa	56	NA	56
Arizona	58	59	59
Arkansas	62	60	62
California	55	55	55
Colorado	61	53	58
Connecticut	57	72	63
Delaware	58	65	61
District of Columbia	18	18	18
Florida	60	55	58
Georgia	58	51	55
Guam	57	*	*
Hawaii	54	59	55
Idaho	62	52	59
Illinois	54	62	56
Indiana	59	68	62
Iowa	64	57	62
Kansas	58	58	58
Kentucky	62	56	60
Louisiana	59	59	59
Maine	72	51	63
Maryland	56	53	55
Massachusetts	56	50	53
Michigan	54	74	62
Minnesota	68	53	61
Mississippi	60	65	61
Missouri	63	53	60
Montana	63	61	62
Nebraska	56	54	55
Nevada	58	59	58
New Hampshire	66	65	66
New Jersey	56	59	57
New Mexico	64	53	62
New York	57	57	57
North Carolina	61	55	59
North Dakota	66	42	57
Northern Mariana Isl.	47	NA	47
Ohio	62	63	62
Oklahoma	60	65	62
Oregon	66	60	63
Pennsylvania	65	49	58
Puerto Rico	73	43	65
Rhode Island	65	45	53
South Carolina	65	54	61
South Dakota	62	69	66
Tennessee	64	50	59
Texas	57	53	56
Utah	60	49	55
Vermont	68	64	67
Virgin Islands	62	*	*
Virginia	58	46	54
Washington	64	67	65
West Virginia	67	59	65
Wisconsin	58	64	60
Wyoming	49	65	55
Nationwide	59	56	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 December 31, 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	123	136	97
Alaska	17	23	39	21
American Samoa	1	0	1	0
Arizona	15	117	129	98
Arkansas	20	89	105	69
California	15	177	188	144
Colorado	25	126	148	102
Connecticut	2	100	100	82
Delaware	1	75	76	59
District of Columbia	1	83	84	68
Florida	10	206	211	152
Georgia	27	167	185	128
Guam	1	4	5	3
Hawaii	2	40	42	35
Idaho	18	76	89	61
Illinois	44	168	203	127
Indiana	29	129	149	98
Iowa	134	123	229	70
Kansas	39	112	138	80
Kentucky	17	121	130	92
Louisiana	10	107	111	81
Maine	7	68	72	49
Maryland	2	130	130	101
Massachusetts	4	120	122	99
Michigan	25	128	144	98
Minnesota	48	128	161	92
Mississippi	13	98	105	76
Missouri	31	118	140	93
Montana	17	69	80	53
Nebraska	31	82	104	62
Nevada	12	95	105	83
New Hampshire	6	84	90	70
New Jersey	3	141	141	109
New Mexico	16	82	92	62
New York	25	158	172	124
North Carolina	20	144	155	108
North Dakota	23	62	79	43
Northern Mariana Isl	1	0	1	0
Ohio	34	142	166	110
Oklahoma	38	98	130	74
Oregon	24	107	127	80
Pennsylvania	23	152	166	121
Puerto Rico	1	17	17	16
Rhode Island	1	66	67	53
South Carolina	17	122	128	91
South Dakota	28	63	82	48
Tennessee	18	130	143	99
Texas	51	200	233	140
Utah	13	89	100	74
Vermont	8	64	71	55
Virgin Islands	1	3	4	4
Virginia	15	125	134	103
Washington	16	124	136	106
West Virginia	7	82	86	69
Wisconsin	40	124	149	87
Wyoming	9	69	73	52
Nationwide	759	869	1,414	546

<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	Dec 2011		Subscribers (In Thousands)							
	Carriers	% Resold <sup>1</sup>	2008		2009		2010		2011	
			Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Alabama	14	15 %	3,887	3,960	4,003	4,228	4,211	4,328	4,350	4,491
Alaska	14	5	480	383	544	586	590	608	619	634
American Samoa	2	*	*	*	*	*	*	*	*	*
Arizona	14	7	4,936	4,983	5,005	5,101	5,268	5,285	5,402	5,532
Arkansas	16	28	2,446	2,530	2,576	2,519	2,485	2,673	2,773	3,340
California	16	6	31,946	32,177	32,215	32,938	33,548	33,839	34,299	34,892
Colorado	16	8	4,066	4,311	4,357	4,503	4,647	4,687	4,705	4,767
Connecticut	11	7	2,959	3,030	3,047	3,123	3,192	3,230	3,305	3,360
Delaware	11	8	775	778	779	803	859	851	881	893
District of Columbia	11	8	1,047	1,096	1,116	1,183	1,227	1,249	1,273	1,347
Florida	14	8	15,809	16,158	16,425	16,744	16,895	17,251	17,613	17,923
Georgia	16	13	8,142	8,322	8,562	8,863	8,869	9,063	9,137	9,655
Guam	3	*	*	*	*	*	*	*	139	*
Hawaii	10	5	1,115	1,184	1,196	1,216	1,248	1,252	1,274	1,296
Idaho	17	6	1,125	1,167	1,180	1,221	1,269	1,277	1,293	1,323
Illinois	18	11	10,634	10,919	11,070	11,523	11,604	12,057	12,259	12,705
Indiana	15	10	4,824	4,956	4,983	5,205	5,289	5,410	5,496	5,580
Iowa	72	9	2,245	2,319	2,336	2,432	2,466	2,535	2,559	2,658
Kansas	17	15	2,326	2,421	2,430	2,466	2,491	2,560	2,570	2,653
Kentucky	16	12	3,343	3,445	3,439	3,631	3,654	3,726	3,754	3,813
Louisiana	19	22	3,896	4,012	4,053	3,993	3,953	4,340	4,876	5,676
Maine	10	24	972	1,012	1,006	1,065	1,040	1,124	1,090	1,179
Maryland	16	12	5,124	5,234	5,260	5,323	5,500	5,560	5,665	6,153
Massachusetts	11	10	5,624	5,749	6,027	6,171	6,367	6,316	6,419	6,534
Michigan	15	12	7,821	8,027	8,171	8,576	8,690	8,861	9,391	9,253
Minnesota	13	10	4,164	4,345	4,254	4,439	4,611	4,704	4,782	4,943
Mississippi	13	14	2,252	2,312	2,361	2,345	2,322	2,440	2,516	2,658
Missouri	19	14	4,835	4,940	4,985	5,129	5,141	5,309	5,458	5,650
Montana	13	14	723	748	707	802	783	846	803	864
Nebraska	16	8	1,451	1,496	1,508	1,515	1,566	1,523	1,542	1,648
Nevada	16	11	2,249	2,268	2,325	2,393	2,417	2,453	2,490	2,571
New Hampshire	11	12	1,045	1,080	1,075	1,125	1,141	1,170	1,171	1,207
New Jersey	12	6	7,834	8,008	8,036	8,158	8,624	8,601	8,786	8,926
New Mexico	13	6	1,555	1,536	1,550	1,624	1,668	1,689	1,662	1,691
New York	14	10	17,260	16,702	18,193	18,882	19,303	19,504	19,938	20,221
North Carolina	16	12	7,428	8,024	7,865	8,108	8,259	8,526	8,513	9,114
North Dakota	13	10	541	581	562	618	590	623	615	641
Northern Mariana Isl.	2	*	*	*	*	*	*	*	*	*
Ohio	15	11	9,357	9,565	9,456	10,059	10,236	10,511	10,936	11,134
Oklahoma	20	13	2,808	2,889	2,988	3,077	3,109	3,188	3,259	3,433
Oregon	13	8	3,007	3,084	3,112	3,235	3,297	3,340	3,355	3,427
Pennsylvania	18	11	9,895	10,214	10,455	10,867	11,070	11,424	11,401	11,595
Puerto Rico	7	6	2,502	2,624	2,706	2,807	2,879	3,014	3,004	2,989
Rhode Island	10	9	874	888	880	893	906	920	935	959
South Carolina	17	14	3,573	3,323	3,702	3,896	3,848	3,935	3,987	3,787
South Dakota	12	11	611	631	613	681	681	728	690	725
Tennessee	15	10	5,791	5,518	5,676	5,914	6,041	6,193	6,236	6,373
Texas	23	8	20,390	21,008	21,403	21,849	22,201	23,030	23,482	23,752
Utah	14	6	2,046	2,095	2,109	2,166	2,220	2,251	2,276	2,328
Vermont	10	18	421	435	398	463	431	485	471	509
Virgin Islands	4	13	*	*	*	*	*	*	117	117
Virginia	14	8	6,242	6,856	6,596	7,250	7,440	7,595	7,622	7,785
Washington	14	8	5,461	5,624	5,671	5,816	5,965	6,022	6,118	6,259
West Virginia	16	24	1,236	1,295	1,315	1,401	1,406	1,500	1,506	1,662
Wisconsin	16	12	3,966	4,265	4,317	4,546	4,599	4,730	4,895	4,939
Wyoming	13	11	457	484	429	517	501	526	514	533
Nationwide	192	10 %	255,729	261,284	265,332	274,283	278,918	285,118	290,318	298,293

\* = Data withheld to maintain firm confidentiality. Some previously published data for June 2011 have been revised.

<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>	2008		2009		2010		2011	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Zero	18.3 %	7.7 %	8.7 %	9.3 %	7.1 %	6.9 %	7.2 %	7.6 %
One	11.6	9.2	10.1	10.1	8.7	8.6	8.7	8.0
Two	8.6	7.8	7.9	7.6	7.4	7.6	7.6	6.5
Three	6.3	6.4	6.1	6.2	6.2	6.3	6.4	5.8
Four	5.0	5.4	5.4	5.2	5.2	5.5	5.5	5.3
Five	4.1	4.8	4.6	4.5	4.7	5.0	5.1	4.6
Six	3.5	4.2	4.0	3.8	4.2	4.2	4.3	4.5
Seven	3.2	3.6	3.4	3.5	3.6	3.7	4.0	3.6
Eight	3.0	3.2	3.1	3.0	3.4	3.5	3.4	3.3
Nine	2.7	2.8	2.6	2.7	2.8	3.0	3.0	3.1
Ten or More	33.6	44.7	44.0	44.0	46.6	45.7	44.8	47.7

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

Number of Providers <sup>2</sup>	2008		2009		2010		2011	
	Jun	Dec	Jun	Dec	Jun	Dec	Jun	Dec
Zero	2.6 %	0.4 %	0.5 %	0.6 %	0.4 %	0.4 %	0.4 %	0.4 %
One	2.4	0.9	1.2	1.2	0.9	0.8	0.8	0.7
Two	2.4	1.2	1.3	1.3	1.0	1.1	1.1	0.8
Three	2.4	1.3	1.4	1.4	1.3	1.2	1.2	1.0
Four	2.2	1.3	1.5	1.5	1.3	1.3	1.3	1.1
Five	2.2	1.6	1.4	1.5	1.4	1.4	1.5	1.2
Six	2.1	1.7	1.5	1.5	1.3	1.5	1.4	1.2
Seven	2.3	1.8	1.5	1.6	1.4	1.5	1.7	1.3
Eight	2.8	1.7	1.8	1.6	1.6	1.8	1.6	1.4
Nine	2.7	1.6	1.6	1.7	1.6	1.5	1.5	1.5
Ten or More	75.9	86.6	86.2	86.1	87.9	87.4	87.6	89.4

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.

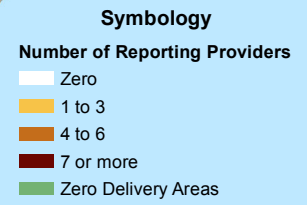
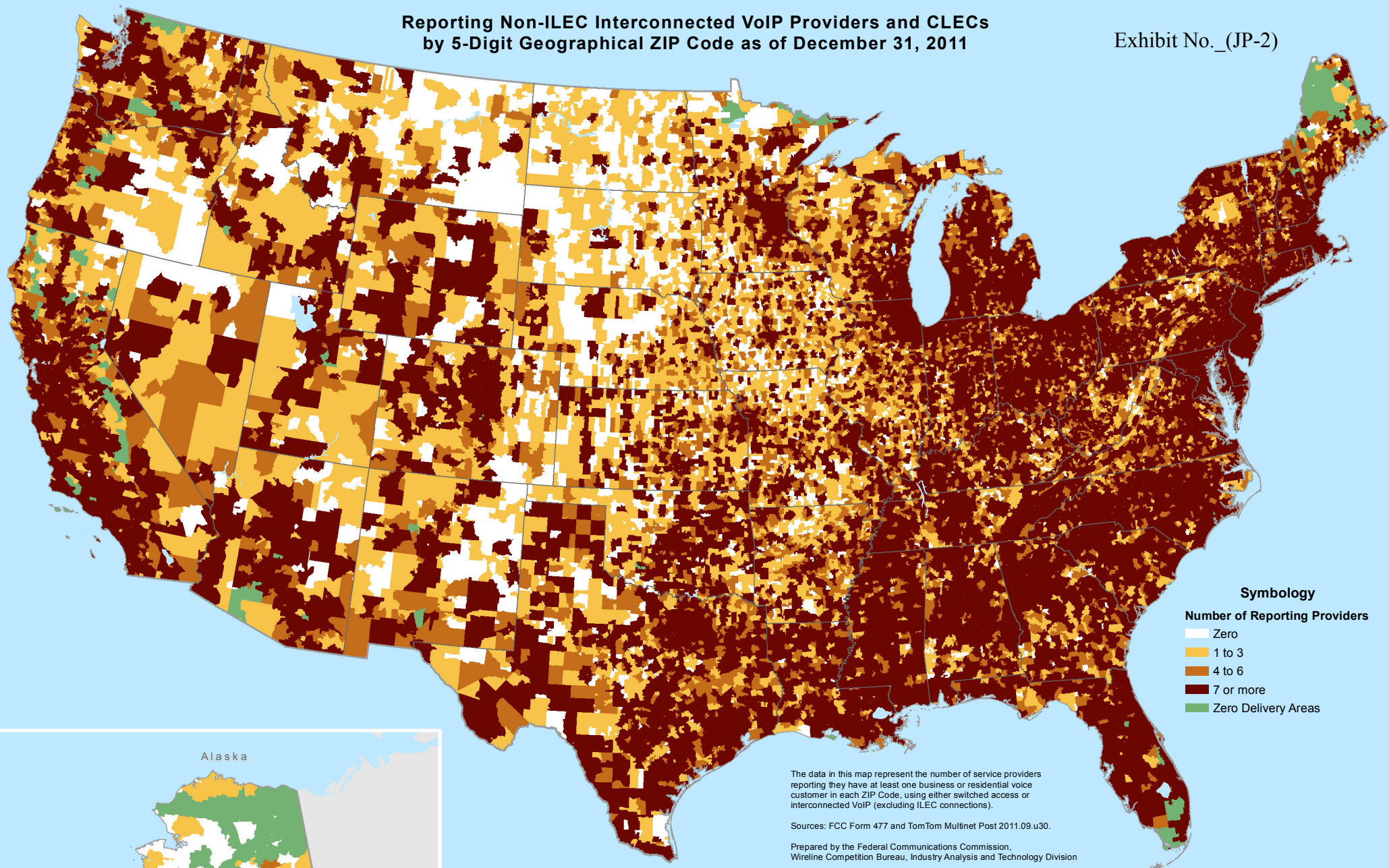
<sup>2</sup> A holding company or common-control entity that reports both CLEC end-user switched access lines and interconnected VoIP subscribers in a state reports a single list of ZIP Codes in which it has any such customers and is counted once in each listed ZIP Code.

**Table 21**  
**Percentage of ZIP Codes with CLECs or Non-ILEC VoIP Providers by State**  
**as of December 31, 2011**

State	Number of Providers								
	Zero	One - Three	Four	Five	Six	Seven	Eight	Nine	Ten or More
Alabama	3 %	16 %	3 %	4 %	4 %	3 %	4 %	3 %	60 %
Alaska	60	27	3	2	2	2	1	2	0
Arizona	5	12	4	3	3	3	2	2	66
Arkansas	14	40	8	6	7	3	2	2	18
California	1	11	3	4	3	3	3	2	70
Colorado	10	22	5	2	3	2	2	3	50
Connecticut	0	4	5	4	6	6	4	6	64
Delaware	0	2	3	2	3	2	3	3	81
District of Columbia	0	14	0	7	0	0	0	0	79
Florida	0	3	2	2	1	2	2	2	86
Georgia	3	14	4	5	4	4	3	4	60
Hawaii	4	20	9	4	11	4	2	4	40
Idaho	8	35	5	7	7	4	4	2	28
Illinois	6	26	8	5	5	3	3	2	41
Indiana	3	19	9	8	4	4	4	4	44
Iowa	25	43	7	3	4	2	2	1	14
Kansas	16	39	4	5	5	3	3	3	22
Kentucky	7	27	7	7	7	7	5	3	31
Louisiana	3	14	4	4	5	3	5	3	59
Maine	5	25	9	9	7	6	6	5	26
Maryland	0	3	2	6	4	3	5	4	74
Massachusetts	0	4	2	2	2	1	2	3	84
Michigan	1	11	6	5	6	5	4	4	58
Minnesota	16	33	5	4	4	3	2	2	31
Mississippi	1	10	3	8	5	4	5	5	61
Missouri	18	33	6	5	4	3	2	2	27
Montana	40	34	3	2	3	1	3	1	13
Nebraska	19	49	6	3	4	2	1	2	14
Nevada	7	17	1	5	3	1	2	7	56
New Hampshire	1	2	5	7	10	6	7	6	56
New Jersey	0	0	0	1	1	1	2	1	93
New Mexico	22	32	9	6	2	2	1	3	23
New York	1	10	5	4	5	5	4	5	60
North Carolina	1	11	5	5	4	3	5	4	62
North Dakota	45	44	1	3	1	0	1	1	5
Ohio	1	8	5	6	6	5	5	5	59
Oklahoma	13	28	4	4	3	4	2	3	39
Oregon	10	24	8	4	4	3	2	3	42
Pennsylvania	2	17	7	5	5	4	5	4	51
Puerto Rico	0	9	9	13	9	18	20	12	9
Rhode Island	0	8	9	7	3	1	1	3	68
South Carolina	1	11	4	3	4	3	4	3	66
South Dakota	43	40	4	2	1	2	0	1	6
Tennessee	3	15	4	5	4	3	5	4	56
Texas	6	18	5	4	4	3	2	3	57
Utah	10	26	4	4	4	1	3	1	47
Vermont	1	24	17	8	8	8	6	6	23
Virginia	3	20	7	7	6	4	3	5	46
Washington	4	21	5	4	4	3	3	2	54
West Virginia	5	24	9	8	9	10	5	5	26
Wisconsin	8	32	8	4	5	5	3	2	32
Wyoming	15	49	6	4	3	1	1	1	18
Nationwide	8 %	20 %	5 %	5 %	4 %	4 %	3 %	3 %	48 %

Reporting Non-ILEC Interconnected VoIP Providers and CLECs  
by 5-Digit Geographical ZIP Code as of December 31, 2011

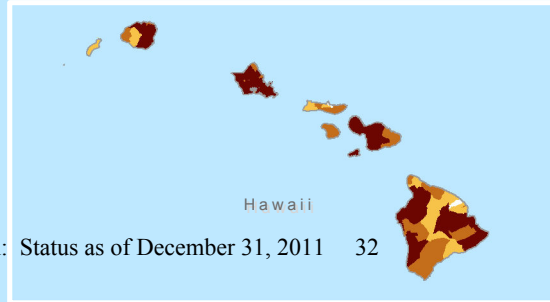
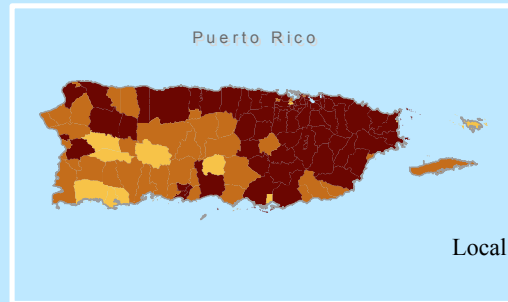
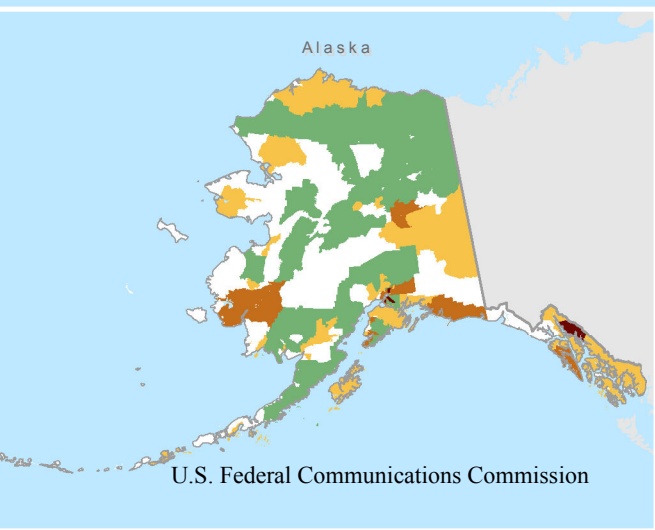
Exhibit No.\_(JP-2)



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 December 31, 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	<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