

**OFFICIAL OCTOBER 2012 UPDATE SUBMISSION TO
THE NATIONAL TELECOMMUNICATIONS AND INFORMATION
ADMINISTRATION UNDER THE
STATE BROADBAND INITIATIVE GRANT PROGRAM FOR THE
STATE OF OHIO**



October 1, 2012

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October 1, 2012

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

Dear Ms. Neville:

Please accept this submission from Connected Nation on behalf of the state of Ohio's State Broadband Initiative (SBI) Grant Program, known as Connect Ohio.

The Connect Ohio program and its collective stakeholder community continue to be faithful and energized contributors to the National Telecommunications and Information Administration's (NTIA) SBI program. Now more than ever, the significance of complete and validated data as compiled through the Federal Communications Commission's (FCC) National Broadband Map is instrumental in forging the innovation economy of the 21st century. As the Commission relies upon this unique resource to distribute monies under the Connect America Fund, through the Universal Service Fund reform, the Connect Ohio program equally values this data in informing meaningful program interventions relating to broadband access, adoption, and use initiatives. Truly, this coordination embodies the spirit of the SBI and demonstrates the joint effort of the NTIA, FCC, state governments, industry, and non-profits like Connected Nation as it continues to serve as a key tool for the American public and policymakers. We are proud of the role that Connect Ohio has played in creating and maintaining such a powerful tool that has benefitted and surely will continue to benefit broadband providers, consumers, and businesses nationwide.

The artifacts that comprise this submission should be found to be compliant with the October 1, 2012, 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 Ohio: October 1, 2012

NOFA Requirement
Appendix A: 1(a)(i)

Data Transfer Model
BB_Service_CensusBlock

Data Description
Broadband Service Availability of
Facilities-Based Providers in

Appendix A: 1(a)(ii)	BB_Service_RoadSegment	Census Blocks of No Greater Than Two Square Miles in Area 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 (NPP) 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 2012 SBI data submission for the Connect Ohio program. Specifically, these new requirements are:

SBI Data Transfer Model

The submission of the broadband dataset for October 1, 2012, is contained within the SBI Data Transfer Model as released on the Grantee Workspace on August 9, 2012. 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

New to the semi-annual submission for October 2012 is a more robust version of the ReadMe text file. As per the template released on the Grantee Workspace on May 18, 2012, this file contains a high-level summary of the items contained within the submission, including the exact file deliverables, a description of the errors and warnings from the Check Submission report, and extraneous information of which the NTIA and other users of the dataset should be made aware.

This submission continues to follow the speed technology guidance released by the Program Office on August 9, 2012, to review speed tier codes in correspondence with technology of transmission codes. In the April 2012 submission, descriptions were provided in the methodology paper that offered an explanation for any submitted technology of transmission and speed combinations that were outside of the expected value range. That practice continues in this submission as technology and speed combinations are reviewed and scrutinized; any questionable information supplied by providers is reviewed more in depth with the provider to ensure the information is accurately captured or a proper explanation is provided as to why the speed information should be submitted as supplied even if it falls outside the expected value range.

Also in this submission are narratives describing the data and coverage estimation of non-participating providers. While Connect Ohio continues outreach to all providers prior to each submission period, the need to submit broadband service data for all providers regardless of their participation is evident as the SBI program continues into this sixth round of data submissions. The submission of this estimated broadband service area for providers that have not supplied data to Connect Ohio is essential in being able to portray a more accurate depiction of the current broadband landscape.

In addition to the requirements mentioned above, please find this methodology paper to be inclusive of the ongoing section pertaining to industry mergers and acquisitions – specifically this section details any and all mergers or acquisitions that have taken place in Ohio since the April 2012 submission. The intent of this updated section is to provide a better understanding of how the broadband provider landscape has changed since the last submission cycle.

This October 2012 semi-annual data update under the SBI 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 92.19 percent of the Ohio provider community, or 118 of 128 total providers. There are 116 participating providers and 2 additional non-participating providers whose estimated coverage areas have been submitted. Of the 116 participating providers, 33 supplied an update to their network or coverage area(s), while 50 have reported no change. The remaining 33 represent providers who previously supplied data but were non-responsive in the October 2012 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 10 providers that are not represented in the attached datasets, 8 have refused to participate in the voluntary program or were non-responsive to multiple contact attempts, and 2 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.

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

Connect Ohio has also continued to perform broadband verification activities through several means. In addition to confirmation of service area(s) by each provider, Connect Ohio conducts field validation efforts. To date, 78(60.94 percent) providers have been validated through field verification activities. Additional details on verification activities are contained within the Field Validation Methodology.

The Connect Ohio website, (www.connectohio.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 Ohio website encountered 23,839 unique visits during this reporting period (148,849 total to date for the life of the grant awarded on December 20, 2009). Additionally, this pronounced Web activity netted 155 broadband inquiries over this same reporting period (1,666 grant inception to date). The website also provides access to the My ConnectView™ interactive mapping application, which allows consumers and broadband providers to confirm or dispute the coverage represented on the broadband inventory map. These consumer-initiated actions are facilitated through the Connect Ohio website and the Connect Ohio interactive mapping tool (My ConnectView™) that offer the stakeholders 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 Ohio mapping artifacts. Since the initial data collection and release of corresponding maps, feedback in the form of broadband inquiries has allowed Connect Ohio to identify additional areas that are in need of field validation, which is scheduled as soon as possible.

Community Anchor Institutions

Connect Ohio 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. Since the April 2012 data submission, the CAI outreach process method has been modified to improve data collection. Specifically, the outreach process is a more focused sector-specific and relationship-oriented approach that generates more responses than general contact.

Outreach was conducted during this data update reporting period by Connect Ohio to continue identification of existing, centralized sources for CAI connectivity data. Additionally, outreach was coordinated to distribute the CAI survey to institutions throughout the state through multiple methods including a customized online survey available on the Connect Ohio website. During this reporting period Connect Ohio has developed a number of new relationships with statewide associations such as Ohio Hospitals Association and Ohio Department of Education to promote the

importance of broadband connectivity at anchor institutions and participation in this data collection process. It became apparent that these relationships are beneficial to the entire success of the Grant Program, and the CAI engagement is a logical extension of new and existing relationships. Connect Ohio 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.

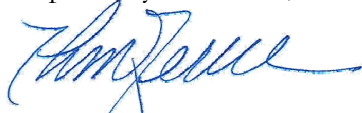
In addition to fostering and building relationships with state agencies, associations, and organizations, Connect Ohio has also developed a sector-specific calendar that supports CAI outreach as well as research and communications efforts. This focused approach allows a corporate commitment to capturing CAI data in addition to developing meaningful sector-specific content.

Connect Ohio is also working hard to clarify CAI information associated with wireless broadband. NTIA has requested in-depth questioning of CAI listing a wireless broadband service as their sole form of connectivity. This follow-up allows us to better understand the reason for adopting the wireless broadband service.

From our work in Ohio, 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 Ohio 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 Ohio 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 Ohio, as well as the United States and its territories through contribution to the National Broadband Map. We look forward to the continuing work ahead and improving upon our data collection methods.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'Tom Ferree'.

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

DATA ACQUISITION: OHIO COMMUNITY ANCHOR INSTITUTIONS METHODOLOGY

In this sixth reporting period of the SBI, Connect Ohio, working in close coordination with the state of Ohio, 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. Since the April 2012 data submission, the CAI outreach process method has been modified to improve data collection. Specifically, the outreach process is a more focused sector-specific and relationship-oriented approach that generates more responses than general contact.

Connect Ohio 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 Ohio through Esri ArcGIS software.

Connect Ohio continues to utilize a customized online survey hosted through SurveyMonkey, with a landing page on the Connect Ohio website that was developed during the first reporting period. This survey, in combination with a customized data-gathering spreadsheet, was distributed on a regular basis to a targeted list of CAI throughout the state as well as organizations and agencies that work closely with the CAI. The distributions were completed with the support of the state client. Connect Ohio 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:

<http://www.surveymonkey.com/s/R3RLVNG>

In addition to the survey, Connect Ohio has developed a number of new relationships with statewide associations such as Ohio Hospitals Association and Ohio Department of Education to promote the importance of broadband connectivity at Community Anchor Institutions and participation in this data collection process. It is apparent that these relationships are beneficial to the entire success of the grant program, and the CAI engagement is a logical extension of new and existing relationships. Connect Ohio 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.

In addition to fostering and building relationships with state agencies, associations, and organizations, Connect Ohio has also developed a sector-specific calendar that supports CAI outreach as well as research and communications efforts. This focused approach allows a corporate commitment to capturing CAI data in addition to developing meaningful sector-specific content.

Connect Ohio conducts significant research as part of an ongoing process to identify existing, centralized sources for CAI connectivity data. In tandem with these efforts to identify existing data, Connect Ohio 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. Also, when

possible, Connect Ohio works with the Ohio Office for Information Technology to identify existing relationships that can support CAI outreach.

Connect Ohio 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.

The greatest challenge with collecting CAI data continues to be educating the CAI about the Connect Ohio project as well as self-awareness of their own CAI connectivity (specifically upload and download speeds). Connect Ohio will continue to research key CAI organizations and agency contacts in an effort to raise awareness of this project among CAI. When applicable, the Ohio Office for Information Technology will continue to be briefed on the current CAI data and provided information so it can assist with outreach and promotion within the state.

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 Schools	9,204	9,204	9,026	3,484	2,497	2,457
Libraries	808	808	807	684	586	333
Healthcare	1,950	1,950	1,950	5	5	5
Public Safety	3,817	3,817	3,815	5	4	4
Higher Ed Institutions	958	958	953	17	12	11
Other Government	590	590	589	13	7	7
Other Non-Government	3,660	3,660	3,660	29	20	15
Total	20,987	20,987	20,800	4,237	3,131	2,832

As part of Connect Ohio's efforts to ensure compliance with Ohio's Every Community Online (ECO) facilities, a member of the engineering and technical services team from Connect Ohio has visited a number of sites to perform speed tests to obtain information. In addition, technology types were reviewed, and it was determined that facilities with a T1 line have a synchronous connection of upload and download speeds. Therefore, the upload speed was able to be determined based on the download speed.

During the coming months, CAI data collection will be supported by regular reporting to the Connect Ohio team. The CAI data is proving an invaluable resource to all components of the Connect Ohio effort. The data identifies potential local champions, sector trends, and opportunities for improvement as well as opportunities to educate CAI not familiar with their current connectivity.

SBI DATA SUBMISSION METHODOLOGY

The submission of the broadband dataset for October 1, 2012, is contained within the SBI Data Transfer Model and additional components as released on the Grantee Workspace on August 9, 2012. Connected Nation (CN) 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.

Connected Nation has complied with the following guidance documents published by NTIA:

- Technical Mapping Guide, as released on the Grantee Workspace on March 24, 2011, was 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.
- Naming Conventions and Category of End User, as released on the Grantee Workspace on March 26, 2012, was followed to ensure the consistency of individual file and zip package naming.

In addition to the methodologies contained herein, the Changes and Corrections documentation, 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 Ohio.

Inventory of Deliverables, Connect Ohio: October 1, 2012

<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.

The provider data collected by CN on behalf of the state of Ohio 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 Ohio 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. Process development is underway at CN as well to be able to create more granular satellite coverage based on satellite equipment positioning and geographic inputs.

OHIO FIELD VALIDATION METHODOLOGY

CN 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 Central Offices, 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 CN's program specific websites.

Additionally, CN cross-referenced numerous public documents in order to ensure that all known broadband providers were located and contacted. This included searching membership logs from 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 Ohio on the following providers: 1 Touch Technology; Access Ohio Valley; Amplex Internet; Armstrong Utilities; AT&T Inc.; Avolve; Bascom Mutual Telephone (d.b.a. BrightNet Bascom); Benton Ridge Telephone (d.b.a.

W.A.T.C.H. TV); Blue Sky Wireless; Buckeye Cablevision Inc.; Buckland Telephone; Celerity Networks; CenturyLink; Champaign Telephone Company (d.b.a. CTC); Cincinnati Bell Telephone Company LLC; Cincinnati Communications; CityNet Fiber; City of Wadsworth; Clearwire Corporation; Comcast; Computers4U; ConnectLink; Country Connections LLC; Coyote Wireless; Dark Horse Wireless; Databit Solutions; Doylestown Communications; DuplexCom of Ohio LLC; Eagle Communications (d.b.a. Safe-T.net); FairPoint Communications (d.b.a. Germantown Independent Telephone, Columbus Grove Telephone, and Orwell Telephone); Falcon 1; Fort Jennings Telephone Company; Frontier Communications (d.b.a. Citizen's Communications); GMN Wireless; Hometown Cable Company (also d.b.a. g Wireless); Horizon Telecom; Hometown Cable Company (d.b.a. g Wireless Inc.); Imagine Networks; Intellwave LLC; J-B Nets LLC; Jenco Wireless; KeyOn Communications Inc. (being acquired by New Knoxville Telephone); King Office Supply; Leap; Level 3 Communications; LightSpeed Technologies; MegaPath Inc.; MetaLINK; Middle Point Home Telephone Company; Mikulski Communications LLC; Mobilecomm (d.b.a. Heavenwire); Nelsonville Cable Television; New Era Broadband LLC; New Knoxville Telephone; NexGen Access; NorthWest Net Inc.; nTelos (d.b.a. Ohio Fibernet); OmniCity; One Communications Corporation; R.A.A. Services; Redbird Internet Services; Southern Ohio Communication Services Inc. (also formerly Scioto Wireless); Sprint Nextel; StratusWave; Suddenlink; Sycamore Telephone; Telephone Service Company; Time Warner Cable Access (d.b.a. Insight Communications of Central Ohio LLC); T-Mobile; UData Net; Vaughnsville Telephone Company; Verizon Communications; Wavelinc Communications; Wilkshire Wireless; Wireless Intranet; Windstream (f.k.a. PAETEC Communications. Inc., Cavalier Telephone, and Talk America, Inc.); Wireless Intranet; XO Communications LLC; and Zayo Group LLC.

In addition to the field verification tests that have been conducted, Connect Ohio has also conducted work in the field to collect information for the Non-Participating Providers, Wireless Intranet and GLW Broadband which, by nature of the methodology required for this collection, are also included in the above list.

From program initiation through this reporting period, CN has completed in-the-field validation testing against 78 companies (out of a universe of 128 viable providers) totaling 60.94 percent within the state of Ohio. This percentage also considers the non-participating provider (NPP) records submitted to NTIA as may be contained herein (see "Data Submission and Coverage Estimation of Non-Participating Provider" below).

CN 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, as published on the NTIA Grantee Workspace on August 9, 2012. 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.

Amplex Internet

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

Resolution: Provider website advertises 10 Mbps service; screenshot below.

SPEED - Amplex Internet gives you reliable connections that surpass the competition. Our premium plans offer 3.5Mbps down with a 10MB Burst!*

AT&T Inc.

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

Resolution: Provider website advertises 24 Mbps service; screenshot below.

Compare Internet Packages

	Pro	Elite	Max	Max Plus	Max Turbo
Standard Monthly Rate	\$38*	\$43*	\$48*	\$53*	\$63*
Downstream Speed	Up to 3 Mbps	Up to 6 Mbps	Up to 12 Mbps	Up to 18 Mbps	Up to 24 Mbps

AT&T Inc.

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

Resolution: Provider confirmed tier 7 service is available.

Blu Sky Wireless

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

Resolution: Provider website advertises 12 Mbps service; screenshot below.

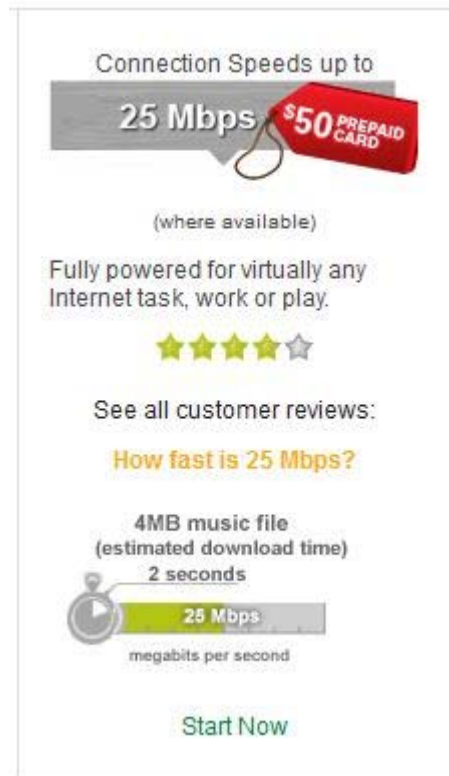
Residential

Basic: Up to 3Mbps Down / 128Kbs Up
Standard: Up to 5Mbps Down / 256Kbs
Turbo: Up to 8Mbps Down / 512Kbs
Turbo Plus: 12Mbps Down / 1Mbps

CenturyLink

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

Resolution: Provider website advertises 25 Mbps service; screenshot below.

**Cequel Communications (Suddenlink)**

Issue: Technology of transmission code 40 with maximum advertised download speed in tiers 5, 7, and 8, lower than expected value range for the technology.

Resolution: Provider representative confirmed that DOCSIS 3.0 is indeed in use, but speeds have not been turned up higher yet.

Conneaut Telephone Co

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

Resolution: Provider website advertises 24 Mbps service; screenshot below.

SERVICE	PRICE
2.0MB/512k	\$29.95
8MB/768k	\$44.95
12MB/768k	\$59.95
24MB/1MB	\$74.95

Massillon Cable TV, Inc.

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

Resolution: Provider website confirms use of DOCSIS 3.0 with the lower speeds.

- DOCSIS 3.0 High-Speed Data- Maximize your online experience with download speeds up to 10 Mbps, upload speeds up to 1.5 Mbps and 3 email addresses included for only \$159.95/month.

MegaPath Inc.

Issue: DSL platform with maximum advertised download speed in tiers 7 and 8, higher than expected value range for the technology.

Resolution: Provider website advertises 20 Mbps and 45 Mbps service; screenshots below.

DSL service provides download speeds up to 20 Mbps over a nationwide, multi-redundant private network that optimizes performance and security. DSL is an ideal broadband solution for small and medium-sized businesses that download large files or use the Internet extensively.

For maximum connectivity at a minimum cost, there's no greater value than MegaPath Business Ethernet. Choose the bandwidth—2 Mbps up to 45 Mbps—that best fits your business' needs.

T-Mobile USA, Inc.

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

Resolution: Provider website confirms that speeds greater than tier 6 are available; screenshot below.

T-Mobile customers with 4G phones are already experiencing data speeds that are comparable to or faster than the speed of a home broadband network. And with recent improvements to our 4G network-doubling our theoretical download speeds-we're giving our customers enhanced 4G data speeds. We've seen average download speeds on our HSPA+ 42 Mbps-capable data stick approaching 10 Mbps with peak speeds of 27 Mbps, and download speeds approaching 8 Mbps with peak speeds of 20 Mbps on our upcoming HSPA+ 42 Mbps-capable smartphones.

TDS Telecommunications Corporation

Issue: DSL platform with maximum advertised download speed in tiers 7 and 8, higher than expected value range for the technology.

Resolution: Provider website advertises 15 and 25 Mbps service; screenshot below.



25Mbps High-Speed Internet

► [Check availability to see pricing information!](#)

This speed makes it easy to handle simultaneous connections from multiple devices in the home. You can stream video, download large files, play online games, etc. all at the same time.

[Check Availability](#) ►

15Mbps High-Speed Internet

► [Check availability to see pricing information!](#)

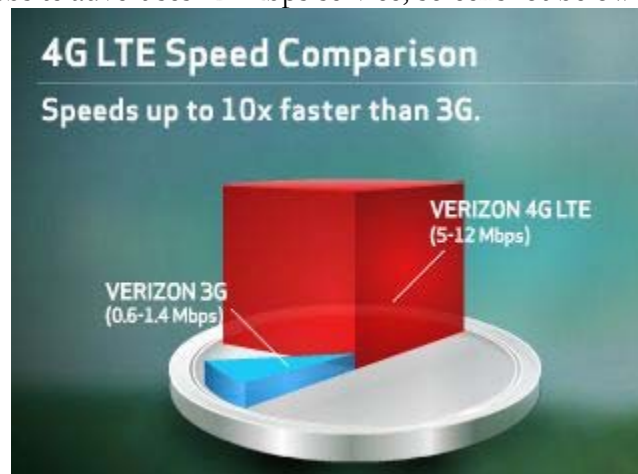
Serious Internet speed for serious Web surfers. Great for video watchers, gamers, and those who work from home but don't care for the new meaning of whoosh.

[Check Availability](#) ►

Verizon Communications, Inc.

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

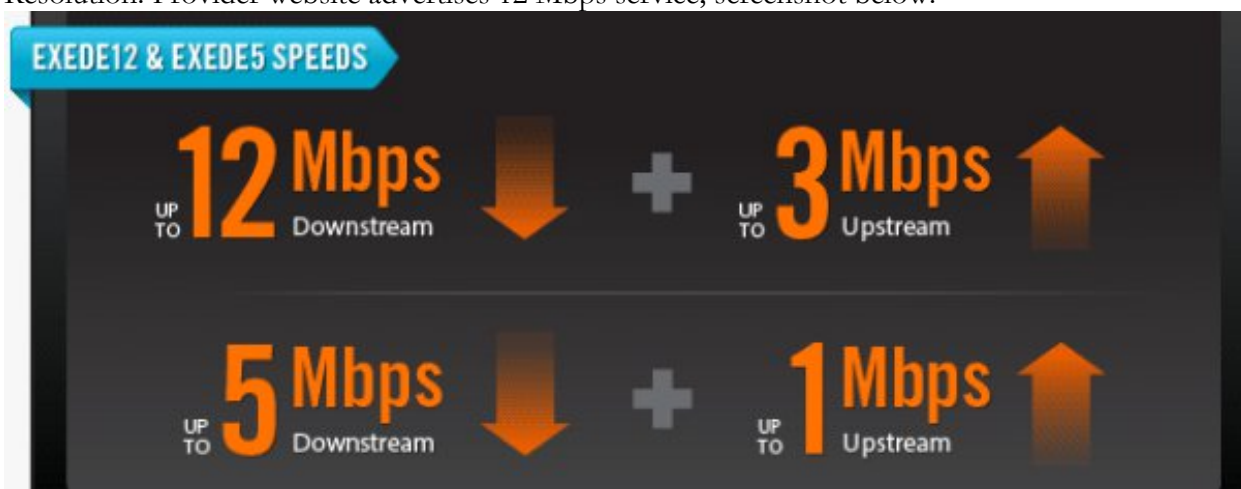
Resolution: Provider website advertises 12 Mbps service; screenshot below.



ViaSat, Inc.

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

Resolution: Provider website advertises 12 Mbps service; screenshot below.



Windstream Communications

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

Resolution: Provider website advertises 12 Mbps service; screenshot below.



DATA SUBMISSION AND COVERAGE ESTIMATION OF NON-PARTICIPATING PROVIDERS

As part of its ongoing broadband mapping efforts, CN has developed a series of processes with the goal of submitting coverage estimation mapping data to NTIA for every known and qualifying last-mile broadband provider, regardless of platform type (cable modem, DSL, fixed wireless, etc.). This state specific collection of coverage estimation methodology papers (see Appendix A) demonstrates the estimated broadband service territory for the providers in this state that have either been non-responsive or that have refused to participate in the SBI mapping initiative.

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, CN 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 CN, 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; CN 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, My ConnectView, 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 CN 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 CN 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 CN to resolve inaccuracies as they are identified to ensure that only the highest quality information is provided to stakeholders.

Additionally, non-participating provider narratives that were submitted in previous mapping cycles are subjected to the same level of scrutiny. Occasionally, a provider may elect to voluntarily participate (thus eliminating the need for future data estimation activities in the field). However, more often than not, the NPP narrative is updated with a combination of data gleaned from the provider's website, data obtained through FCC research and/or data collected/verified in the field by a CN staff engineer.

Estimates derived from provider-validated data indicate that approximately 1.41 percent of Ohio households do not have terrestrial fixed broadband service available, and approximately 0.27 percent of Ohio households have neither mobile nor fixed broadband service available.

Within rural areas of the state, results derived from provider-validated data indicate that approximately 2.81 percent of rural Ohio households do not have terrestrial fixed broadband service available, and approximately 0.53 percent of rural Ohio households have neither mobile nor fixed broadband service available. Please note that the availability estimates presented are based on Census 2010 household information.

The estimates above, in accordance with NTIA's definition of available broadband service as specified in the SBI NOFA, include broadband service with download speeds of at least 768 Kbps and upload speeds greater than 200 Kbps.

In addition, 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.

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). This may include (but is not limited to) spectrum authorizations identified within the Federal Communications Commission (FCC) Universal Licensing System (ULS) database or located on the FCC's Spectrum Dashboard. This research often proves to be exceptionally effective when estimating the coverage area of an NPP.
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 FCC's ULS and the **CO**mmission **RE**gistration System.

Propagation modeling combines scientific data and 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

CN 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 five categories: 1) residents who do not have broadband but want it; 2) residents who have broadband but want a different provider; 3) residents who do not have broadband, but the broadband inventory maps indicate that they do; 4) residents who have broadband but want a faster connection speed; and 5) residents who have broadband but want a less expensive service option.

BBIs are submitted frequently by consumers via the Connect Ohio 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 CN 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. A prime example of the second option is the utilization of the Rural Utility Service satellite eligibility tool. By simply entering the consumer's address, the CN engineer can quickly determine if the consumer meets the initial qualification status for BIP satellite subsidies.

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 CN state programs with successful results. Altogether CN has received over 18,600 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 CN 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 Ohio project has received a total of 155 inquiries (1,666 grant inception to date). As more inquiries are submitted to Connect Ohio, 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.

MY CONNECTVIEW METHODOLOGY

My ConnectView is an online, interactive mapping tool for viewing, analyzing, and validating broadband data. Developed using Esri's ArcGIS for Server and Adobe's Flex Framework and hosted and maintained by Connected Nation, My ConnectView 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, My ConnectView 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 several coverage analysis layers, speed analyses, Community Anchor Institutions, and tools to search and export household demographic information, as well as extract data in GIS, spreadsheet, and/or PDF formats.

My ConnectView also features more interactive data layers and additional tools than ever before to allow the consumer to explore the broadband data. My ConnectView provides consumers with the ability to print, e-mail, and 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 CN 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 CN 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 Ohio project launched My ConnectView on April 2, 2012, and received 2,788 visits this reporting period; to date the interactive mapping applications have received 13,193 visits.

SPEED TEST METHODOLOGY

The 1,945 speed tests that are represented in the Connect Ohio Speed Test Report during this reporting period (13,381 grant inception to date) are the result of a partnership between CN 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 Ohio 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 Ohio 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 Ohio 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 Ohio.

PROVIDERS DEEMED NON-VIABLE

The following list of companies represents the remainder of the broadband provider universe that was originally identified as complete for outreach to begin for the State Broadband Initiative. These providers are not included in the Data Package for the October 2012 submission because they have been deemed non-eligible under the parameters and guidance of the SBI grant program. This list of companies includes, but is not limited to: providers offering service but below the current definition of broadband, those that have gone out of business, technology consulting firms, infrastructure or network construction companies, non-facilities based general resellers, etc.

	Company Name	URL	Comments
1	21Globe, Inc.	www.21globe.com/is/access/	General reseller of DSL and backhaul.
2	650Net	www.650net.net/	Dial-up only.

3	A 007 Access	www.a007.com/	General reseller of Quest DSL and mobile wireless; DSL does not qualify as the max advertised speed is 768 kbps x 128 kbps.
4	AAA Internet Service	n/a	URL no longer in service.
5	Aaccess Network Communications	www.aaccess.net/	Not a broadband provider; installs and maintains WiFi systems.
6	ACC-NET	www.acc-net.com/	This company is no longer an active provider or in business.
7	ACERX.NET	http://acerx.net/	General reseller but no contact information listed on website; requests for information were never returned.
8	Adelphia	n/a	No longer in business; assets liquidated.
9	Airespring, Inc.	www.airespring.com	General reseller of VOIP, long distance and data circuits (non-residential).
10	Airewaves Broadband, LLC	www.airewaves.com	URL no longer in service.
11	Airmail247.com	www.airmail247.com	Business mailing list search site; not a broadband provider.
12	Alphalink Technologies	www.alink.com/index.htm	This company is a nonfacilities-based reseller.
13	American Broadband & Telecommunications	www.ambt.net	This company is a nonfacilities-based reseller.
14	Antioch Wireless Broadband	www.antiochwirelessbroadband.com/	Resells DSL and cellular service in Antioch, IL only.
15	Arrowheadnet.com	www.arrowheadnet.com/	Domain registration and web hosting company.
16	bargainisp.net	www.bargainisp.net/	Generic web directory site; company does not offer broadband.
17	Beonline	www.beol.net	This company is a nonfacilities-based reseller.
18	Bonzai Pipeline, Inc.	www.bonzaipipeline.net	This company is no longer in business.
19	BreezeWave Broadband	www.breezewave.com	This company is no longer in business.
20	Bright Choice	www.brightchoice.com	Bright Choice was acquired by Omnicity.

21	Broadband National	www.broadbandnational.com	Nonfacilities-based general reseller of DSL and satellite for 36 companies (e.g., ACC Business, HughesNet, et al.).
22	Broadview Networks Holdings, Inc.	www.broadviewnet.com	Wholesale reseller of partners' communication products and services; company is nonfacilities-based.
23	BullsEye Telecom, Inc.	www.bullseyetelecom.com	Integrated suite of telecommunications services for businesses and general reseller of backhaul.
24	Byesville.Net	www.byesville.net	This company is no longer in business.
25	Cable One	n/a	Inactive; non-state provider.
26	CAC MediaNet, Inc.	n/a	No longer in business; acquired by First Step (Michigan general reseller of DSL).
27	Camino-Net Internet Services	www.camino-net.com	No longer in business; was dial-up only.
28	CanNet Internet Services	www.cannet.com	Offers dial-up and B2B services, webhosting, etc.
29	Canton Cable	n/a	Acquired by Comcast.
30	CCIS.net	www.ccis.net	Now owned by Beacon Technologies; offers dial-up and is general reseller of DSL in Pennsylvania.
31	Celito Communications	www.celito.net/	Offers dial-up and wireless in North Carolina.
32	CIMCO Communications, Inc.	www.cimco.net	This company is a nonfacilities-based reseller.
33	Clear Sky Communications	www.clearskycommunications.com/	This company is a general reseller of and an installation company for satellite services.
34	Cleartouch.Com	n/a	This company is no longer in business.
35	CloverNet	n/a	Script coding application company.
36	Coax-Net	www.coax.net	This company is a nonfacilities-based reseller.
37	Cobridge Communications, LLC	www.cobridge.net/communications	This company was acquired in Ohio by Time Warner.

38	Cognisurf	www.calling-plans.com	Dial-up internet provider.
39	Columbus Cable	n/a	Possibly acquired by Comcast; OSS service branch.
40	Combined Technologies Inc.	www.ctipack.com	This company is no longer in business.
41	Communication Options Inc.	www.coi.net	Provides B2B and residential dial-up.
42	config.com Internet	www.config.com	Nonfacilities-based reseller; provided limited data but not enough for creation of coverage area or identification of services.
43	CoreComm Wireless	n/a	This company is no longer in business.
44	Dacor Internet Services	www.dacor.net/	This company is a nonfacilities-based reseller.
45	Data-Tel of Illinois, Inc.	www.data-telinc.net/	This company is a nonfacilities-based reseller.
46	Davis Voice and Data	n/a	Cellular reseller only; does not operate a broadband network.
47	Dayton Digital Networks	www.daytondigital.net	No longer offers broadband services.
48	Deltaforce	www.deltaforce.net	Dial-up and webhosting services only.
49	deluxehost.com	deluxe-host.com	Offers web hosting only.
50	Devlin Express	www.devlinex.com	This company is a nonfacilities-based reseller.
51	DGUI	www.dgui.com/	No longer in business; domain name for sale.
52	DHB Networks, Ltd.	www.dhbnetworks.com	This company is no longer in business.
53	Dial National	www.dialnational.com/	Inactive URL; out of business.
54	Dialer.net	www.dialer.net/internet_access/United_States.html	Offers international dial-up services.
55	DigitalBridge Communications Corp.	n/a	Non-state provider; serves Idaho, Indiana, Montana, South Dakota, Virginia, and Wyoming.
56	DSL @ Interlync	www.interlync.com	General reseller of Covad and for this mapping cycle they have been non-responsive.

57	DTS-NET.COM	www.dts-net.com/	Provider of wholesale and retail telecommunications services.
58	Duvall Wireless	www.duvallwireless.net	This company is no longer in business.
59	East Allen High Speed Internet, LLC	n/a	Non-state provider; serves Allen County, Indiana.
60	East Palestine Internet, Inc.	www.epiinternet.com/	Company appears to have gone out of business; phone is disconnected and Inactive URL.
61	Enventis Telecom Inc.	n/a	Non-state general reseller.
62	Erielink LLC	www.erialink.com	No longer in business.
63	ETI - Connecting Your World	www.cyberenet.net/	General reseller of DSL services from infrastructure owned by Verizon, AT&T, and Covad.
64	EZnet Ohio	www.2.ezo.net/iserv.htm	Provides dial-up service.
65	FairPoint Broadband	www.fairpoint.com	Non-state provider.
66	Fast Dependable Access	www.fda.net	Inactive URL; company appears to have gone out of business.
67	g wireless, Inc.	http://www.g-wireless.net	Acquired by another company.
68	Galaxywave Internet	www.galaxywave.net/	Phone number was disconnected.
69	Global Crossing Telecommunications, Inc.	n/a	Acquired by another company.
70	GO Concepts	n/a	This company is a nonfacilities-based reseller.
71	Great American Broadband, Inc.	www.oibw.net	Non-state provider; serves Indiana.
72	Hubwest Protected Networks LLC	www.hubwest.com	Dial-up and web hosting only.
73	iDigi Wireless	www.digi.com	Inactive URL; no longer in business.
74	Imbris, Inc.	www.imbris.com	Provides fixed wireless in Idaho only.
75	IMGISP.NET	www.imgisp.net/	Search engine.
76	Incredible Networks	n/a	Inactive URL; out of business.
77	Inercom Communications Inc.	www.inercom.com	Inactive URL; out of business.

78	Interactiveinfo.com Inc.	www.rocketbroadband.com	Offers cable television services in NY only.
79	In-Touch Software	www.intouchsoftware.co.uk	Software development company.
80	iRadical	n/a	Inactive URL; out of business.
81	ISPartner.net	n/a	Inactive URL; out of business.
82	KAS Cable TV	www.kascable.com	This company is a nonfacilities-based reseller.
83	KeyOn Communications, Inc.	www.keyon.com	This company was acquired by New Knoxville Telephone Company.
84	LARIAT.NET	www.lariat.net/	Offers fixed wireless services in Wyoming only.
85	LCSisp.com	www.lcsisp.com/index.cfm	Offers national dial-up services only.
86	Lek.net Internet Services, Inc.	www.lek.net	General reseller of AT&T DLS and offers dial-up and computer repair.
87	LightEdge Solutions, Inc.	www.lightedge.com	IT consulting; LightEdge does not provide residential service in any state.
88	Lightyear Network Solutions, LLC	www.lightyear.net	Nonfacilities-based general reseller.
89	LinkAmerica.Net	www.linkamerica.net/	Inactive URL; out of business.
90	Magnum Cable	n/a	Inactive URL; out of business.
91	MainBoard	www.mainboard.cc/internet.htm	General reseller in Virginia.
92	Maine Cable and Wireless	www.mainecableandwireless.com	Inactive URL; out of business.
93	Marcin Company	n/a	Inactive URL; out of business.
94	Metropolitan Telecommunications Holding Company	n/a	MetTel provides facilities-based and resold services (certified CLEC in some states); the company provides a variety of voice, including wireless, and data services to commercial customers.
95	Millenicom Inc.	www.millenicom.com	General reseller of dial-up and mobile broadband (Sprint network).
96	Nanomega.Com	www.nanomega.com	Inactive URL; out of business.
97	NCO Wireless	www.ncowifi.com	Acquired by NexGen Access.
98	NetAccess, Inc.	www.nas.net/	Offers wireless B2B services only.
99	NetSpeed Online	www.netspeed-online.net	Inactive URL; out of business.

100	New Edge Network, Inc.	www.newedgenetworks.com	Acquired by EarthLink.
101	Northwest ISP	www.northwestisp.com/	Inactive URL; out of business.
102	nTelos, Inc.	n/a	Non-state provider; offers mobile wireless cards in West Virginia.
103	NuVox, Inc.	www.nuvox.com	Acquired by Windstream.
104	OffWorld1	n/a	Inactive URL; no longer in business.
105	ONEcom Wireless	n/a	Inactive URL; no longer in business.
106	Open Range Communications, Inc.	http://www.openrange.com	No longer in business.
107	Overarch Broadband	n/a	Offers services in Idaho only.
108	Pacific Internet Exchange	www.pie.us/	Inactive URL; company appears to have gone out of business.
109	PAETEC Communications, Inc.	http://www.paetec.com/	Acquired by another company.
110	Paknet Limited	n/a	Subsidiary of Pakistan Telephone Company; no services offered in the U.S.
111	Pattersonville Telephone Company	n/a	Does not offer broadband service.
112	Planet Online	www.planetonline.net/	Offers website hosting services.
113	Practical Support, Ltd.	http://www.practicalsupport.com/	Offers service, but below broadband threshold.
114	PremoWeb	www.premoweb.com/about_us/contact_us.html	Offers national dial-up services only.
115	Reliance Globalcom Services, Inc.	www.relianceglobalcom.com	California-based company; non-state provider.
116	Renaissance Networks	www.renaissancenetworks.com/	IT support company based in New Mexico.
117	Simply Dialup A Metrogeek Company	www.simplydialup.com/	Offers dial-up only.
118	Siscom Internet Service	www.siscom.net/index.html	This company is a nonfacilities-based reseller.
119	SkyLAN	n/a	This company is not a broadband provider.

120	Skymax Broadband, Inc.	http://www.skymaxbroadband.com/	No longer in business.
121	Sling Broadband	n/a	Non-state provider; WISP in Florida.
122	Supernova Systems, Inc.	home.onlyinternet.net/	Company acquired by Great American Broadband.
123	Surferz.Net	www.surferz.net/	Offers dial-up in upstate NY only.
124	T1 Shopper	www.t1shopper.com/	Search engine for general reseller.
125	TelNet Worldwide, Inc.	n/a	Does not offer broadband service.
126	The Iserv Company, LLC	www.iserv.net	This company is a nonfacilities-based reseller.
127	The T1 Company	www.t1company.com	Offers B2B services.
128	Total Access Networks, Inc	n/a	Does not offer broadband service.
129	TSISP.NET	www.tsisp.net	Inactive URL; out of business.
130	U.S. Wireless Online, Inc.	n/a	Non-state provider; acquired by Caviar and offers service in Florida only.
131	University Corporation for Advanced Internet Development	n/a	Currently ineligible under the parameters and guidance of the SBI grant program.
132	Untangled Technology, LLC	n/a	Company Acquired by Lightspeed Technologies.
133	UNUM Telecommunications, Inc.	www.utinet.net/	Inactive URL; out of business.
134	WCNet	www.wcnet.org/rates/hisped/	This company is a nonfacilities-based reseller.
135	Wcoil	www.wcoil.com	Despite numerous outreach efforts, this company remains nonresponsive; accordingly, we are uncertain of the types of services offered.
136	WilTel Communications, LLC	www.level3.com	Acquired by Level 3.
137	WireFire Internet	www.wirefire.com	Acquired by FiberNet.
138	Wireless Roanoke, Inc.	www.wirelessroanoke.com/	Inactive URL; out of business.
139	wisbin	www.wisbin.com/	No longer in business.
140	www.AmericanAngel.us	www.americanangel.us/	Inactive URL; out of business.

141	YEEZOO.NET	www.yeyzoo.net/	Inactive URL; out of business.
142	YLISP (Your Local ISP)	www.itsyournet.com	Resells DSL and dial-up.
143	YourT1Wifi.com	yourt1wifi.com/	Offers wireless service in Idaho only.
144	Zito Media Communications, II, LLC	n/a	Zito Media does not yet offer broadband service in Ohio.
145	ZOOM Internet Services, LLC	n/a	Michigan-based dial-up provider and web hosting company.

APPENDIX A: ESTIMATION OF NON-PARTICIPATING PROVIDERS

GLW Broadband

Wireless Intranet

GLW BROADBAND

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 last-mile broadband provider, regardless of whether the provider has chosen to support and participate in the SBI mapping initiative.

The following narrative provides detail regarding the recent, and ongoing, data collection and coverage estimation activities related to GLW Broadband (GLW) a cable television and cable modem Internet service provider, located in Grafton, Ohio with a service area around Grafton, LaGrange and Wellington, Ohio (and certain unincorporated of Lorain County). The narrative will include information regarding how and where CN obtained publicly available data and utilized on-the-ground validation and infrastructure verification techniques that support the underlying data.

Background

From March 1, 2010, through February 8, 2012, CN made 43 attempts to contact the provider (either by phone, e-mail, or in person). On two occasions (e-mail response from April 23, 2010 and conversation with a CSR on February 18, 2011) the provider refused to participate. On July 19, 2012, (after attempting to contact and persuade the provider 4 more times during this mapping cycle) a CN staff member decided that a field audit and coverage estimation document would be the only way that this provider would be represented on the National Broadband Map. On August 7, 2012, two CN staff members were dispatched into the field to gather data necessary for the creation of a coverage estimation document and map.

The Issue


GLW has predicated its refusal to participate in the Connect Ohio broadband mapping initiative.

Identification of Provider's Service Plans, Service Area, Legal Name, d.b.a., FRN, and Licensing


CN has built a file based on research information and, as time progressed, enriched the file with information obtained through the public domain or through on-the-ground research and site verification. For example, CN reviewed the provider's website (www.glwb.net) to determine the residential service plans (**Exhibit A**) and reviewed the Ohio Department of Commerce, Video Service Authorization to determine the approximate service area (**Exhibit B**).

A search for a Federal Registration Number (FRN) on the FCC **CO**mmission **RE**gistration **S**ystem (CORES) the system FRN #0004982286 (**Exhibit C**). Also, to support field validation of access points, the FRN was referenced against the FCC Universal Licensing System (ULS) to identify any FCC authorizations that the provider may hold. This process yielded no license results.

Exhibit A: Service Plans



G.L.W. Broadband, Inc.
 Cable television and internet services at the speed of life.
Navigation: Home | News | Games | Services | Channel 12 | PPV | Stock | Support




Current Weather

Grafton, OH

66°F Clear

wunderground.com

click for full forecast



[View Local Radar](#)

[View US Radar \(2mb\)](#)

Local Sports

High - 21 @ Midview - 9

GLWB Sports

ESPN360

Internet Service

Tired of dialing up and being disconnected? With GLW Broadband Internet, you get the lightning fast download speeds up to 150 times faster than 56k dialup. Our Broadband Internet is up to 10.5 times faster than 768k DSL.

GLW Broadband Internet access is a high speed, online service that provides lightning fast access to the internet as well as to the ever increasing unique broadband content and services provided across the internet. Broadband Internet is delivered to your computer over the same upgraded cable systems that currently bring cable television in your home. Cutting-edge technology advancements implemented over comprehensive regional and national bandwidth networks get you to your internet destinations in seconds.

GLW Broadband Internet is an "always-on" technology meaning there are no connection times. When you open your browser, you are instantly on the internet. No longer will you tie your phone line up or pay for a phone line dedicated to your computer.

As a Broadband Internet subscriber, you will be able to watch a movie trailer on line, call a friend and check movie times and locations, ALL AT THE SAME TIME!

Broadband Turbo »

\$54.95/month

Temporarily Unavailable

- » Up to 12Mbps Downstream
- » 1.5Mbps Upstream
- » Up to 3 email accounts
- » "Always On" connectivity
- » Broadband Cable Modem
- » Free Installation!

Broadband Standard »

\$19.99 first 3 months, \$42.90 afterwards

- » Up to 8Mbps Downstream
- » 768Kb Upstream
- » Up to 3 email accounts
- » "Always On" connectivity
- » Broadband Cable Modem
- » Free Installation!

Broadband Select »

\$29.95/month

- » Up to 1.5Mbps Downstream
- » 256Kb Upstream
- » Up to 3 email accounts
- » "Always On" connectivity
- » Broadband Cable Modem
- » Free Installation!

Broadband Light »

\$19.99/month

- » Up to 512Kbits Downstream (9x speed of dial-up)
- » 128Kb Upstream
- » Up to 3 email accounts
- » "Always On" connectivity
- » Broadband Cable Modem
- » Free Installation!

Exhibit B: Service Area

Ohio Department of Commerce	
Video Service Authorization	
Video Service Provider: GLW Broadband, Inc.	
VSA Number:	<u>2010-VSA-0063</u>
VSA Effective Date:	<u>February 25, 2011</u>
Application Date:	<u>November 5, 2010</u>
VSA Expiration Date:	<u>February 25, 2021</u>
IS HEREBY GRANTED AN AUTHORIZATION TO PROVIDE VIDEO SERVICE IN THE VIDEO SERVICE AREA SPECIFIED BELOW IN ACCORDANCE WITH AND SUBJECT TO THE PROVISIONS OF 1332.21 THROUGH 1332.34 OF THE OHIO REVISED CODE AND THE TERMS AND CONDITIONS OF THIS AUTHORIZATION.	
Terms and Conditions of the Authorization	
A. Video Service Area	
The video service provider is authorized to provide video service in the areas listed on the attached sheet.	

GLW Broadband, Inc.
Service Areas
VSA Number: 2010-VSA-0063
Sub-Authorizations:
-47 LORAIN
Eaton Township
Grafton Township
Grafton Village
Lagrange Township
Lagrange Village
Litchfield Township

Exhibit C: Federal Registration Number

Registration Detail	
FRN:	0004982286
Registration Date:	08/20/2001 11:15:12 AM
Last Updated:	08/16/2004 08:28:24 AM
Business Name:	GLW Broadband , INC
Business Type:	Private Sector , Corporation
Contact Organization:	
Contact Position:	General Manager
Contact Name:	Steve C Fleming
Contact Address:	993 Commerce Drive P.O. Box 67 Grafton, OH 44044 United States
Contact Email:	
ContactPhone:	(440) 926-2794
ContactFax:	(440) 926-2889

Preliminary Identification of Provider's Coverage Area

Connected Nation determined the approximate parameters of the service area from the provider's website and from review of the Ohio Department of Commerce, Video Service Authorization for GLW. CN staff members travelled to Grafton, Ohio on August 7, 2012, to begin driving through the service territory and to begin their data collection process. The first stop along the way was in the Village of Grafton where the CN staff members requested a copy of the local franchise agreement (see excerpts in **Exhibit H**); in this instance the franchise agreement specifies (Section 2.3 A, B & C) where and how the cable system's plant can be constructed on poles, easements, etc.

Next, the CN staff members drove throughout Lorain County systematically working towards LaGrange and then to Wellington (**Exhibit D**) as they confirmed the presence of cable plant. The CN staff members stopped and visited with representative from City Hall in both LaGrange (Village Administrator) and Wellington (Village Manager) and discussed the franchise agreements for those villages. While representatives from each location confirmed that the franchise agreement was substantially the same as Grafton, neither person had immediate access to the franchise agreement in time to make copies.

In all, the trip consisted of approximately 150 miles of "line driving" and/or visually confirming the location of offices, drop box locations, and aerial and underground plant (**Exhibit E**). The concept being simple: where there is no cable, there can be no cable modem Internet service. While the coverage estimation submitted herein does not account for 100% of the service area of GLW, it does provide a robust general representation of their coverage area. This "line driving" allowed the CN engineers to create a GPS trail as illustrated in Exhibit D, use the data to create a Google Earth Image (**Exhibit F**) and then convert the image into a Connect Ohio coverage map for GLW (**Exhibit G**).

The top-left photograph shows a storefront sign for G.L.W. Broadband, Inc. The sign is white with a red and blue logo on the left. The text on the sign reads "G.L.W. Broadband, Inc." in bold black letters, followed by "993 COMMERCE DRIVE" and "926-3230" in smaller black letters. The building has blue siding and a dark door.

The top-right photograph shows a large, white, parabolic satellite dish antenna mounted on a metal structure. The dish is positioned on a grassy field with trees in the background. A portion of a blue building is visible on the right side of the image.

The bottom photograph shows a brick address sign for the number 153. The sign is made of red bricks and features two logos. The left logo is for G.L.W. Broadband, Inc. with the phone number 647-6445. The right logo is for State Farm Insurance, featuring the State Farm logo and the text "Peggy Karcher, Providing Insurance and Financial Services, 800-647-4800". The sign is located on a street corner with a sidewalk and a road in the background.

Exhibit F: GLW Broadband Estimated Coverage

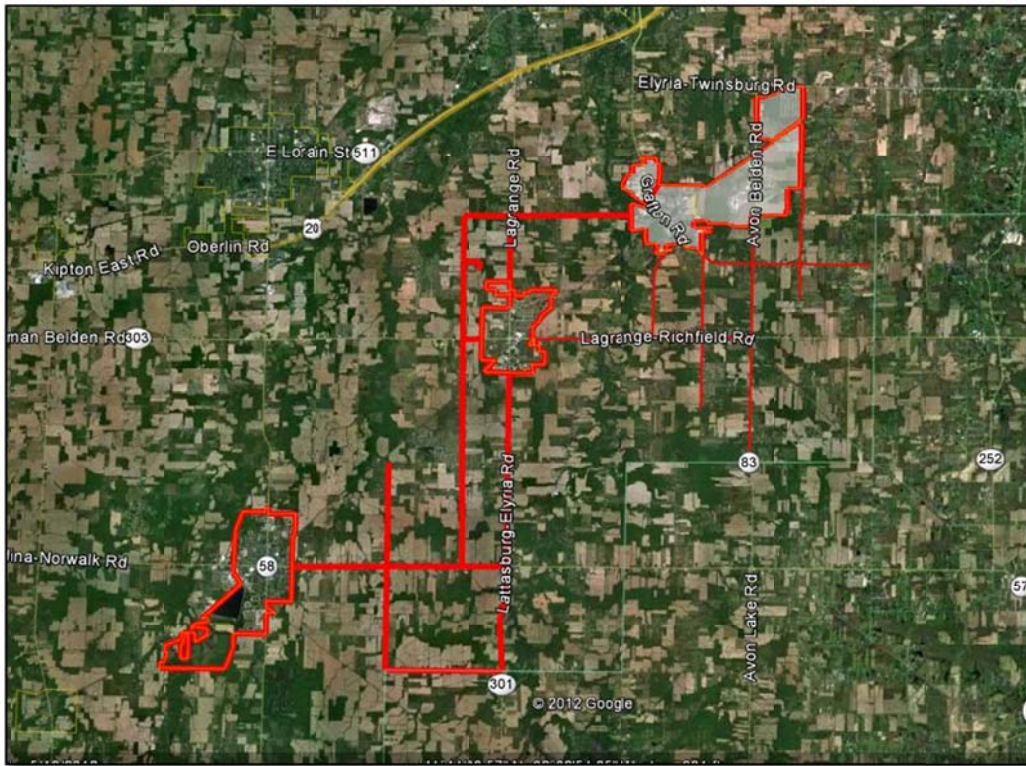


Exhibit G: GLW Broadband Estimated Coverage as Depicted by Connect Ohio

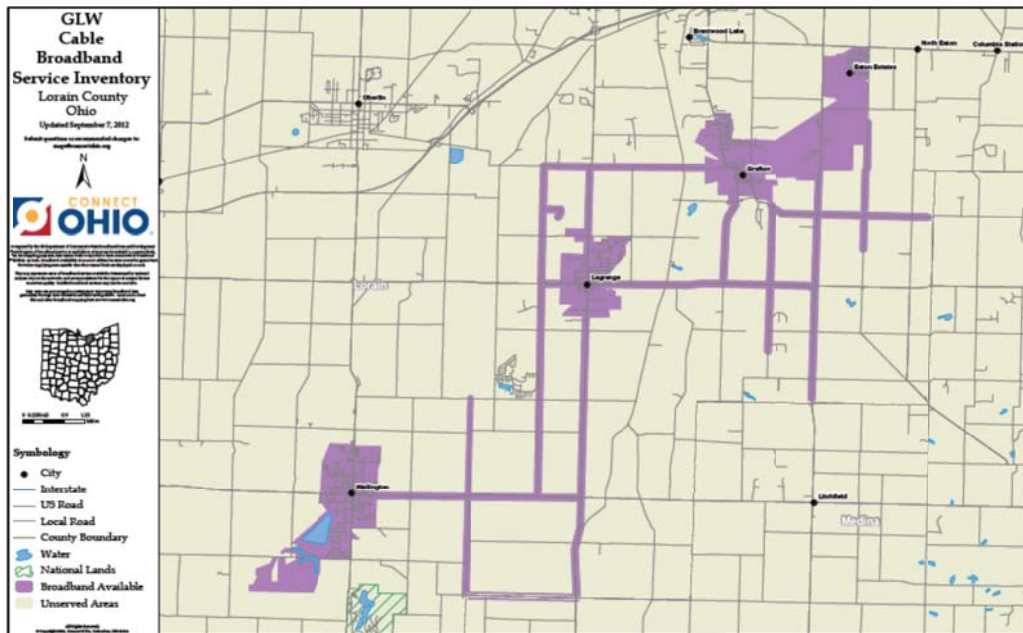


Exhibit H: Village of Grafton Franchise Agreement

- Q. "Standard Installation" means any residential installation that can be completed using a drop on one hundred fifty (150) feet or less.
- R. "Street" means the surface of, and the space above and below, any public or private street, road, highway, freeway, lane, alley, path, court, sidewalk, parkway or drive, or any easement or right-of-way now or hereafter held by the Village.
- S. "Subscriber" means any Person who lawfully receives Cable Television Service. In the case of multiple office buildings or multiple dwelling units, the "Subscriber" means the lessee, tenant or occupant.
- T. "Unlawful" shall mean an act initiated by any person and will be considered a misdemeanor.

SECTION 2.

GRANT OF AUTHORITY AND GENERAL PROVISIONS

- 2.1) Franchise Required. It shall be unlawful for any person to construct, operate or maintain a Cable Communications System in the Village unless such person or the person for whom such action is being taken shall have first obtained and shall currently hold a valid Franchise granted pursuant to this Ordinance. It shall also be unlawful for any person to provide Cable Television Service in the Village unless such person shall have first obtained shall currently hold a valid Franchise granted pursuant to the provisions of this Ordinance. All Franchises granted by the Village pursuant to this Ordinance shall contain the same substantive terms and conditions.
- 2.2) Grant of Franchise. This Franchise is granted pursuant to the terms and conditions contained herein. Such terms and conditions shall be subordinate to all applicable provisions of state and federal laws, rules and regulations.
- 2.3) Grant of Nonexclusive Authority. The Grantee shall have the right and privilege to construct, erect, operate and maintain, in, upon, along, across, above, over and under the Streets, alleys, public ways and public places now laid out or dedicated and all extensions thereof, and additions thereto in the Village, poles, wires, cables, underground conduits, manholes and other television conductors and fixtures necessary for the maintenance and operation in the Village of a Cable Communications System as herein defined. The Cable Communications System constructed and maintained by Grantee or its agents shall not interfere with other uses of streets. Grantee shall make use of existing poles and other facilities available to Grantee to the extent it is technically and economically feasible to do so.

- A. Notwithstanding the above grant to use Streets, no Street shall be used by Grantee if the Village in its sole opinion determines that such use is inconsistent with the terms, conditions or provisions by which such Street was created or dedicated, or with the present use of the Street. The Village shall be notified by the grantee of any proposed and or scheduled underground additions to Grantee's system.
- B. This Franchise shall be nonexclusive, and the Village reserves the right to grant a similar use of said Streets, alleys, public ways and places, to any Person at any time during the period of this Franchise, provided, however, that any additional Franchise grants shall be under the same substantive terms and conditions as this Franchise.
- C. Grantee shall have the authority to use the Village easements, public rights-of-way, Streets and other conduits for the distribution of Grantee's System. The Village may require all developers of future subdivisions to allow and accommodate the construction of the System as part of any provisions for utilities to serve such subdivisions.
- 2.4) Franchise Term. This Franchise shall be in effect for a period twelve (12) years from the date of acceptance by Grantee, unless renewed, revoked or terminated sooner as herein provided.
- 2.5) Previous Franchises. Upon acceptance by Grantee as required by Section 13 herein, this Franchise shall supersede and replace any previous Ordinance or Agreement granting a Franchise to Grantee to own, operate and maintain a Cable Television System within the Village. The Ordinance 80-995 is hereby expressly repealed.
- 2.6) Compliance with Applicable Laws, Resolutions and Ordinances. The Grantee shall at all times during the life of this Franchise be subject to all lawful exercise of the police power and the right of eminent domain by the Village. This Franchise shall comply with the Ohio franchise standards contained in the Ohio Revised Code.
- 2.7) Rules of Grantee. The Grantee shall have the authority to promulgate such rules, regulations, terms and conditions governing the conduct of its businesses as shall be reasonably necessary to enable said Grantee to exercise its rights and perform its obligation under this Franchise and to assure uninterrupted service to each and all of its Subscribers; provided that such rules, regulations, terms and conditions shall not be in conflict with provisions hereto, the rules of the FCC, the laws of the State of Ohio, the Village or any other body having lawful jurisdiction thereof and except upon occurrence of acts beyond the reasonable control of Grantee or acts of God.
- 2.8) Territorial Area Involved. This Franchise is granted for the corporate boundaries of the Village, as it exists from time to time. In the event of annexation by the Village, or as development occurs, any new territory shall become part of the area covered, provided, however, that Grantee shall not be required to extend service beyond its present System boundaries unless there is a minimum of thirty (30) homes

WIRELESS INTRANET INC.

As part of its ongoing broadband mapping efforts, Connected Nation (CN) 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 State Broadband Initiative (SBI) program.

The following narrative provides detail regarding the recent data collection and coverage estimation activities related to Wireless Intranet, Inc., an Ohio wireless Internet service provider (WISP), with service areas in and around Delaware, Morrow, Marion and Union counties. The narrative will include information regarding how and where CN obtained publicly available data and the on-the-ground validation and site verification techniques that support the underlying data.

Background

From March 10, 2010, through the April 2012 NTIA mapping submission, CN staff members conducted multiple outreach sessions to attempt to obtain the participation of the provider with 19 instances of communication (telephone and e-mail). However, since the requests were never acknowledged, the provider record was flagged for an on-the-ground data collection exercise at the end of the April 2012 submission cycle. Two additional attempts were made during this mapping cycle (May 4, 2012 and June 8, 2012) prior to dispatching CN staff members into the field. On June 13, 2012 two members of the CN engineering and technical services team drove through the provider's coverage area to independently gather the data.

The Issue

Wireless Intranet, Inc., by its lack of responsiveness since March 10, 2010, has predicated its unwillingness to participate in the Connect Ohio broadband mapping initiative.

Identification of Provider's Service Plans, Service Area, Legal Name, d.b.a., FRN, and Licensing

CN began building a file based on research information and, as time progressed, enriched the file with information obtained through the public domain, prior to conducting in-field spectrum testing. Despite the fact that Wireless Intranet, Inc. displays its coverage area on its website (**Exhibit A**), the provider refused to offer any data that could be used for the construction of a complete dataset for submission to NTIA. All publically available, such as maximum advertised speeds, (**Exhibit B**) or searches for federal registration numbers (**Exhibit C**) were combined with the data gathered in the field in order to develop and present this coverage estimation document to the NTIA.


A search for a Federal Registration Number (FRN) on the FCC **CO**mmission **RE**gistration **S**ystem (CORES) system yielded a "no match" (Exhibit C) response. Additionally, the FCC Universal Licensing System (ULS) was searched to determine if the provider was the authorization holder of any spectrum, including but not limited to FCC Radio Service "NN" for 3650 MHz authorizations; this search also yielded "no match" (**Exhibit D**).

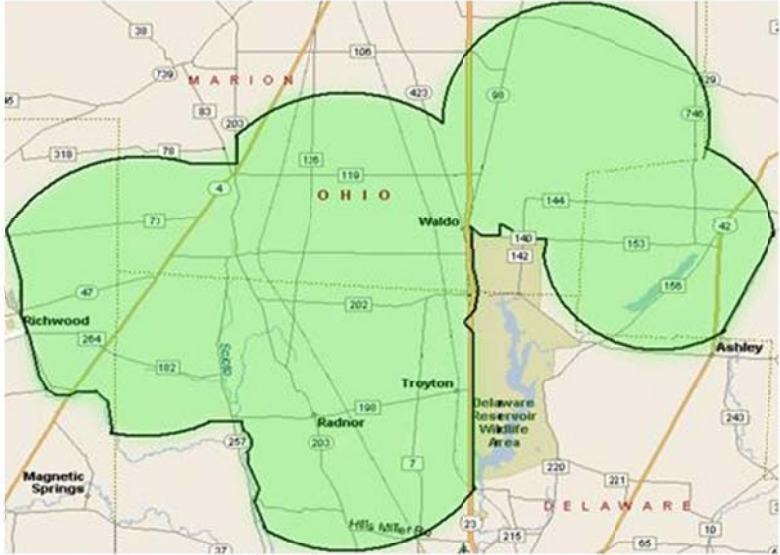
Exhibit A: Service Area as Depicted June 11, 2012

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Rough Estimate of Tower Coverage

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Exhibit B: Public Data Sources

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PACKAGES

Residential Account

Speeds	Emails / PCs per Acc	Price per Mo.
128k/128k* download/upload	5	\$19.95
768k/128k download/upload	5	\$34.95
1.5mb/128k download/upload	5	\$44.95
2mb/256k download/upload	5	\$54.95

Promo Install rate of \$99.95
For our \$34.95 with a 2 yr contract

Residential Installation Fees.
1 year contract **\$199.95 + First Mo.**
2 year contract **\$174.95 + First Mo.**

Business Account

Speeds	Emails / PCs per Acc	Price per Mo.
768k/128k download/upload	10	\$39.95

Exhibit C: Federal Registration Number


Federal Communications Commission

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FRN Help Line: 877-480-3201 (Mon.-Fri. 8 a.m.-6 p.m. ET)
The FRN Help desk has a dedicated staff of customer service representatives standing by to answer your questions or concerns.
You can also [email the FRN Help desk](#) with your questions and concerns.

Exhibit D: License Reference


Federal Communications Commission

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Universal Licensing System

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License Search

Search Results

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Specified Search

Name like **Wireless Intranet**

No matches found To try again, you can perform a [new search](#) or [refine your existing search](#).

ULS Help	ULS Glossary - FAQ - Online Help - Technical Support - Licensing Support
ULS Online Systems	CORES - ULS Online Filing - License Search - Application Search - Archive License Search
About ULS	Privacy Statement - About ULS - ULS Home
Basic Search	By Call Sign <input type="text"/> <input type="button" value="SEARCH"/>

[FCC](#) | [Wireless](#) | [ULS](#) | [CORES](#)

[Help](#) | [Tech Support](#)

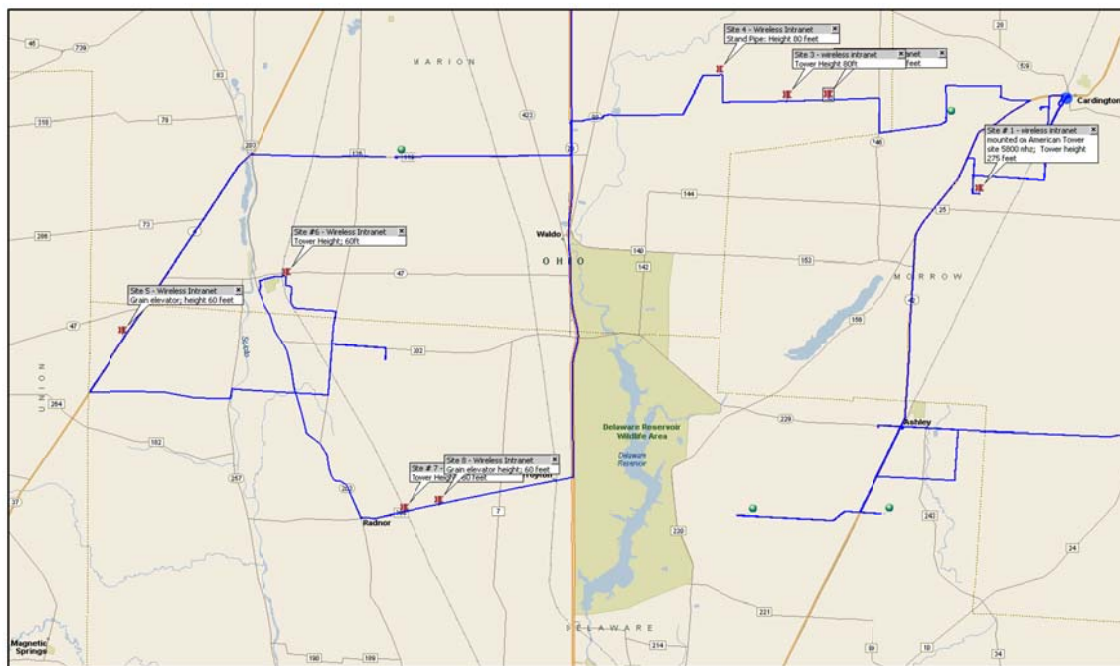
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Phone: [1-877-480-3201](tel:1-877-480-3201)
TTY: 1-717-338-2824
[Submit Help Request](#)

Preliminary Identification of Provider's Coverage Area

Eight transmit site locations were identified during the course of the field research and these locations were captured in a GPS route using Microsoft *Streets & Trips* (Exhibit E).

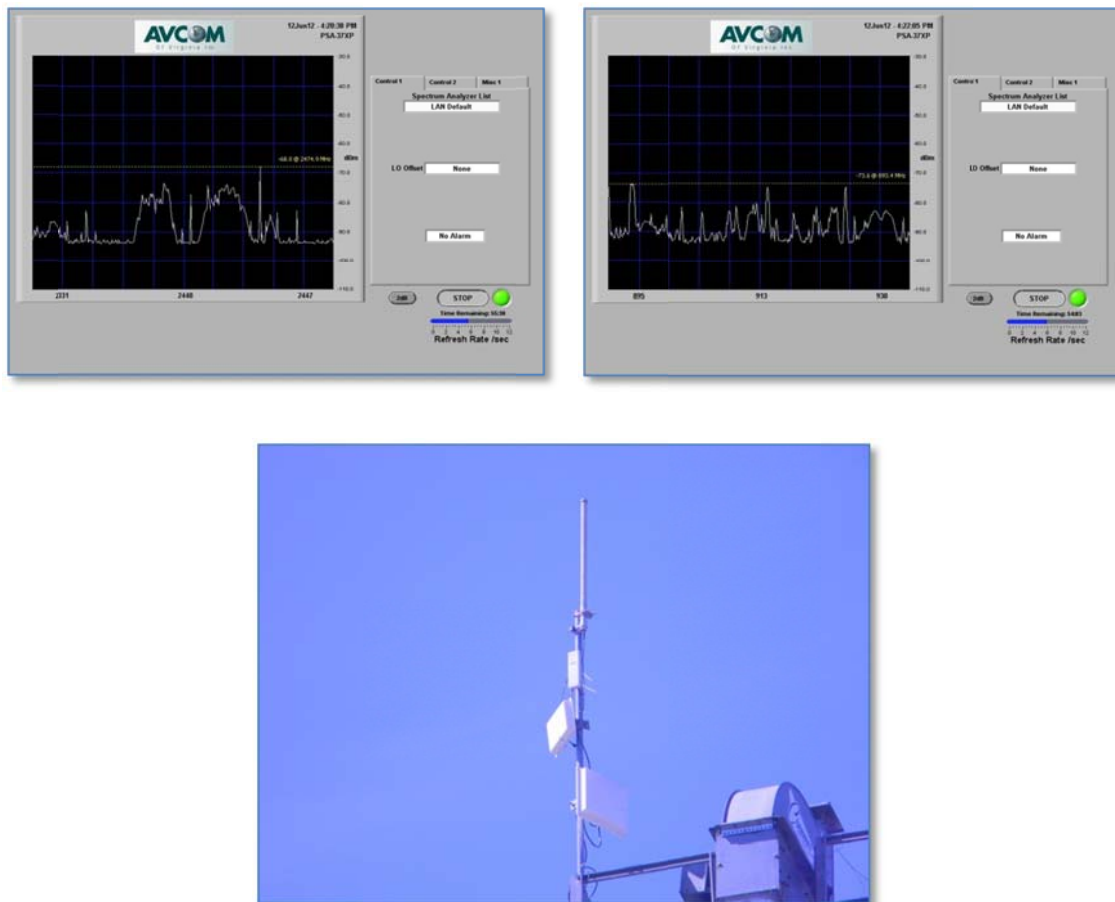
Exhibit E: Validation Points for AP Structures



Testing Techniques

CN staff developed a data collection and site validation route based on information as outlined above primarily using the provider's coverage area (as depicted on the website) and attempting to identify centerline coordinates for each transmit location. CN staff members then used the "estimated" centerline coordinates to review satellite images from Google Earth in an attempt to isolate vertical structure that could be the transmit locations (water tanks, grain elevators, rooftops and/or towers). To ensure accuracy of the coverage estimates, the CN engineer also included wireless transmit sites of neighboring WISPs to eliminate confusion when a transmit site was located. For example, known transmit sites, from WISPs that have voluntarily submitted data, were also geocoded and "eliminated" during the on-the-ground search to ensure that erroneous signal testing was mitigated. The CN wireless engineer was equipped with an AVCOM PSA-37XP analyzer with RF detection from 1 MHz to 6 GHz and an array of antennas tuned specifically for the 900 MHz, 2.4 GHz, 3.65 GHz, and 5 GHz frequency bands (**Exhibit F**). Each validation point was scrutinized for frequency of operation. A screen image of the operating frequency (or frequencies) was captured; general notes were recorded for each location-approximate antenna height, frequency of operation, antenna type (omnidirectional or sectored) and photographs were taken of the access points.

Exhibit F: Field Data Samples for Wireless Intranet Tower Locations



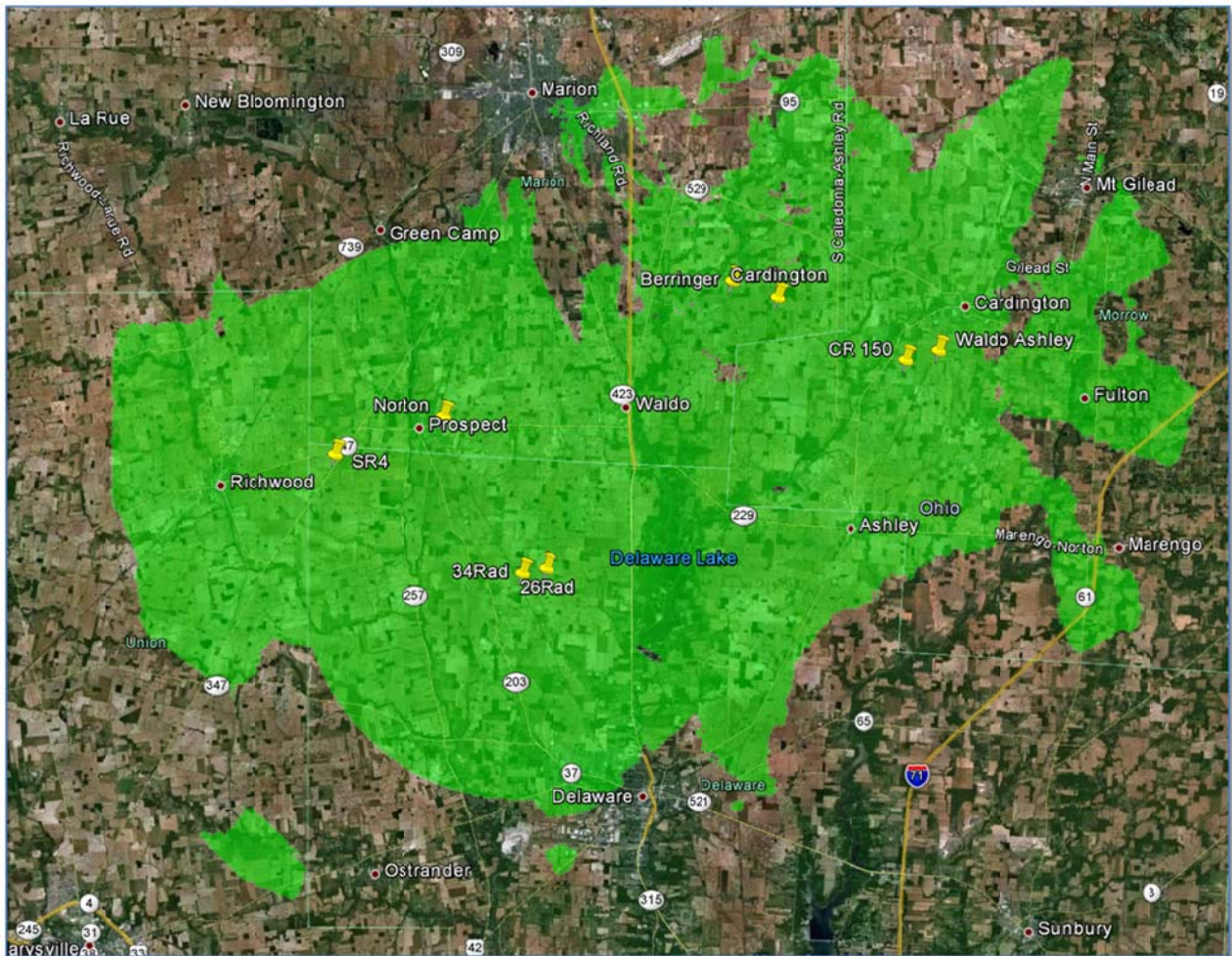
Results and Submission for October 2012

Through the analysis of the combined 8 estimated locations, 8 access points were ultimately identified and relative information was logged into the Wireless Intranet field validation notes file (**Exhibit G**). The CN engineer then used the datum for each tower site to create a composite propagation study (**Exhibit H**).

Exhibit G: Field Validation Notes

		Provider	Test Site Info	ordinates NAD 83 REQUIRED		Test Data		Signal Verification/Spectrum Analyzer			
Site #	Date	Provider	Physical Address	(N) Lat Decimal	(-)(W) Long Decimal	Type	Pass or Fail?	Peak Freq	Peak Sig Strength	Spectrum Analyzer	Time
1	6/13/12	Wireless Intranet	3158 County RD 150	40.47335	-82.92735	Signal Verificatio	Pass	5730MHz	-70	Avcom PSA-37XP	2:25pm
2	6/13/12	Wireless Intranet	4680 Neibauer RD	40.49938	-82.98192	Signal Verificatio	Pass	2462MHz	-52	Avcom PSA-37XP	2:54pm
3	6/13/12	Wireless Intranet	4916 Newmans-Cardington Rd	40.49920	-82.99677	Signal Verificatio	Pass	2432MHz	-70	Avcom PSA-37XP	3:01pm
4	6/13/12	Wireless Intranet	3801 Berringer Rd	40.50612	-83.02097	Signal Verificatio	Pass	2382MHz	-43	Avcom PSA-37XP	3:09pm
5	6/13/12	Wireless Intranet	6948 SR 4	40.43443	-83.23658	Signal Verificatio	Pass	2474MHz	-68	Avcom PSA-37XP	4:20pm
6	6/13/12	Wireless Intranet	266 Prospect-Norton Rd	40.45031	-83.17746	Signal Verificatio	Pass	2440MHz	-36	Avcom PSA-37XP	4:49pm
7	6/13/12	Wireless Intranet	3434 Radnor Rd	40.38561	-83.13529	Signal Verificatio	Pass	907MHz	-47	Avcom PSA-37XP	5:11pm
8	6/13/12	Wireless Intranet	2658 Radnor Rd	40.38765	-83.12236	Signal Verificatio	Pass	2439MHz	-64	Avcom PSA-37XP	5:17pm

Exhibit H: Composite Propagation Study



APPENDIX B: BROADBAND PROVIDER LOG



Broadband Provider Log

Complete	169
Non-Responsive/Refused	9
In Progress	4
Count of Datasets by Status	182
Total Unique Providers Represented	128

Provider Name	Platform	Status	NDA Execution Date	Notes
JB-Nets, LLC	Fixed Wireless	Approval for Update Not Received - Data Still Submitted	4/5/2010	[AUG-30-12 Jess Cary] Change: Provider added new towers and expanded coverage area.
MetalINK Technologies, Inc.	Fixed Wireless	Approval for Update Not Received - Data Still Submitted	3/22/2010	[SEP-10-12 Jess Cary] Change: Provider subtracted and added towers.
Amplex Internet	Fixed Wireless	Data Added to Statewide Inventory	3/26/2010	[AUG-21-12 Amanda Bentley] Change: Provider expanded service area; new towers sites were added.
AT&T Inc.	DSL	Data Added to Statewide Inventory	12/16/2009	[AUG-24-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
AT&T Inc.	Mobile Wireless	Data Added to Statewide Inventory	12/16/2009	[AUG-20-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Bascom Mutual Telephone Company	Fiber	Data Added to Statewide Inventory	3/22/2010	[JUL-13-12 Amanda Bentley] Change: Provider expanded service area; upgrading cable broadband network over to fiber.
Bascom Mutual Telephone Company	Cable	Data Added to Statewide Inventory	3/22/2010	[JUL-13-12 Amanda Bentley] Change: Provider reduced cable broadband service area due to upgrading network to fiber.
Blu Sky Wireless	Fixed Wireless	Data Added to Statewide Inventory	2/24/2010	[AUG-20-12 Amanda Bentley] Change: Provider expanded service area; new towers sites were added.
CenturyLink	DSL	Data Added to Statewide Inventory	12/4/2009	[AUG-10-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Clearwire Corporation	Mobile Wireless	Data Added to Statewide Inventory	3/3/2010	[JUL-09-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Comcast Cable Communications, LLC	Cable	Data Added to Statewide Inventory	12/7/2009	[AUG-10-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Country Connections LLC	Fixed Wireless	Data Added to Statewide Inventory	2/15/2010	[AUG-02-12 Amanda Bentley] Change: Provider decommissioned some previous towers but added additional tower sites and expanded coverage.
CoxCom Inc.	Cable	Data Added to Statewide Inventory	1/29/2010	[AUG-03-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Frontier Communications Corporation	DSL	Data Added to Statewide Inventory	1/22/2010	[AUG-08-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Imagine Networks, LLC	Fixed Wireless	Data Added to Statewide Inventory	7/13/2011	[JUL-13-12 Amanda Bentley] Change: Provider expanded service area; new tower site and 2 new sectors to existing towers were added.
Intelliwave, LLC	Fixed Wireless	Data Added to Statewide Inventory		[AUG-10-12 Amanda Bentley] Change: New tower sites were added and others decommissioned. Intelliwave no longer operates networks in Vinton, Jackson, Gallia, and Lawrence Counties.
Jefferson County Cable TV, Inc.	Cable	Data Added to Statewide Inventory	2/1/2010	[JUL-10-12 Amanda Bentley] Change: Provider expanded service area.
Leap Wireless International, Inc.	Mobile Wireless	Data Added to Statewide Inventory	4/6/2010	[AUG-03-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.

Massillon Cable TV, Inc.	Cable	Data Added to Statewide Inventory	2/9/2010	[JUL-16-12 Amanda Bentley] Change and Correction: Provider expanded coverage area; also removed incorrect coverage from one road.
MegaPath Inc.	DSL	Data Added to Statewide Inventory	2/15/2010	[AUG-30-12 Jess Cary] Correction: Submitting data for the first time, but service was offered previously.
Mobilcomm	Fixed Wireless	Data Added to Statewide Inventory	2/16/2012	[SEP-5-12 Jess Cary] Change: Provider added new towers and expanded coverage area.
New Era Broadband, LLC	Fixed Wireless	Data Added to Statewide Inventory	7/12/2010	[JUL-10-12 Amanda Bentley] Change: Provider expanded service area; new towers sites were added.
New Knoxville Telephone Company	Fixed Wireless	Data Added to Statewide Inventory	3/12/2010	[SEP-5 Jess Cary] Change: Provider added new towers and expanded coverage area.
Spacenet Inc.	Satellite	Data Added to Statewide Inventory		[SEP-6-12 Jess Cary] Correction: Initial submission of provider's coverage, but they were in service previously.
Sprint Nextel Corporation	Mobile Wireless	Data Added to Statewide Inventory	1/14/2010	[JUL-13-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
T-Mobile USA, Inc.	Mobile Wireless	Data Added to Statewide Inventory	1/8/2010	[AUG-08-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
TDS Telecommunications Corporation	DSL	Data Added to Statewide Inventory	1/27/2010	[AUG-10-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Time Warner Cable LLC	Cable	Data Added to Statewide Inventory	12/21/2009	[AUG-16-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Verizon Communications, Inc.	Mobile Wireless	Data Added to Statewide Inventory	12/14/2009	[AUG-03-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
ViaSat, Inc.	Satellite	Data Added to Statewide Inventory	1/8/2010	[AUG-08-12 Amanda Bentley] Changes and/or Corrections: Possible service expansion or corrections to previous dataset; entirely new dataset provided for October 2012 submission.
Wavelinc Communications	Fixed Wireless	Data Added to Statewide Inventory		[SEP-6-12 Jess Cary] Change: Provider added additional towers.
Your Digital Partner	Fixed Wireless	Data Added to Statewide Inventory	6/28/2010	[SEP-5-12 Jess Cary] Change: Provider's initial submission; service now meets broadband speeds.
Bascom Mutual Telephone Company	Backhaul	Backhaul Provider Only Processing Complete	3/22/2010	
Com Net, Inc.	Backhaul	Backhaul Provider Only Processing Complete		
First Communications, LLC	Backhaul	Backhaul Provider Only Processing Complete	8/13/2012	
Sprint Nextel Corporation	Backhaul	Backhaul Provider Only Processing Complete	1/14/2010	
T-Mobile USA, Inc.	Backhaul	Backhaul Provider Only Processing Complete	1/8/2010	
TDS Telecommunications Corporation	Backhaul	Backhaul Provider Only Processing Complete	1/27/2010	
Arthur Mutual Telephone Company	DSL	Speed Only Update; Data Processing Complete	12/22/2009	[AUG-16-12 Amanda Bentley] Change: Provider upgraded infrastructure and can now offer tier 3 upload speeds previously reported as tier 2; download speeds remain tier 5.
GLW Broadband	Cable	Estimated Coverage Submitted for Non-Participating Provider		[AUG-7-12 Jess Cary] Correction: Coverage estimated and submitted for non-participating provider.
Wireless Intranet	Fixed Wireless	Estimated Coverage Submitted for Non-Participating Provider		[AUG-28-12 Jess Cary] Correction: Coverage estimated and submitted for non-participating provider.
CUE Band	Fixed Wireless	Partial Data Received		
1 Touch Technology Solutions, LLC	Fixed Wireless	No Update to Provide		
Armstrong Utilities, Inc.	Cable	No Update to Provide	3/11/2010	
AT&T Inc.	Backhaul	No Update to Provide	12/16/2009	
Ayersville Telephone Company	DSL	No Update to Provide	3/22/2010	
Bascom Mutual Telephone Company	Fixed Wireless	No Update to Provide	3/22/2010	
Benton Ridge Telephone Company	DSL	No Update to Provide	4/13/2010	
Block Communications, Inc.	Cable	No Update to Provide	2/8/2010	
Buckland Telephone Co.	Fiber	No Update to Provide	4/10/2010	
Cable Co-op, Inc.	Cable	No Update to Provide	4/9/2010	
CenturyLink	Backhaul	No Update to Provide	12/4/2009	
CenturyLink	Backhaul	No Update to Provide	12/4/2009	
Champaign Telephone Company	DSL	No Update to Provide		
Champaign Telephone Company	Fiber	No Update to Provide		
Champaign Telephone Company	Fixed Wireless	No Update to Provide		
Cincinnati Bell Telephone Company LLC	Cable	No Update to Provide	3/16/2010	
Cincinnati Bell Telephone Company LLC	DSL	No Update to Provide	3/16/2010	
Cincinnati Bell Telephone Company LLC	Fiber	No Update to Provide	3/16/2010	
Cincinnati Bell Telephone Company LLC	Mobile Wireless	No Update to Provide	3/16/2010	

Cincinnati Communications, LLC	Backhaul	No Update to Provide	1/6/2011
Cincinnati Communications, LLC	BPL	No Update to Provide	1/6/2011
Cincinnati Communications, LLC	Fiber	No Update to Provide	1/6/2011
City of Wadsworth	Cable	No Update to Provide	7/19/2010
Citynet, LLC	Backhaul	No Update to Provide	4/5/2010
Clearwire Corporation	Fixed Wireless	No Update to Provide	3/3/2010
Conneaut Telephone Company	Cable	No Update to Provide	12/22/2009
Conneaut Telephone Company	DSL	No Update to Provide	12/22/2009
CoxCom Inc.	Backhaul	No Update to Provide	1/29/2010
Coyote Wireless Broadband LLC	Fixed Wireless	No Update to Provide	4/19/2010
DataBit Solutions Corp	Fixed Wireless	No Update to Provide	
Eagle Communications, LLC	Fixed Wireless	No Update to Provide	
Erie County Cablevision, Inc.	Cable	No Update to Provide	2/8/2010
FairPoint Communications	Cable	No Update to Provide	12/22/2009
FairPoint Communications	DSL	No Update to Provide	12/22/2009
Frontier Communications Corporation	Backhaul	No Update to Provide	1/22/2010
Gateway Telecom LLC	Fixed Wireless	No Update to Provide	3/22/2010
Glandorf Telephone Company, Inc.	Cable	No Update to Provide	3/9/2010
Glandorf Telephone Company, Inc.	DSL	No Update to Provide	3/9/2010
Hometown Cable Company	Fiber	No Update to Provide	4/15/2010
Hometown Cable Company	Fixed Wireless	No Update to Provide	4/15/2010
Hughes Network Systems, LLC	Satellite	No Update to Provide	2/5/2010
Jenco Speed Web	Fixed Wireless	No Update to Provide	4/28/2010
Kalida Telephone Company, Inc.	DSL	No Update to Provide	3/8/2010
Mango Bay Internet	Fixed Wireless	No Update to Provide	2/23/2010
McClure Telephone Company	DSL	No Update to Provide	4/5/2010
McClure Telephone Company	Fiber	No Update to Provide	4/5/2010
Mediacom Indiana LLC	Cable	No Update to Provide	1/12/2010
MegaPath Inc.	Backhaul	No Update to Provide	2/15/2010
Middle Point Home Telephone Company	DSL	No Update to Provide	1/19/2010
Mikulski Communications LLC	Fixed Wireless	No Update to Provide	4/13/2010
Minford Telephone Company	DSL	No Update to Provide	3/3/2010
Nelsonville TV Cable, Inc.	Cable	No Update to Provide	4/7/2010
New Knoxville Telephone Company	Backhaul	No Update to Provide	3/12/2010
New Knoxville Telephone Company	Cable	No Update to Provide	3/12/2010
New Knoxville Telephone Company	DSL	No Update to Provide	3/12/2010
New Knoxville Telephone Company	Fiber	No Update to Provide	3/12/2010
North Coast Wireless Communications	Fixed Wireless	No Update to Provide	4/14/2010
North West Net, Inc.	Fixed Wireless	No Update to Provide	4/6/2010
OneCommunity	Backhaul	No Update to Provide	4/14/2010
OneCommunity	Fixed Wireless	No Update to Provide	4/14/2010
Ottoville Mutual Telephone Company	Backhaul	No Update to Provide	12/22/2009
Ottoville Mutual Telephone Company	DSL	No Update to Provide	12/22/2009
Ottoville Mutual Telephone Company	Fiber	No Update to Provide	12/22/2009
Redbird Internet Services	Fixed Wireless	No Update to Provide	3/22/2010
Ridgeville Telephone Company	DSL	No Update to Provide	3/12/2010
S. Bryer Cable TV Corp.	Cable	No Update to Provide	11/8/2011
SAA bright.net, Inc.	Fixed Wireless	No Update to Provide	3/23/2010
Sherwood Mutual Telephone Association	DSL	No Update to Provide	3/25/2010
Sycamore Telephone Company	Backhaul	No Update to Provide	12/22/2009
Sycamore Telephone Company	DSL	No Update to Provide	12/22/2009
tw telecom of ohio, llc	Backhaul	No Update to Provide	4/21/2010
UDATAnet	Fixed Wireless	No Update to Provide	
US Signal Company, LLC	Backhaul	No Update to Provide	6/17/2010
Vaughnsville Telephone Company, Inc	DSL	No Update to Provide	12/22/2009
Verizon Communications, Inc.	Backhaul	No Update to Provide	12/14/2009
Wabash Mutual Telephone Company	DSL	No Update to Provide	3/30/2010
Wabash Mutual Telephone Company	Fixed Wireless	No Update to Provide	3/30/2010
Waldron Communication Company	Backhaul	No Update to Provide	3/19/2010
Waldron Communication Company	Fixed Wireless	No Update to Provide	3/19/2010
WideOpenWest Finance, LLC	Cable	No Update to Provide	
Wilkshire Communications, Inc.	Fixed Wireless	No Update to Provide	3/16/2010
XO Communications, LLC	Backhaul	No Update to Provide	2/12/2010
Avolve, Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	2/17/2011
Benton Ridge Telephone Company	Fixed Wireless	No Update Provided - Use Last Submission Data	4/13/2010
Bryan Municipal Utilities	Cable	No Update Provided - Use Last Submission Data	
Bryan Municipal Utilities	Fiber	No Update Provided - Use Last Submission Data	
Cequel Communications	Cable	No Update Provided - Use Last Submission Data	12/15/2009
Cogent Communications, Inc.	Backhaul	No Update Provided - Use Last Submission Data	
ConnectLink, Inc.	Backhaul	No Update Provided - Use Last Submission Data	3/15/2010
D&P Communications, Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	
Dark Horse Networks, LLC	Fixed Wireless	No Update Provided - Use Last Submission Data	3/15/2010
Doylestown Telephone Company	Cable	No Update Provided - Use Last Submission Data	4/14/2010
Doylestown Telephone Company	DSL	No Update Provided - Use Last Submission Data	4/14/2010
Doylestown Telephone Company	Fiber	No Update Provided - Use Last Submission Data	4/14/2010

DuplexCom of Ohio, LLC	Fixed Wireless	No Update Provided - Use Last Submission Data		
East Cleveland Cable TV and Communications, LLC	Cable	No Update Provided - Use Last Submission Data	4/13/2010	
Farmers Mutual Telephone Company	DSL	No Update Provided - Use Last Submission Data	12/22/2009	
Farmers Mutual Telephone Company	Fixed Wireless	No Update Provided - Use Last Submission Data	12/22/2009	
Fort Jennings Telephone Company	DSL	No Update Provided - Use Last Submission Data	4/2/2010	
Fort Jennings Telephone Company	Fiber	No Update Provided - Use Last Submission Data	4/2/2010	
Freund Enterprises Inc.	Backhaul	No Update Provided - Use Last Submission Data	3/2/2010	
Freund Enterprises Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	3/2/2010	
GMN Wireless Broadband	Fixed Wireless	No Update Provided - Use Last Submission Data	3/15/2010	
Horizon Telecom, Inc.	DSL	No Update Provided - Use Last Submission Data	3/27/2010	
Horizon Telecom, Inc.	Fiber	No Update Provided - Use Last Submission Data	3/27/2010	
KeyOn Communications, Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	10/15/2009	[SEP-07-12 Mark Messer] Informed by New Knoxville Telephone they have acquired the assets of KeyOn but have not submitted the mergers & acquisitions document.
King Office Service, Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	4/9/2010	
Level 3 Communications, LLC	Backhaul	No Update Provided - Use Last Submission Data	12/14/2009	
LightSpeed Technologies	Fixed Wireless	No Update Provided - Use Last Submission Data	2/9/2010	
Mechcom Dot Net	Fixed Wireless	No Update Provided - Use Last Submission Data	4/22/2010	
NexGenAccess Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	4/16/2010	
Nova Telephone Company	DSL	No Update Provided - Use Last Submission Data	4/5/2010	
nTelos, Inc.	DSL	No Update Provided - Use Last Submission Data		
Omnicity, Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data		
RAA Services	Fixed Wireless	No Update Provided - Use Last Submission Data	3/12/2010	
RTEC Communications, Inc.	Cable	No Update Provided - Use Last Submission Data	4/13/2010	
RTEC Communications, Inc.	Fiber	No Update Provided - Use Last Submission Data	4/13/2010	
Slane Telecom	Fixed Wireless	No Update Provided - Use Last Submission Data	4/9/2010	
Southern Ohio Communication Services, Inc.	Fixed Wireless	No Update Provided - Use Last Submission Data	4/20/2010	
Telephone Service Company	Cable	No Update Provided - Use Last Submission Data	4/6/2010	
Telephone Service Company	DSL	No Update Provided - Use Last Submission Data	4/6/2010	
Telephone Service Company	Fiber	No Update Provided - Use Last Submission Data	4/6/2010	
The City of Dover	Backhaul	No Update Provided - Use Last Submission Data	4/9/2010	
Wabash Mutual Telephone Company	Fiber	No Update Provided - Use Last Submission Data	3/30/2010	
Windstream Communications	Backhaul	No Update Provided - Use Last Submission Data	1/28/2010	
Windstream Communications	DSL	No Update Provided - Use Last Submission Data	1/28/2010	
Windstream Communications	DSL	No Update Provided - Use Last Submission Data	1/28/2010	
YES Learning and Computer Center Inc	Backhaul	No Update Provided - Use Last Submission Data	4/24/2010	
Zayo Group, LLC	Backhaul	No Update Provided - Use Last Submission Data		
Windstream Communications	Backhaul	Solicited Initial Data	1/28/2010	
Windstream Communications	DSL	Solicited Initial Data	1/28/2010	
EarthLink Business	Backhaul	Other		[AUG-08-12 Wes Kerr] A company representative noted that they do not currently have what is necessary to accurately report this data.
Reliance Globalcom Services, Inc.	Backhaul	Refused to Participate		[JUN-08-12 Wes Kerr] a company representative responded "no thank you" when asked if they would be participating this round.
Advanced Computer Connections	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to numerous contact attempts made during past mapping submission periods, 4 contact attempts were made this period.
FiberTower Corporation	Backhaul	Non-Responsive to Multiple Attempts		4 contact attempts were made this period between May 2, 2012 and August 7, 2012.

Hocking Internet Technologies, Ltd	Fixed Wireless	Non-Responsive to Multiple Attempts	8/12/2010	In addition to numerous contact attempts made during past mapping submission periods, 4 contact attempts were made this period.
Linked Communications, LLC	Fixed Wireless	Non-Responsive to Multiple Attempts		In addition to numerous contact attempts made during past mapping submission periods, 4 contact attempts were made this period.
New Albany Net	Fiber	Non-Responsive to Multiple Attempts		In addition to numerous contact attempts made during past mapping submission periods, 4 contact attempts were made this period.
Bellaire Television Cable Co. Inc.	Cable	Slated Field Audit for Estimated Coverage Analysis		
Firewire Internet	Fixed Wireless	Slated Field Audit for Estimated Coverage Analysis		
Firewire Internet	DSL	Slated Field Audit for Estimated Coverage Analysis		