

OFFICIAL OCTOBER 2013 UPDATE SUBMISSION TO  
THE NATIONAL TELECOMMUNICATIONS AND INFORMATION  
ADMINISTRATION UNDER THE  
STATE BROADBAND INITIATIVE PROGRAM FOR THE  
STATE OF FLORIDA

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October 1, 2013

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## BROADBAND FLORIDA COVER LETTER

October 1, 2013

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 is pleased to present this submission for Florida's State Broadband Initiative (SBI) Grant Program.

These artifacts should be found to be compliant with the October 1, 2013, 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.

Within the timeframe of this reporting cycle the Florida Department of Management Services (the Department or DMS) worked closely with BroadMap, LLC through the spring and summer to improve the data collection, data analysis and verification processes. The Department experienced characteristic responsiveness and was able to successfully negotiate additional non-disclosure agreements. BroadMap and the Department worked with providers to familiarize them with the data process and the Provider Portal; an interactive tool utilized to verify and modify service coverage areas and technology information. While we did not get final data submissions from all providers in time to include with this submission, the increase in communication, the availability of the Provider Portal, the interest in the project, and willingness of the providers to submit data to the State of Florida resulted in additional data for the October 2013 submission.

The October 2013 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

The Department made every effort to contact the providers regarding data submittals and data verification with the Provider Portal to confirm or correct the individual provider's coverage map. A complete roster by provider depicting participation status is included in the narrative. This data update submission under the SBI program includes datasets for approximately 57 percent of the Florida provider community, or 47 of 82 total providers. There are additional providers

that have agreed to provide the state with data and are in the process of signing NDAs and/or collecting data. Of the 47 responsive and actively participated providers, 29 supplied an update to their network or coverage area(s), a total of 9 providers reported there was no change in their coverage area, and 9 providers missed the data received deadline including 2 responsive providers whose previous submitted data was included in the submission. There are providers who previously supplied data but were non-responsive in the October 2013 update effort; therefore their previous dataset is being put forward as part of this compilation. Of all of the providers that are not represented in the attached datasets, only 2 refused to participate in the voluntary program.

Broadband Florida believes that all reasonable efforts were made to account for 100 percent of the known Florida broadband provider community, pursuant to this semi-annual data update submission.

Broadband Florida continued to develop our state mapping tool, located at <http://map.broadbandfla.com>. It includes additional datasets not required by NTIA, a street level view widget, the ability to identify broadband coverage and providers by address, provider footprints, various speed layer views, and layer selections capability. The Department selected a vendor to develop a Broadband Florida portal that will produce a high quality product to showcase the Broadband Florida Initiatives. The new site includes pages for each of the Broadband Florida funded projects, houses the award-winning Florida Comprehensive Broadband Planning Toolbox,<sup>1</sup> various surveys to collect data, a way for consumers to contact members of the Broadband Florida team, opportunities for consumers to submit feedback, and useful historical and reference information. The portal design and functionality are complete and the site was audited by the Department's communication's team. Currently, the broadband group is working on refining content and testing links. The initial launch of the portal is scheduled for the end of October.

The Department is continually concentrating on how to make the broadband data useful to Florida citizens and government agencies. In the spring, it provided data and maps to the Florida Department of Education and the state legislature regarding broadband service coverage and speed availability for all the public schools in Florida. The schools in Florida are undertaking an assessment of their broadband infrastructure and capacity to assist with the planning and future of digital learning. Broadband Florida contributed by identifying service coverage, verifying service coverage with USACs form 471 information, identifying infrastructure, and infrastructure needs. Further, the Department is working on additional layers for the state mapping tool to include USAC information on funding by school districts, schools and libraries. Because of the engagement with the Florida Department of Education, the two agencies now meet on a bi-weekly basis to discuss the technology needs of the schools and how they can work together to provide assistance and solutions in an efficient effective manner.

#### Community Anchor Institutions

The Department continues to reach out to CAIs to obtain broadband connectivity data through

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<sup>1</sup> The Florida Comprehensive Broadband Planning Toolbox received an "Outstanding Infrastructure Plan" award in June of 2013 from the Florida Planning and Zoning Association. The award was presented to the Southwest Florida Regional Planning Council and the Central Florida Regional Planning Council (two of the three Florida planning councils that the Department contracted to create the toolbox) for the pilot project in Polk County that helped build the final product.

its relationships with other state agencies. In the spring, it worked with the Department of Education on a school survey obtaining broadband information including subscribed bandwidth and speed tests by school location for over 3,500 schools in Florida. This information is included in our October 2013 submission. The Department was able to have input in the creation of the new survey that will be distributed in a few weeks to all schools. The data will be available in January 2014, and will be included in our April 2014 submission. Additionally, BroadMap provided a screen scraper utility which directly obtains information from the USAC database to add information to the CAI list as well.

The Department recognizes the role that statewide associations play in promoting the importance of broadband connectivity at anchor institutions and participation in this data collection process. The Department will continue to build upon the relationships over the coming months and to utilize its contacts throughout the state to collect data and raise awareness of this project.

We appreciate the chance to participate in the SBI project and believe that the projects have and will create opportunities for citizens of Florida throughout all regions and demographic categories in the state. We plan to continue to bring best practice to our 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.

If you have any questions about this data narrative, please do not hesitate to contact me, at (850)-921-1648.

Respectfully submitted,

Tabitha Hunter  
Director of Broadband Programs  
Department Management Services  
State of Florida

## SBI DATA SUBMISSION METHODOLOGY

The submission of the broadband dataset for October 1, 2013, is contained within the SBI Data Transfer Model (June 2013 Data) as released on the NTIA State Broadband Initiative wikispace. Broadband Florida (the Department of DMS and BroadMap) 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 Data Tools, on the NTIA State Broadband Initiative wikispace, as well as the submission webinar, was also followed to ensure the completeness and validity of the submission.

As the NTIA requested the provider worksheet page to reflect only the providers included in the geodatabase submission, a table that summarizes the status of all providers can be found at the end of the narrative. Providers deemed non-viable that were excluded from continued outreach were 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 went out of business.

In addition to the methodologies contained herein, as well as the DataPackage.xls 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, Broadband Florida: October 1, 2013

NOFA Requirement	Data Transfer Model	Data Description
Appendix A: 1(a)(i)	BB_Service_CensusBlock	Broadband service availability of facilities-based providers. Encompassed 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 locations
Appendix A: 4	BB_Service_CAInstitutions	Community anchor institution locations

The provider data collected by Broadband Florida was 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, address point, or wireless polygon level of availability. All efforts were made to comply with formatting, domain, and metadata requirements to include as much information as possible.

Broadband Florida continued reach out to satellite providers on their availability, technology, and speed information, but focused sub-state coverage is not yet available. Included within the wireless feature class are the satellite companies providing service to Florida as a polygon of the state boundary.

## DATA GATHERING

### Provider Service Areas and Middle Mile Aggregation Points

Broadband Florida made every effort to contact the providers regarding data submittals and verification, and executed the data gathering process described below:

- Built and maintained an inventory of broadband providers through currently known providers and research.
- Inventory and everyday interaction with providers was tracked using the Provider Catalog (PCat).
- Updated provider material that describes the data requirements and logistics for data transfer.
- Updated Non-Disclosure Agreements (NDA) for use in the project, where applicable.
- Maintained multiple protocols for the provider to submit data, including Secure File Transfer Protocol (SFTP) technology when desired.
- Conducted one-on-one informational discussions with each provider to communicate the following:
  - Requirements of this project.
  - Broadband data required to support the product data model.
  - Submission protocols available.
  - Capability to validate how the supplied data is aggregated.
- Downloaded/received provider data.
- Maintained provider communication, transaction, and data handling records throughout the project (dates contacted, data received, etc.).

### Community Anchor Institution (CAI)

The Department put forth considerable effort within this reporting period; to not only identify additional broadband connectivity information, but also to ensure quality of the existing dataset. The CAI data was once again audited by the Department and modified to increase accuracy. Additionally, the Department updated and obtained new speed data, identified and added library and school identification numbers, and identified and removed duplicate CAIs.

The CAI featureclass was enhanced to provide more broadband information overall. Broadband Florida ensured that all CAI data collected could be mapped back to the original sources through the use of unique identifiers that exist in public datasets to facilitate updates on a regular basis. The confidence level of site placement is greater as well for sites that still have unknown broadband status. Geocoding was run through multiple address locators for higher match scores.

The Department was able to obtain broadband speed survey results in the spring from the Department of Education for the 3,500 plus schools in Florida. The survey also included five speed test results conducted in each building at different times of the day. The Department obtained speed information for CAIs which utilize the Department's SUNCOM services. These CAIs were updated for any changes in speeds and additional CAIs were identified with new service. Further, the Department obtained CAI information from USACs Form 471 database.

The Department's mission is to continue to seek out CAI data resources and to promote the importance of the project to CAIs within the state. 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. The Department of Management Services will continue working to identify new outreach methods that will be beneficial to the project.

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

CAI Type	Total	Physical Address	Federal CAI ID	Latitude & Longitude	Technology of Transmission	Download Speed	Upload Speed
<b>K-12</b>	6,793	6,793	5,676	6,793	520	3,284	3,284
<b>Libraries</b>	1,065	1,065	539	1,065	520	515	515
<b>Healthcare</b>	8,585	8,585	8,471	8,585	128	128	128
<b>Public Safety</b>	3,042	3,042	368	3,042	436	438	438
<b>Higher Ed Institutions</b>	720	720	278	720	90	91	91
<b>Other Government</b>	4,892	4,892	3,500	4,892	3,978	4,082	4,082
<b>Other Non-Government</b>	312	312	312	312	304	312	312
<b>Total</b>	<b>25,409</b>	<b>25,409</b>	<b>19,144</b>	<b>25,409</b>	<b>5,976</b>	<b>8,850</b>	<b>8,850</b>

The collection of CAI information is handled through the following CAI Collection Process:

- Collect and maintain inventory of CAIs through currently known CAIs, data mining and research.
- Maintain web-based CAI portal for institutions to add or confirm attribution, location and enter broadband-specific information.
- Upload web-based data to core database for standardization.
- Perform internal quality control check, such as removing duplicate records, identifying gaps in broadband attribution and verifying category.
- Geocode CAI locations.
- Translate core database data to deliverable-ready format.



- Continue engagement with non-responsive institutions.

## DATA INTEGRATION PROCESS

The data integration and processing mechanisms currently used allows for multiple types of inputs and result in a standardized output that meets the NTIA deliverable requirements. This flexible process supports data model changes and project-requested enhancements as specified below:

- Receive inputs from providers via submission protocols; upload into a sourcing database and catalog with provider information.
- Review provider-supplied data for completeness and for potential discrepancies that require resolution prior to processing and flag as necessary.
- Categorize input into data-type category (addresses, block lists, paper maps, etc.).
- Standardize input based on data type within staging database.
- Create compact polygons (CP)—(internal methodology for generating area-based feature for coverage in staging database).
- Apply broadband attribution to CP; apply metadata to CP.
- Perform quality analysis of the CP against the source supplied to identify any completeness or accuracy issues.
- Request additional information from the provider if elements of coverage are missing or contain discrepancies. This is a second manual quality check to ensure data is complete.
- Process coverage area to build the required NTIA data model layers.

Also, providers may utilize the Provider Portal for data collection and a later validation process allowing for both activities to occur within a secure web application. During the October Submission process only a few of the providers utilized this methodology. The Provider Portal provides benefits to the data integration process and to the providers as shown:

- Each provider is assigned credentials with a strong password to ensure security measures are taken into consideration.
- Collection and confirmation of the contact information, as well as the company's DBA Name and FRN accuracy.
- Capability to review and request changes to the coverage footprint.
- The provider can add/remove portions of the footprint requesting that their footprint be increased or refined.
- Middle mile and average weighted nominal speed (AWNS) collection and validation.
- File upload functionality to support providers that would prefer a shapefile, spreadsheet, PDF, KMZ/KML file be used to reflect changes for the data round.
- Once the provider reviews completed changes to their coverage, middle mile and AWNS, it can validate them all signing off that everything is accurate.

## DATA VALIDATION AND VERIFICATION

Broadband providers maintain their service area data in many different formats, all in varying levels of complexity and resolution. The NTIA assigned various levels of classification for the

bandwidth speed and transmission technology. These classifications are not a perfect fit for all providers, but the data they submit in a variety of formats must be molded into a common framework. This framework is the geodatabase with stacked layers. A number of checks and balances must be performed to ensure that reliable data for the last six months of broadband availability in the state of Florida is submitted. These methods include (but are not limited to): provider validation, topological validation, third party data verification, public verification, speed test metrics and confidence values which occur during the data validation and verification process.

#### Broadband Provider Validation – PDF Images

All participating providers were supplied with PDF images of their coverage areas with speed information to analyze and provide feedback. If further details were needed by the providers they were able to login to the Provider Portal for an interactive coverage review and made any necessary edits. Approximately 7 providers supplied no updates from their review of the images and at least 5 corrected their coverage areas.

#### Broadband Provider Validation – Provider Portal Application

Some providers requested to use a secure interactive web application to review their current coverage area(s) and supporting broadband attribution to validate their data or submit change requests to update their data. These change requests went through the data integration process and were reviewed with the provider to complete validation.

If further detail and focus were required based on the initial feedback from the provider, Florida devoted attention to the provider for verification purposes. The resulting map(s) and review process allowed providers to see their service area in a geographic format. For some providers, this was the first time they saw maps of their broadband service area. The mapped service area allowed providers to quickly identify any issues that appeared in the data representation, whether the issue was in the data translation into a GIS format or from the original data collection and submission.

Local engineers who operate the networks and work in the field were able to ensure that the tabular data that was submitted was accurate and represented the real-world network through viewing the data on the Provider Portal. Any issues in how the service area was represented on the map(s) were remedied by Florida. With the latest release of the Provider Portal, validation on the coverage area, middle mile and average speed were completed by selecting the 'Valid' button within the Provider Portal for each coverage polygon. After approval by the provider, the spatial depiction of the data was considered a success. All validation results were tracked internally through the validation table.

#### Topological Validation

GIS data, when imported and created from a variety of sources can look pretty or it can look ugly. We try to prevent the data from looking ugly early in the process by running the resulting data from providers through a number of filters for lack of another term. The first filter is 'eyeballing' the data for inconsistencies and strange outliers. Much of the work involved with this SBI project involves geocoding. Geocoding results can literally be all over the map. The eyeballing of the geocoding results can pick up misses of machine coding return scores that would otherwise be considered valid. If left to using the address ranges on

their own, street segment creation from address ranges can produce a messy unrealistic patchwork of availability.

Another filter is transferring the data to topologically correct features. This 'conflation' process can filter out strange anomalies produced from using TIGER line files as the base for road segments. Many providers dump the TIGER line data that includes more than just roads, such as water bodies and political lines. Conflation solves the strange outlier availability by transferring the data over to road segments that are spatially accurate. The result is road segments that spatially depict where broadband infrastructure would most likely be deployed. In some cases, however, even though data is transferred over to correct roads, source data reveals only a certain segment of addresses. No matter how bad it may look, over-correcting is changing the data, so only when there is logical evidence that a road segment should be extended considerably, or cut down, will we correct the data in this manner.

The data inside an attribution table may be exported or imported with errors. Many times, data was imported only to be unusable or considerable work is needed to correct it once inside a featureclass or shapefile. It is always best to correct the data before import or loading. This type of validation can catch improper field character imports like lat/lon values that are truncated or rounded. The same can happen of census block FIPS code transfers that are not properly formatted as text. ArcGIS has a tendency to round the FIPS codes into scientific notation.

To further ensure topological validation, Florida conducted peer review on the data for each provider. Broadband Florida searched for inconsistencies and missing data and performed a thorough review of attributes and geometry. If any issues arose the provider was contacted and the data was verified and/or edited.

### Third-Party Data Verification and Web Surveys

Florida reviewed provider websites and third party data for comparison of available data with provider submitted coverages. This ensured that any corrections required were represented in the final product and the supporting documentation to the NTIA. For this submission, the third party data reviewed was provided by Media Prints, GeoTel and Mobile Pulse.

Media Prints' data was utilized to assess cable boundaries. It was determined from the review of provider coverage that Florida's database contains more detailed information than Media Prints' data by provider.

GeoTel's data was utilized to assess wireless and wireline coverage areas, fiber locations and fiber lit buildings. It was determined from the review of provider coverage and the wireline and wireless coverage areas, that a majority of the coverage areas for Florida are significantly similar for providers with no updates. However, Florida data which was updated by the providers for the October submission is not as similar to the GeoTel coverage areas. This was contributed to the update schedule between Florida NTIA submissions and GeoTel updates from providers.

Mobile Pulse's data was utilized to assess upload and download speeds by provider to compare with the speeds associated with submitted coverage areas. Mobile Pulse's data contained primarily the larger wireless providers. AT&T, Verizon, Sprint and T-Mobile coverages and speeds were consistent with Florida reported data.

Web surveying was completed to ensure the data submitted by the providers agreed with publicly available coverage areas. The online coverage maps typically agreed with the coverages supplied to Florida. One provider showed more coverage on their website than we received, however, it was verified with the provider that the additional coverage shown online was a future market. This provider further verified the coverage provided to Florida was correct for broadband availability within 7 to 10 business days.

#### Public Verification and Crowd Sourcing

The layers deemed suitable for public viewing by the NOFA were incorporated into the interactive Broadband Florida map site. Public display of the layers on the Florida map site allowed the general public the opportunity to provide feedback to Florida. The map includes functionality to collect feedback on the provider's coverage areas, as well as run a speed test. The feedback and speed results were collected and reviewed with the providers prior to the data submission to identify if any map refinement was required. Further, Mobile Pulse's data was utilized to display crowd sourcing results internally. This third party data was compared to the provider coverage and determined that the coverages and speeds were consistent with Florida reported data.

#### Speed Test Verification

Broadband Florida continued its subscription with Ookla of a website speed test application which gathers speed test statistics from around the state. Ookla owns and operates Speedtest.net, as well as develops and deploys speed tests 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 are 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.

#### Submission Comparison

As part of its analysis, Florida compared past submission coverages to the current submission coverage by provider and technology of transmission to review changes or updates to these areas. This provided a visual queue to identify geometry changes or possible errors in the data and allowed for Florida to contact providers for corrections or examine internal processes for processing errors. Further, the Florida data packages were compared by census block and street segment quantities to identify any major changes with coverages between submissions.

During the October 2013 submission data production cycle, the Department determined that there were changes to the road segments and census blocks between October 2012, April 2013, and October 2013 submissions for specific providers. It was identified that the changes between October 2012 and April 2013 were either due to additional coverage areas or corrections from the providers or to different data processing techniques between the October 2012 and April 2013 submissions.

April and October 2013 data processing techniques included obtaining provider data in multiple formats converting it to coverage polygons, running specific scripts in ArcGIS to check formatting, geometry, attributions, and converting the polygons into NTIA format (census block and road segments). During the detailed review of the data processing techniques, it was determined that extraneous census blocks were selected and applied to the coverage area and the number of road segments were changing between submissions. Due to these findings both the census blocks and road segments were scrutinized further.

To address the additional census blocks created by the data processing techniques, Broadband Florida assessed the October 2013 census blocks with: October 2013 coverage polygons, April 2013 and October 2012's NTIA geodatabases. The census blocks were analyzed by the percent of polygon coverage and the extraneous census blocks were identified and removed. This technique also aided in identifying topology errors with the census blocks which were also corrected.

It was also identified that census blocks containing only water (no land) were included in providers' census block coverage counts. As Florida is surrounded by water and contains numerous lakes, ponds and streams, Broadband Florida investigated further. Florida removed census blocks for wireline providers which contained only water and no land. This caused a slight decrease in providers with smaller coverage areas and more significant decreases in providers with larger coverage areas. Also, providers with coverage areas along the coast or at lower elevations saw a significant decrease.

The road segments were reviewed in greater detail as well, specifically the providers with significant numeric changes. It was determined that due to the dissolve and planarization of the road segments utilized to correct any topology errors, certain providers' road segments were segmented at road intersections. This caused an increase or decrease in the count of road segments dependent on the number of road intersections. This determination was verified when the road segment coverages were compared in ArcGIS and the coverages were similar.

### Confidence Values

All verification, validation and manual quality review results were tracked by provider/technology type and stored and maintained within a validation table. A confidence value was assigned, based on internal assessments of the collected information, to highlight the provider coverage areas and/or attributions that would benefit from further investigation and/or enhancements.

With the continued efforts on provider validation, third party verification and the release of the public interactive map with feedback collection functionality, the confidence values will continue to be utilized further to identify specific areas in need of attention.

## QUALITY CONTROL

The data was checked manually and algorithmically against the NTIA data model after collection, processing and analysis of the provider and CAI data. Some of the items included within these checks were: format correctness; table and field structure; valid values, including default values, where applicable; and geographic extent and topology errors.

## Broadband Provider Status Log

	FCC Filing Company Name	DBA or Common Name	Provider Type: Broadband=1, Reseller=2, Other=3, N/A=4	FRN	Viable Provider for Data Acquisition	Data Included in Submission	Responsive				Non-Responsive	
							Refused to Participate	Submitted Updated Data	No Change in Data	Missed Deadline	Data from previous submission included	No Data Included
1	N/A	561Net.com	4	9999	N	-	-	-	-	-	-	-
2	Access Communications, LLC	Access Communications, LLC	2	0013919915	N	-	-	-	-	-	-	-
3	Access Media 3, Inc.	Access Media 3, Inc.	1	0016338535	Y	N	-	-	-	Y	-	-
4	Access One, Inc.	Access One, Inc.	4	0018602458	N	-	-	-	-	-	-	-
5	N/A	Access Point, Inc.	2	9999	N	-	-	-	-	-	-	-
6	N/A	ACN Communications Services, Inc	2	9999	N	-	-	-	-	-	-	-
7	Advanced Cable Communications	Advanced Cable Communications	1	0001795798	Y	Y	-	Y	-	-	-	-
8	PowerOne	airPowered	3	0016106239	Y	Y	-	-	-	-	Y	-
9	N/A	Alternative Choice Wireless	3	9999	Y	N	-	-	-	Y	-	-
10	Altitude Communications, LLC	Altitude Communications	1	21240593	Y	N	-	-	-	-	-	Y
11	American Telephone Company LLC	American Telephone Company LLC	4	0015414642	N	-	-	-	-	-	-	-
12	N/A	AreYouOnline.net	3	9999	Y	Y	-	-	-	-	Y	-
13	AT&T Corp. AT&T Services, Inc. New Cingular Wireless Services, Inc.	AT&T Florida AT&T Florida AT&T Mobility	1	0004496774 0008644056 0001857952 0003766532 0004979233	Y	Y	-	Y	-	-	-	-
14	Atlantic Broadband (Miami), LLC Atlantic.Net Broadband, Inc.	Atlantic Broadband Atlantic.Net Broadband, Inc.	1	0009596826 0008302457	Y	Y	-	Y	-	-	-	-
15	BCN Telecom Inc	BCN Telecom Inc	2	0019066281	N	-	-	-	-	-	-	-
16	General Computer Services Inc.	BeCruising Telecom	4	0018596882	N	-	-	-	-	-	-	-
17	Birch Communications, Inc. Birch Telecom of the South, Inc.	Birch Telecom of the South, Inc.	1	0005044375 0004319299	Y	N	Y	-	-	-	-	-
18	N/A	Bluemont Networks, LLC.	3	9999	Y	N	-	-	-	-	-	Y
19	Bright House Networks, LLC	Bright House Networks	1	0007508237	Y	Y	-	-	-	Y	-	-
20	Broadcore, Inc.	Broadcore, Inc.	4	0018122523	N	-	-	-	-	-	-	-
21	Broadview Networks Holdings, Inc.	Broadview Networks Holdings, Inc.	2	0010296853	N	-	-	-	-	-	-	-
22	Cablevision Of Marion County LLC	Cablevision of Marion County LLC	1	0011406675	Y	N	-	-	-	-	-	Y



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							Refused to Participate	Submitted Updated Data	No Change in Data	Missed Deadline	Data from previous submission included	No Data Included
23	Cbeyond Communications, LLC	Cbeyond Communications, LLC	2	0003759602	N	-	-	-	-	-	-	-
24	CenturyLink, Inc. CenturyLink, Inc. Qwest Communications Company, LLC	CenturyLink	1	0018626853 0018626853 0018421941	Y	Y	-	Y	-	-	-	-
	N/A	City of Leesburg, Florida	1	0010556496	Y	Y	-	-	Y	-	-	-
26	Greenfly Networks, Inc	Clearfly Communications	4	0015808736	N	-	-	-	-	-	-	-
27	N/A	ClearSurf International, Inc.	3	9999	Y	N	-	-	-	-	-	Y
28	Clearwire Corporation	Clearwire	1	0017775628	Y	Y	-	Y	-	-	-	-
29	Cogent Communications Group	Cogent Communications	1	0019066034	Y	Y	-	Y	-	-	-	-
30	Comcast Cable Communications, Inc.	Comcast	1	0003768165 0004441663	Y	Y	-	Y	-	-	-	-
31	N/A	CommFunction, LLC	3	9999	Y	N	-	-	-	Y	-	-
32	Computer Office Solutions, Inc.	Computer Office Solutions, Inc.	4	0016479917	N	-	-	-	-	-	-	-
33	Cox Communications, Inc	Cox Communications	1	0001834696 0001524461	Y	Y	-	Y	-	-	-	-
34	Cellular South Licenses, LLC	Cspire Wireless	1	0020434767 0013247325	Y	Y	-	-	-	Y	-	-
35	N/A	CyberStreet Inc.	3	9999	Y	N	-	-	-	-	-	Y
36	N/A	Desoto Life	4	9999	N	-	-	-	-	-	-	-
37	N/A	Desoto.Net	3	9999	Y	N	-	-	-	-	-	Y
38	dishNET Satellite Broadband, L.L.C.	DISH Network Corporation	2	0022757645	N	-	-	-	-	-	-	-
39	DeltaCom, Inc. New Edge Network, Inc. Saturn Telecommunication Services Inc.	Earthlink	1	0005183025 0003720471 0004343828	Y	Y	-	-	-	-	Y	-
40	Enventis Telecom Inc.	Enventis Telecom Inc.	4	0008394322	N	-	-	-	-	-	-	-
41	eVolve Business Solutions LLC	eVolve Business Solutions LLC	4	0018925107	N	-	-	-	-	-	-	-
42	GTC, Inc.	FairPoint Communications, Inc.	1	0001824606	Y	Y	-	Y	-	-	-	-
43	N/A	FiberLight	1	9999	Y	N	-	-	-	-	-	Y
44	Florida Cable, Inc.	Florida Cable	1	0007170558	Y	N	-	-	-	Y	-	-
45	Brevard Wireless, Inc.	Florida High Speed Internet (FLHSI)	3	0016346991	Y	N	-	-	-	-	-	Y

## Broadband Provider Status Log

	FCC Filing Company Name	DBA or Common Name	Provider Type: Broadband=1, Reseller=2, Other=3, N/A=4	FRN	Viable Provider for Data Acquisition	Data Included in Submission	Responsive				Non-Responsive	
							Refused to Participate	Submitted Updated Data	No Change in Data	Missed Deadline	Data from previous submission included	No Data Included
46	N/A	Florida LambdaRail	1	9999	Y	Y	-	Y	-	-	-	-
47	Florida Phone Systems, Inc.	Florida Phone Systems, Inc.	4	0018624494	N	-	-	-	-	-	-	-
48	FPL FiberNet LLC	FPL FiberNet LLC	1	0008338683	Y	Y	-	Y	-	-	-	-
49	Fort Pierce Utilities Authority	FPUAnet Communications	1	0001813369	Y	Y	-	Y	-	-	-	-
50	Frontier Communications Corporation	Frontier Communications	1	0003576352 0003766987	Y	Y	-	Y	-	-	-	-
51	N/A	GBS Online	3	9999	Y	N	-	-	-	-	-	Y
52	Georgia Public Web, Inc.	Georgia Public Web, Inc.	3	0010219962	Y	N	-	-	-	-	-	Y
53	City of Dunnellon	Greenlight Dunnellon Communications	1	0020274593	Y	N	-	-	-	-	-	Y
54	Gainesville Regional Utilities	GRU.com	1	0018584425	Y	N	-	-	-	-	-	Y
55	Harbor Communications, LLC	Harbor Communications, LLC	1	0006221287	Y	N	-	-	-	-	-	Y
56	Hinson Communications Inc.	Hinson Communications Inc.	4	0018326165	N	-	-	-	-	-	-	-
57	HNS License Sub, LLC	HNS License Sub, LLC	4	0012369286	N	-	-	-	-	-	-	-
58	Home Town Cable TV, LLCT	Home Town Cable	1	0009470766	Y	Y	-	-	Y	-	-	-
59	Hotwire Communications, Ltd.	Hotwire Communications, Ltd.	4	0009846494	N	-	-	-	-	-	-	-
60	The Home Town Network Inc.	HTN (Home Town Network)	1	0019072339	Y	Y	-	-	Y	-	-	-
61	N/A	Hughes	1	0017434911	Y	Y	-	Y	-	-	-	-
62	Inteltrace, Inc.	Inteltrace, Inc.	2	0014085062	N	-	-	-	-	-	-	-
63	InterGlobe Communications	InterGlobe Communications	2	0005156229	N	-	-	-	-	-	-	-
64	IPacket Networks, LLC	IPacket Networks, LLC	4	0016724494	N	-	-	-	-	-	-	-
65	Interactive Services Network, Inc.	ISN Telcom	2	0004328456	N	-	-	-	-	-	-	-
66	ITS Telecommunications Systems, Inc.	ITS Telecom	1	0018528893 0003731734	Y	Y	-	Y	-	-	-	-
67	Global Crossing Telecommunications, Inc. Level 3 Communications, LLC WilTel Communications, LLC.	Level 3 Communications	1	0002850519 0003723822 0003716511	Y	Y	-	Y	-	-	-	-
68	Light Tower Fiber Long Island LLC	Light Tower Fiber Long Island LLC	4	0018589226	N	-	-	-	-	-	-	-
69	LightEdge Solutions, Inc.	LightEdge Solutions, Inc.	4	0015546443	N	-	-	-	-	-	-	-



## Broadband Provider Status Log

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							Refused to Participate	Submitted Updated Data	No Change in Data	Missed Deadline	Data from previous submission included	No Data Included
70	Litestream Holdings, LLC	Litestream Holdings	1	0011498086	Y	N	-	-	-	-	-	Y
71	N/A	Long Hammock Wireless	3	9999	Y	Y	-	-	Y	-	-	-
72	N/A	Main Street Broadband, LLC	4	9999	N	-	-	-	-	-	-	-
73	Marco Island Cable, Inc.	Marco Island Cable	1	0004243689	Y	Y	-	Y	-	-	-	-
74	Mediacom Southeast LLC	Mediacom Communications Corp.	1	0004036778	Y	Y	-	Y	-	-	-	-
75	MegaPath Corporation	MegaPath Corporation	1	0003753787 0003753753	Y	Y	-	Y	-	-	-	-
76	Myakka Communications, Inc. Myakka Technologies, Inc.	Myakka Myakka Technologies, Inc.	1	0019679562 0016084857	Y	Y	-	Y	-	-	-	-
77	N/A	Nature Coast Networks, LLC	3	9999	Y	N	-	-	-	-	-	Y
78	Northeast Florida Telephone Company	NEFCOM	1	0003757432 0004928750	Y	Y	-	-	Y	-	-	-
79	N/A	NetQuincy; City of Quincy Florida	1	0004572533	Y	Y	-	Y	-	-	-	-
80	Network Billing Systems LLC	Network Billing Systems LLC	2	0004965141	N	-	-	-	-	-	-	-
81	Network Communications of NW Florida Inc.	Network Communications of NW Florida Inc.	4	0020994489	N	-	-	-	-	-	-	-
82	Network Innovations, Inc.	Network Innovations, Inc.	2	0010737641	N	-	-	-	-	-	-	-
83	N/A	North Florida Broadband Authority	1	9999	Y	N	-	-	-	Y	-	-
84	NW Spectrum Co.	NW Spectrum Co.	4	0015082522	N	-	-	-	-	-	-	-
85	Oak Run Associates Ltd/DECCA Cable	Oak Run Associates Ltd/DECCA Cable	2	0003745767	N	-	-	-	-	-	-	-
86	N/A	Omnispring	3	9999	Y	N	Y	-	-	-	-	-
87	PCI Wireless, PCFL	Palm Coast Flagler Internet	3	9999	Y	N	-	-	-	-	-	Y
88	N/A	PDMNet	3	0017149014	Y	Y	-	Y	-	-	-	-
89	TDS Telecommunications Corporation	Quincy Telephone Company	1	0004948105 0001824689	Y	Y	-	Y	-	-	-	-
90	N/A	QxC Communications	3	9999	Y	N	-	-	-	-	-	Y
91	Rapid Systems Corporation	Rapid Systems	3	0014499438	Y	N	-	-	-	-	-	Y
92	Reallinx, Inc.	Reallinx, Inc.	2	0015329535	N	-	-	-	-	-	-	-
93	N/A	Sago Networks, Inc.	3	0018151878	Y	Y	-	-	-	-	Y	-

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							Refused to Participate	Submitted Updated Data	No Change in Data	Missed Deadline	Data from previous submission included	No Data Included
94	Signal Point Telecommunications Corp.	Signal Point Communications	2	0022098099	N	-	-	-	-	-	-	-
95	N/A	Skycasters	2	9999	N	-	-	-	-	-	-	-
96	N/A	SKYNAP	3	9999	Y	N	-	-	-	-	-	Y
97	N/A	SkyNet 360	3	9999	Y	N	-	-	-	-	-	Y
98	N/A	Sling Broadband	1	9999	Y	N	-	-	-	-	-	Y
99	Smart Choice Communications, LLC	Smart Choice Communications, LLC	2	0008879306	N	-	-	-	-	-	-	-
100	Smart City Solutions, LLC Smart City Telecommunications LLC	Smart City	1	0008209074 0004381505	Y	Y	-	-	-	Y		-
101	Southeastern Services, Inc.	Southeastern Services, Inc.	4	0010211167	N	-	-	-	-	-	-	-
102	Southern Light	Southern Light LLC	1	0006694111	Y	Y	-	Y	-	-	-	-
103	Sprint Nextel Corporation	Sprint Nextel; Sprint	1	0003774593	Y	Y	-	Y	-	-	-	-
104	Stage 2 Networks, LLC	Stage 2 Networks, LLC	2	0012559290	N	-	-	-	-	-	-	-
105	StarBand Communications Inc.	StarBand Communications	1	0005087457	Y	Y	-	-	Y	-	-	-
106	Stratos Offshore Services Company	Stratos Offshore Services Company	4	0002147353	N	-	-	-	-	-	-	-
107	Orlando Telephone Company	Summit Broadband	1	0008410102	Y	Y	-	Y	-	-	-	-
108	N/A	SVIC Internet & Computers	3	9999	Y	Y	-	Y	-	-	-	-
109	Teklinks, Inc.	Teklinks, Inc.	4	0022348106	N	-	-	-	-	-	-	-
110	Telefonica USA, Inc.	Telefonica USA, Inc.	2	0018547828	N	-	-	-	-	-	-	-
111	Telovations, Inc.	Telovations, Inc.	4	0015331390	N	-	-	-	-	-	-	-
112	Terra Nova Telecom, Inc.	Terra Nova Telecom, Inc.	4	0021193057	N	-	-	-	-	-	-	-
113	TerraNovaNet, Inc	TerraNovaNet	3	0016098147	Y	N	-	-	-	-	-	Y
114	The City of Daytona Beach	The City of Daytona Beach	4	0018522409	N	-	-	-	-	-	-	-
115	N/A	Tier 3 Communications	1	9999	Y	N	-	-	-	-	-	Y
116	MetroPCS Florida, LLC T-Mobile USA, Inc.	T-Mobile	1	0014545644 0006945950	Y	Y	-	Y	-	-	-	-
117	Towerstream, Inc.	Towerstream, Inc.	4	0007097355	N	-	-	-	-	-	-	-
118	N/A	TQC Communications Corp	2	9999	N	-	-	-	-	-	-	-
119	Transbeam Inc.	Transbeam Inc.	4	0008904690	N	-	-	-	-	-	-	-
120	tw telecom holdings inc.	tw telecom	1	0014942668 0004351466	Y	Y	-	Y	-	-	-	-

## Broadband Provider Status Log

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							Refused to Participate	Submitted Updated Data	No Change in Data	Missed Deadline	Data from previous submission included	No Data Included
121	N/A	TWN TransWorldNetwork	4	9999	N	-	-	-	-	-	-	-
122	airBand Communications, Inc.	UNSi (airBand)	3	0004526794	Y	N	-	-	-	-	-	Y
123	US Metropolitan Telecom, LLC	US Metro	1	0016713497	Y	N	-	-	-	-	-	Y
124	City of Valparaiso	Valparaiso Broadband Communication Systems	1	0006126080	Y	N	-	-	-	-	-	Y
125	Velocity Online	Velocity Online	3	0016126971	Y	N	-	-	-	-	-	Y
126	Cellco Partnership Verizon Florida LLC	Verizon	1	0018506568 0001824804 0012254363	Y	Y	-	Y	-	-	-	-
127	Verizon Business Global LLC	Verizon Wireless	1	0010856284 0003290673	Y	Y	-	Y	-	-	-	-
128	ViaSat Communications, Inc.	ViaSat	1	0007843766	Y	Y	-	-	Y	-	-	-
129	Vocal IP Networx Ltd	Vocal IP Networx Ltd	2	0016870578	N	-	-	-	-	-	-	-
130	DSL Internet Corporation	VOX3COM	2	9999	N	-	-	-	-	-	-	-
131	PAETEC Communications, Inc. Talk America Inc. US LEC of Florida LLC. Windstream Corporation	Windstream	1	0011017795 0004967360 0004319430 0003721396 0014400220	Y	Y	-	-	-	Y	-	-
132	Knology of Florida, Inc.	Wow! Internet, Cable and Phone	1	0005066493 0001808666 0003766268	Y	Y	-	-	-	-	Y	-
133	Xchange Telecom Corp.	Xchange Telecom Corp.	2	0006831713	N	-	-	-	-	-	-	-
134	Nextlink Wireless, Inc. XO Communications, LLC	XO Communications	1	0014286934 0006275945	Y	N	-	-	-	-	-	Y
135	N/A	Yipes Holdings, Inc.	4	9999	N	-	-	-	-	-	-	-
136	Zayo Enterprise Networks, LLC	Zayo Enterprise Networks, LLC	2	0015331689	N	-	-	-	-	-	-	-
				Total of Ys	82	47	2	29	9	9	5	30
				Total of Responsive and Non-Responsive			49				33	

The Broadband Provider Status Log is updated with the current FCC listing of broadband providers for Florida and identified Florida Wireless Internet Service Providers.

Previously listed Broadband providers equaling 1 in column three were analyzed to verify correct information. Changes include:

- 561Net.com – No longer providing broadband in Florida
- James Cable, LLC – Sold to Altitude Communications
- Knology of Florida and Panama – Change name to WOW! Internet, Cable and Phone
- Main Street Broadband, LLC – No longer providing broadband in Florida

Providers listed by the FCC who provide Broadband were analyzed to verify correct information. Verification found:

- Access One, Inc - Does not provide broadband service in Florida at this time.
- American Telephone Company, LLC - Does not appear to provide broadband service.
- Clearly Communications - Does not provide broadband service in Florida at this time.
- Computer Office Solutions, Inc. - Does not appear to provide broadband service.
- eVolve Business Solutions, LLC - Does not provide broadband service in Florida at this time.
- Hinson Communications - Does not provide broadband service in Florida at this time.
- Light Tower Fiber Long Island, LLC - Does not provide broadband service in Florida at this time.
- Litestream Technologies – Appears to be a duplicate or connected to Litestream Holdings
- MetroPCS Florida, LLC – Merged with T-Mobile
- Network Communications of NW Florida – Could not find information on providing broadband service at this time.
- NextWave Wireless Inc. – Merged with AT&T
- PAETEC Communications – Merged with Windstream
- Teklinks, Inc – Does not appear to provide broadband service
- The City of Daytona Beach - Does not appear to provide broadband service.
- Towerstream, Inc. - Does not provide broadband service in Florida at this time.
- TWN TransWorldNetwork – Does not provide broadband service in Florida at this time.

New providers identified since previous submission:

- Access Media 3, Inc.
- Alternative Choice Wireless
- Atlantic Net Broadband, Inc.
- Bluemont Networks, LLC
- Desoto.Net
- Georgia Public Web, Inc.
- Greenlight Dunnellon Communications
- Harbor Communications, LLC
- QxC Communications
- SKYNAP
- UNSi

