

**OFFICIAL OCTOBER 2011 UPDATE SUBMISSION TO
THE NATIONAL TELECOMMUNICATIONS AND INFORMATION
ADMINISTRATION UNDER THE
STATE BROADBAND INITIATIVE PROGRAM FOR THE
STATE OF FLORIDA**



October 1, 2011

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FLORIDA COVER LETTER

October 1, 2011

Ms. Anne W. Neville
SBI Grant Program Director
National Telecommunications and Information Administration
U.S. Department of Commerce
1401 Constitution Avenue, NW Room 4716
Washington, DC 20230

Dear Ms. Neville:

The state of Florida and Connected Nation are pleased to present this submission for Florida's State Broadband Initiative (SBI) Grant Program known as Connect Florida.

These artifacts should be found to be compliant with the October 1, 2011, deadline for the semi-annual data update and in accordance with the terms of the July 1, 2009, Notice of Funds Availability (NOFA) and all subsequent clarifications pertaining to delivery of state-level mapping of broadband service availability. This packet includes:

Inventory of Deliverables, Connect Florida: October 1, 2011

<u>NOFA Requirement</u>	<u>Data Transfer Model</u>	<u>Data Description</u>
Appendix A: 1(a)(i)	BB_Service_CensusBlock	Broadband Service Availability of Facilities-Based Providers in Census Blocks of No Greater Than Two Square Miles in Area
Appendix A: 1(a)(ii)	BB_Service_RoadSegment	Broadband Service Availability of Facilities-Based Providers by Road Segment in Census Blocks Larger in Area Than Two Square Miles
Appendix A: 1(b)	BB_Service_Wireless	Broadband Service Availability of Wireless Services Not Provided to a Specific Address
Appendix A: 3(b)	BB_ConnectionPoint_MiddleMile	Broadband Service Infrastructure Middle-Mile and Backbone Interconnection Points
Appendix A: 4	BB_Service_CAInstitutions	Community Anchor Institutions-Listing

Appendix A: 4	n/a	Community Anchor Institutions- Narratives
VII.A.1(a)	n/a	Accuracy and Verification Report
n/a	DataPackage.xlsx	Worksheets of Contact Information, Record Count, and Provider Summary Table
n/a	n/a	List of Changes and Corrections to the Dataset
n/a	n/a	Non-Participating Provider Narratives
n/a	n/a	Broadband Provider Roster and Participation Status

In addition, this data update submission should be found to be compliant with the additional program requirements instituted by the National Telecommunications and Information Administration since the time of the April 2011 SBI data submission for the Connect Florida program. Specifically, these new requirements are:

SBI Data Transfer Model

The submission of the broadband dataset for October 1, 2011, is contained within the SBI Data Transfer Model as released on the Grantee Workspace on June 30, 2011. All efforts have been made to comply with formatting, domain, and metadata requirements to include as much information on each provider as possible.

Additional Submission Guidance

This submission also includes a list of changes and corrections made to the dataset between the April 2011 submission and the October 2011 submission. This represents a summary of why data displays and/or supplied speeds, etc. are different from the previous submission. Changes can include upgrades to infrastructure to allow for higher throughput speeds for customers, an expansion of the service area (e.g. additional fixed wireless towers, recently activated DSLAMs, etc.), or a new provider in the marketplace. Corrections can include revisions to speed tier information that was previously reported incorrectly or the addition of a previously existing provider that has not yet been submitted in a semi-annual dataset.

This October 2011 semi-annual data update under the State Broadband Initiative Grant Program continues to demonstrate our dedication to implementing the joint purposes of the Recovery Act and the Broadband Data Improvement Act (BDIA) by gathering comprehensive and accurate state-level broadband mapping data, developing state-level broadband maps, aiding in the development and maintenance of the National Broadband Map, and undertaking statewide initiatives for broadband planning.

Broadband Service Availability — Provider Outreach and Verification

This data update submission under the SBI program includes datasets for approximately 62.67 percent of the Florida provider community, or 47 of 75 total providers. Of the 47 participating providers, 25 supplied an update to their network or coverage area(s), while 17 have reported no change. The remaining 5 represent providers who previously supplied data but were non-responsive in the October 2011 update effort; therefore their previous dataset is being put forward as part of this compilation. A complete roster by provider depicting participation status and contact record is contained herein. Of the 28 providers that are not represented in the attached datasets, 2 have refused to participate in the voluntary program, 23 have been non-responsive to multiple contact attempts, and 3 providers are currently in some form of progress toward data submission but were not able to submit coverage areas at the time of this submission.

Connect Florida has also continued to perform broadband verification activities through several means. In addition to confirmation of service area(s) by each provider, Connect Florida conducts field validation efforts. To date, 24 (32 percent) providers have been validated through field verification activities. Additional details on verification activities are contained within the Field Validation Methodology.

As the aforementioned roster and attached methodology documentation will attest, it is the collective opinion of the Connect Florida principals that all commercially reasonable efforts were made to account for 100 percent of the known Florida broadband provider community, pursuant to this semi-annual data update submission.

As part of its ongoing broadband mapping efforts, Connected Nation has developed a series of processes with the goal of submitting mapping data to NTIA for every known and qualifying broadband provider, regardless of whether the provider has chosen to support and participate in the SBI mapping initiative. Coverage estimations and Maximum Advertised Speed information may be available for some of the non-participating providers through publicly available data while other data may require on-the-ground validation techniques that support the underlying data.

The Connect Florida website, www.connect-florida.org, continues to serve a prominent role in the outreach and data collection effort. This program asset provides a way for the general public to participate in the process by offering interactive tools for users to test their connection speed, submit broadband inquiries, or contact a program representative.

As an indicator of stakeholder penetration, the Connect Florida website encountered 1,319 unique visits during this reporting period (4,554 total to date for the life of the grant awarded on December 20, 2009). Additionally, this pronounced Web activity netted 7 broadband inquiries over this same reporting period (22 grant inception to date). The website also provides the BroadbandStat application, which allows the consumer to confirm or dispute the coverage represented on the broadband inventory map. These consumer-initiated actions are facilitated through the Connect Florida website and the Connect Florida interactive mapping tool (BroadbandStat) that offer the

citizens the vehicles to provide information regarding availability in their respective service area, either in affirmation or contest of the reported data represented in the Connect Florida mapping artifacts. Since the initial data collection and release of corresponding maps, feedback in the form of broadband inquiries has allowed Connected Nation to identify additional areas that are in need of field validation, which is scheduled as soon as possible.

Community Anchor Institutions

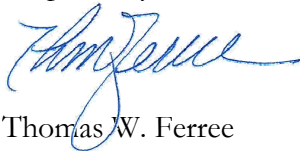
Connect Florida has established an ongoing mechanism for gathering data on the location and broadband connectivity of Community Anchor Institutions (CAI), in accordance with the data requirements of the SBI NOFA Technical Appendix.

In conjunction with the State of Florida Department of Management Services (DMS), outreach was conducted during this data update reporting period by Connect Florida to continue identification of existing, centralized sources for CAI connectivity data. Connect Florida has specifically focused efforts during this reporting period on conducting survey outreach to private K-12 schools throughout the state with the assistance of the Florida Office of Independent Education. Additionally, a CAI survey continues to be made available for all institutions on the Connect Florida website. During this reporting period Connect Florida has continued developing relationships with statewide associations to promote the importance of broadband connectivity at anchor institutions and participation in this data collection process. Connect Florida will continue to build upon these new relationships over the coming months and utilize its contacts throughout the state to collect data and raise awareness of this project.

From our work in Florida, as well as other states, we recognize the great value of this data to future collaboration efforts within the state as well as its value to the National Broadband Map. We plan to continue to bring best practices to the Connect Florida efforts, along with an investment of both human and technical resources required to reach our goal of increasing the data that is secured and reported as part of this process.

The Connect Florida program exists to improve data on the deployment and adoption of broadband services and to assist in the extension of broadband technology across all regions of the great state of Florida, as well as the United States through contribution to the National Broadband Map. We look forward to the continuing work ahead.

Respectfully submitted,



Thomas W. Ferree
Chief Operating Officer
Connected Nation, Inc.

Approved for submittal by

Bill Price
Director Broadband Programs
Department of Management Services
State of Florida

DATA ACQUISITION: FLORIDA COMMUNITY ANCHOR INSTITUTIONS METHODOLOGY

In this fourth reporting period of the SBI, Connect Florida, working in close coordination with the Florida Department of Management Services, has established an ongoing mechanism for gathering data on the location and broadband connectivity of Community Anchor Institutions (CAI), in accordance with the data requirements of the SBI NOFA Technical Appendix. During this reporting period Connect Florida has continued to focus efforts on conducting outreach and raising awareness of this important project.

Connect Florida has continued to identify and process CAI data obtained through an ongoing statewide outreach campaign. Physical address information continues to be augmented through manual sourcing and geocoded by Connect Florida through ESRI ArcGIS software.

Connect Florida continues to utilize a customized online survey hosted through SurveyMonkey, with a landing page on the Connect Florida website that was developed during the first reporting period. This survey, in combination with a customized data-gathering spreadsheet, was distributed to a targeted list of CAI throughout the state. Connect Florida will continue to use these data-gathering tools for future targeted outreach efforts throughout the coming months leading up to the next reporting period. These materials are customized to fit the CAI categories as defined in the SBI NOFA.

The survey can be accessed at this link using the following password:

http://connect-florida.org/mapping/Community_Anchor_Institution_Data_Collection.php

Password: CAI_FL_7864

Connect Florida and the Florida Department of Management Services have worked closely together during this reporting period to conduct research as part of an ongoing process to identify existing, centralized sources for CAI connectivity data and contact information specifically focusing on the education sector. Connect Florida has developed a key relationship with the Florida Office of Independent Education and received a contact database for approximately 2,300 private schools within the state. Connect Florida distributed the CAI survey to each contact and will continue follow-up over the coming months to continue to secure data from the private school sector to serve as a comparison to the data we have already collected from public schools across the state.

In tandem with these efforts to identify existing data and contact information, Connect Florida continues to identify key CAI contacts in an effort to distribute and promote the online survey and raise awareness of the importance of CAI broadband connectivity. Connect Florida will continue to work with the Florida Department of Management Services over the next reporting period to identify new contacts and perform outreach to all contacts who have previously submitted data to the state. Efforts will be focused over the next reporting period to update all datasets, where applicable, that were previously submitted as part of the project.

Connect Florida has an ongoing mission to educate CAI throughout the state on the importance of participating in the project. Participation by these institutions will raise awareness about the importance of broadband connectivity and the need to report the requested data for inclusion on the National Broadband Map. Connect Florida will work with the Florida Department of Management Services over the next reporting period to identify new outreach methods that would be beneficial to the project.

A CAI summary of all processed and submitted data is provided below:

CAI Type	Total	Physical Address	Lat/Long	Technology of Transmission	Download Speed	Upload Speed
K-12	5,405	5,404	5,390	261	257	230
Libraries	923	911	917	534	560	97
Healthcare	3,890	3,889	3,888	170	164	159
Public Safety	3,908	3,904	3,902	1,133	1,157	1,142
Higher Ed Institutions	351	351	351	38	58	56
Other Government	3,100	3,092	3,098	2,796	2,773	2,728
Other Non-Government	679	678	665	34	31	18
Total	18,256	18,229	18,211	4,966	5,000	4,430

SBI DATA SUBMISSION METHODOLOGY

The submission of the broadband dataset for October 1, 2011, is contained within the SBI Data Transfer Model and additional components as released on the Grantee Workspace on June 30, 2011. Connected Nation has reviewed all literature that relates to the release and use of this data transfer model and recognizes that it does not replace or dictate how data is stored, processed, or displayed for the state, as it is meant primarily as a means to transfer the broadband data from all states and territories and populate the National Broadband Map in a seamless fashion. Guidance from the Technical Mapping Guide, as released on the Grantee Workspace on March 24, 2011, was also followed to ensure the completeness and validity of the submission through completion steps and checklists, completing the DataPackage spreadsheet, uploading broadband datasets into the Data Transfer Model, and checking the dataset using the SBDD_CheckSubmission receipt process.

As part of the ongoing review and analysis process, NTIA has requested further information in the submission of the DataPackage spreadsheet. In addition to the information on providers whose coverage and accompanying attributes are submitted in the SBI Data Transfer Model, information on other providers that are considered to be non-viable is also included in the DataPackage. Providers deemed non-viable that have been excluded from continued outreach may have been eliminated for reasons such as (i) the company offers Internet service but at speeds below the current definition of broadband; (ii) the company was listed in advertisements as a broadband provider, but is actually a network solution or consulting firm, etc.; (iii) the company may build or install network infrastructure, but does not actually provide the broadband service to consumers;

and (iv) the company has gone out of business. The submitted DataPackage includes any relevant information that has been obtained through the course of due diligence and/or direct provider outreach, such as a Federal Registration Number (if applicable), the company's URL, the existence of an executed Nondisclosure Agreement, and brief notations regarding the status of the company.

In addition to the methodologies contained herein, as well as the DataPackage.xls containing contact information, the data dictionary, and a provider summary table, the following feature classes are submitted within the SBI Data Transfer Model for the state of Florida.

Inventory of Deliverables, Connect Florida: October 1, 2011

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Appendix A: 1(a)(ii)	BB_Service_RoadSegment	Broadband Service Availability of Facilities-Based Providers by Road Segment in Census Blocks Larger in Area Than Two Square Miles.
Appendix A: 1(b)	BB_Service_Wireless	Broadband Service Availability of Wireless Services Not Provided to a Specific Address.
Appendix A: 3(b)	BB_ConnectionPoint_MiddleMile	Broadband Service Infrastructure Middle-Mile and Backbone Interconnection Points.
Appendix A: 4	BB_Service_CAInstitutions	Community Anchor Institutions-Listing.

The provider data collected by Connected Nation on behalf of the state of Florida have been formatted per the given specifications and uploaded into the appropriate feature classes of the SBI Data Transfer Model. Wireline availability is contained within census blocks and road segments, wireless availability is contained as polygons of coverage areas, and middle-mile connections and Community Anchor Institutions are contained as point data. All speed data is contained at the census block, road segment, or wireless polygon level of availability. All efforts have been made to comply with formatting, domain, and metadata requirements to include as much information as possible.

Connected Nation has continued outreach to satellite providers on their availability, technology, and speed information, but granular coverage is not yet available. Submitted within the wireless feature class are the satellite companies providing service to Florida as a polygon of the state boundary. Efforts will continue to collect, process, or otherwise create more granular satellite data based on availability analyses and guidance received from NTIA.

PROVIDER CHANGES AND CORRECTIONS FOR OCTOBER 2011

As requested by the SBI Program Office, a listing of the changes and/or corrections to the datasets between the April 2011 and October 2011 submissions is included in this narrative. This information is presented in this section as well as in the Broadband Provider Log. Changes to the data include expansion of service area(s), activation of new wireless towers, and upgrades to the network to provide higher download speeds to consumers. Corrections to the dataset include the addition of previously existing providers whose coverage has never been submitted, revision of coverage or speed information that was incorrect, and any other items that were misrepresented in the April 2011 dataset.

Changes

- Bright House Networks (cable): System upgrade to DOCSIS 3.0.
- ITS Telecommunications Systems, Inc. (fiber): Upgrade to network, expansion of service area.

Corrections

- Broadband South (fixed wireless): Provider offered service prior to this submission, but this is the first time data has been submitted.
- ITS Telecommunications Systems, Inc. (DSL): Boundary for DSL coverage was revised.
- Knology of Florida (cable): Provider was included for the first time in the October 2011 submission because we did not have its participation previously.
- Long Hammock Wireless, Inc. (fixed wireless): Provider was in service prior to this submission, but this is the first time data has been submitted.
- Northeast Florida Telephone Company (fiber): Boundaries for FTTH coverage were revised.
- Northeast Florida Telephone Company (DSL): Boundary for DSL coverage was revised.
- The Hometown Network, Inc. (fixed wireless): Fixed wireless coverage changed to actual propagations to replace the concentric circle polygon used previously.
- PDMNet (fixed wireless): Provider is being submitted for the first time with the October 2011 submission. Data was received for prior submissions but never received approval; October 2011 provider was non-responsive.
- Smart City Telecommunications LLC (DSL, fiber): Provider is being submitted for the first time with the October 2011 submission. Data was received for April 2011 submission but never received approval; October 2011 provider was non-responsive.

Changes and/or Corrections – Entirely New Dataset Submitted

- AT&T Inc. (DSL, mobile wireless)
- CenturyLink (DSL)
- Clearwire Corporation (mobile wireless)
- Comcast Cable Communications, LLC (cable)

- CoxCom Inc. (cable)
- GTC, Inc. (DSL)
- Quincy Telephone Company (DSL)
- Sprint Nextel Corporation (mobile wireless)
- T-Mobile USA, Inc. (mobile wireless)
- Verizon Florida LLC (DSL, fiber, mobile wireless)
- Windstream Communications (DSL)

FLORIDA FIELD VALIDATION METHODOLOGY

Connected Nation focused a portion of its time on specific validation processes such as:

- conducting random spectrum analysis studies throughout the state using an Avcom PSA-37-XP spectrum analyzer;
- conducting mobile speed tests throughout the state using an iPhone, Android (or other smart phone) as well as provider-specific aircards (Sprint 3G/4G, Clearwire et al);
- identifying pre-selected, provider-submitted wireless transmit tower sites and cross-referencing data about that tower against the Federal Communications Commission (FCC) databases such as Antenna Structure Registration and/or the Universal Licensing System;
- cross-referencing Federal Registration Number data against available FCC Form 477 data as well as the FCC **CO**mmission **RE**gistration System (CORES);
- validating provider submitted data (for example: latitude/longitude) using a handheld Garmin eTrex Summit GPS unit or GPS enabled software such as Microsoft Streets and Trips;
- locating physical wire-line attributes (such as Remote Terminals, CATV plant, etc.) and comparing them against provider submitted data; and
- conducting on-net and off-net speed tests using the FCC portal at <http://www.broadband.gov/qualitytest/about/> or using the Ookla Net Metrics enabled speed test utility located on each of Connected Nation's state specific websites.

Additionally, Connected Nation cross-referenced numerous public documents in order to ensure that all known broadband providers were located and contacted. This included searching membership logs from the trade associations (WISPA, WCAI, PCIA, etc.), the Cable Television Fact Book, Public Utility Commission records, Public Service Commission records, Chamber of Commerce, etc.

To date, Connected Nation's staff conducted on-site validation tests in Florida on the following providers: Airpowered; AT&T, Inc.; Bright House Networks LLC; Broadband South (d.b.a. Mainstreet Broadband LLC); Cellular South, Inc.; CenturyLink; City of Quincy (d.b.a. QuincyNet and TDS Telecom); Clearwire Corporation; Comcast; Frontier Communications; GTA, Inc. (d.b.a.

Fairpoint Communications, Inc.); MediaCom; MetroPCS; Northeast Florida Telephone Company (d.b.a. NEFCOM); Orlando Telephone Company; PCI Wireless; SouthernLight LLC; Spring Nextel Corporation; Summit Broadband; T-Mobile USA, Inc.; tw telecom; and Verizon Florida LLC. From program initiation through this reporting period, Connected Nation has completed in-the-field validation testing against 24 companies (out of a universe of 75 viable providers) totaling 32 percent within the state of Florida.

Connected Nation has also continued to review provider datasets for accurate speed information, platform listings, and other intricacies that may fall outside of the standard SBI Data Transfer Model parameters. Any providers whose submitted coverage and attributes are anticipated to come into question have been further reviewed and confirmed; details on a case-by-case basis are presented below.

Bright House Networks

Issue: Technology of transmission 40 with maximum advertised download speed in tier 7, lower than expected value range for the technology.

Resolution: Provider representative indicated that all coverage is DOCSIS 3.0, including areas where lower speeds are offered.

CenturyLink

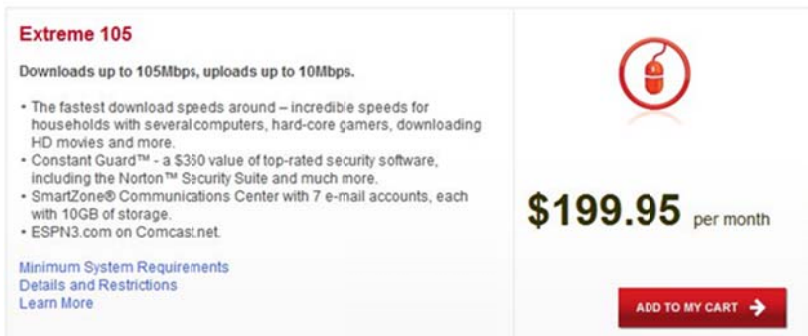
Issue: DSL platform with maximum advertised download speed in tier 9, higher than expected value range for the technology.

Resolution: Provider representative indicated that tier 9 DSL service is indeed available, but to less than 10% of its customers, which is why it is not widely advertised.

Comcast

Issues: 1) Technology of transmission 40 with maximum advertised download speeds in tier 6 and 7, lower than expected value range for the technology; and 2) Technology of transmission 41 with maximum advertised speed tiers 9 and 10, higher than expected value range for the technology.

Resolution: Provider website advertises 105 Mbps; screenshot available below. However, additional input from provider on the technology listings and corresponding speed tiers was not received prior to the submission; dataset submitted as-is and work will continue to provide more accurate dataset in April 2012.



The screenshot shows the Comcast website for the 'Extreme 105' service. The header 'Extreme 105' is in red. Below it, the text reads 'Downloads up to 105Mbps, uploads up to 10Mbps.' A bulleted list of features includes: 'The fastest download speeds around – incredible speeds for households with several computers, hard-core gamers, downloading HD movies and more.', 'Constant Guard™ - a \$350 value of top-rated security software, including the Norton™ Security Suite and much more.', 'SmartZone® Communications Center with 7 e-mail accounts, each with 10GB of storage.', and 'ESPN3.com on Comcast.net'. On the right side, there is a red mouse cursor icon, the price '\$199.95 per month', and a red 'ADD TO MY CART' button with a right arrow. At the bottom left, there are links for 'Minimum System Requirements', 'Details and Restrictions', and 'Learn More'.

Cox Communications

Issue: Large provider with the same maximum advertised speeds across the entire state; more granular speed information requested.

Resolution: Provider representative indicated that equipment in use allows for uniform speed availability across the state.

The Hometown Network

Issue: Fixed wireless provider with maximum advertised download speed in tier 7, higher than expected value range for the technology.

Resolution: Provider website advertises service at 10 Mbps, screenshot available below.

**ACCURACY AND VERIFICATION: PROVIDER VALIDATION METHODOLOGY**

Broadband providers maintain their service area data in many different formats, all in varying levels of complexity and granularity. In order to ensure that the data required by the NTIA is standardized across all providers and that it is as accurate as possible, Connected Nation translates and formats the data that providers are able to supply into a GIS shapefile and produces maps for the provider to review. The resulting map(s) and review process allow for providers to see their service area in a geographic format – for some providers, this is the first time they have seen maps of their broadband service area. Having the mapped service area allows providers to quickly identify any issues that appear in the data representation, whether the issue is in the data translation into a GIS format or from the original data collection and submission. Often data is provided from various sources and through the review and revision process, local engineers who operate the networks and work in the field are able to ensure that the tabular data that has been submitted is accurate and

represents the real-world network extent. Any issues in how the service area is represented on the map(s) are remedied by Connected Nation, whether they are additions, removal of service, or any other revisions. Revised maps of service area representations are sent to the provider for review and approval; Connected Nation will revise data and return maps as many times as necessary until the provider is in agreement that the map represents their service area as accurately as possible. Once the review process has been completed and final approval of the data is provided, the data is deemed ready for NTIA submission.

Once the data collection has been aggregated at a statewide level, static maps of statewide and county-level availability are produced and made publicly available. In addition, consumers can visit the interactive online tool, BroadbandStat, to create customized views of broadband service areas and analyze corresponding demographic information. Leveraging broadband service data on various platforms allows for public users, providers, and other stakeholders to review, scrutinize, and provide feedback on the represented data. This feedback becomes a validation method in itself as consumers submit inquiries to Connected Nation either affirming where service is not available or identifying areas where broadband service is shown on the map, but in actuality is not available. This allows for a follow-up to providers regarding revisions to the data as it is represented; it also allows for Connected Nation to identify locations where on-site visits may be necessary to complete field validation of available services. Public feedback on all forms of mapping products serves as a localized validation method for provider-supplied information and allows Connected Nation to resolve inaccuracies as they are identified to ensure that only the highest quality information is provided to stakeholders.

Estimates derived from provider-validated data indicate that approximately 2.63 percent of Florida households do not have terrestrial fixed broadband service available, and approximately 0.38 percent¹ of Florida households have neither mobile nor fixed broadband service available.²

Within rural areas of the state, results derived from provider-validated data indicate that approximately 3.34 percent of rural Florida households do not have terrestrial fixed broadband service available, and approximately 0.17 percent³ of rural Florida households have neither mobile nor fixed broadband service available.⁴ Please note that the availability estimates presented are based on Census 2000 household information; these figures will be updated in the near future with Census 2010 household information.

¹ In accordance with NTIA's definition of available broadband service as specified in the SBI NOFA, this estimate includes both terrestrial fixed *and* mobile broadband service, if the service offers download speeds of at least 768Kbps and upload speeds greater than 200Kbps.

² Due to the nature of the SBI data collection methodology as defined by the NTIA and based on both census block geographic units and street segment data, the estimates of broadband availability derived from provider-validated data may include an overstatement of the actual number of households with broadband availability. Under the census block-based data collection method, a provider will typically report broadband availability for an entire census block whether its network is present across the whole or only a subset of that census block. This potential overestimation at the census block level can be amplified as the data is aggregated across the entire state.

³ See footnote 1.

⁴ See footnote 2.

WIRELESS METHODOLOGY

Broadband Service Availability in Provider's Service Area Wireless Services Not Provided to a Specific Address

Data solicited from a fixed wireless provider to create propagation models include, but are not limited to:

1. The name of the structure
2. Whether the transmitting device is operational or proposed
3. The maximum advertised downstream speed, the maximum advertised upstream speed
4. The typical downstream speed, the typical upstream speed (peak periods for both)
5. The frequency range of spectrum being used (as prescribed by NTIA)
6. The primary population center(s) being served (for geopolitical boundary reference)
7. The physical address of the transmit site (in the event latitude/longitude is unavailable from the provider this allows a quick reference point for geocoding)
8. Latitude in either Degrees, Minutes and Seconds and/or in Decimal Degrees (typically received as NAD 27 or NAD 83)
9. Longitude in either Degrees, Minutes and Seconds and/or in Decimal Degrees (typically received as NAD 27 or NAD 83)
10. Antenna pattern (e.g. omni-directional, 180°, 120°, 90°, etc.)
11. Azimuth of antenna (e.g. 360° with magnetic declination if known)
12. Approximate transmit radius (in feet, miles, or kilometers)
13. Polarity of transmit antenna (Vertical or Horizontal)
14. Transmit antenna gain (in dBi)
15. Line loss (applicable only to providers using coax, heliax, waveguide or other forms of cabling – excludes power-over-Ethernet devices)
16. Mechanical and/or Electrical beam tilt (if applicable)
17. Equipment Manufacturer (allows easy cross-reference against manufacturer's specification sheet)
18. Power output of the transmitting device (if unknown, FCC standards or manufacturer specifications are applied)
19. AMSL at base of tower site
20. Antenna centerline AGL (height of antenna above ground level measured at the centerline of the actual antenna)
21. Foliage factors (Evergreens/Deciduous and percent of ground cover)
22. Ground Clutter (primarily used in rural areas to account for foliage and in metropolitan areas to account for types and heights of buildings if known)
23. Average gain of receive antenna
24. Receive antenna is estimated at height above average terrain (HAAT) of 6.2 meters/20 feet

25. Federal Registration Numbers (if applicable) which may allow opportunities to cross-reference and/or obtain additional data from the Federal Communications Commission Universal Licensing System and the **CO**mmission **RE**gistration **S**ystem

Propagation modeling is an empirical mathematical formulation for the characterization of radio wave propagation as a function of frequency, distance, and other conditions. Propagation software(s) typically use the Irregular Terrain Model (also known as Longley-Rice) of radio propagation for frequencies between 20 MHz and 20 GHz. This model is based on electromagnetic theory and statistical analyses of the combination of terrain features and radio measurements, then predicting the median attenuation of a radio signal as a function of distance and the variability of the signal in time and in space. For metropolitan areas, the software can typically be adjusted to use the Okumura-Hata model which accounts for predicting the behavior of cellular transmissions in areas where buildings are the primary obstructions. The resulting product from either model depicts a graphical illustration of the theoretical propagation characteristics of a selected frequency range based on defined variables (receiver sensitivity of the home/mobile device, foliage factor, and digital elevation terrain input).

After converting propagation models into a geospatial format, additional processing is completed to remove the small pixels representing service present in the resulting dataset. These areas are initially created based on the parameters entered in the software from the provider equipment information, the underlying data parameters of elevation, hillshade, etc., and the limitations of the software itself to display a broadband service area as accurately as possible. Generally, these random pixel striations appear as a result of signal levels reaching the highest elevated points within the prescribed radius. Typically, while this pixilation anomaly shows legitimate areas where signals can be received, these highly elevated points may have exceedingly sparse populations or are entirely void of population. As a result, and congruent to the *Wireless Technology Methodologies and Business Logic* white paper submitted to NTIA on January 20, 2011, all independent pixels representing service that are less than 0.125 square miles in area have been removed from the geospatial representation of each wireless provider.

BROADBAND INQUIRIES METHODOLOGY

Connected Nation collects consumer feedback in the form of broadband inquiries (BBIs). These inquiries represent any type of communication received from the public regarding broadband service. Once BBIs are received across the state, this information is overlaid with the broadband availability information which was collected through the SBI program. This allows for a real-world comparison of the broadband landscape to the information received from broadband inquiries. Consumers submitting these inbound comments and/or inquiries are able to provide information regarding three categories: 1) residents who do not have broadband but want it; 2) residents who have broadband but want a different provider; and 3) residents who do not have broadband, but the broadband inventory maps indicate that they do.

BBIs are submitted frequently by consumers via the Connect Florida website. Inquiries often seek help to identify local broadband provider options, or to learn when a specific provider may be able to provide service to that consumer. Consumer comments also provide information which may help modify maps with actual service area information. The primary objectives of Connected Nation regarding these inquiries are 1) to improve the accuracy of the state maps with submitted consumer information and follow-up field research; 2) to provide broadband options to consumers through cooperation with mapped providers and by facilitating new broadband service options; and 3) to map and analyze information from consumers about areas of unmet broadband demand and alternatives to currently mapped services.

New BBIs are assigned to either the GIS department or the Engineering & Technical Services (ETS) team depending on the category entered by the consumer on the website submission form. The GIS or ETS team members respond to each inquiry according to the information requested by the consumer. Many BBIs can be resolved through desktop research; however, if a BBI requires research in the field, the assigned ETS team member conducts such research when performing field validations in the area of the inquiry, or at other such time as is practical and appropriate. GIS and ETS team members respond to and conclude BBIs via telephone contact and/or e-mail communication.

The broadband inquiry process has been implemented in each of the Connected Nation state programs with successful results. Altogether Connected Nation has received over 17,000 broadband inquiries since 2007, allowing the state programs to evaluate each inquiry for broadband demand and data verification. These inquiries are continuously examined against current broadband availability, updated every six months, to determine if previously unserved households have been expanded to and can now receive broadband at their residence. This database of broadband inquiries has also allowed the Connected Nation state programs to aggregate demand in concentrated areas to show providers the exact locations where the population has made it clear that they would purchase broadband if it was made available to them. Providers in the states have responded to this process and have expanded to areas knowing that their investment will be worthwhile. Data verification methods have also proven successful, as the state programs have been able to show those inquiries that indicate the broadband service areas are misrepresented on the map to providers, who then verify where service cannot reach in regard to that residence(s). The broadband coverage in these states has been altered to create a more accurate map based on the inquiries submitted by the public.

During this reporting period, the Connect Florida project has received a total of 7 inquiries (22 grant inception to date). As more inquiries are submitted to Connect Florida, a more thorough validation of the broadband landscape can be performed, while also allowing providers to see which areas have a high demand for broadband adoption.

BROADBANDSTAT METHODOLOGY

BroadbandStat is an online, interactive mapping tool for viewing, analyzing, and validating broadband data. Developed through a partnership with ESRI, the market leader in geographic information system (GIS) software, BroadbandStat is a multi-functional, user-friendly way for local leaders, policymakers, consumers, and technology providers to devise a plan for the expansion and adoption of broadband.

First and foremost, BroadbandStat allows consumers to locate their residence and identify providers that offer broadband Internet service to that location. The interactive platform allows for users to build and evaluate broadband expansion scenarios using a wealth of data, including education and population demographics, broadband availability, and research about the barriers to adoption.

New functionality in BroadbandStat allows the consumer to provide feedback on the broadband data displayed on the interactive map. Through the collection of this feedback, a visual demand for broadband is presented. This visualization allows the Connected Nation state programs the ability to validate the broadband availability for accuracy. If residents within a region state they are without broadband, but the interactive map shows otherwise, this allows Connected Nation to approach the providers within that area in an effort to trim down their coverage to more accurately represent real-world availability on the ground.

The Connect Florida project launched BroadbandStat on May 2, 2010, and has received a total of 1,706 visits to date, of which 559 occurred this reporting period.

SPEED TEST METHODOLOGY

The 91 speed tests that are represented in the Connect Florida Speed Test Report during this reporting period (497 grant inception to date) are the result of a partnership between Connected Nation and Ookla Net Metrics. Utilizing this relationship increases the level of confidence in the data being collected and provides for a far greater sample size than could be collected by a single testing site.

Ookla owns and operates Speedtest.net, as well as develops and deploys speed tests, such as the Connect Florida speed test website, for partners around the world. This network of sites that is developed and run on its testing technology provides Ookla with a vast dataset that, due to the variability of geographic information collected across the varying speed test sites, is geocoded utilizing Geo-IP technology. This technology allows for tests to be geocoded to points of aggregation, typically larger nodes across provider networks. While there are hundreds of thousands of tests that have been conducted, the level of aggregation is only sufficient for county-level detail due to the test results being located at these larger nodes and not at an absolute location for each speed test.

In an effort to validate broadband data from the Connect Florida project, speed test information is collected throughout the state. Speed tests provide speed information on the path taken through all networks (a provider's network as well as additional networks) a local machine must connect to in order to reach the host test. The benefit of this collection of speed information is two-tiered. First, it allows for a comprehensive dataset of speeds, while also providing Connect Florida with the information on where broadband services are available. Second, unlike theoretical speed information which was received through the data collection process, the use of speed tests provide real-world information on the speeds that currently exist within the state of Florida.



Broadband Provider Log

Complete	62
Non-Responsive/Refused	29
In Progress	8
Count of Datasets by Status	99
Total Unique Providers Represented	75

Provider Name	Platform	Status	NDA Execution Date	Notes
AT&T Inc.	Mobile Wireless	Data Added to Statewide Inventory	12/16/2009	[SEP-02-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
AT&T Inc.	DSL	Data Added to Statewide Inventory	12/16/2009	[SEP-02-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
Bright House Networks, LLC	Cable	Data Added to Statewide Inventory	4/26/2010	[SEP-14-11 Amanda Bentley] Change: System upgrade to DOCSIS 3.0.
Broadband South	Fixed Wireless	Data Added to Statewide Inventory		[SEP-16-11 Ashley Littell] Correction: Provider offered service prior to this submission, but this is the first time data has been submitted.
CenturyLink	DSL	Data Added to Statewide Inventory	12/4/2009	[AUG-17-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
Clearwire Corporation	Mobile Wireless	Data Added to Statewide Inventory	3/3/2010	[AUG-11-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
Comcast Cable Communications, LLC	Cable	Data Added to Statewide Inventory	12/7/2009	[AUG-29-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
CoxCom Inc.	Cable	Data Added to Statewide Inventory	1/29/2010	[SEP-02-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
GTC, Inc.	DSL	Data Added to Statewide Inventory	1/28/2010	[AUG-25-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
ITS Telecommunications Systems, Inc.	Fiber	Data Added to Statewide Inventory	4/28/2010	[SEP-02-11 Amanda Bentley] Change: Upgrade to network, expansion of service area.
ITS Telecommunications Systems, Inc.	DSL	Data Added to Statewide Inventory	4/28/2010	[SEP-02-11 Amanda Bentley] Correction: Boundary for DSL coverage was revised.
Knology of Florida, Inc.	Cable	Data Added to Statewide Inventory	7/13/2011	[AUG-25-11 Amanda Bentley] Correction: Provider was included for the first time in the October 2011 submission because we did not have their participation previously.
Long Hammock Wireless, Inc.	Fixed Wireless	Data Added to Statewide Inventory		[SEP-16-11 Ashley Littell] Correction: Provider was in service prior to this submission, but this is the first time data has been submitted.
Northeast Florida Telephone Company	Fiber	Data Added to Statewide Inventory	4/16/2010	[SEP-02-11 Amanda Bentley] Correction: Boundaries for FTTH coverage were revised.
Northeast Florida Telephone Company	DSL	Data Added to Statewide Inventory	4/16/2010	[SEP-02-11 Amanda Bentley] Correction: Boundary for DSL coverage was revised.
Quincy Telephone Company	DSL	Data Added to Statewide Inventory	1/27/2010	[AUG-18-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
Sprint Nextel Corporation	Mobile Wireless	Data Added to Statewide Inventory	1/14/2010	[AUG-11-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
T-Mobile USA, Inc.	Mobile Wireless	Data Added to Statewide Inventory	1/8/2010	[AUG-11-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
The Hometown Network, Inc.	Fixed Wireless	Data Added to Statewide Inventory	5/5/2010	[SEP-02-11 Amanda Bentley] Correction: Fixed wireless coverage changed to actual propagations to replace the concentric circle polygon used previously.
Verizon Florida LLC	Fiber	Data Added to Statewide Inventory	12/14/2009	[AUG-24-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
Verizon Florida LLC	DSL	Data Added to Statewide Inventory	12/14/2009	[AUG-24-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
Verizon Florida LLC	Mobile Wireless	Data Added to Statewide Inventory	12/14/2009	[AUG-11-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.

Windstream Communications	DSL	Data Added to Statewide Inventory	1/19/2010	[AUG-26-11 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2011 submission.
CenturyLink	Backhaul	Backhaul Provider Only Processing Complete	12/4/2009	
EarthLink Business	Backhaul	Backhaul Provider Only Processing Complete	2/16/2010	
Fort Pierce Utilities Authority	Backhaul	Backhaul Provider Only Processing Complete	5/27/2011	
Level 3 Communications, LLC	Backhaul	Backhaul Provider Only Processing Complete	12/14/2009	
Sago Networks, Inc.	Backhaul	Backhaul Provider Only Processing Complete		
Southern Light	Backhaul	Backhaul Provider Only Processing Complete	6/16/2010	
T-Mobile USA, Inc.	Backhaul	Backhaul Provider Only Processing Complete	1/8/2010	
Windstream Communications	Backhaul	Backhaul Provider Only Processing Complete	1/19/2010	
PDMNet	Fixed Wireless	Approval for Update Not Received – Data Still Submitted	4/20/2010	[SEP-8-11 Amanda Bentley] Correction: Provider is being submitted for the first time with the October 2011 submission. Data was received for prior submissions but never received approval; October 2011 provider was non-responsive.
Smart City Telecommunications LLC	Fiber	Approval for Update Not Received – Data Still Submitted	6/24/2010	[SEP-8-11 Amanda Bentley] Correction: Provider is being submitted for the first time with the October 2011 submission. Data was received for April 2011 submission but never received approval; October 2011 provider was non-responsive.
Smart City Telecommunications LLC	DSL	Approval for Update Not Received – Data Still Submitted	6/24/2010	[SEP-8-11 Amanda Bentley] Correction: Provider is being submitted for the first time with the October 2011 submission. Data was received for April 2011 submission but never received approval; October 2011 provider was non-responsive.
airPowered	Fixed Wireless	No Update to Provide	2/17/2011	
AT&T Inc.	Backhaul	No Update to Provide	12/16/2009	
Cellular South, Inc.	Mobile Wireless	No Update to Provide	4/12/2010	
CenturyLink	Backhaul	No Update to Provide	12/4/2009	
City of Leesburg, Florida	Backhaul	No Update to Provide		
CoxCom Inc.	Backhaul	No Update to Provide	1/29/2010	
DISH Network Corporation	Satellite	No Update to Provide	1/27/2010	[SEP-16-11 Amanda Bentley] Correction: Satellite data is being submitted and was not included in the April 2011 submission. While coverage is currently the entire state boundary, work continues on having more granular data available.
Florida LambdaRail LLC	Backhaul	No Update to Provide	4/29/2010	
FPL FiberNet LLC	Backhaul	No Update to Provide	6/3/2010	
Frontier Communications Corporation	DSL	No Update to Provide	1/22/2010	
Frontier Communications Corporation	Backhaul	No Update to Provide	1/22/2010	
Gainesville Regional Utilities	Backhaul	No Update to Provide		
Hughes Network Systems, LLC	Satellite	No Update to Provide	2/5/2010	[SEP-16-11 Amanda Bentley] Correction: Satellite data is being submitted and was not included in the April 2011 submission. While coverage is currently the entire state boundary, work continues on having more granular data available.
Mediacom Southeast LLC	Cable	No Update to Provide	1/12/2010	
MegaPath Inc.	Backhaul	No Update to Provide	2/15/2010	
Nextlink Wireless, Inc.	Backhaul	No Update to Provide	2/12/2010	
Quincy Telephone Company	Backhaul	No Update to Provide	1/27/2010	
Quincy, City of	Fiber	No Update to Provide		
Sprint Nextel Corporation	Backhaul	No Update to Provide	1/14/2010	
tw telecom of florida, l.p.	Backhaul	No Update to Provide	4/22/2010	
Velocity Online	Backhaul	No Update to Provide	4/8/2010	
Verizon Florida LLC	Backhaul	No Update to Provide	12/14/2009	
WildBlue Communications, Inc.	Satellite	No Update to Provide	1/8/2010	[SEP-16-11 Amanda Bentley] Correction: Satellite data is being submitted and was not included in the April 2011 submission. While coverage is currently the entire state boundary, work continues on having more granular data available.
XO Communications, LLC	Backhaul	No Update to Provide	2/12/2010	
Advanced Cable Communications	Cable	No Update Provided - Use Last Submission Data	4/16/2010	
Cogent Communications, Inc.	Backhaul	No Update Provided - Use Last Submission Data		
Home Town Cable TV, LLC	Fiber	No Update Provided - Use Last Submission Data	4/21/2010	
Orlando Telephone Company, Inc.	Fiber	No Update Provided - Use Last Submission Data		
Orlando Telephone Company, Inc.	Cable	No Update Provided - Use Last Submission Data		
Orlando Telephone Company, Inc.	Backhaul	No Update Provided - Use Last Submission Data		
T3 Communications	Backhaul	No Update Provided - Use Last Submission Data	6/3/2010	
ClearSurf Broadband	Fixed Wireless	Provider Gathering Data	5/3/2010	
MegaPath Inc.	Backhaul	Solicited Initial Data	2/15/2010	[SEP-08-11 Wes Kerr] Still working to understand post merger network and if any data will be provided in the future.

Clearwire Corporation	Fixed Wireless	Other	3/3/2010	[AUG-11-11 Terry Holmes] Clearwire converted their last fixed wireless network in Florida to mobile wireless during the last reporting cycle. There is no remaining fixed wireless in Florida to report.
Nature Coast Networks	Fixed Wireless	Other		[JUN-18-11 Chip Spann] Due to current litigation, provider is embargoed from providing data at this time.
PAETEC Communications, Inc.	Backhaul	Other		[SEP-08-11 Wes Kerr] Multiple outreach attempts were conducted but no response was received. Paetec was bought out during the collection phase of this round by Windstream and we intend to be able to include the Paetec coverage as a part of the Windstream footprint during the next round.
PAETEC Communications, Inc.	DSL	Other		[SEP-08-11 Wes Kerr] Multiple outreach attempts were conducted but no response was received. Paetec was bought out during the collection phase of this round by Windstream and we intend to be able to include the Paetec coverage as a part of the Windstream footprint during the next round.
PAETEC Communications, Inc.	Fixed Wireless	Other		[SEP-08-11 Wes Kerr] Multiple outreach attempts were conducted but no response was received. Paetec was bought out during the collection phase of this round by Windstream and we intend to be able to include the Paetec coverage as a part of the Windstream footprint during the next round.
PAETEC Communications, Inc.	Backhaul	Other		[SEP-08-11 Wes Kerr] Multiple outreach attempts were conducted but no response was received. Paetec was bought out during the collection phase of this round by Windstream and we intend to be able to include the Paetec coverage as a part of the Windstream footprint during the next round.
Birch Communications, Inc.	DSL	Refused to Participate		[JUN-22-11 Daryl Coffey] a company representative sent an e-mail stating they are still not interested in participating.
Birch Communications, Inc.	Backhaul	Refused to Participate		[JUN-22-11 Daryl Coffey] a company representative sent an e-mail stating they are still not interested in participating.
CyberStreet Inc.	Fixed Wireless	Refused to Participate		[APR-14-10 Jill Lindgren] Provider relayed his wishes not to participate and requested we not call again.
561net	Fixed Wireless	Non-Responsive to Multiple Attempts		4 contact attempts were made between May 25, 2011 and August 5, 2011.
AreYouOnline.Net	Fixed Wireless	Non-Responsive to Multiple Attempts		4 contact attempts were made between May 25, 2011 and August 11, 2011.
Break Free Wireless Corporation	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between May 25, 2010 and February 4, 2011, 3 additional attempts were made this period.
Brevard Wireless	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between May 6, 2010 and March 8, 2011, 3 additional attempts were made this period.
Cablevision of Marion County LLC	Cable	Non-Responsive to Multiple Attempts		In addition to contact attempts made between July 1, 2010 and January 13, 2011, 3 additional attempts were made this period.
CommFunction, LLC	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between October 9, 2010 and February 18, 2011, 3 additional attempts were made this period.
CommFunction, LLC	DSL	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between October 9, 2010 and February 18, 2011, 3 additional attempts were made this period.
Desoto Life	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to contact attempts made between August 17, 2010 and January 5, 2011, 3 additional attempts were made this period.
FiberLight LLC	Backhaul	Non-Responsive to Multiple Attempts	4/19/2010	In addition to multiple contact attempts made between May 26, 2010 and February 15, 2011, 5 additional attempts were made this period.
GBS Online	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between May 12, 2010 and February 18, 2011, 3 additional attempts were made this period.
Global Crossing Telecommunications, Inc.	Backhaul	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between July 1, 2010 and February 17, 2011, 3 additional attempts were made this period.
James Cable LLC	Cable	Non-Responsive to Multiple Attempts	1/11/2010	In addition to contact attempts made between July 1, 2010 and January 5, 2011, 3 additional attempts were made this period.
KissimmeeWeb	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to contact attempts made between June 22, 2010 and February 18, 2011, 3 additional attempts were made this period.
Litestream Holdings, LLC	Cable	Non-Responsive to Multiple Attempts		4 contact attempts were made between May 14, 2011 and August 13, 2011.
Marco Island Cable, Inc.	Cable	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between June 30, 2010 and January 13, 2011, 3 additional attempts were made this period.
Omnispring LLC	Backhaul	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between May 11, 2010 and January 13, 2011, 3 additional attempts were made this period.
Palm Coast-Flagler Internet, LLC	Cable	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between July 1, 2010 and February 15, 2011, 3 additional attempts were made this period.

Rapid Systems Corporation	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to multiple contact attempts made between June 11, 2010 and February 15, 2011, 3 additional attempts were made this period.
Reliance Globalcom Services, Inc.	Backhaul	Non-Responsive to Multiple Attempts		In addition to contact attempts made between November 18, 2010 and February 3, 2011, 3 additional attempts were made this period.
SkyNet360	Fixed Wireless	Non-Responsive to Multiple Attempts		4 contact attempts were made between May 4, 2011 and August 11, 2011.
Sling Broadband	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to contact attempts made on July 1, 2010, January 5, 2011, and January 13, 2011, 3 additional attempts were made this period.