

New Jersey Broadband Mapping Project:

Detailed Methodology Report on Data Integration and Validation Procedures For September 2011 Submission

September 30, 2011

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Overview

This document is a concatenation of the individual data reports for each provider whose data was processed and included in the October 2011 submission to the NTIA.

Provider: Advanza

Received: August 2011

Submission date: October 2011

This report presents details on processing of broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Advanza states that NONE is required.

Section 2: Submission Overview

AVAILABILITY DATA – RECEIVED AUGUST, 2010				
ID	Provider name		Advanza Telecom Inc	
	“Doing business as” name		Advanza	
	FRN		0017029141	
	Holding Company Name		Advanza Telecom, Inc.	
	Holding Company Number		180002	
FOR WIRELINE				
Filetypes	1 xlsx spreadsheet			
File size	NJBB_0017029141_AddressLevelAvailability-20110630.xls file has 47 records			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	All provided speeds have code 4 (1.5 mbps ≤ BW < 3.0 mbps) for all records, which would make sense if all service is T1
	Typical-upstream	X	address	
	Typical-downstream	X	address	
	Advertised-upstream	X	address	
	Advertised-downstream	X	address	
	Subscriber-weighted-up	☐	Not provided	
	Subscriber-weighted-down	☐	Not provided	
Technology Type	Code 30 (= Other Copper Wireline) given for all records			
End-user specification	Data not available			
Comments:				

INTERCONNECTION DATA	
ID	
File size	No data provided
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments:	

Section 3: Submission File Details

Received one file by secure upload to the connectingnj web site.

Size	Name
71,168	NJBB_0017029141_AddressLevelAvailability-20110630.xls

The addresses in this file appear to be for individual customers (as opposed to addresses of multi-tenant buildings in a central business district).

Section 4: Validations and Results

All addresses were successfully geocoded using Arroyo with Yahoo geocoder. All records successfully spatially joined on 2010 NJ Census Block shapes.

Passed all validations described in summary report.

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we discover the census block for each customer address, and then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

Loaded from the file mentioned above. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Advanza Telecom Inc" (no trailing period)
DBANAME	Not supplied; set same as PROVNAME

PROVIDER_TYPE	Set to 1
FRN	Set to "0017029141"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column Tehcnology of Transmission (sic)
MAXADDOWN	As supplied in column Maximum Advertised Downstream Speed
MAXADUP	As supplied in column Maximum Advertised Upstream Speed
TYPICDOWN	Set to null (see below)
TYPICUP	Set to null (see below)
ENDUSERCAT	Set to null (see below)
SHAPE	Copied from Census Bureau TigerLine 2010, as matched by spatial join on geocoded address

Internal processing notes:

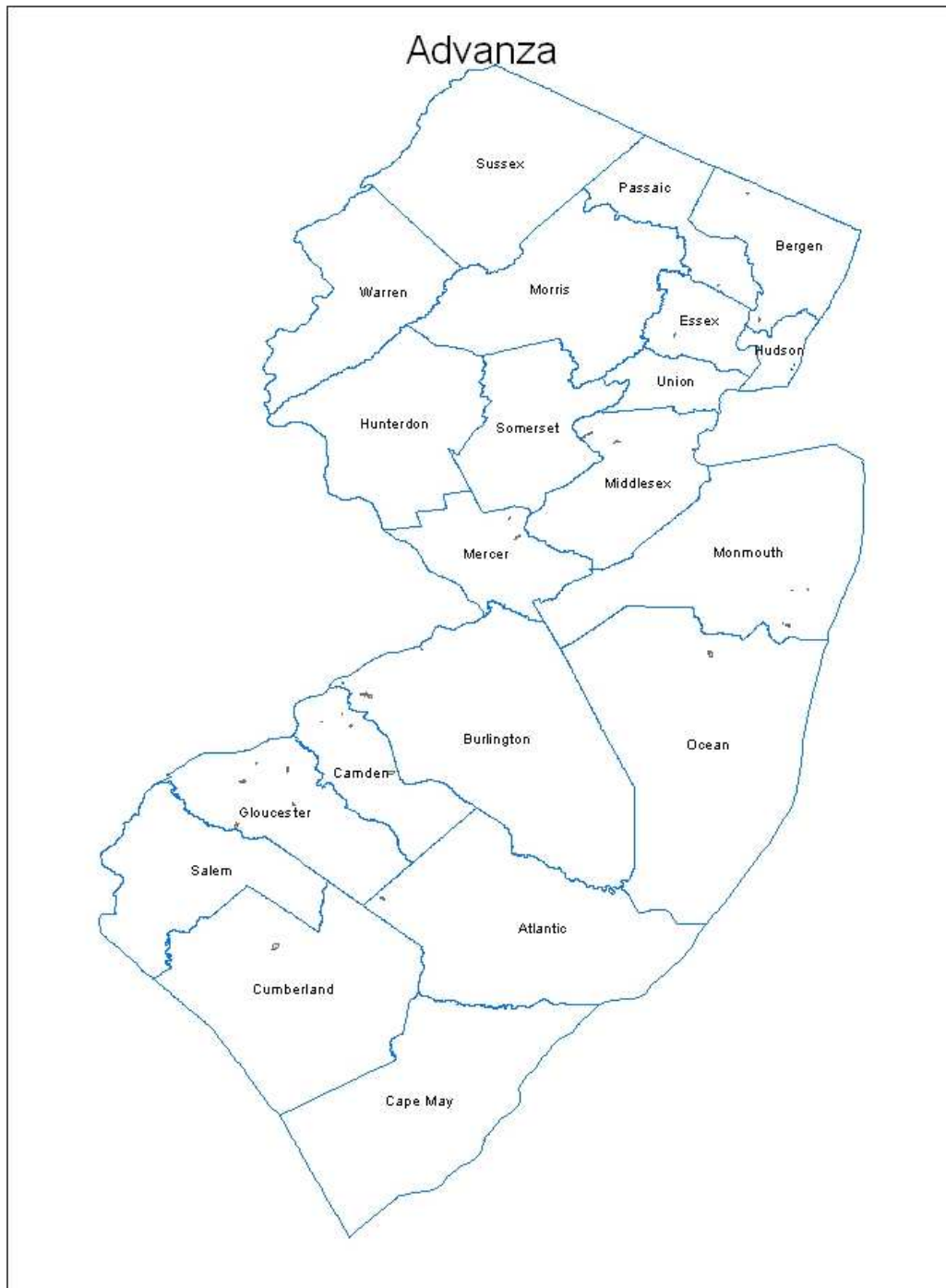
1. Geocoded the addresses using an Arroyo flow and the Yahoo geocoder, leaving the result with address and lat, long data in an Excel spreadsheet.
2. Imported the spreadsheet to a simple ESRI geodatabase table
3. Added point shapes corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option
4. Added a column containing the ID of the containing year 2010 census block using ArcCatalog's spatial join feature. The newly created point shapes are joined against census block shapes from reference data.
5. Discarded typical speeds since they were in all cases identical to maximum advertised speeds, not measured values.
6. The end user category value as originally supplied applied to an address. The NTIA directs us to report the "predominant" end-user category, which is not supplied here.
7. Copied contents to the target data model table with the transformations specified above. Discarded 15 rows with duplicate census blocks.

Section 6: Clarification Questions and Responses

None required as part of initial review.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: AT&T Mobility LLC

Received: August 4 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NDA was executed with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA		
ID	Provider name	AT&T Mobility LLC
	"Doing business as" name	AT&T Mobility LLC
	FRN	0004979233 for mobility NB: "AT&T Corporation, Inc." with FRN 0004979244 for middle mile
FOR WIRELESS		
Filetypes	shapefile collection: shp/dbf/prj/shx, mdb, gdb, imagefile etc.	Spreadsheet (XLSX) and shapefile that uses projection GCS_WGS_1984
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Upstream max adv	State
	Downstream max adv	State
	Upstream typical	Not provided
	Downstream typical	Not provided
	Subscriber-weighted	Not provided
Technology Type	Spectrum (Mhz, FCC code)	Cellular (code 1) and PCS (code 3)
Comments:		
INTERCONNECTION DATA		

ID	
File size	Single row
Ownership	Code 0
Transport Type	Code 1
Data Rates/Capacity	Code 6
Location	Newark, NJ
Comments: Single location provided	

Data overview:

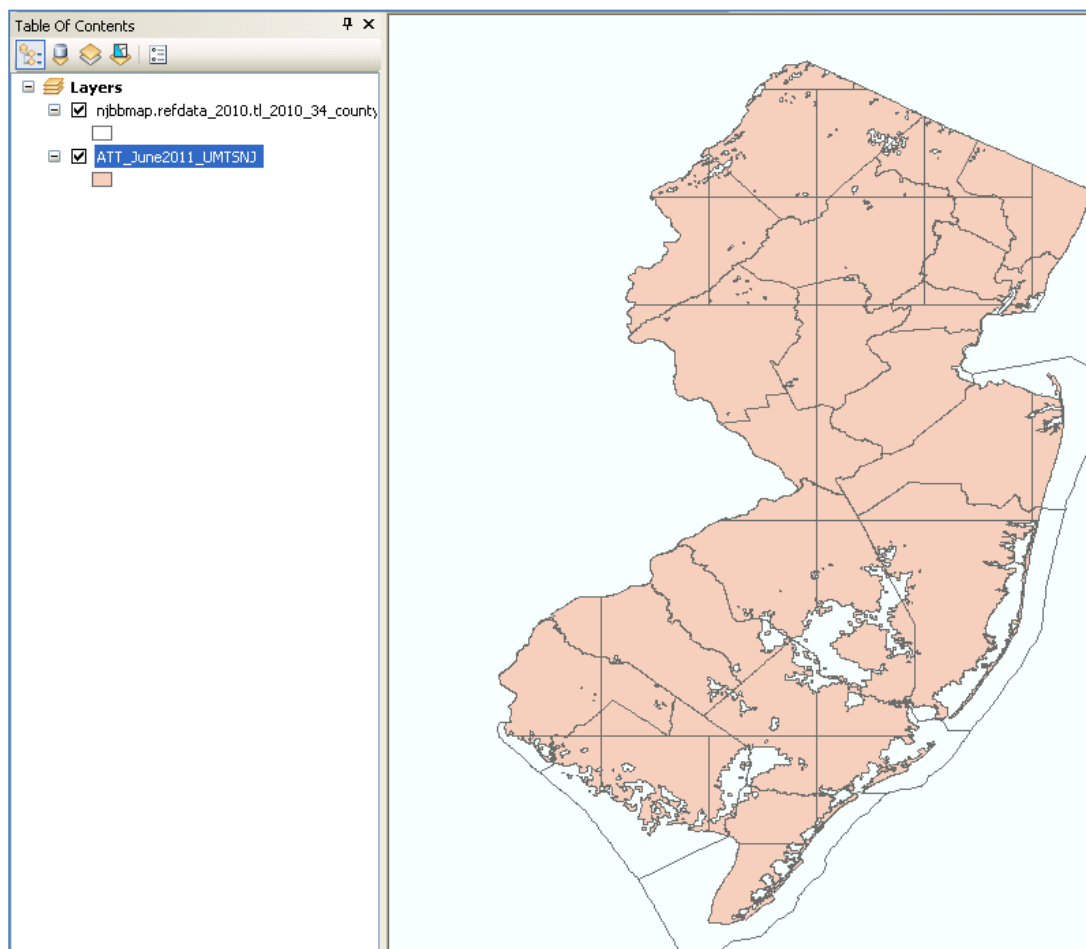


Figure. Quick load of data into ArcMap

Section 3: Submission File Details

Received six (6) files by SECURE UPLOAD:

Size kb	Name
9	Mobility Response NJ June 2011.xlsx
3	ATT_June2011_UMTSNJ.DBF
1	ATT _ June2011_UMTSNJ.PRJ
488	ATT _ June2011_UMTSNJ.shp
1	ATT _ June2011_UMTSNJ.SHX
8	ATT Router Locations NJ June 2011.xlsx

Subscriber-Weighted Nominal Speed by county was NOT provided.

Middle-mile (connection point) data is available in a previous submission.

Section 4: Validations and Results

File "Mobility Response NJ June 2011.xlsx"

Contains a single row with provider name, DBA name, FRN, technology of transmission, a specification of the spectrum bands used, and the maximum advertised up/down speeds. The FRN is missing the leading zeros. The TechTrans code is valid. The max speed values are plausible.

Shapefile "NJ_June2011_UMTSNJ" (DBF, PRJ, SHP, and SHX file extensions)

Contains a 63 rows representing a multiple polygons. No text attributes are associated with the row. The coverage area is most of the State of New Jersey, broken into separate shapes by various horizontal and vertical lines. The map strongly resembles the map shown at www.wireless.att.com.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from supplied Excel Spreadsheet "ATT Router Locations NJ June 2011.xlsx" (1 row). The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied
DBANAME	As supplied
FRN	Added leading zeroes to read 0004496774 (see below)

OWNERSHIP	As provided in column "Ownership"
BHCAPACITY	As provided in column "Serving Facility Capacity"
BHTYPE	As provided in column "Serving Facility Type"
LATITUDE	As provided in column "Latitude_geo"
LONGITUDE	As provided in column "Longitude_geo"
ELEVFEET	Set to "0" (zero)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Created using ESRI ArcDesktop

Internal notes on processing:

1. Used the provider name, DBA name, and FRN as supplied, after adding back leading zeros to the FRN. Note that the middle-mile entity is different than the mobility entity and per clarification from AT&T during the October 2010 submission round, should indeed be reported differently.
2. Imported the excel sheet to a geodatabase table.
3. Added point for the Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. Mapped to separate shape file to correct tolerance.
5. Added a column containing the ID of the containing year 2010 census block via a spatial join of the points and the census block shapes from reference data.

NTIA Table BB_Service_Wireless

Loaded from the supplied shapefile "EVDO_NJ". The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "AT&T Mobility LLC"
DBANAME	As supplied in file Mobility Response NJ June 2011.xlsx
FRN	Set to 0004979233
TRANSTECH	As supplied in file Mobility Response NJ June 2010.xlsx
SPECTRUM	Set to "3" per translation shown below
MAXADDOWN	Set to "4", see below.
MAXADUP	Set to "3", see below.
TYPICDOWN	Not provided, set to null
TYPICUP	Not provided, set to null
STATEABBR	Set to "NJ"
SHAPE	As supplied.

Internal notes on processing:

1. The supplied shape uses geographic coordinate system name GCS_WGS_1984. The NTIA data model requires the same coordinate system. No geographic transformation was required, but the XY Tolerance values differ if the shapefile is

imported trivially into the geodatabase. Imported shape then mapped to separate shape with proper tolerance.

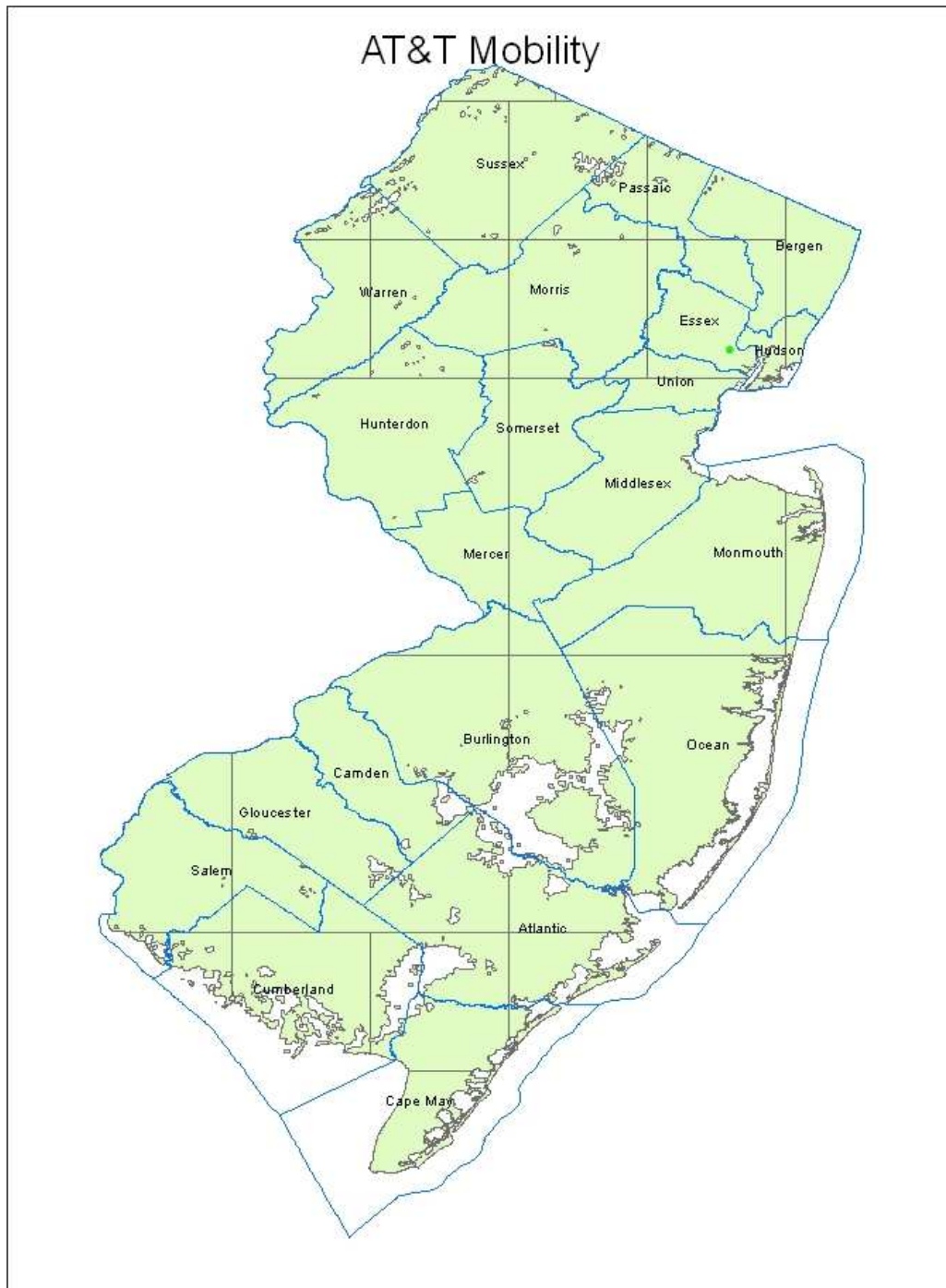
2. Spectrum: AT&T Mobility provided multiple columns of data about their spectrum use. Searching on the web suggests that AT&T 3G uses frequencies 850MHz and 1900Mhz. The NTIA data model has a single column for spectrum. No mapping is provided for frequency 850MHz. Frequency 1900MHz corresponds to NTIA "SPECTRUM USED" code value 3.
3. Speeds: The maximum advertised speeds provided in the spreadsheet are 1.7 Mbps down and 1.2 Mbps up. For max adv speeds we encoded the submitted down speed as value 4 (range 1.5-3 Mbps) and encoded the submitted up speed as value 3 (range 768 Kbps – 1.5 Mbps).
4. The only data imputed was the state abbreviation.

Section 6: Clarification Questions and Responses

None

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Broadview Networks, Inc.

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_ConnectionPoint_MiddleMile

No changes to columns since the last submission.

Total rows loaded: 30

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.
3. Discarded 22 records for addresses that could not be geocoded in New Jersey (mostly in New York State).
4. Discarded 150 records with speeds that do not meet the NOFA definition of broadband
5. Discarded 354 records with duplicate census blocks (i.e., multiple addresses in the same census block)

Total rows loaded: 1404

NTIA Table BB_Service_RoadSegment

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.
3. See discards above.
4. Found 6 large census blocks while loading the BB_Service_CensusBlock table.
5. Found 247 road segments in these large census blocks.

Total rows loaded: 247

Notes

To create the "providerInput" tables for this submission, we removed the 2000 census block column from the old providerInput tables and performed a spatial join against the 2010 census block reference data table.

Provider Interactions

Received email from Jarrod Harper on 8/22/2011 instructing us to use previously submitted data.

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Tuesday, September 13, 2011 1:10 PM
To: 'Harper, Jarrod'
Cc: ConnectingNJ@research.telcordia.com
Subject: NJ BB Clarification

Jarrod,

We have reviewed the data you submitted to the NJ Broadband Mapping program and have a few clarification questions. We had asked these questions when you submitted the data last March, but we did not receive a reply from you.

1. The values you provided for the max. advertised up/down speeds appear to be the price plan choices. Can we use the highest values as the Maximum Advertised speeds across all your locations??
2. Do you own or lease the facilities at the interconnection points you have listed?
3. You provided the service facility type for the middle-mile points but not the facility capacity. Would it be possible for you to provide this data.

Thanks for your participation in the program!

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Provider: Broadview Networks, Inc.

Received: September 2010
Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

No NDA executed.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Broadview Networks Inc.	
	“Doing business as” name		Broadview Networks	
	FRN		0003775285	
FOR WIRELINE				
Filetypes	Excel spreadsheet			
File size	1,936 data rows			
Speeds	Type		Address level data	Instead of max advertised, each service address price plan is shown.
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Customer speed choice listed	
	Advertised-downstream		Customer speed choice listed	
	Subscriber-weighted-nominal speed		Not provided	
Technology Type	10 (ADSL), 20 (SDSL), 30 (Other Wireline)			
End-user specification	Yes			
Comments:				
INTERCONNECTION DATA				
ID				
File size	Excel spreadsheet with 31 rows			
Ownership	Not provided			
Transport Type	Code 2, copper			

Data Rates/Capacity	Not provided
Location	Address provided
Comments:	

Section 3: Submission File Details

Received 2 files by secure upload:

Size	Name
514560	NJ Table 1 063010.xls
24576	NJ Table 8 - Middle Mile & Backbone Interconnection Point 063010.xls

Section 4: Validations and Results

Table 1 has 1,936 service addresses (with abbreviated town names and many missing zip codes), the technology speed tiers in service at each address, and the count of connections. Most records contain max advertised up/down speed codes, but over 100 do not. Records have no typical up/down speed and no specification of subscriber-weighted nominal speed. Table 1 shows no provider name, no DBA name, and no FRN. Geocoding succeeded for N of the addresses and failed for 628 addresses. Most of the addresses that failed geocoding have no street component, just a city name.

Table 8 has 33 middle-mile points, with addresses, CLLI codes, and the service facility type (all copper). There is no specification of ownership or facility capacity. Table 8 lists provider name, DBA name, and FRN. Geocoding succeeded for 32 of the addresses and failed for 1 ("Delsea Dr N & Focer St, Glassboro, NJ 08028, USA").

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from data supplied in the XLS sheet. The following table explains the necessary transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "Broadview Networks Inc."
DBANAME	Set to "Broadview Networks"
FRN	As supplied in column "FRN"

OWNERSHIP	Set to null, not supplied
BHCAPACITY	Set to null, not supplied
BHTYPE	As supplied in column "Serving Facility Type"
LATITUDE	Obtained by geocoding the address
LONGITUDE	Obtained by geocoding the address
ELEVFEET	Set to "0" (zero), not supplied
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2000 Census Bureau TigerLine reference data
SHAPE	Point shape created using ESRI ArcDesktop

Internal notes on processing:

6. Geocoded the addresses to obtain Latitude, Longitude value pairs.
7. Created an excel sheet and imported to a geodatabase table.
8. Added a point shape corresponding to the Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
9. Added a column containing the ID of the containing Year 2010 Census Block via a spatial join of the points and the census block shapes from reference data.

NTIA Table BB_Service_CensusBlock

The standard NDA prohibits us from submitting address-level data to the NTIA. So we do not populate the table BB_Service_Address with the availability data. Instead, we discover the census block for each customer address, then report the census block shape drawn from Census Bureau TigerLine reference data.

Loaded from supplied file of addresses after applying the corrections discussed below. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Broadview Networks Inc."
DBANAME	Set to "Broadview Networks"
PROVIDER_TYPE	Set to 1
FRN	Set to " 0003775285"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column Technology
MAXADDOWN	As supplied in column Max Advertised Upstream
MAXADUP	As supplied in column Max Advertised Downstream

TYPICDOWN	Set to null
TYPICUP	As supplied in column Typical Upstream Speed (sic)
SHAPE	Copied from Census Bureau TigerLine 2010, as matched by spatial join on geocoded address

Internal processing notes:

8. Geocoded the addresses using the Google geocoder to obtain a Latitude, Longitude pair for each.. Addresses that yielded results with accuracy of 6 or below were excluded; only intersection (7) or rooftop (8) accuracy is acceptable. The list of addresses that failed geocoding is available.
9. Created an Excel sheet and imported it to a geodatabase table.
10. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
11. Added a column containing the ID of the containing year 2000 census block via a spatial join of the point shapes and the census block shapes from reference data.
12. Discarded 150 rows with no value for the maximum advertised download speed.
13. Discarded 383 rows with duplicate census blocks.
14. Loaded 1,377 census blocks.

NTIA Table BB_Service_RoadSegment

Loaded with street segments in census blocks larger than 2 square miles as gathered from Census Bureau TigerLine reference data. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Broadview Networks Inc."
DBANAME	Set to "Broadview Networks"
PROVIDER_TYPE	Set to 1
FRN	Set to "0003775285"
ADMIN	From reference data
ADDMAX	From reference data
PREDIR	Set to null, not available in reference data
STREETNAME	From reference data
STREETTYPE	Set to null, not available in reference data
SUFFDIR	Set to null, not available in reference data
CITY	From reference data
STATECODE	Set to "NJ"
ZIP5	From reference data
ZIP4	Set to null, not available in reference data
TRANSTECH	As supplied in column Technology
MAXADDOWN	As supplied in column Max Advertised Upstream
MAXADUP	As supplied in column Max Advertised Downstream
TYPICDOWN	Set to null, not provided

TYPICUP	Set to null, not provided
SHAPE	From reference data

Internal processing notes:

1. Discovered all street segments that touch census blocks larger than 2 square miles using the census block list discovered as discussed for table BB_Service_Censusblock above.
2. Joined against reference data to discover street segment, for a total of 208 entries.

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]

Sent: Tuesday, September 13, 2011 1:10 PM

To: Harper, Jarrod

Cc: ConnectingNJ@research.telcordia.com

Subject: NJ BB Clarification

Jarrod,

We have reviewed the data you submitted to the NJ Broadband Mapping program and have a few clarification questions. We had asked these questions when you submitted the data last March, but we did not receive a reply from you.

1. The values you provided for the max. advertised up/down speeds appear to be the price plan choices. Can we use the highest values as the Maximum Advertised speeds across all your locations??
2. Do you own or lease the facilities at the interconnection points you have listed?
3. You provided the service facility type for the middle-mile points but not the facility capacity. Would it be possible for you to provide this data.

Thanks for your participation in the program!

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Harper, Jarrod [mailto:jharper@broadviewnet.com]

Sent: Tuesday, September 13, 2011 3:45 PM

To: ConnectingNJ@research.telcordia.com

Subject: RE: NJ BB Clarification

John,

1. Yes, use those across the locations
2. The facilities are leased
3. I will have to inquire about this and get back to you on it.

Thanks,

Jarrod

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Tuesday, September 13, 2011 3:48 PM
To: 'Harper, Jarrod'
Cc: ConnectingNJ@research.telcordia.com
Subject: RE: NJ BB Clarification

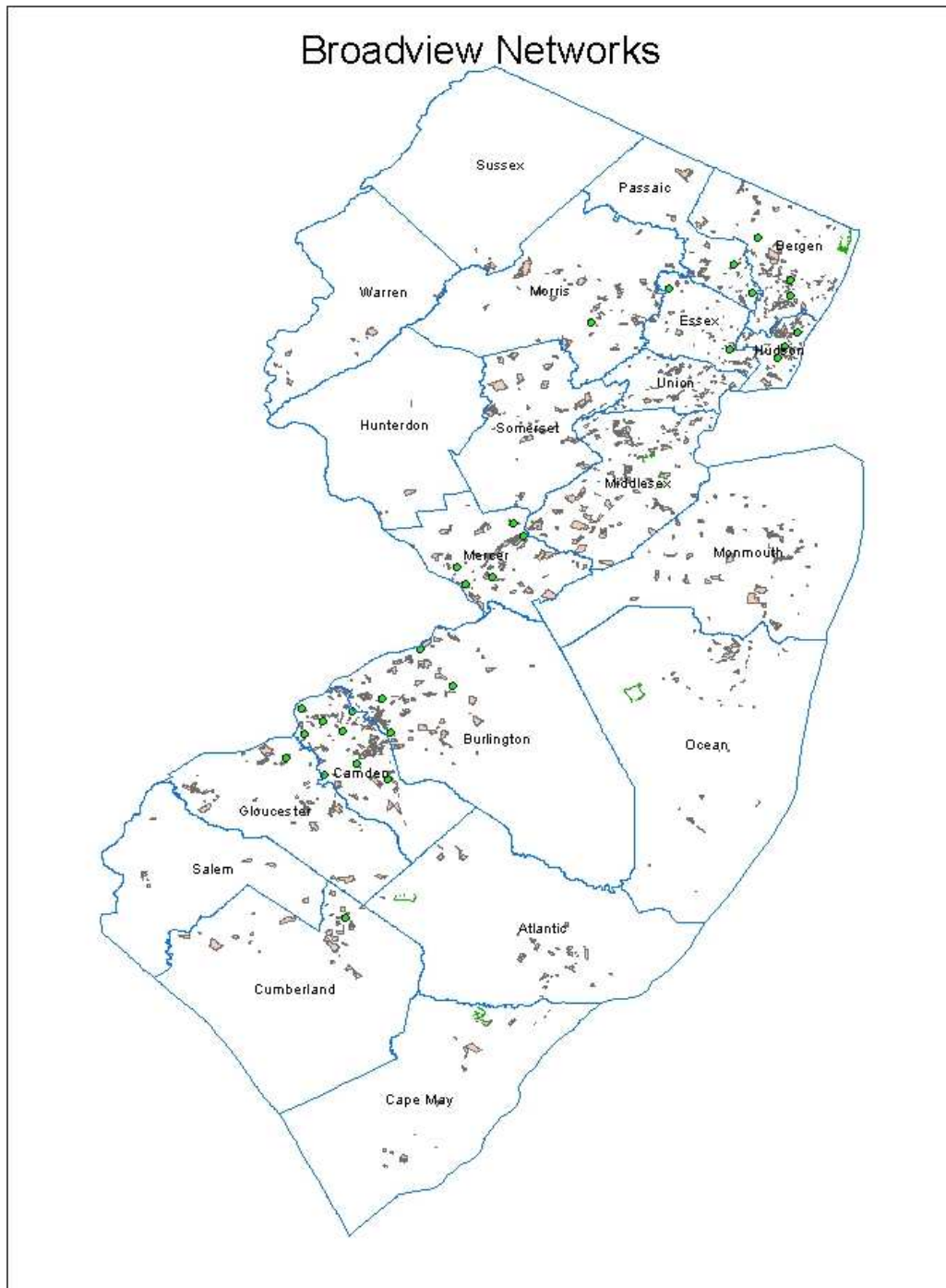
Jarrod,

Thanks for the quick response. We'll begin processing with the first two answers and will hold up the middle mile awaiting your answer to item 3.

John

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Cavalier Telephone Mid-Atlantic LLC

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

6. Column "blocksubgroup" was dropped.
7. Column "endusercat" was added; set to null because data was not supplied.

Notes

To create the "providerInput" table for this submission, we removed the 2000 census block column from the old providerInput table and performed a spatial join against the 2010 census block reference data table.

NTIA Table BB_ConnectionPoint_MiddleMile

1. No changes.

Notes

To create the "providerInputMiddleMileToI" table for this submission, we removed the 2000 census block column from the old providerInput table and performed a spatial join against the 2010 census block reference data table.

Provider Interactions

Margaret Ring reported on 9/8/2011 that there were no substantive changes to coverage, speed or middle mile since last submission.

Connecting New Jersey - Broadband Provider Data Report
Provider: Cavalier Telephone Mid-Atlantic LLC
Submission date: April 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "reseller" was dropped.
2. Set the new column "provider_type" to value 1 ("Broadband provider as described in the NOFA")
3. Dropped non-measured typical up/down speed code values.

NTIA Table BB_ConnectionPoint_MiddleMile

1. No changes.

Provider Interactions

From: Ring, Margaret H. [mailto:mhring@cavtel.com]
Sent: Friday, March 04, 2011 1:03 PM
To: 'ConnectingNJ@research.telcordia.com'
Subject: RE: NJ BB Data Collection - Spring 2011

Cavalier Telephone has had no substantial changes to its broadband footprint since its last data submission. Please feel free to use the same data for this round of reporting. Let me know if you have any questions or concerns.

Regards,

Margaret Ring, Director
Regulatory
Cavalier Telephone
850.465.1748

Provider: Cavalier Telephone Mid-Atlantic LLC
 Received: August 2010
 Submission date: August 2010

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NDA in place

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Cavalier Telephone Mid-Atlantic LLC	
	“Doing business as” name		No DBA name (confirmed with company)	
	FRN		0015-7991-33	
FOR WIRELINE				
Filetypes	Excel (Cavalier NJ Broadband Response.xls)			
File size	52736 bytes; 122 records			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Typical up speeds 3,4; down 5,6,7,7. Adv up speed 4, down 6. Note typical speed code that is greater than the max advertised speed code Company clarified during October submission that the 7 typical speed should be a 6.
	Typical-upstream		Address	
	Typical-downstream		Address	
	Advertised-upstream		Address	
	Advertised-downstream		Address	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	Initial submission included Codes 1 and 3. Provider clarified during October 2010 submission that these should be ADSL (1=10) and Other Copper Wireline (3=30).			
End-user specification	Codes 1 (residential) and 3 (small business).			
Comments:				
INTERCONNECTION DATA				
ID				

File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments:	

Section 3: Submission File Details

Received 1 file by email.

Size	Name
52736	Cavalier NJ Broadband Response.xls

The file contains 124 rows and 122 data records for broadband availability by address, and 18 rows of middle-mile connection points.

Section 4: Validations and Results

Some of the address records (13) are post office boxes, which are invalid for this purpose.

All validations described in summary were applied

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from supplied file "Cavalier NJ Broadband Response.xls", tab "Middle Mile Interconnection". The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "Provider Name"
DBANAME	Not supplied; set same as PROVNAME
FRN	As supplied in column "FRN", after removing hyphens
OWNERSHIP	As supplied in column "Ownership"
BHCAPACITY	As supplied in column "Serving Facility Capacity"
BHTYPE	As supplied in column "Serving Facility Type"

LATITUDE	Created by geocoding the supplied address
LONGITUDE	Created by geocoding the supplied address
ELEVFEET	Set to "0" (zero)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Point shape created using ESRI ArcDesktop

Internal notes on processing:

10. Geocoded the addresses using the Google geocoder.
11. Created an excel sheet and imported to a geodatabase table.
12. Added point shapes corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
13. Added a column containing the ID of the containing year 2000 census block via a spatial join of the point shapes and the census block shapes from reference data.

NTIA Table BB_Service_CensusBlock

The standard NDA prohibits us from submitting address-level data to the NTIA. So we do not populate the table BB_Service_Address with the availability data. Instead, we discover the census block for each customer address, then report the census block shape drawn from Census Bureau TigerLine reference data.

Loaded from supplied file "Cavalier NJ Broadband Response.xls", tab "Wireline Address-Level" after applying the corrections discussed below. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "Provider Name"
DBANAME	Not supplied; set same as PROVNAME
PROVIDER_TYPE	Set to 1
FRN	As supplied in column "FRN", after removing hyphens
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column Technology
MAXADDOWN	As supplied in column Max Advertised Upstream
MAXADUP	As supplied in column Max Advertised Downstream
TYPICDOWN	Set to null
TYPICUP	Set to null
SHAPE	Copied from Census Bureau TigerLine 2010,

	as matched by spatial join on geocoded address
--	--

Internal processing notes:

1. Created a corrected spreadsheet based on response to questions, see next section.
2. Geocoded the addresses using the Google geocoder to obtain a Latitude, Longitude pair for each.. Addresses that yielded results with accuracy of 6 or below were excluded; only intersection (7) or rooftop (8) accuracy is acceptable. The list of addresses that failed geocoding is available.
3. Created an Excel sheet and imported it to a geodatabase table.
4. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
5. Added a column containing the ID of the containing year 2000 census block via a spatial join of the point shapes and the census block shapes from reference data.
6. Discarded 173 rows with duplicate census blocks while preserving the greatest speed.

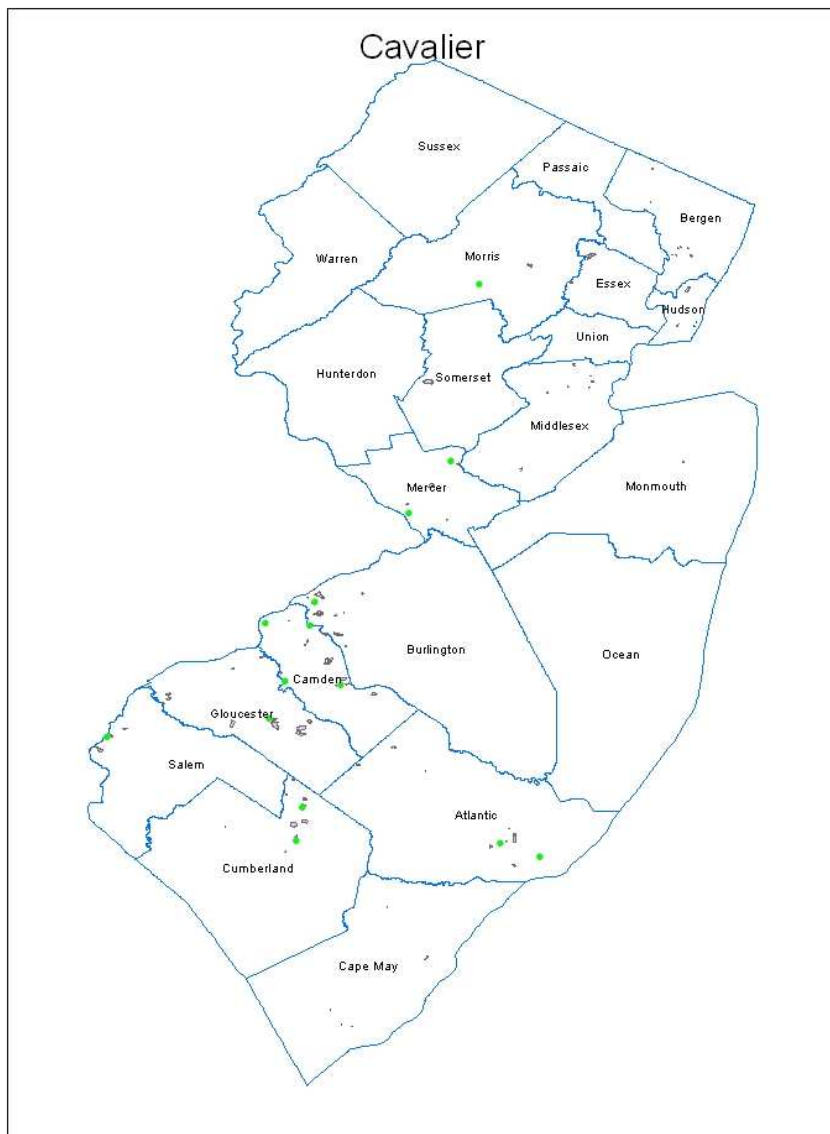
The mechanized procedure for the three steps is described in file GeoExcel_proc.txt.

Section 6: Clarification Questions and Responses

None this round

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: CenturyTel DBA Century Link

Received: August 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Century Link executed an NDA with NJ OIT; the data files refer to the NDA.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		CenturyLink, Inc. (per email)	
	“Doing business as” name		Century Link	
	FRN		0018626853	
FOR WIRELINE				
Filetypes	Shapefiles “ResultantBroadBandInfo-NJ_6_30_11_polyline” and “...region”			
File size				
Speeds	Type		Spatial Resolution: county	
	Typical-upstream		Census block and street segment (w. TigerLine REF)	
	Typical-downstream		Census block and street segment (w. TigerLine REF)	
	Advertised-upstream		Census block	
	Advertised-downstream		Census block	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down			
Technology Type	10 (ADSL)			
End-user specification	Not provided			
Comments:				
INTERCONNECTION DATA				

ID	
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: Middle-mile data was not provided this submission.	

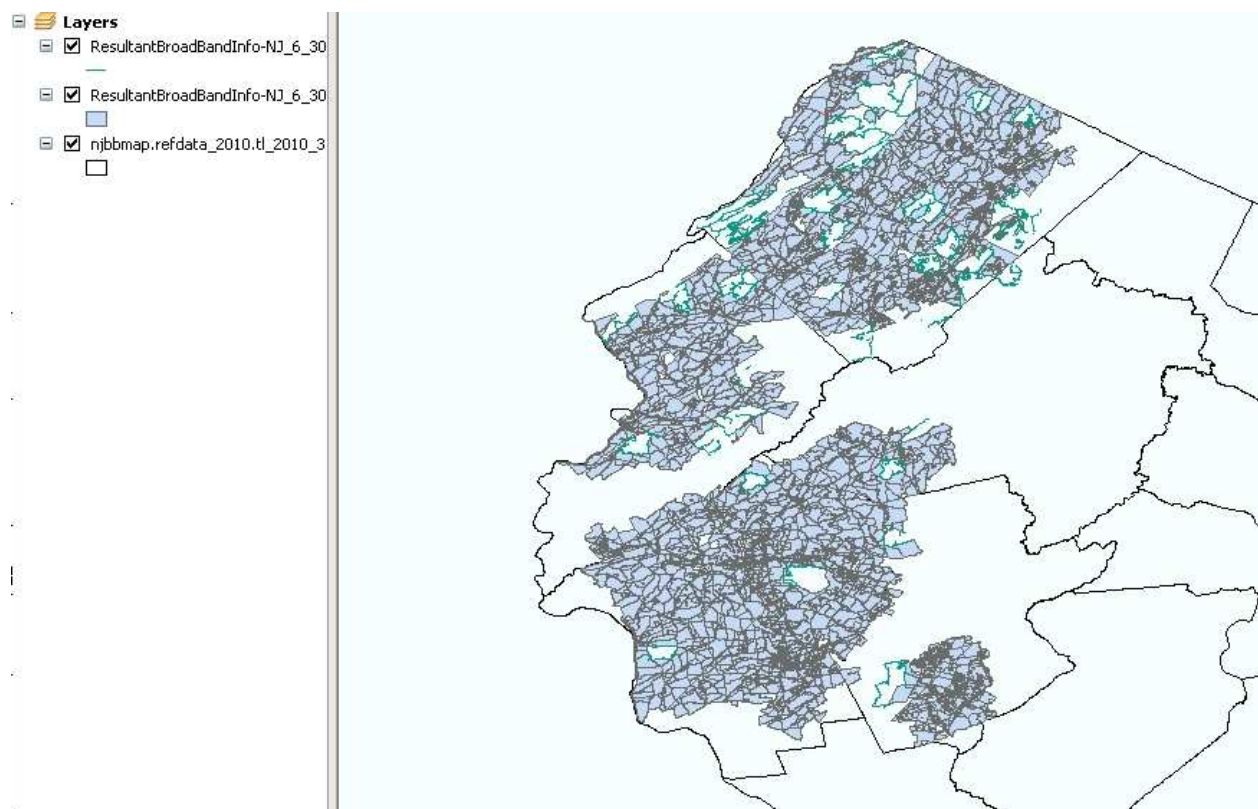


Figure1. Quick load test results

Section 3: Submission File Details

Size (kb)	Name
1202	ResultantBroadBandInfo-NJ_polyline.dbf
1	ResultantBroadBandInfo-NJ_polyline.prj
723	ResultantBroadBandInfo-NJ_polyline.shp
29	ResultantBroadBandInfo-NJ_polyline.shx
2474	ResultantBroadBandInfo-NJ_region.dbf
1	ResultantBroadBandInfo-NJ_region.prj

11745 ResultantBroadBandInfo-NJ_region.shp
58 ResultantBroadBandInfo-NJ_region.shx

Section 4: Validations and Results

Two shapefiles were submitted:

Shapefile (feature class) ResultantBroadBandInfo-NJ_6_30_11_region provides coverage data for census blocks with an area less than or equal to 2 square miles. It contains 7,405 records. All of the IDs shown in the shapefile correspond to valid Year 2010 Census Block IDs and all are smaller than 2 square miles.

Shapefile (feature class) ResultantBroadBandInfo-NJ_6_30_11_polyline shows street segments, for census blocks larger than 2 square miles. It contains 3,597 records. The polyline data includes a field called TIGER_REF. We attempted to validate this as a Tiger Line ID against Year 2010 line-segment reference data records, but none were matched, so we do not know what the column contains. (In the previous submission, we received an answer in response to email that the values are not TigerLine IDs)

The address left-from, left-to, right-from, and right-to fields are problematic because they are defined as numeric (not text) which precludes address such as those found in parts of NYC such as “12-26”. The fields of this polyline data include:

AREA_SQMI

PROVIDER, DBA, FRN, ID, LOCATION

CENSUS_BLOCK

MAX_DOWNLOAD, MAX_UPLOAD, TYPICAL_DOWN, TYPICAL_UP

TECHNOLOGY

TIGER_REF

The speed data gives cause for concern. We see significantly different maximum advertised speeds in adjacent census blocks. How is this possible? Further, the typical and maximum advertised columns are *always* identical. Maybe these data correspond to actual customer speed and price-plan choices rather than advertised speeds.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded 1 row of data from Excel Spreadsheet “middlemile_NJ.txt” (1 row) that was supplied for the October 2010 submission. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
--------------	------------------------------

PROVNAME	Set to "CenturyLink, Inc." per email
DBANAME	As supplied in DbName
FRN	As supplied in FRN
OWNERSHIP	As supplied in Own
BHCAPACITY	As supplied in BHCap
BHTYPE	As supplied in BHType
LATITUDE	As supplied in Lat
LONGITUDE	As supplied in Long
ELEVFEET	Set to "0" (zero)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Point shape created using ESRI ArcDesktop

Internal notes on October 2011 processing:

1. Source table was reused from the October 2010 submission.
2. Added a column containing the ID of the containing year 2010 census block via a spatial join of the point and the census block shapes from reference data.

NTIA Table BB_Service_CensusBlock

Loaded from supplied shapefile feature "ResultantBroadBandInfo-NJ_region". The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "CenturyLink, Inc." per email
DBANAME	As supplied in column "dba_name"
PROVIDER_TYPE	Set to 1
FRN	Set to "0018626853"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from census_blo (digits 3-5)
TRACT	Populated from census_blo (digits 6-11)
BLOCKID	Populated from census_blo (digits 12-15)
BLOCKSUBGROUP	Set to null
FULLFIPSID	As supplied in column census_blo See discussion of Census blocks below.
TRANSTECH	As supplied in column technology
MAXADDOWN	As supplied in column max_downlo
MAXADUP	As supplied in column max_upload
TYPICDOWN	Set to null
TYPICUP	Set to null
SHAPE	As supplied

Internal notes on processing

1. The supplied feature class uses XY coordinate system name GCS_North_American_1983. The NTIA data model requires XY coordinate system GCS_WGS_1984. To change the projection we applied the geographic transformation NAD_1983_To_WGS_1984_5 (per NAD), resulting in a feature class with a suffix of “_wgs”.
2. We had to create a new feature class and reload the data so that the tolerance value matches the NTIA transfer model’s tolerance value exactly, resulting in a feature class with a suffix of “_wgs_tol”.
3. The feature class "region" has 287 rows with duplicate census block IDs and identical technology codes (confusingly the speeds are different for the some of these duplicates). We discarded these to avoid creating duplicate shapes in the table.

NTIA Table BB_Service_RoadSegment

Loaded from supplied shapefile feature “ResultantBroadBandInfo-NJ_6_30_11_polyline”. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to “CenturyLink, Inc.” per email
DBANAME	As supplied in column “dba_name”
PROVIDER_TYPE	Set to 1
FRN	Set to "0018626853"
ADDMIN	Set to the least of the non-empty address numbers
ADDMAX	Set to the greatest of the non-empty address numbers
PREDIR	Set to null (no value supplied)
STREETNAME	As supplied (has all street components, not just name)
STREETTYPE	Set to null (no value supplied)
SUFFDIR	Set to null (no value supplied)
CITY	Set to null (no value supplied)
STATECODE	Set to “NJ”
ZIP5	Set to null (no value supplied)
ZIP4	Set to null (no value supplied)
TRANSTECH	As supplied
MAXADDOWN	As supplied
MAXADUP	As supplied
TYPICDOWN	Set to null
TYPICUP	Set to null
TLID	Set to null since the supplied values in column “tiger_ref” are not valid TLID values
SHAPE	As supplied

Internal notes on processing:

1. The supplied feature class uses XY coordinate system name

GCS_North_American_1983. The NTIA data model requires XY coordinate system GCS_WGS_1984. To change the projection we applied the geographic transformation NAD_1983_To_WGS_1984_5 (per ESRI KB article 24159), resulting in a feature class with a suffix of “_wgs”.

2. We had to create a new feature class and reload the data so that the tolerance value matches the NTIA transfer model's tolerance value exactly, resulting in a feature class with a suffix of “_wgs_tol”.
3. We discarded 529 records with no street name (field empty).
4. The county number and a column "tiger_ref" are supplied for each segment. We checked for uniqueness using the county number and tiger_ref. After discarding records with an empty street name, 2002 unique records were accepted and 1066 duplicates were dropped. However this is questionable. As mentioned in validations, the tiger_ref column is not a TLID, so using it for validation might not be reasonable.

Section 6: Questions

1. The midlemile data is missing. In the last submission, there is 1 middlemile data? Should we assume it is the same as the last submission?

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Monday, August 22, 2011 10:41 AM
To: 'David.Bonsick@CenturyLink.com'
Subject: NJBB Clarification

David,

We have performed our initial analysis on the data you submitted and had two clarification questions:

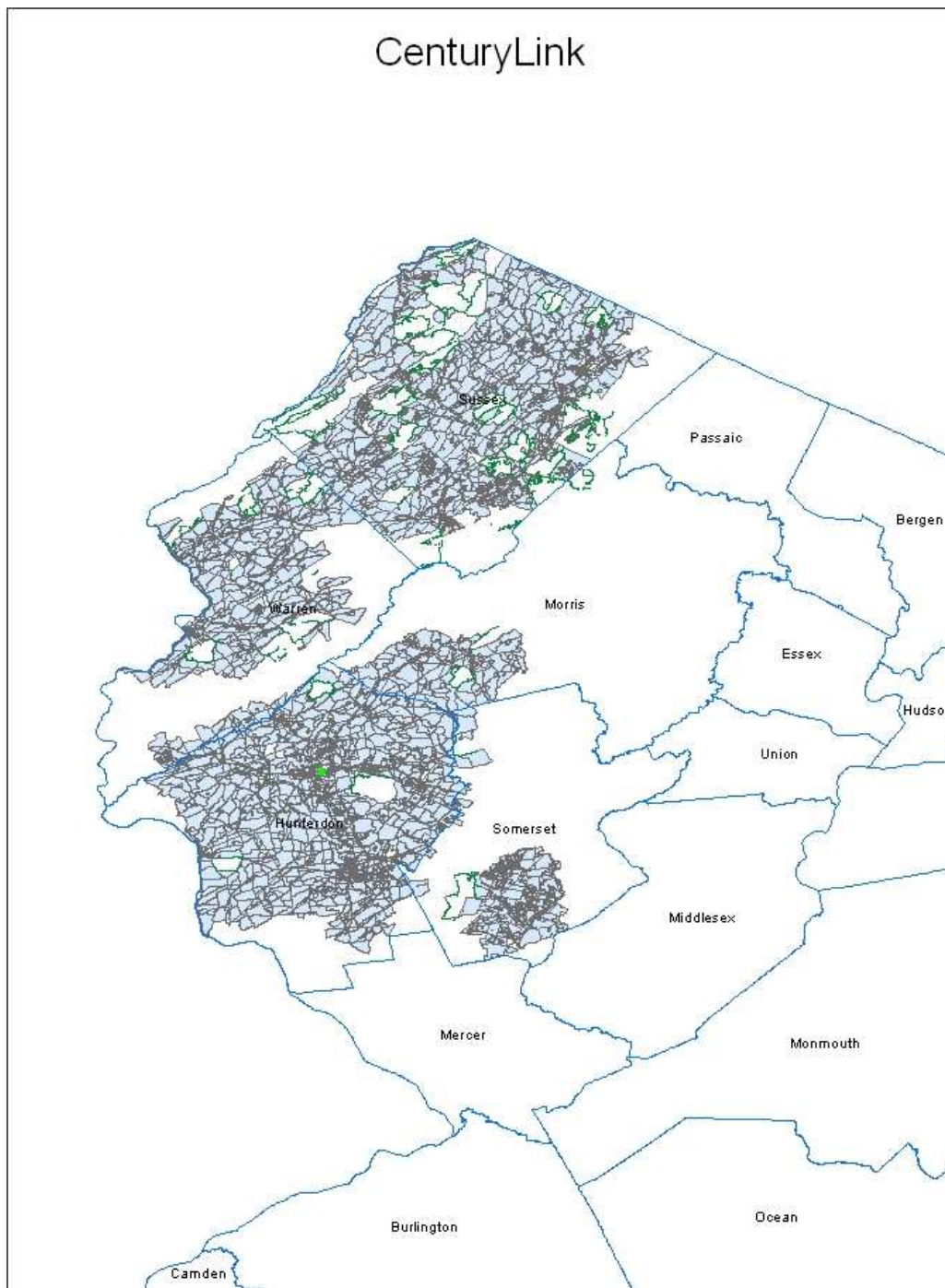
1. Did you use the 2010 geometry for the census blocks that you submitted?
2. You did not submit any middle mile data. Does that data you submitted for the October 2010 delivery still represent your facilities?

Thanks for your cooperation,

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Clearwire

Received: September 2011
Submission date: October 2011

This report presents details on processing of broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None

Section 2: Submission Overview

AVAILABILITY DATA		
ID	PROVIDER NAME	Clearwire Corporation
	DBA NAME	Clearwire Corporation
	FRN	0017775628
	Holding company name:	
	Holding company number:	
FOR WIRELESS		
Filetypes	1 Mapinfo file corresponding to NJ terrestrial mobile wireless coverage	The MapInfo file contains 522 polygon shapes, as well as attributes for each that include: ID_UNIQUE (6 digit number), CODE (RDG, WMT, PHL), and MARKET_ID (3 digit number)
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Upstream max adv	no.
	Downstream max adv	no.
	Upstream typical	no.
	Downstream typical	no.
	Subscriber-weighted	no.
Technology Type	Spectrum : no	
Comments:		

INTERCONNECTION DATA	
ID	
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: no IC data provided.	

Preview of submitted Mapinfo data:

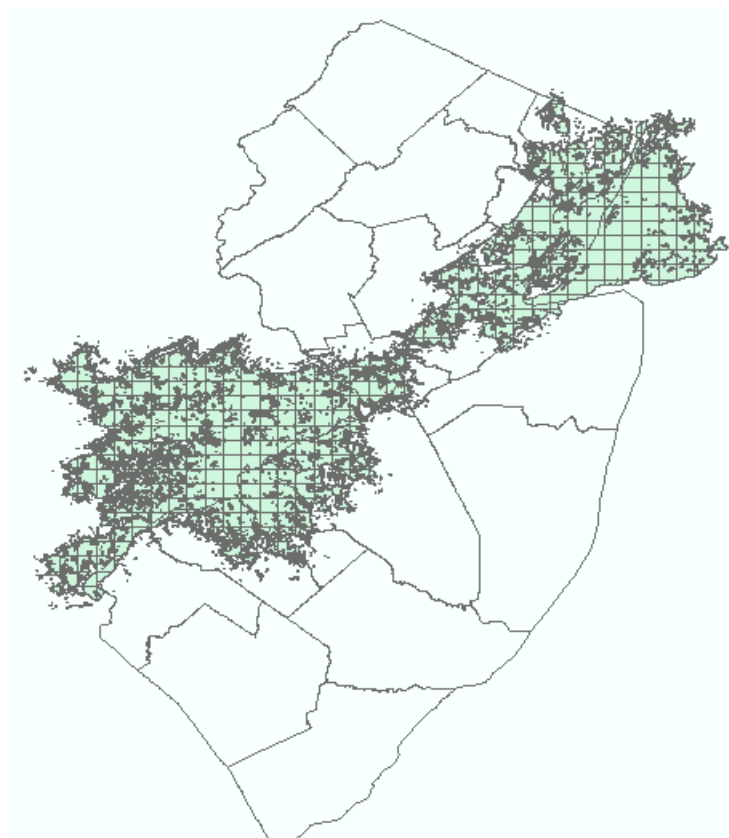


Figure 1. View of submitted data

Section 3: Submission File Details

1 zip file containing 4 files:

Size kb	Name
19 kb	NJ_WiMAX_090211_region.dbf
1	NJ_WiMAX_090211_region.prj
6145	NJ_WiMAX_090211_region.shp
5	NJ_WiMAX_090211_region.shx

Section 4: Validations and Results

The MapInfo file contains 522 polygon shapes, as well as attributes for each that include: ID_UNIQUE (a 6 digit number), CODE (RDG, WMT, PHL (are these location codes??), and MARKET_ID (a 3 digit (internal?) code).

The shape goes beyond the NJ state boundary.

Provider does not provide:

1. Name, DBA Name , FRN, Holding company information
2. Typical speeds, spectrums
3. Weighted averages
4. Interconnection data

Section 5: Data Transformation and Loading

NTIA Table BB_Service_Wireless

Loaded from the supplied shapefiles as augmented by email and phone conversations. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "Clearwire Corporation" per email and phone interactions
DBANAME	Set to "Clearwire Corporation" per email and phone interactions
FRN	Set to "0017775628" per email and phone interactions
TRANSTECH	Set to "80" (terrestrial mobile wireless) based on statement of WiMAX
SPECTRUM	Set to "5" per email and phone interactions
MAXADDOWN	Set to "5" (code for range of 3-6Mbps) per email and phone interactions
MAXADUP	Set to "3" (code for range that includes 1Mbps) per email and phone interactions
TYPICDOWN	Set to null
TYPICUP	Set to null
STATEABBR	Set to "NJ"
SHAPE	As supplied.

Internal notes on processing:

5. The supplied shapefile uses geographic coordinate system name GCS_WGS_1984. The NTIA data model requires the same coordinate system. No geographic transformation was required. Loaded into our geodatabase to feature class name NJ_WiMAX_090211_region.
6. The XY Tolerance value differs on the supplied data from the required NTIA model. Imported the table schema and the table data in two separate operations, thereby ensuring perfect compatibility with the NTIA data model. The table has the suffix "_tol".
7. The shape extends beyond the NJ State boundary. Clipped the shape using ESRI: Analysis Tools-> Extract -> Clip with, select feature class Ntia_oct2011.State_Boundary. The table has the suffix "_clip". 272 rows are left after clip operation.
8. Loaded 272 rows.

Section 6: Clarification Questions and Responses

(N.B. note "Oregon" and other non-New Jersey locations referenced below.)

Subject: RE: Summary Sheet: New Jersey Broadband Data Collection
Date: Mon, 12 Sep 2011 15:58:09 +0000
From: Tajit Mehta <tajit.mehta@clearwire.com>
To: Diane E. Duffy <diane@research.telcordia.com>

Clearwire appreciates the opportunity to participate. Attached are map files for Clearwire's WiMAX and Expedience Coverage in Oregon State. Clearwire operates WiMAX service with respective speeds below in Portland and Salem. All other markets in the attached file operate using expedience technology. Below are some particulars regarding our service that you might need per NTIA form.

Provider Name: Clearwire Corporation
DBA: Clear (WiMAX markets), Clearwire (Expedience Markets)
FRN: 0017775628

Spectrum: Clearwire operates its WiMAX and Expedience network's using 2.5MHz spectrum (Spectrum 5 on the NTIA's list).

WIMAX Speed: Clearwire's WiMAX network delivers average mobile download speeds of 3 to 6 mbps with bursts over 10 mbps.* Wimax up is 1 Mbps

* Speed claims based on download speeds only. Actual performance may vary and is not guaranteed. CLEAR performance claim is based on average download user speeds achieved during tests performed on the CLEAR commercial network by CLEAR. Other carrier performance based on their advertised claims.

Expedience Speed: Service is offered at Premium (1.5 Mbps down) and Premium Plus (2 Mbps down). 256 kbps up for both premium and premium plus.

Average Speeds: Clearwire does not disclose speeds as stand-alone average only a range.

FCC Classification: Clearwire is classified as terrestrial mobile wireless-licensed spectrum.

Middle Mile Request: Non-response

Regards,
Taj

Taj Mehta - clearw.re - Spectrum Development
593 Herndon Parkway, Herndon, VA 20170 - Office 571-490-8577 - Mobile
571-220-4657 - Fax 571-490-8491

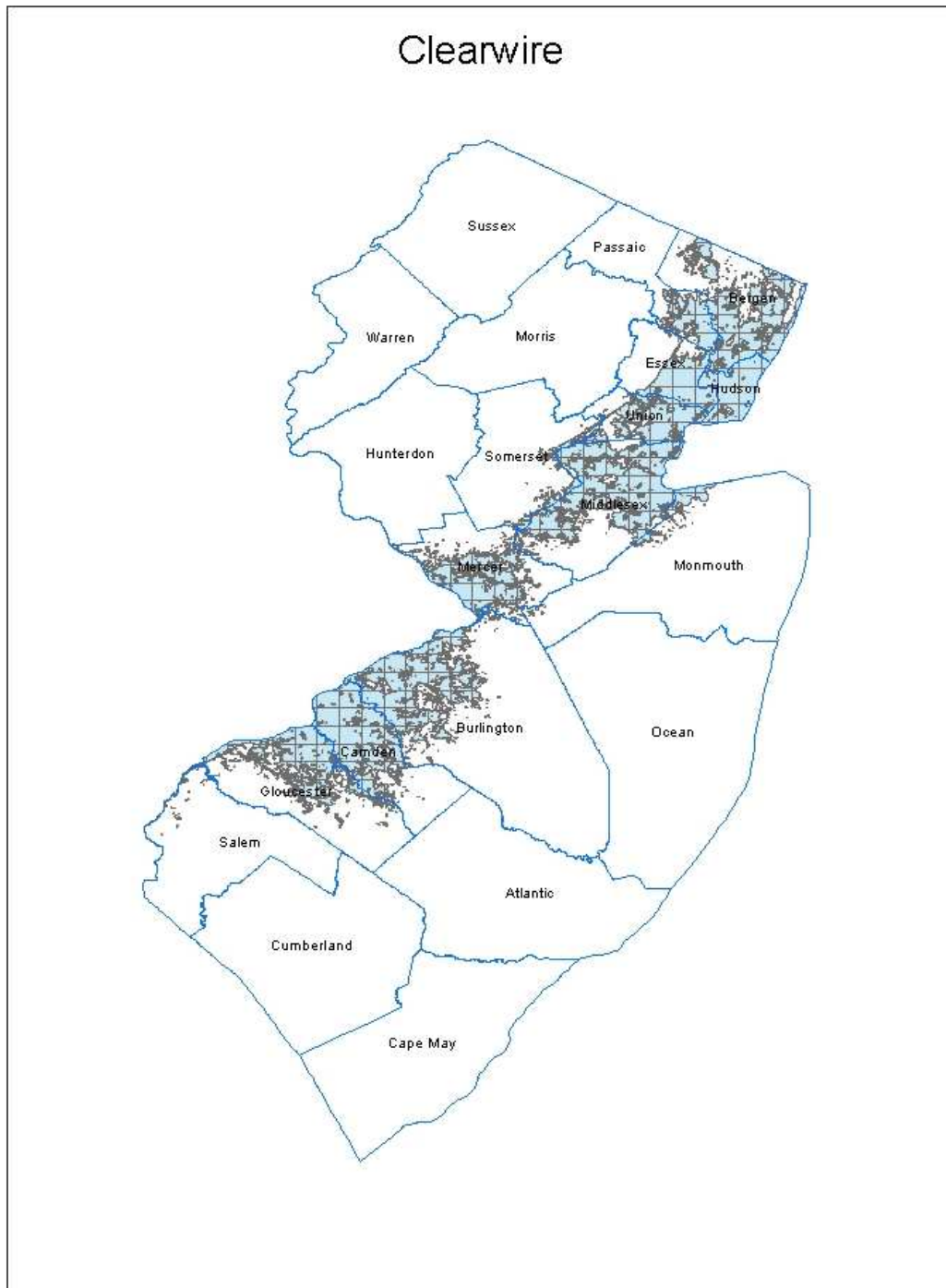
-----Original Message-----

From: Diane E. Duffy [mailto:diane@research.telcordia.com]
Sent: Monday, September 12, 2011 11:50 AM
To: Tajit Mehta
Cc: Diane Duffy
Subject: Summary Sheet: New Jersey Broadband Data Collection

Hi Taj,
Might you be able to forward the summary sheet? Bill is working on
this, but he needs to get certain approvals from folks in the state of
Pennsylvania and I'm not sure how long that will take.
Thnx again,
Diane

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Cogent

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Total rows loaded: 14

Notes

To create the "providerInput" table for this submission, we removed the 2000 census block column from the old providerInput table and performed a spatial join against the 2010 census block reference data table.

Provider Interactions

From: Zulager, Ried [mailto:RZulager@Cogentco.com]
Sent: Thursday, July 07, 2011 11:11 AM
To: Wullert, John R II
Subject: For your information: NJ Broadband Data Collection

Fine. The website may have changed slightly, but you can still get a list of address locations fairly easily from Cogent's public facing data. Just limit your searches to NJ as the jurisdiction of interest.

<http://www.cogentco.com/en/network/service-locations>

Ried Zulager
Corporate Secretary
Cogent Communications Group, Inc.
1015 31st St. NW
Washington, DC 20007
tel: +1-202-295-4274
rzulager@cogentco.com

Broadband Provider Data Report

Provider: Cogent Communications

Received: August 2010

Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

No NDA was executed. All data were taken from the provider's public web site, FCC filings and/or information supplied by the provider via email

Section 2: Submission Overview

MAPPING DATA - RECEIVED MARCH 1, 2011		
ID	Provider name "Doing business as" name FRN	Cogent Communications, Inc. Not provided 0019898303
FOR WIRELINE		
Filetypes	Txt, xls, pdf, etc.	Email and pointers to Web site and SEC filings
File size	Number of records, data elements	List of 20 addresses where they offer service
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Adver down	Address
	Adver up	Address
	Typical down	Not provided
	Typica up	Not provided
	Subscriber-weighted	Not provided
Technology Type	DOCSIS, xDSL, fiber, etc.	Fiber
End-user specification	Business, consumer, gov't etc	
Comments: They offer service directly to businesses at the addresses they provided. They are a reseller of broadband access to businesses at other locations. They had previously refused to provide data on Typical and Subscriber Weighted speeds. Inquired whether there was any change in their position on this via email.		
INTERCONNECTION DATA		
ID	Provider name	

	"Doing business as" name FRN	
File size	Number of records, data elements	
Ownership	Leased/owned	
Transport Type	Fiber, wireless, copper	
Data Rates/Capacity		
Location	Street address, lat/lon, elevation	
Comments: We had previously extracted data for Middle Mile sites, based on the assumption that Cogent's Data Centers were interconnection points. We were instructed by the provider that these sites did not meet the definition of Middle Mile sites and thus should be removed.		
DATA COMPLETENESS		
Data Validation/ Verification		

Section 3: Submission File Details

Received one file by email on 13 Aug 2010: NJ State locations 100813 B.docx.
Updated the address information via a query of "Service Locations" from provider's Web site
(http://www.cogentco.com/?lang=en&option=com_content&view=article&id=40&action=search). Searched using: North America, United States, New Jersey.

Section 4: Validations and Results

Noted that 3 addresses have no street address, and one address did not have a valid zip code. Used Internet search to determine zip code for that location and verified with Cogent.

Confirmed provider reported data rates with their published information and SEC filings.

The only other validation to be done is whether each address can be successfully geocoded. See next section. One address is not

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we discover the census block for each customer address, then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

We copied the information to a spreadsheet. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Cogent Communications, Inc."
DBANAME	Same as PROVNAME
PROVIDER_TYPE	Set to 1
FRN	Set to "0019898303"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	Set to "50"
MAXADDOWN	Populated from column "Maximum Advertised Speed Down"
MAXADUP	Populated from column "Maximum Advertised Speed Up"
TYPICDOWN	Set to null
TYPICUP	Set to null
SHAPE	Copied from Census Bureau TigerLine 2000, as matched by spatial join on geocoded address

Internal processing notes:

14. Geocoded the addresses using the Google geocoder to obtain a Latitude, Longitude pair for each..
15. Created an excel sheet and imported it to a geodatabase table.
16. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
17. Added a column containing the ID of the containing year 2000 census block via a spatial join of the point shapes and the census block shapes from reference data.
18. Discarded 8 rows with duplicate census blocks.

The mechanized procedure for the geocoding step is described in file GeoExcel_proc.txt.

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Tuesday, March 01, 2011 4:45 PM
To: 'Zulager, Ried'
Cc: ConnectingNJ@research.telcordia.com
Subject: RE: NJ BB Data Collection - Spring 2011
Sensitivity: Private

Ried,

The attached spreadsheet integrates the data you submitted to us last year with and the data we could obtain from your Web site and SEC filings. We will use this data as the basis for the submission to the NTIA. If you have any comments or corrections on the data, please let me know.

We did notice that the "Service Location" form on your Web site did not return a valid zip code for the 5851 Westside Ave in North Bergen. We assigned an zip code of 07047 based on a Google search.

Of the data requested by NTIA, we were not able to obtain data on Typical speeds and the Subscriber Weighted Nominal Speed. You indicated last time that you were not prepared to offer this information. If your position on this matter has changed, we would be happy to receive the data.

Thanks for your cooperation

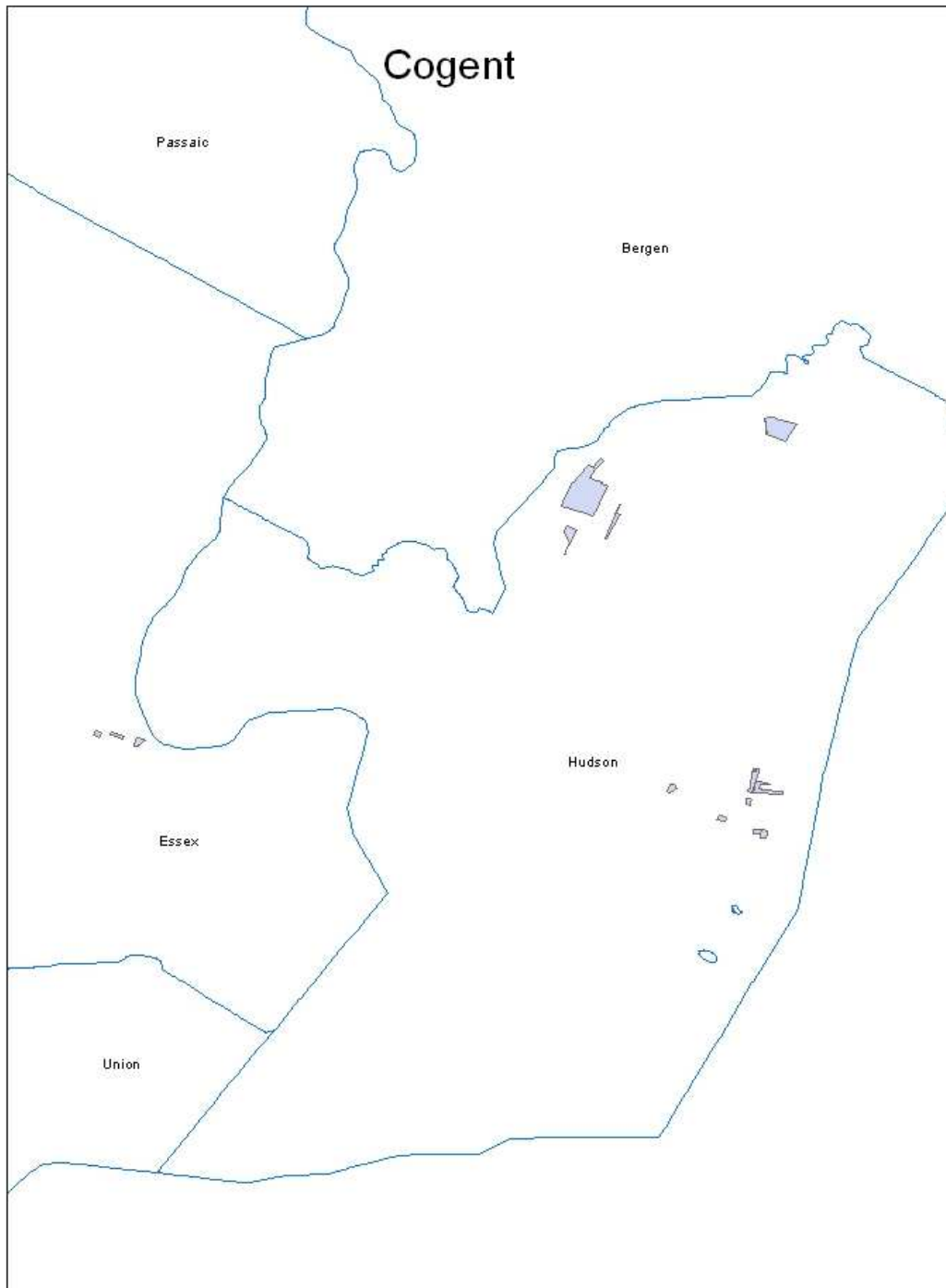
John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Zulager, Ried [mailto:RZulager@Cogentco.com]
Sent: Tuesday, March 01, 2011 6:03 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJ BB Data Collection - Spring 2011
Sensitivity: Private

"We did notice that the "Service Location" form on your Web site did not return a valid zip code for the 5851 Westside Ave in North Bergen. We assigned an zip code of 07047 based on a Google search."
Seems reasonable; since zip codes are fairly irrelevant to Cogent's business the zip code is not something that hits out A list of priorities in any database – nor is geocode.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Comcast

Received: August 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NDA in place

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name	COMCAST CABLE COMMUNICATIONS LLC		
	“Doing business as” name	COMCAST		
	FRN	0004-4416-63		
FOR WIRELINE				
Filetypes	Excel files w. Census Block Year 2010 data. Street segment level and CB level availability tables for CB’s less than and greater than 2 sq. mi.			
File size	see files			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		yes (CBSA/RSA level)	
	Advertised-downstream		yes (CBSA/RSA level)	
	Subscriber-weighted-up		no	
	Subscriber-weighted-down		no.	
Technology Type	40 (Cable Modem DOCSIS3.0)			
End-user specification	Comcast provides availability at the Census Block and Street Segment level.			
INTERCONNECTION DATA: PROVIDED AFTER REQUEST				

ID	
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments:	

Section 3: Submission File Details

Received three (3) files by SECURE UPLOAD.

Size	Name
55KB	34-streets-NJ.xlsx
2743KB	34-blocks-NJ.xlsx
9KB	New Jersey Maximum Advertised Speeds 6 30 11.xlsx

Section 4: Validations and Results

File 34-streets-NJ.xlsx contains 516 records. No shape is provided, and no reference ID such as Tiger Line ID is provided either. We cannot validate these segments against reference data, nor can we generate shapes for these segments.

File 34-blocks-NJ.xlsx contains 62,834 records. No shape is provided, but a Census Block ID is provided. Every ID is 15 digits long. Provider asserts that these are 2010 census blocks.

File "..Max Ad.." contains 7 records specifying the max advertised speed by CBSA/RSA. The max down speeds are 9 or 10; the max up speeds are all 7.

Section 5: Data Transformation and Loading

NTIA Table BB_Service_CensusBlock

Loaded 62,834 records from supplied Excel file "34-streets-NJ.xlsx". The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
---------------------	-------------------------------------

PROVNAME	As supplied in column "Provider_Name" but without trailing period
DBANAME	As supplied in column "DBA_Name"
PROVIDER_TYPE	Set to 1
FRN	As supplied in column "FRN"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census_Block_FIPS_Code (first 3 digits)
TRACT	Populated from Census_Block_FIPS_Code (next 6 digits)
BLOCKID	Populated from Census_Block_FIPS_Code (last 4 digits)
FULLFIPSID	As supplied in column Census_Block_FIPS_Code
TRANSTECH	As supplied in column Technology_of_Transmission
MAXADDOWN	Set to "10" or "9" (see below)
MAXADUP	Set to "7" (see below)
TYPICDOWN	Set to null, not supplied
TYPICUP	Set to null, not supplied
SHAPE	Copied from Census Bureau TigerLine 2010, As matched by Census block 2010 ID

Processing notes:

1. Census Blocks: Comcast supplied Census 2010 block IDs. We referenced the Census Bureau reference database for Year 2010 to extract and submit geographic features (i.e., shapes) for each census block based on the supplied Census_Block_FIPS_Code.
2. Speeds: Data for maximum advertised down and up speeds were taken from file "New Jersey Maximum Advertised Speeds 6 30 11.xlsx". Comcast listed the same upload speed (7) for all seven MSAs they serve. Six of the MSAs had the same download speed (10). The remaining MSA (Allentown-Bethlehem-Easton, PA-NJ Metropolitan Statistical Area) has a download speed category of 9. This MSA encompasses Warren County in New Jersey. We identified the census blocks in Warren County (CountyFIPS = 041) and set the download speed to 9; the speed for all other census blocks was set to 10.

NTIA Table BB_Service_RoadSegment

Loaded as discussed below. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Comcast Cable Communications, LLC"
DBANAME	Set to "Comcast"
PROVIDER_TYPE	Set to 1
FRN	Set to "0004441663"
ADDMIN	Set to the least of the non-empty address numbers for the line segment
ADDMAX	Set to the greatest of the non-empty address numbers for the line segment

PREDIR	Set to null (no value supplied)
STREETNAME	As supplied (has all street components, not just name)
STREETTYPE	Set to null (no value supplied)
SUFFDIR	Set to null (no value supplied)
CITY	Set to null (no value supplied)
STATECODE	Set to "NJ"
ZIP5	Set to value of zipl column for the line segment
ZIP4	(no value supplied)
TRANSTECH	As supplied (40)
MAXADDOWN	See below
MAXADUP	Set to 7
TYPICDOWN	Set to null
TYPICUP	Set to null
SHAPE	Copied from Census Bureau TigerLine 2010, As matched by County + Tiger Line ID

As mentioned above, the Comcast submission of street segments could not be matched with the Census Bureau TigerLine database. Instead we gathered a list of segments in large census blocks based on the municipalities served by Comcast. We processed 3142 street segments.

For municipalities served in their entirety by Comcast, the following approach was used. (Note: steps 1-4 were performed previously and not repeated for this round.)

1. Adjusted the Municipality names provided by Comcast with the following rules to enable matching with official New Jersey Municipality reference data
 - a. Changed to upper case
 - b. Performed the following string replacements on the Municipality field
 - i. TOWNSHIP -> TWP
 - ii. BOROUGH -> BORO (only when preceded by a space)
 - iii. MT. -> MOUNT
 - iv. PT. -> POINT
 - v. ORANGE CITY -> CITY OF ORANGE TWP (ORANGE at start of line)
 - c. Removed any additional information in parentheses (i.e., appended county name)
2. Performed join between two data sources, using Municipality and County as keys
3. Dropped four military bases that did not match any municipality
4. Generated a file with Municipality, Type, County and Municipal Code
5. Joined this information with the large census blocks for each municipality, and then joined that result with the street segments for each large census block.
6. Loaded the resulting set of street segments and shapes after removing duplicates.

Download Speed

1. Speeds: Data for maximum advertised down and up speeds were taken from file "New Jersey Maximum Advertised Speeds 6 30 11.xlsx". Comcast listed the

same upload speed (7) for all seven MSAs they serve. Six of the MSAs had the same download speed (10). The remaining MSA (Allentown-Bethlehem-Easton, PA-NJ Metropolitan Statistical Area) has a download speed category of 9. This MSA encompasses Warren County in New Jersey. For large census blocks that were listed as being in Warren County, we set the download speed to 9; the speed for all other census blocks was set to 10.

Section 6: Clarification Questions and Responses

From: Ruger, Michael [mailto:Michael_Ruger@comcast.com]
Sent: Monday, August 15, 2011 5:12 PM
To: ConnectingNJ@research.telcordia.com
Cc: Shelley Bates
Subject: RE: Reminder - NJ Broadband Data Collection

Good afternoon—

Attached please find Comcast's response to the state's broadband mapping request for information. The data reflects Comcast's broadband service as of June 30, 2011. This submission is being provided to the state consistent with the terms provided for in the State Broadband Data and Development Grant Program established by the Department of Commerce's National Telecommunications and Information Administration. In particular, this submission is intended to comply with the commitments made by Comcast as described in the Department of Commerce's clarification of the information requirements for State Broadband Data and Development Grant Program published on August 7, 2009.

The attached spreadsheets provide the following data, as of June 30, 2011:

- Data for 2010 Census blocks less than two square miles
- Data for address availability
- Maximum advertised speeds

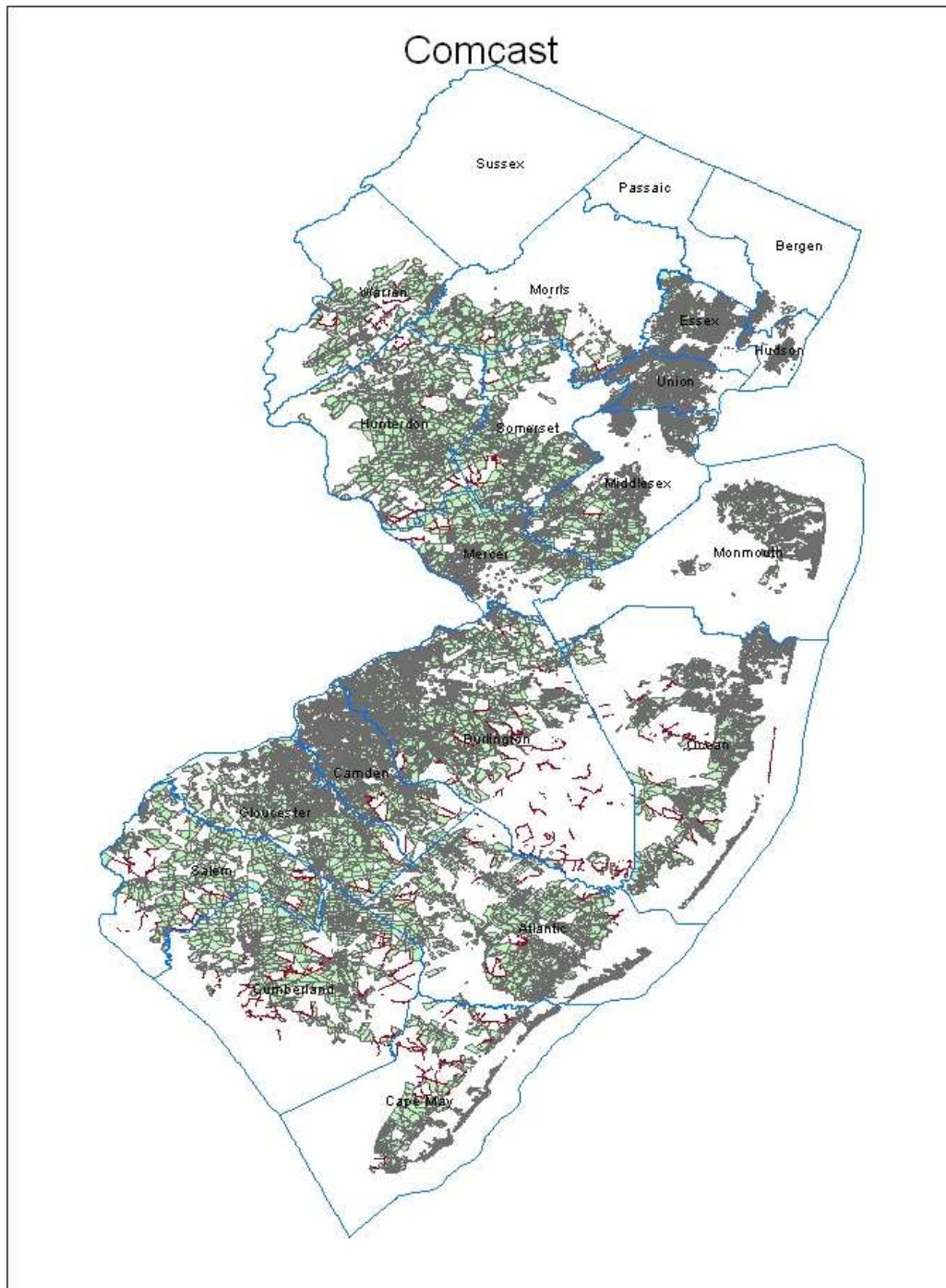
Please give me a call if you have any questions.

Thanks--
Michael

Michael Ruger
Senior Director, Government Affairs
Comcast Cable Communications, LLC
One Comcast Center
Philadelphia, Pennsylvania 19103
(215) 286-7586

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Cablevision

Received: August 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Executed with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name			CSC HOLDINGS INC CABLEVISION / LIGHTPATH 0003735909, 0003510195 CSC Holdings, Inc. 130370
	“Doing business as” name			
	FRN			
	Holding company name			
	Holding company number			
FOR WIRELINE				
Filetypes	Shapefile with Census Block Year 2010 data			
File size	Multiple tables and shapes, for cable modem and optical (Lightpath) technologies.			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Census block and street segment	
	Advertised-downstream		Census block and street segment	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
	Technology Type	40 (Cable Modem DOCSIS3.0), 41 (Cable Modem - Other), 50 (Optical carrier)		
End-user specification	Yes. Address data provided in 2 shape files (for both cable and optical) with street segment ID. (a field is called TLID, which is assumed means Tiger Line ID).			

Comments: Street data is comprised solely of polylines in the shapefile while the other files are polygons representing coverage. No subscriber weighted data found.

INTERCONNECTION DATA: PROVIDED AFTER REQUEST

ID

File size

Ownership

Transport Type

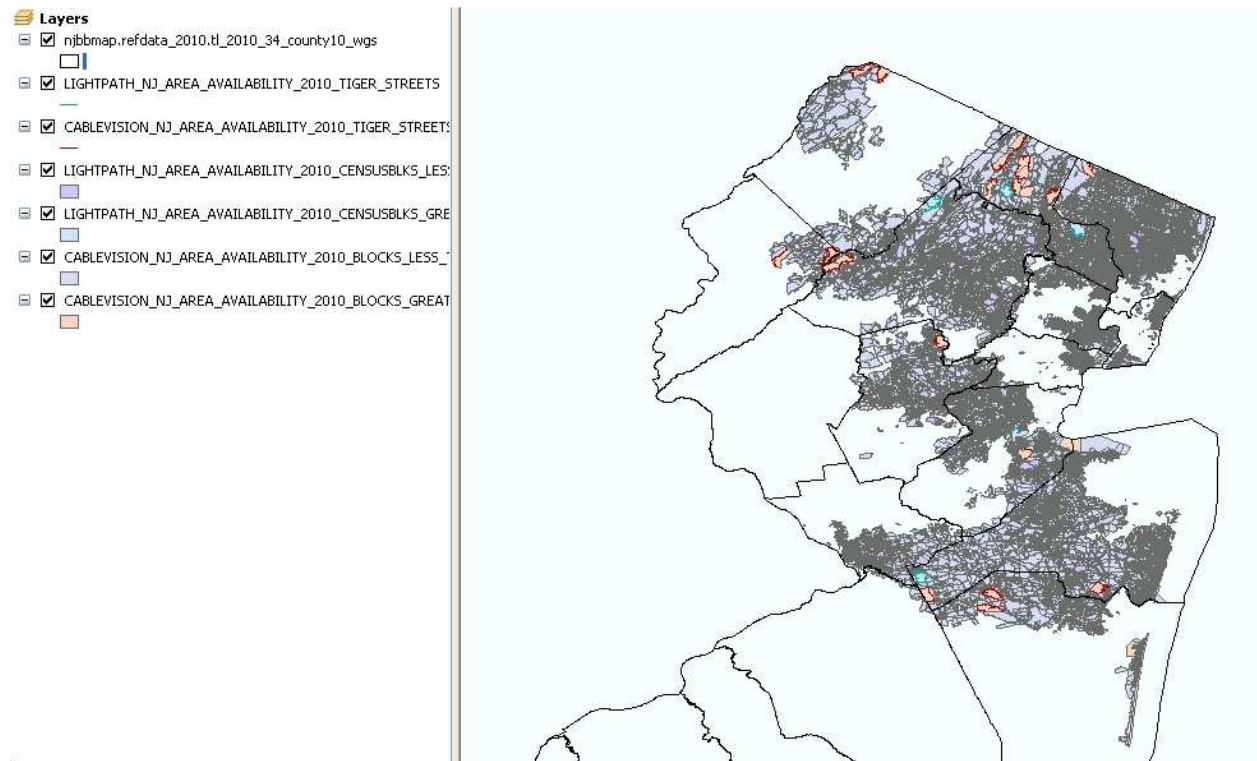
**Data
Rates/Capacity**

Location

Comments: None.

Figure 1. submitted data (quick preview)

Overview of submitted data



Section 3: Submission File Details

Received one (1) file by SECURE UPLOAD. The zip archive contains six shapefiles: large census blocks (Cablevision and Lightpath), small census blocks (Cablevision and Lightpath), and one with roadsegments (Cablevision and Lightpath). The data and shapes appear to use Year 2010 Census Bureau geometry. The shapefiles use the XY Coordinate System GCS_North_American_1983.

Size	Name	
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_GREATER_THAN_2MI...	7 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_GREATER_THAN_2MI...	1 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_GREATER_THAN_2MI...	160 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_GREATER_THAN_2MI...	1 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_LESS_THAN_2MI.dbf	13,622 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_LESS_THAN_2MI.prj	1 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_LESS_THAN_2MI.shp	32,275 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_BLOCKS_LESS_THAN_2MI.shx	470 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.dbf	260 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.prj	1 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.shp	179 KB
	CABLEVISION_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.shx	5 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_GREATER_THAN_2...	2 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_GREATER_THAN_2...	1 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_GREATER_THAN_2...	40 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_GREATER_THAN_2...	1 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_LESS_THAN_2MI.dbf	177 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_LESS_THAN_2MI.prj	1 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_LESS_THAN_2MI.shp	805 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_CENSUSBLKS_LESS_THAN_2MI.shx	7 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.dbf	45 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.prj	1 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.shp	44 KB
	LIGHTPATH_NJ_AREA_AVAILABILITY_2010_TIGER_STREETS.shx	2 KB

Section 4: Validations and Results

Cablevision Census blocks: 60,122
Cablevision Large Census blocks: 29
Cablevision Streets: 516

Lightpath Census blocks: 811
Lightpath Large Census blocks: 6
Lightpath Streets: 140

Feature class "CV_NJ_AR_AV_2009_TI_ST"

This road segment table has 39 duplicate shapes according to ESRI.

Feature class "LP_NJ_AR_AV_2009_TI_ST"

This road segment table has 9 duplicate shapes according to ESRI.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from data supplied in the XLS sheet. Only one row describes a connection point in New Jersey. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "CSC HOLDINGS INC"
DBANAME	Set to "CABLEVISION"
FRN	As supplied in column frn_name
OWNERSHIP	Set to code 1, leased
BHCAPACITY	Set to code 4; 1gbps falls in range 600mbps – 2.4gbps
BHTYPE	Set to code 1, fiber
LATITUDE	Obtained by geocoding the address
LONGITUDE	Obtained by geocoding the address
ELEVFEET	Set to "0" (zero)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Point shape created using ESRI ArcDesktop

Internal notes on processing:

1. Reused the table created for the October 2010 submission, but mapped Lat/Long to 2010 census block.

NTIA Table BB_Service_CensusBlock

Loaded from the two supplied feature classes (shapefiles) with census blocks, one for Cablevision and one for LightPath. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column proname
DBANAME	As supplied in column dbaname
PROVIDER_TYPE	Set to 1

FRN	As supplied in column frn
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from cenblock (digits 3-5)
TRACT	Populated from cenblock (digits 6-11)
BLOCKID	Populated from cenblock (digits 12-15)
FULLFIPSID	As supplied in column cenblock
TRANSTECH	As supplied - For Cablevision: column trechtrans2 - For Lightpath: column techtrans
MAXADDOWN	As supplied in column maxaddnsp
MAXADUP	As supplied in column maxadupsp
TYPICDOWN	Set to null, not supplied
TYPICUP	Set to null, not supplied
ENDUSERCAT	Set to null, not supplied
SHAPE	As supplied in column shape

Internal processing notes:

1. Import the features with XY Coordinate System " GCS_North_American_1983" via the following three-step process. (A simple Import using ArcCatalog yields an incompatible tolerance value.)
 - a. First, copy the data from the shapefiles to the geodatabase using a geographic transformation "NAD_1983_to_WGS_1984_5". This yields feature classes with the required coordinate system but an incorrect tolerance value. Names are "cv_nj_ar_av_cb_lt_2mi" and "lp_nj_ar_av_db_lt_2mi".
 - b. Second, create new feature classes with the same schema as the provided shapefile feature classes and the required coordinate reference system (GCS_WGS_1984) and tolerance (0.000000002 degrees). Names are " cv_nj_ar_av_cb_lt_2mi_tol" and "lp_nj_ar_av_db_lt_2mi_tol".
 - c. Third, load the data into the newly created feature classes to ensure perfect compatibility with the required coordinate reference system and tolerance.
2. Ignored the column "techtrans1" in the Cablevision feature class
3. All of the cenblock values correspond to valid Year 2010 Census Block IDs.
4. The Cablevision data includes 29 census blocks that are larger than 2.0 square miles, including blocks 340258017005001 (approx 9 sq mi) and 340258106003000 (approx 3 sq mi). We discarded this data. No large blocks were found in Lightpath data.

NTIA Table BB_Service_RoadSegment

Loaded from the two supplied features with line segments. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column prvd_name
DBANAME	As supplied in column dba_name
PROVIDER_TYPE	Set to 1
FRN	As supplied in column frn_name
ADDMIN	Set to the least of the non-empty address numbers
ADDMAX	Set to the greatest of the non-empty address numbers
PREDIR	Set to null (no value supplied)
STREETNAME	As supplied (has all street components, not just name)
STREETTYPE	Set to null (no value supplied)
SUFFDIR	Set to null (no value supplied)
CITY	Set to null (no value supplied)
STATECODE	Set to "NJ"
ZIP5	Set to null (no value supplied)
ZIP4	Set to null (no value supplied)
TRANSTECH	As supplied in column tech_trans
MAXADDOWN	As supplied in column max_ad_dwn
MAXADUP	As supplied in column max_ad_up
TYPICDOWN	Set to null (no value supplied)
TYPICUP	Set to null (no value supplied)
SHAPE	As supplied

Internal processing notes:

1. Feature classes were imported exactly as discussed above for table BB_Service_CensusBlock.
2. Ignored the column "tech_trans2" in the Cablevision feature class.
3. Dropped 145 rows with empty street name values.
4. One data column in the Cablevision and Lightpath feature classes is named "linearid". We validated the data in the "linearid" column against Year 2010 TigerLine Census Bureau reference data, but none are valid values. We used the supplied shapes.

Section 6: Clarification Questions and Responses

1. no interconnection data. (same as the last time)

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Monday, August 22, 2011 11:00 AM
To: 'tbaecher@cablevision.com'
Subject: NJBB Clarification

Ted,

We have performed our initial review of the data you submitted and we have a clarification question. Your recent submission did not include any middle mile information. Is the middle mile information you submitted in March still valid? If not, could you please supply us with updated information?

Thanks for your cooperation.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Theodore Baecher [mailto:TBAECHER@cablevision.com]
Sent: Monday, August 22, 2011 11:29 AM
To: ConnectingNJ@research.telcordia.com
Subject: Re: NJBB Clarification

John-

The middle mile information we submitted in March is still valid.

Thanks-

Ted

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, August 26, 2011 11:34 AM
To: 'Theodore Baecher'
Cc: 'ConnectingNJ@research.telcordia.com'
Subject: NJBB - Data Clarification Request

Ted,

We have attempted to load the data you submitted to the NJBB Mapping program and have run into a problem with the data for census blocks larger than 2 square miles. The data we received does not include TigerLine IDs and does not include minimum/maximum addresses for the street segments. This information was included in your previous submissions. We do see a "linearID" field in the submitted data, but we do not know how to interpret that data. This is true for both the cable and LightPath services.

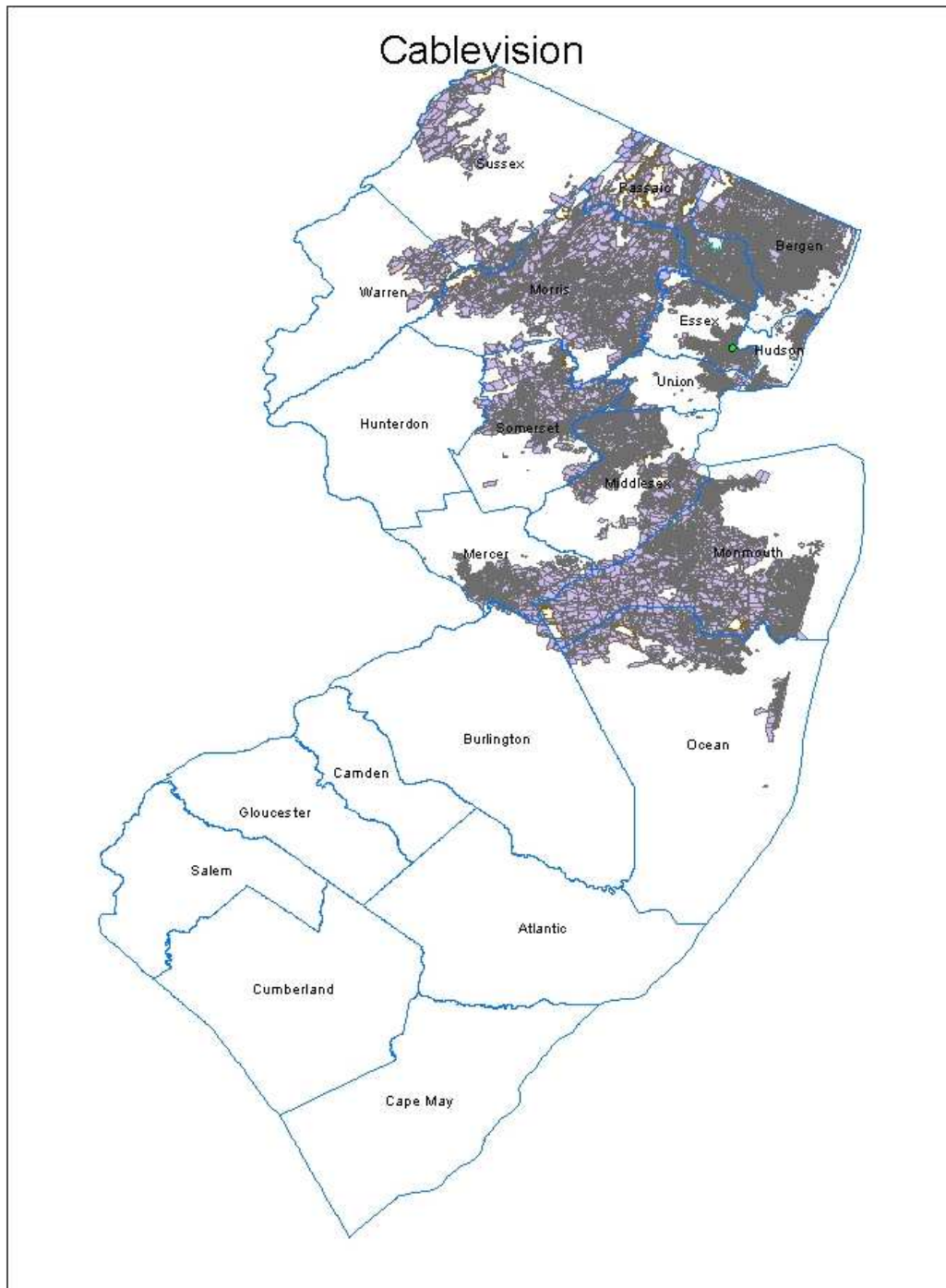
Can you please provide updated information that includes the street-segment information?

Thanks,

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Dieca DBA Covad

Received: July 2011

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NDA was executed with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name “Doing business as” name FRN		DIECA Communications, Inc. Covad Communications Company 0003753753	
FOR WIRELINE				
Filetypes				
File size				
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Speeds are provided at address (line segment) and census block granularity.
	Typical-upstream		Address & block	
	Typical-downstream		Address & block	
	Advertised-upstream		Address & block	
	Advertised-downstream		Address & block	
	Subscriber-weighted-up		county level	
	Subscriber-weighted-down		county level	
Technology Type	10 (ADS), 20 (SDSL), 30 (other copper)			
End-user specification	Not provided			
Comments:				
INTERCONNECTION DATA				
ID	File **MiddleMileConnection*.txt			

File size	1kb
Ownership	1
Transport Type	
Data Rates/Capacity	4, 5
Location	5 locations
Comments:Five (5) data rows provided	

Section 3: Submission File Details

Received a zip file by SECURE UPLOAD in July 2011:

Size	Name
712799	DIECACommunicationsInc._NJ_CONFIDENTIAL.zip

The original archive contains the following five (5) files:

Size	Name
111959	NJBB_0003753753_AddressSegmentAvailability_DIECACommunicationsInc._CONFIDENTIAL.txt
21006114	NJBB_0003753753_CensusBlockAvailability_DIECACommunicationsInc._CONFIDENTIAL.txt
2509	NJBB_0003753753_CMAAdvertisedAvailability_DIECACommunicationsInc._CONFIDENTIAL.txt
644	NJBB_0003753753_MiddleMileConnection_DIECACommunicationsInc._CONFIDENTIAL.txt
2254	NJBB_0003753753_SubscriberWeightedNominalSpeed_DIECACommunicationsInc._CONFIDENTIAL.txt

Received a revised zip file by secure upload in September 2011:

Size	Name
715421	DIECACommunicationsInc._NJ_CONFIDENTIAL.zip

The revised archive contains the following five (5) files:

Size	Name
84891	NJBB_0003753753_AddressSegmentAvailability_DIECACommunicationsInc._CONFIDENTIAL.txt
20820959	NJBB_0003753753_CensusBlockAvailability_DIECACommunicationsInc._CONFIDENTIAL.txt
2509	NJBB_0003753753_CMAAdvertisedAvailability_DIECACommunicationsInc._CONFIDENTIAL.txt
644	NJBB_0003753753_MiddleMileConnection_DIECACommunicationsInc._CONFIDENTIAL.txt
2254	NJBB_0003753753_SubscriberWeightedNominalSpeed_DIECACommunicationsInc._CONFIDENTIAL.txt

Section 4: Validations and Results

File “..AddressSegmentAvailability..”

Technologies: 30,20,10 (xDSL and other copper)

Fields:

Provider Name

DBA Name

FRN

Census Block ID

Street NameStreet Segment ID (TLID)

Technology of Transmission

Maximum Advertised Downstream Speed

Maximum Advertised Upstream Speed

Typical Downstream Speed

Typical Upstream Speed

All TLID were validated against year 2010 Census Bureau reference data successfully, and all are in large census blocks.

File “..CensusBlockAvailability..”

Fields:

Provider Name

DBA Name

FRN

Census Block ID

Technology of Transmission

Maximum Advertised Downstream Speed

Maximum Advertised Upstream Speed

Typical Downstream Speed

Typical Upstream Speed

The input contains Year 2010 census block data, judging from the consistent length of 15 digit block IDs. Due to use of multiple technologies there are more rows here than the number of NJ census blocks (169,588). No duplicates were received, all submitted IDs are valid according to Year 2010 reference data, and all are less than 2 square miles.

File “..CMAAdvertisedAvailability..”

Provides three technology codes (10, 20, 30), MSA codes, and max advertised up and down speed codes. The max speed for a given technology is different for different MSAs. We are unlikely to use this data since max speed codes are provided on a row-by-row basis.

File “..MiddleMileConnection..”

There are 5 rows, the same as the last submission. Viewing the data in ArcMap indicates that all points are in New Jersey.

File “..SubscriberWeightedNominalSpeed..”

We do not submit overview data in this submission round so will not use this input file.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from supplied file “..MiddleMileConnection..”. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column Provider Name
DBANAME	As supplied in column DBA Name
FRN	As supplied in column FRN
OWNERSHIP	As supplied in column Ownership
BHCAPACITY	As supplied in column Serving Facility Capacity
BHTYPE	As supplied in column Service Facility Type
LATITUDE	As supplied in column Latitude
LONGITUDE	As supplied in column Longitude
ELEVFEET	As supplied in column Elevation
STATEABBR	Set to “NJ”
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau reference data
SHAPE	Point shape created using ESRI

Internal notes on processing:

1. Created an Excel sheet and imported to a geodatabase table.
2. Added a point shape to each row corresponding to the Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's “Create Feature Class from XY Table” option. Specify WGS84 for the coordinate system of the points. Result is feature class middlemile_point_tol.
3. Added a column “geoid10” with the ID of the containing year 2010 census block via a spatial join of the points and the census block shapes from reference data. Result is feature class middlemile_point_tol_cb.

NTIA Table BB_Service_CensusBlock

Loaded from supplied file “..CensusBlockAvailability..”. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column Provider_Name
DBANAME	As supplied in column DBA_Name
PROVIDER_TYPE	Set to 1
FRN	As supplied in column FRN
STATEFIPS	Set to “34” (NJ)
COUNTYFIPS	Populated from Census_Block_ID (first 3 digits)
TRACT	Populated from Census_Block_ID (next 6 digits)
BLOCKID	Populated from Census_Block_ID (remaining 4 digits)
FULLFIPSID	As supplied in column Census_Block_ID
TRANSTECH	As supplied in column Technology_of_Transmission
MAXADDOWN	As supplied in column Maximum_Advertised_Downstream_Speed
MAXADUP	As supplied in column Maximum_Advertised_Upstream_Speed
TYPICDOWN	Set to null (see below)
TYPICUP	Set to null (see below)
ENDUSERCAT	Set to null because not supplied
SHAPE	As found in Census Bureau year 2010 reference data

Internal processing notes:

1. The supplied text file has 219,166 rows.
2. Discarded typical speeds since they were in all cases identical to maximum advertised speeds, not measured values.
3. We used Census Bureau reference data for Year 2010 to locate and submit geographic features (i.e., shapes) for each census block. All submitted blocks were matched.
4. Total rows (shapes) loaded is 219,166.

NTIA Table BB_Service_RoadSegment

Loaded from supplied File “..AddressSegmentAvailability..”. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column Provider_Name
DBANAME	As supplied in column DBA_Name
PROVIDER_TYPE	Set to 1
FRN	As supplied in column FRN
ADDMIN	Set to the least of the non-empty address numbers from TigerLine
ADDMAX	Set to the greatest of the non-empty address numbers from TigerLine

PREDIR	Set to null (no value supplied)
STREETNAME	As supplied (has all street components, not just name)
STREETTYPE	Set to null (no value supplied)
SUFFDIR	Set to null (no value supplied)
CITY	Set to null (no value supplied)
STATECODE	Set to "NJ"
ZIP5	Set to zipl from TigerLine
ZIP4	Set to null (no value available in reference data)
TRANSTECH	As supplied in column Technology_of_Transmission
MAXADDOWN	As supplied in column Maximum_Advertised_Downstream_Speed
MAXADUP	As supplied in column Maximum_Advertised_Upstream_Speed
TYPICDOWN	Set to null (see below)
TYPICUP	Set to null (see below)
SHAPE	Road segment shape from Year 2010 TigerLine reference data, as matched by TLID

Internal processing notes:

1. Of 722 input rows, discarded 1 row as duplicates based on compound key of county, TLID, and tech_transmission fields (TLID 134418087). This probably occurs because a road segment touches different counties, but we cannot submit duplicate shapes.
2. After a join against Census Bureau 2010 reference data, no rows were discarded based on compound key of county, TLID, and tech_transmission fields.
3. Total rows (shapes) loaded is 721.

Section 6: Clarification Questions and Responses

1. It looks like that they use the 2010 Census blocks. But we need to confirm.

From: Wullert, John R II
Sent: Monday, August 22, 2011 11:04 AM
To: 'SSanta@covad.com'
Subject: NJBB Clarification

Stefanie,

We have performed our initial review of the data you submitted and we have a clarification question. Your recent submission did not include any middle mile information. Is the middle mile information you submitted in February still valid? If not, could you please supply us with updated information?

Thanks for your cooperation.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Stefanie Santa-Esparza [<mailto:Stefanie.Santa-Esparza@megapath.com>]
Sent: Monday, August 22, 2011 1:54 PM
To: Wullert, John R II
Subject: RE: NJBB Clarification

John,
There were 5 txt docs in the zip file I uploaded to your FTP site.
NJBB_0003753753_MiddleMileConnection_DIECACommunicationsInc._CONFIDENTIAL.txt is the one with our middle mile information. However, it is true that it is unchanged from last submission.

Thanks,
Stefanie

From: Wullert, John R II [<mailto:jwullert@telcordia.com>]
Sent: Monday, August 22, 2011 11:01 AM
To: Stefanie Santa-Esparza
Subject: RE: NJBB Clarification

Stefanie,
I apologize. I am sending questions to many providers and I inadvertently sent the wrong question to you. What I did want to do is confirm that your submission did use the 2010 Census Block geometry.

John

From: Stefanie Santa-Esparza [<mailto:Stefanie.Santa-Esparza@megapath.com>]
Sent: Monday, August 22, 2011 2:03 PM
To: Wullert, John R II
Subject: RE: NJBB Clarification

John,
No worries. Yes, we used 2010 census data.

Thanks,
Stefanie

From: NJ Broadband Data Collection [<mailto:ConnectingNJ@research.telcordia.com>]
Sent: Thursday, September 15, 2011 5:04 PM
To: 'SSanta@covad.com'
Cc: ConnectingNJ@research.telcordia.com
Subject: NJBB Clarification

Stefanie,
In the course of our validation of the data you submitted to the New Jersey Broadband project, we have come across a problem. It seems that a large number of the street segments that you submitted (192 of them) are not located in large census blocks. The attached file gives several examples. We would like to represent your service area as accurately as possible, and hope that you can analyze the data and resubmit within the next week. If you are not able to do so, we will have to drop those street segments from the submission.

If you have any questions, please call or email.

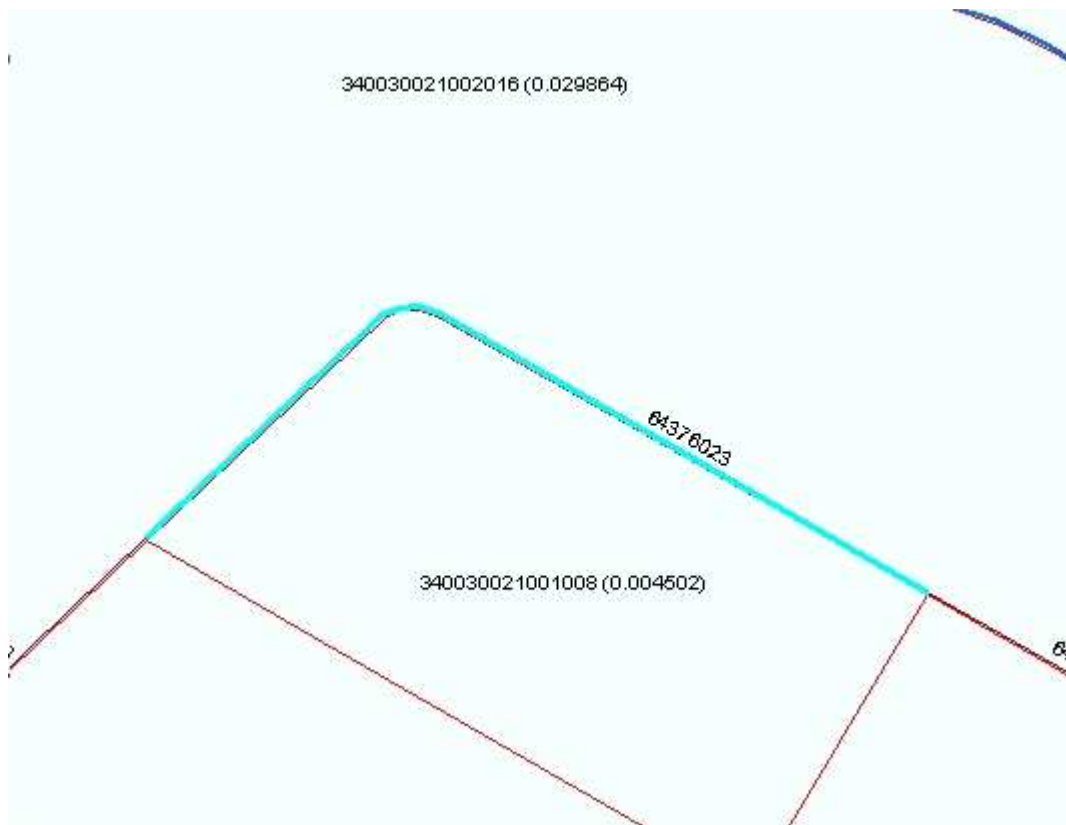
John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Section 7: Notes and Open Issues

There are 192 street segments that do not belong to large census blocks.
Below are a few examples:

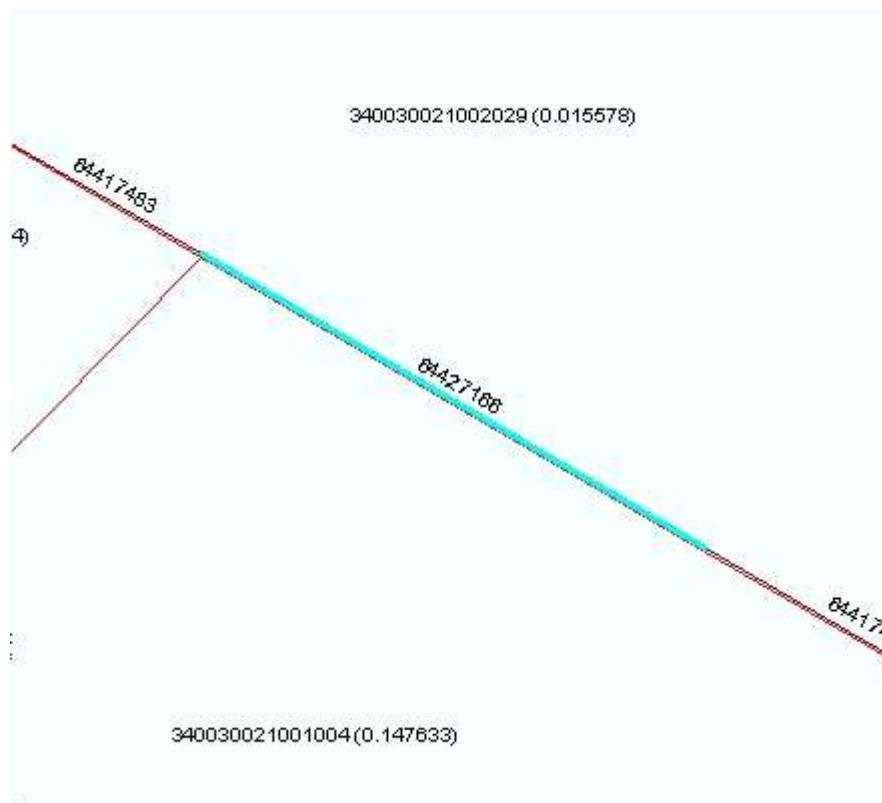
Example 1.

Block ID	Street Name	Street Segment ID (TLID)
340030021002008	Allison Rd	64376023



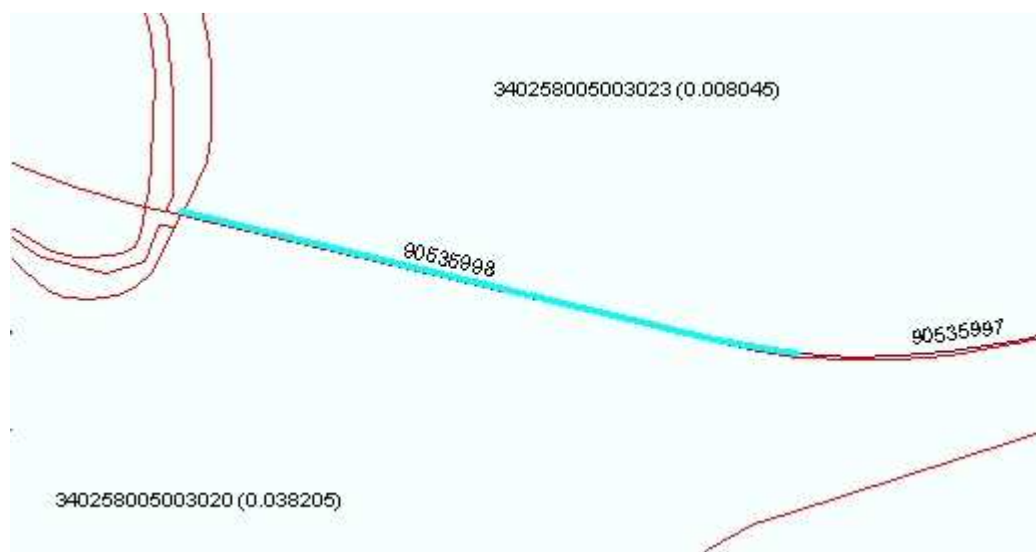
Example 2:

Block ID	Street Name	Street Segment ID (TLID)
340030021002008	Closter Dock Rd	64427166

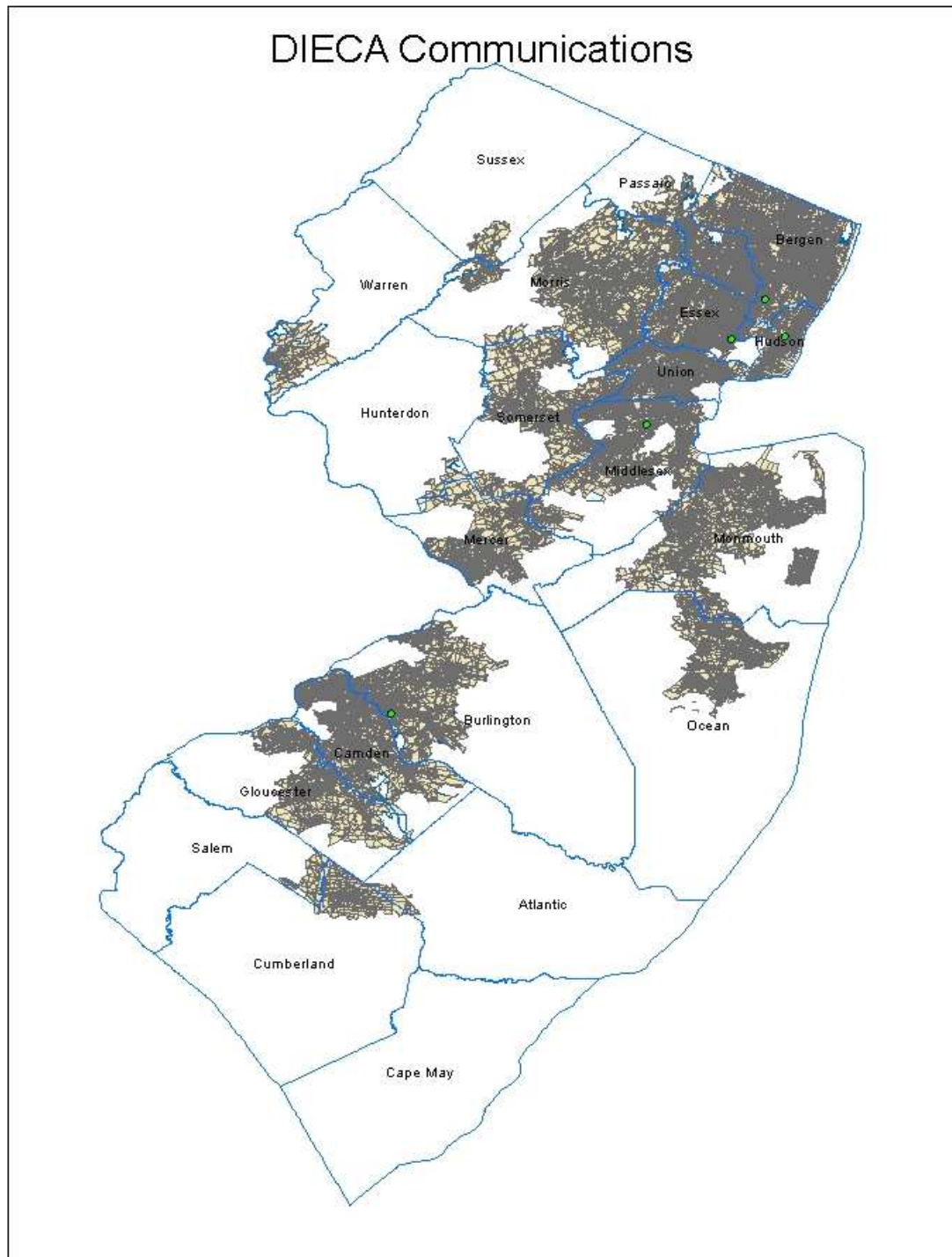


Example 3:

Block ID	Street Name	Street Segment ID (TLID)
340258005003001	Broadway	90535998



Section 8: Overview Map of Submitted Data



Provider: Earthlink Business (previously New Edge)

Received: October 2011

Submission date: October 2011

This report presents details on processing of broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None

Section 2: Submission Overview

AVAILABILITY DATA		
ID	Provider name "Doing business as" name FRN	EarthLink Business EarthLink Business 0003720471
FOR WIRELINE		
Filetypes	Txt, xls, pdf, etc.	Xls
File size	Number of records, data elements	605 rows
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Upstream	1 = < 200, 2 = 200-768, 3 = 768-1.5, 4 = 1.5-3
	Downstream	3 = 768-1.5, 4 = 1.5-3, 5 = 3-6
	Typical	Not given
	Advertised	See above
Technology Type	DOCSIS, xDSL, fiber, etc.	10 = ADSL, 20 = SDSL, 30 = other DSL
End-user specification	Business, consumer, gov't etc	Not specified; looks like businesses
FOR WIRELESS		
Filetypes	shapefile collection: shp/dbf/prj/shx, mdb, gdb, imagefile etc.	N/A
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Upstream	
	Downstream	
	Typical	
	Advertised	
	Subscriber-weighted	
Technology Type	Spectrum (Mhz, FCC code)	

INTERCONNECTION DATA		
ID	Provider name "Doing business as" name FRN	None
File size	Number of records, data elements	
Ownership	Leased/owned	
Transport Type	Fiber, wireless, copper	
Data Rates/Capacity		
Location	Street address, lat/lon, elevation	
DATA VALIDATION AND VERIFICATION		
Data Validation/ Verification	-	

Section 3: Submission File Details

Received 1 file by a CD in June 2010. Instructed by provider to use prior data.

Size	Name
184320	NJ_Service_Address.xls

Section 4: Validations and Results

Address data has 605 records.

Data Completeness

- New Edge reported a list of addresses that appears to be locations where they currently offer service
 - o We are interpreting this to mean they offer service in that census block
- New Edge reported maximum advertised speeds
- New Edge did not report typical speeds or subscriber weighted average speeds.
- New Edge said that they do not have the ability to report Middle Mile data

Speed/technology data

- The New Edge data included certain addresses with multiple services
 - o In some cases the same location had more than one record with different maximum advertised speeds
- New Edge reported technologies of ADSL (code 10), SDSL (code 20) and other DSL (code 30)
- The Maximum Advertised Speeds reported by New Edge indicated downloads at rates of 768 kbps to 6 Mbps (codes, 3, 4, 5) and uploads at less than 200 kbs to 3 Mbps (codes 1, 2, 3, 4)

Middle Mile Data
None reported

Section 5: Data Transformation and Loading

We determine the census block for each customer address, and then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

Loaded from the file mentioned above. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "EarthLink Business"
DBANAME	Set to "EarthLink Business"
PROVIDER_TYPE	Set to "2"
FRN	As supplied in column
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column
MAXADDOWN	As supplied in column
MAXADUP	As supplied in column
TYPICDOWN	Set to null (see below)
TYPICUP	Set to null (see below)
ENDUSERCAT	Set to null (see below)
SHAPE	Copied from Census Bureau TigerLine 2010, as matched by spatial join on geocoded address

Internal processing notes:

1. Geocoded the addresses using an Arroyo flow and the Yahoo geocoder, leaving the result with address and lat, long data in an Excel spreadsheet.
2. Imported the spreadsheet to a simple ESRI geodatabase table
3. Added point shapes corresponding to each Latitude/Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option
4. Added a column containing the ID of the containing year 2010 census block using ArcCatalog's spatial join feature. The newly created point shapes are joined against census block shapes from reference data. All records successfully spatially joined on 2010 NJ Census Block shapes.
5. Discarded 198 records with upload speeds that are not considered broadband (speed code 1).
6. Discarded 83 duplicate census block records, which result from multiple

addresses in the same census block.

7. Discarded 1 large census block record (340330216005000).
8. Loaded 323 records.

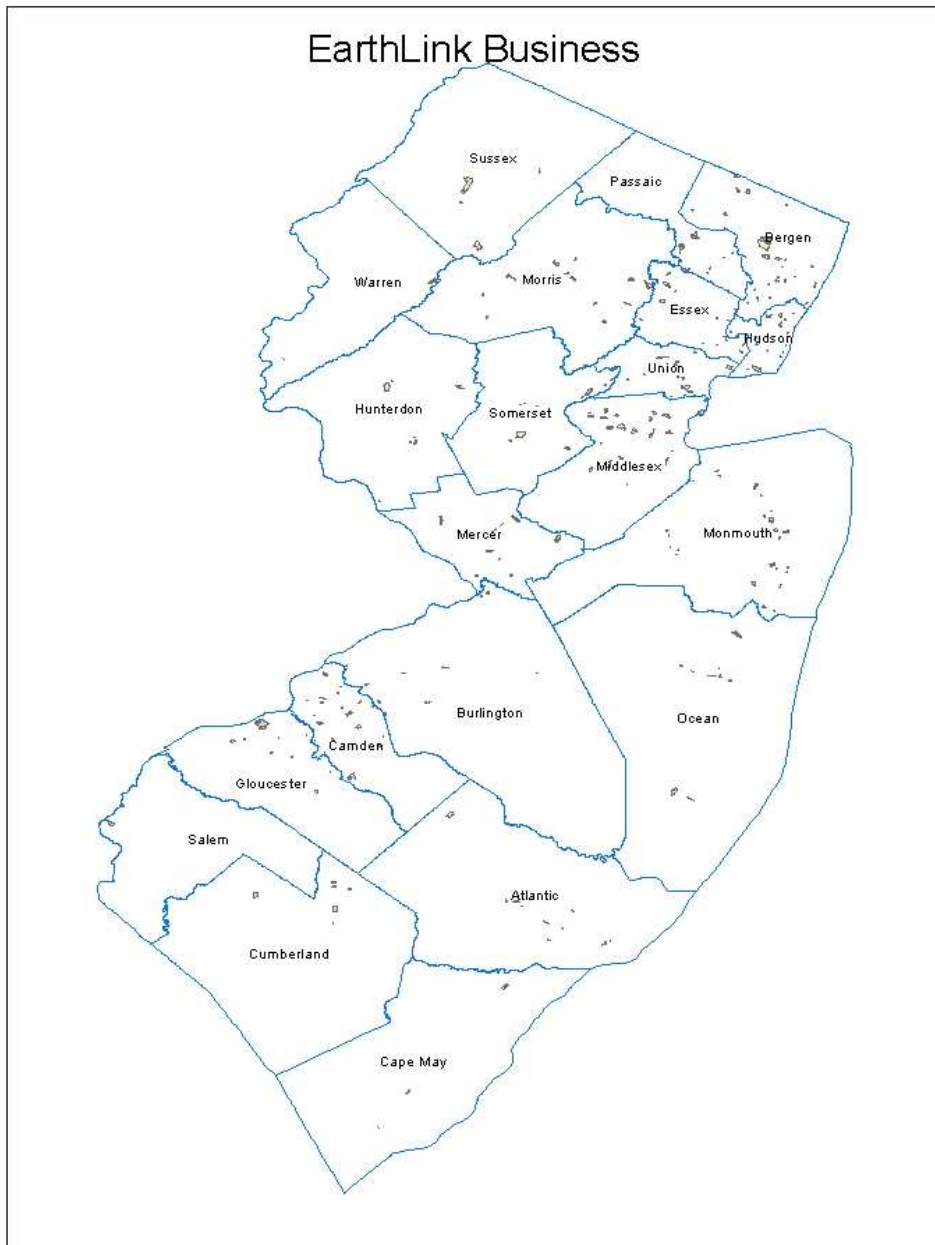
Section 6: Clarification Questions and Responses

Questions for clarification

- The data submitted by New Edge Networks appears to be based on a listing of existing customers. What does the offering of service at these locations imply about the ability to offer service to other locations within the census block or along a street segment.
- Response (via phone conversation): New Edge is a pure reseller serving business customers only. They do not do residential at all (not home-based business, according to Pia). They are co-located in LEC central offices and, when they get a service request, they go to LECs for pre-qualification. Pia's view is that they can provide service anywhere that a LEC can. But she also said that 'technically they are not facilities-based.' We elected to limit their coverage area based on current delivery. We will need to determine in the future if we should adjust the coverage area to match LEC.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: GOES Telecom

Received: July 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		GOES Telecom	
	“Doing business as” name		Not provided	
	FRN		0011437746	
	Holding company name		GOES	
	Holding company number		130548	
FOR WIRELINE				
Filetypes	1 Excel			
File size	worksheet 17,408 bytes, approx 28 rows			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Submitted 28 addresses with upload and download speeds (generally in kbps) for each address. These are delivered speeds to customers. We located advertised speeds on their Web site, and provider confirmed that those speeds were available at each location they served. We will use the data from Web site as advertised speeds. Note that for three addresses, submitted speeds as “10mpbh”. Need to ask them what that means. We asked these questions last time, but did not receive a response in time to submit. This time we received corrected data. Note also that some speeds are listed as having faster upload speeds than download speeds. Need to verify. We asked these questions last time, but did not
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Not provided	
	Advertised-downstream		Not provided	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	

		receive a response in time to submit. This time we received corrected data. No typical or subscriber weighted speeds were provided.
Technology Type	10 (ADSL) and 70 (Terrestrial fixed wireless)	
End-user specification	None	
Comments: Provided a list of 28 customers and the speeds they are subscribed to. Most are 128K up, 512K down.		
INTERCONNECTION DATA		
ID	None provided	
File size		
Ownership		
Transport Type		
Data Rates/Capacity		
Location		
Comments:		

Section 3: Submission File Details

Received 1 file by email:

Size	Name
17,408	20110711 Telcordia.xls

The file contains a list of addresses and max speeds; e.g., the “up-to” limit of their rate plan. The addresses in this file appear to be for individual customers (as opposed to addresses of multi-tenant buildings in a central business district).

Section 4: Validations and Results

For many ADSL subscribers, a download/upload rating of 512K/128K looks reasonable, but this is not a "broadband" service according to the NOFA definition. We will discard records for slow services.

Some ADSL subscribers have upload speeds that exceed download. The last two entries have unknown speed ratings: 10mpbh up and 10mpbh down.

What spectrum is used by the fixed wireless service?

Section 5: Data Transformation and Loading

All addresses were successfully geocoded using Arroyo with Yahoo geocoder. All records successfully spatially joined on 2010 NJ Census Block shapes.

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we will discover the census block for each customer address, then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

Loaded from supplied file “20110711 Telcordia_update.xls” (28 data rows). The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to “Global Online Electronic Services, Inc.”
DBANAME	Not supplied; set same as PROVNAME
PROVIDER_TYPE	Set to 1
FRN	Set to “0011437746”
STATEFIPS	Set to “34” (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column Technology Code
MAXADDOWN	Set to code 4 per March 2011 email response to questions
MAXADUP	Set to code 3 per March 2011 email response to questions
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	Copied from Census Bureau 2010, as matched by spatial join on geocoded address point

Internal processing notes:

1. Geocoded the addresses using the Google geocoder to obtain latitude, longitude value pairs.
2. Created point shapes using ESRI from lat, long value pairs.
3. Spatially joined the points with Census Bureau Year 2010 reference data to find the containing census block. This yielded census block attributes including the block ID (“geoid10”).
4. Dropped duplicate census blocks (caused by two customers in the same census block).

5. Loaded the resulting data into an SDE feature class. Of 28 original records, all were successfully geocoded; 10 have broadband speeds (rest are 512Kbps down); and 2 are duplicates, leaving 8 records; 7 use wireline technology.

The mechanized procedure for the three steps is described in file GeoExcel_proc.txt.

NTIA Table BB_Service_Wireless

Loaded using shapes from reference data for the 1 record that indicates wireless technology. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "Global Online Electronic Services, Inc."
DBANAME	Not supplied; set same as PROVNAME
FRN	Set to "0011437746"
TRANSTECH	Set to 70 as supplied in XLS sheet
SPECTRUM	Set to 6
MAXADDOWN	Set to 7
MAXADUP	Set to 7
TYPICDOWN	Set to null
TYPICUP	Set to null
STATEABBR	Set to "NJ"
SHAPE	Year 2010 Census Block shape obtained from reference data.

Internal processing notes:

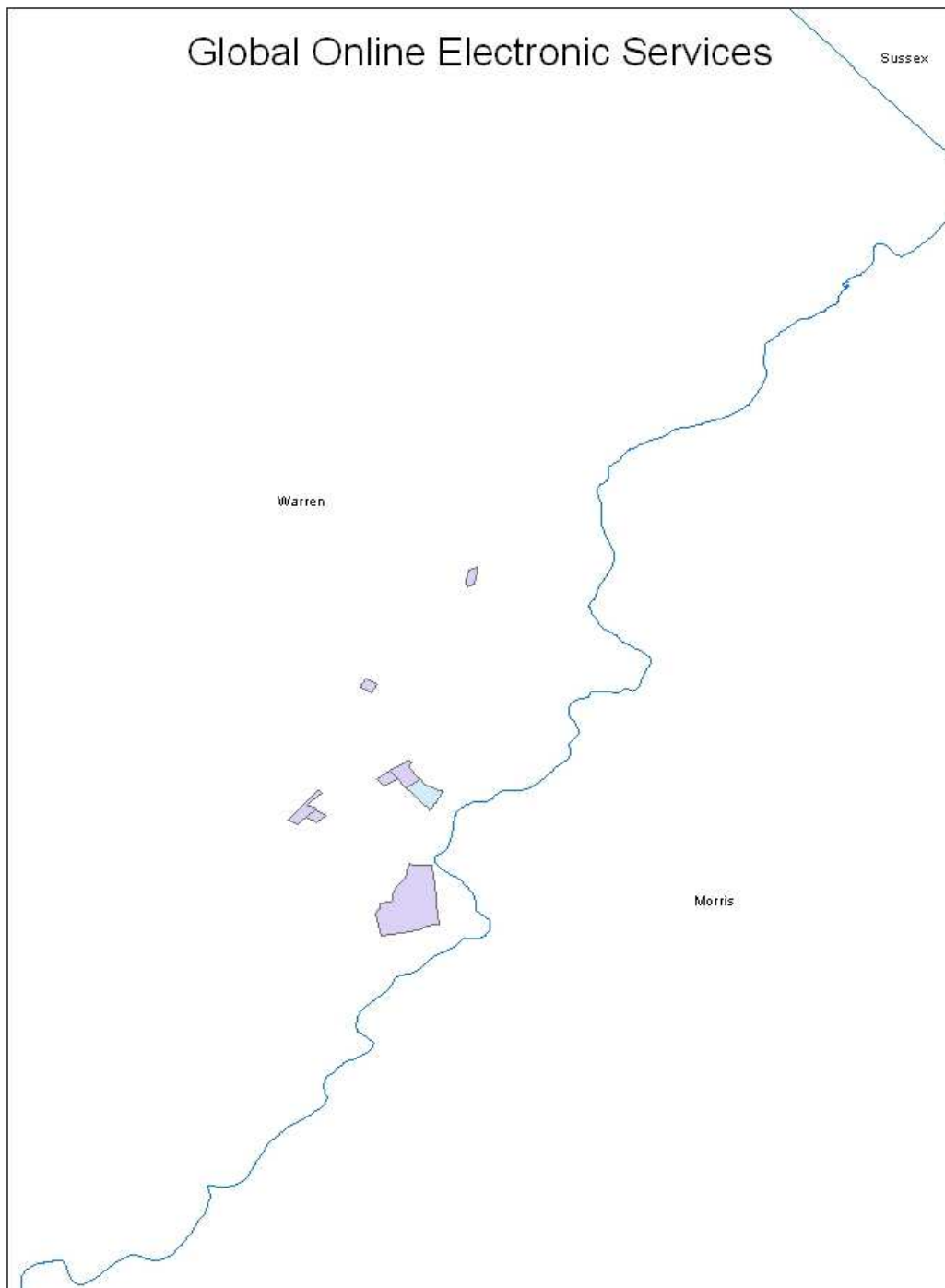
9. See above for discussion of geocoding addresses and finding the containing census block.
10. Spectrum: Set to 6, Unlicensed
11. Speeds: The fixed-wireless link is reported with 10Mbps in each direction (symmetric). That corresponds to NOFA speed code 7.

Section 6: Clarification Questions and Responses

See March 2011 provider data report.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Hometown Online

Received: July 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

No NDA in place.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Hometown Online Inc.	
	“Doing business as” name		Warwick Online	
	FRN		0006-6512-44	
FOR WIRELINE				
Filetypes	Text			
File size	1,764,352 bytes; 6,778 rows			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Provided list of customer locations with column “DSL speed avail”. This is probably downstream speed, but need to verify with provider.
	Typical-upstream		Not provided	Communications with provider and validation via their Web site resulted in clarification: Max advertised speeds are: Downstream: 15 Mbps Upstream: 800 Mbps.
	Typical-downstream		Not provided	
	Advertised-upstream		Not provided	
	Advertised-downstream		Not provided	
	Subscriber-weighted-up		Not provided	Rows where the speed and DSL Qual columns are blank indicate no-service. These should be dropped.
	Subscriber-weighted-down		Not provided	
Technology Type	DSL – not clear in each case whether it is Asymmetric or Symmetric			

End-user specification	Not provided
Comments: Address data with some indications of qualification for different data services.	
INTERCONNECTION DATA	
ID	
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: No connection-point data provided	

Section 3: Submission File Details

Received one (1) file by EMAIL:

Size	Name
1,761,280	M4 STRUCTURES - NJ 7-18-11.xls

Section 4: Validations and Results

The file contains 6778 rows of data. Each row has a street address. All rows have an indication of maximum possible DSL speed. Some indicate 5Mbps, some 15Mbps and some 25Mbps. Also has information about TV qualification, which we will ignore.

All normal validations performed.

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we discover the census block for each customer address, and then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

Loaded from the supplied file after geocoding. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Hometown Online Inc."
DBANAME	Set to "Warwick Online"
PROVIDER_TYPE	Set to 1
FRN	Set to "0006651244"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block 2010 (first 3 digits)
TRACT	Populated from Census Block 2010 (next 6 digits)
BLOCKID	Populated from Census Block 2010 Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block 2010 Code
TRANSTECH	Set to code "10" (ADSL)
MAXADDOWN	Set to code "7" (range includes 15Mbps, per email)
MAXADUP	Set to code "3" (range includes 1Mbps, per email)
TYPICDOWN	Set to null, not supplied
TYPICUP	Set to null, not supplied
SHAPE	Copied from Census Bureau TigerLine 2000, as matched by spatial join on geocoded address point

Internal processing notes:

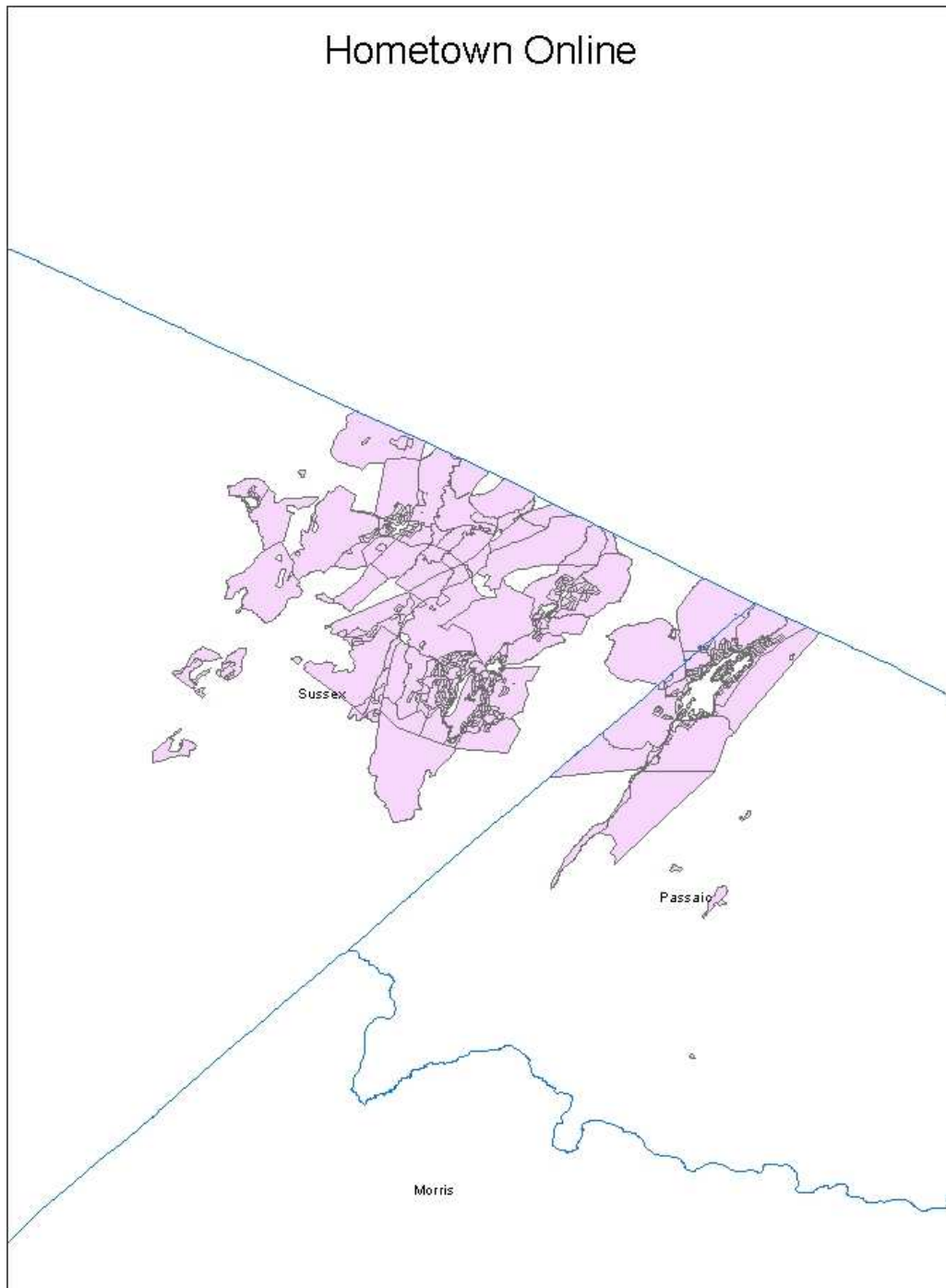
1. All addresses were successfully geocoded using Arroyo with the Yahoo geocoder. Four records failed to spatially join on 2010 NJ Census Block shapes.
2. Created an excel sheet and imported to a geodatabase table.
3. Added point shapes corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. Added a column containing the ID of the containing year 2010 census block via a spatial join of the point shapes and the census block shapes from reference data.
5. Kept only blocks in the cities of Hardyston, Highland, Vernon, and West Milford (several variations like Twp and Township). Discarded 14 blocks that were geolocated in cities Hewitt, Hillsdale, Wantage Twp, etc.
6. Discarded 6310 rows with duplicate census blocks, leaving 449 unique census blocks.
7. Discarded 1 census block larger than 2 square miles (340312568021002).
8. Loaded 448 blocks.

Section 6: Clarification Questions and Responses

See April 2011 report for clarifications.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: HughesNet Communications Inc.

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_Wireless

Total rows loaded: 21 (each county in New Jersey)

Notes

Provider Interactions

None, the provider did not respond to our requests for updates. This data was used without explicit instructions from the provider. It seemed highly unlikely that the satellite coverage has changed in six months, so we elected to reuse prior data.

Connecting New Jersey - Broadband Provider Data Report

Provider: HughesNet Communications Inc.

Received: March 2011

Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Sections:

1. NDA Status
2. Submission Overview
3. Submission File Details
4. Data Validations and Results
5. Data Transformation and Loading
6. Clarification Questions and Provider Responses
7. Notes and Open Issues

Section 1: NDA Status

NONE

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Hughes Network Systems, LLC	
	“Doing business as” name		HughesNet	
	FRN		0017434911	
FOR WIRELINE				
Filetypes				
File size				
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Submitted Excel file containing a list of counties per state that are covered by their service. This included all 21 counties in New Jersey. Email message contained an image that listed their three consumer service plans and the associated upstream and downstream data rate. Max plan "Power 200" is 2Mbps down, 300Kbps up. The corresponding speed range codes are 4 down, 2 up.
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Provided	
	Advertised-downstream		Provided	
	Subscriber-weighted-up		Not provided	

	Subscriber-weighted-down		Not provided	Spectrum is 7, satellite.
Technology Type	Code 60 (Satellite)			
End-user specification	Voice message indicated that the referenced plans are consumer-focused.			
Comments:				
INTERCONNECTION DATA: NONE				
ID				
File size				
Ownership				
Transport Type				
Data Rates/Capacity				
Location				
Comments: Not provided				

Section 3: Submission File Details

Received an extraordinarily short email explaining their service offering, with a JPG image of the northeastern United States showing where they have subscribers.

Section 4: Validations and Results

No rows of data need to be validated.

Section 5: Data Transformation and Loading

NTIA Table BB_Service_Wireless

Loaded county shapes from reference data for the State of New Jersey based on emailed statements that all counties are covered. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "Hughes Network Systems, LLC"
DBANAME	Set to "HughesNet"

FRN	Set to 0017434911
TRANSTECH	Set to 60
SPECTRUM	Set to 7 per translation shown below
MAXADDOWN	Set to 4, see below.
MAXADUP	Set to 2", see below.
TYPICDOWN	Not provided, set to null
TYPICUP	Not provided, set to null
STATEABBR	Set to "NJ"
SHAPE	County shape read from reference data.

Internal notes on processing:

12. Spectrum: No statement was provided. The NTIA data model has a single column for spectrum. Satellite corresponds to NTIA "SPECTRUM USED" code value 7.
13. Speeds: The maximum advertised speeds provided in the emailed brochure are as discussed above. For max adv speeds we encoded the submitted down speed as value 4 (range 1.5-3 Mbps) and encoded the submitted up speed as value 2 (range 200 Kbps -- 768 Kbps).

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Wednesday, March 09, 2011 1:46 PM
To: 'Mark Wymer'
Cc: ConnectingNJ@research.telcordia.com
Subject: RE: NJ Broadband Data Collection

Mark,

Thanks for the information. Sorry I did not return your call – I just got back from a meeting.

One question – do you have information on typical speeds that are experienced by your customers on each of these plans?

A side note – the NTIA is interested in finer-grained information than this, looking at specific factors that affect satellite coverage, such as terrain and building shadowing. As I understand it, they will be contacting satellite providers at some point in the future to discuss appropriate techniques to model such effects.

Thanks for your participation in the program.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, March 18, 2011 10:43 AM

To: 'Mark.Wymer@hughes.com'
Cc: 'NJ Broadband Data Collection'
Subject: Hughes NJ Broadband Clarification

Mark,

We need to report data to the NTIA using Provider Name, Doing-Business-As Name and FCC Registration number. The information we retrieved from the FCC is:

Provider Name: Hughes Network Systems, LLC
FRN: 00 17434911

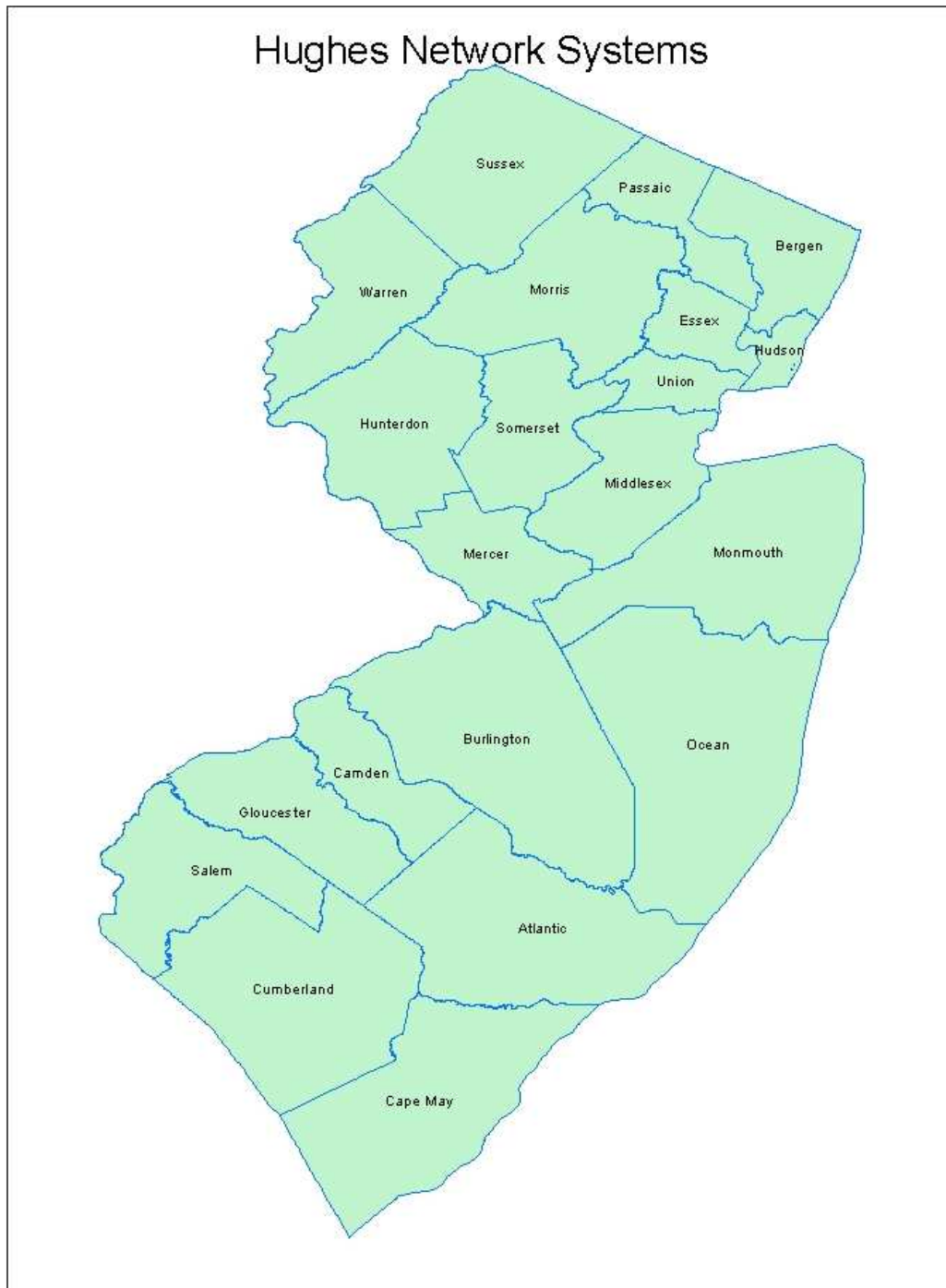
Are these correct? Also, do you have another “doing-business-as” name?

Thanks,

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Leap Cricket

Received: Aug, 2011

Submission date: Oct, 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None

Section 2: Submission Overview

AVAILABILITY DATA		
ID	PROVIDER NAME	Leap Wireless International, Inc.
	DBA NAME	Cricket Communications, Inc.
	FRN	0002963528
	Holding company name:	Leap Wireless International, Inc."
	Holding company number:	130730
FOR WIRELESS		
Filetypes	1 Mapinfo file corresponding to NJ terrestrial mobile wireless coverage (type 80)	
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Upstream max adv	yes (for entire shapefile) given in tier
	Downstream max adv	yes (for entire shape) given in tier
	Upstream typical	no.
	Downstream typical	no.
	Subscriber-weighted	no.
Technology Type	Spectrum : yes	3 (PCS) and 4(AWS)
Comments:		
INTERCONNECTION DATA		
ID		
File size		

Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: no IC data provided.	

Quick loading results:

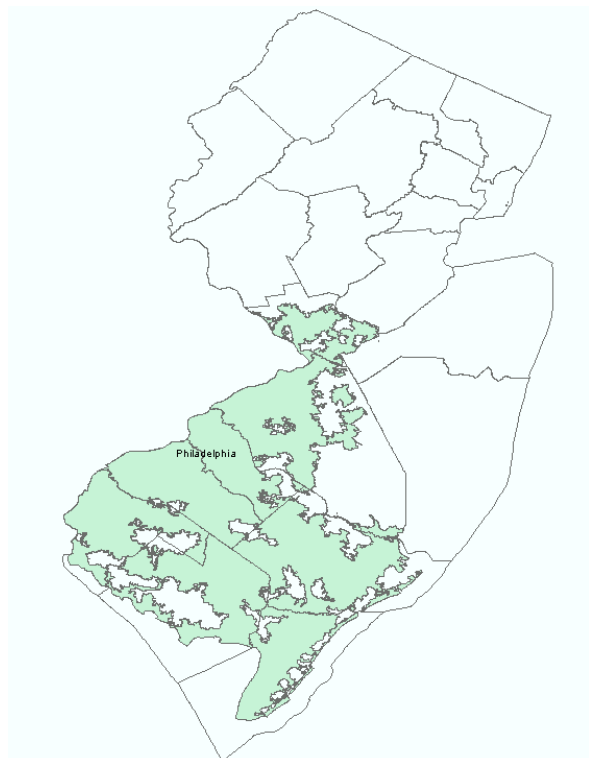


Figure 1. Loading results

Section 3: Submission File Details

1 zip file containing 5 files by (EMAIL, SECURE UPLOAD):

Size	Name
1KB	NJ_Broadband_region.dbf
1KB	NJ_Broadband_region.prj
1KB	NJ_Broadband_region.shx
820KB	NJ_Broadband_region.shp
2KB	NJ_Broadband_region.TAB

Section 4: Validations and Results

The Mapinfo file contains a single row with a multipolygon shape (see above for preview picture). The columns identify that the technology of transmission is wireless and that two different spectrum ranges are in use. Speed values were reasonable for the technology.

Section 5: Data Transformation and Loading

Loaded from the supplied Mapinfo file, with transformations as s

Table Column	Data Source / Transformation
PROVNAME	As supplied in column prov_name
DBANAME	As supplied in column dba_name
FRN	Set to "130730"
TRANSTECH	As supplied in column tech_trans
SPECTRUM	Set to "4" per translation shown below
MAXADDOWN	As supplied in column down_speed.
MAXADUP	As supplied in column up_speed..
TYPICDOWN	Not supplied, set to null
TYPICUP	Not supplied, set to null.
STATEABBR	Set to "NJ"
SHAPE	As supplied.

Internal notes on processing:

1. The supplied shape uses geographic coordinate system GCS_WGS_1984, same as that required by the NTIA data model.
2. Spectrum: Leap provided "Y" value in the columns spectrum_pcs and spectrum_aws. In the NTIA model the AWS spectrum is coded as value 4. In a response to our query, Leap indicated that the different spectra are in use in different places of their footprint. They have not provided separate shape files for these different spectrum bands.

Section 6: Clarification Questions and Responses

Provider provides 2 spectrum values for the coverage shape (PCS and AWS). We have previously requested separation of the shapes for these different technologies to no avail.

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, March 04, 2011 1:33 PM
To: 'dougwhite@cricketcommunications.com'
Cc: 'ConnectingNJ@research.telcordia.com'
Subject: NJBB Clarification Questions

Doug,

We have reviewed the data you submitted to the NJ Broadband mapping program and have a few clarification questions:

1. You include two spectrum values in the data you submitted. Are those two spectrum bands used uniformly throughout the area specified by the shape?
2. The NTIA is encouraging us to request and submit to them subscriber weighted nominal speed (down only) for each county served and middle mile locations. Are you willing to provide this data?

Thanks for your participation in the program.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Douglas White [mailto:dougwhite@cricketcommunications.com]
Sent: Monday, March 14, 2011 6:54 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJBB Clarification Questions
Importance: High

John – please see Cricket's response below. Thanks,
-Doug

Doug White

Manager, Government Affairs
Cricket Communications, Inc.
5887 Copley Drive
San Diego, CA 92111
Phone: 858-882-9394
Fax: 858-882-6080
dougwhite@cricketcommunications.com



From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, March 04, 2011 10:33 AM
To: Douglas White
Cc: ConnectingNJ@research.telcordia.com
Subject: NJBB Clarification Questions

Doug,

We have reviewed the data you submitted to the NJ Broadband mapping program and have a few clarification questions:

3. You include two spectrum values in the data you submitted. Are those two spectrum bands used uniformly throughout the area specified by the shape?
 - No, they are not used uniformly in all the shape area. PCS spectrum band is used only in Mercer and Cumberland counties and AWS in all the rest of the counties with coverage.
4. The NTIA is encouraging us to request and submit to them subscriber weighted nominal speed (down only) for each county served and middle mile locations. Are you willing to provide this data?
 - We will not be providing middle mile data.

Thanks for your participation in the program.

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Monday, March 14, 2011 8:44 PM
To: 'Douglas White'
Cc: 'ConnectingNJ@research.telcordia.com'
Subject: RE: NJBB Clarification Questions

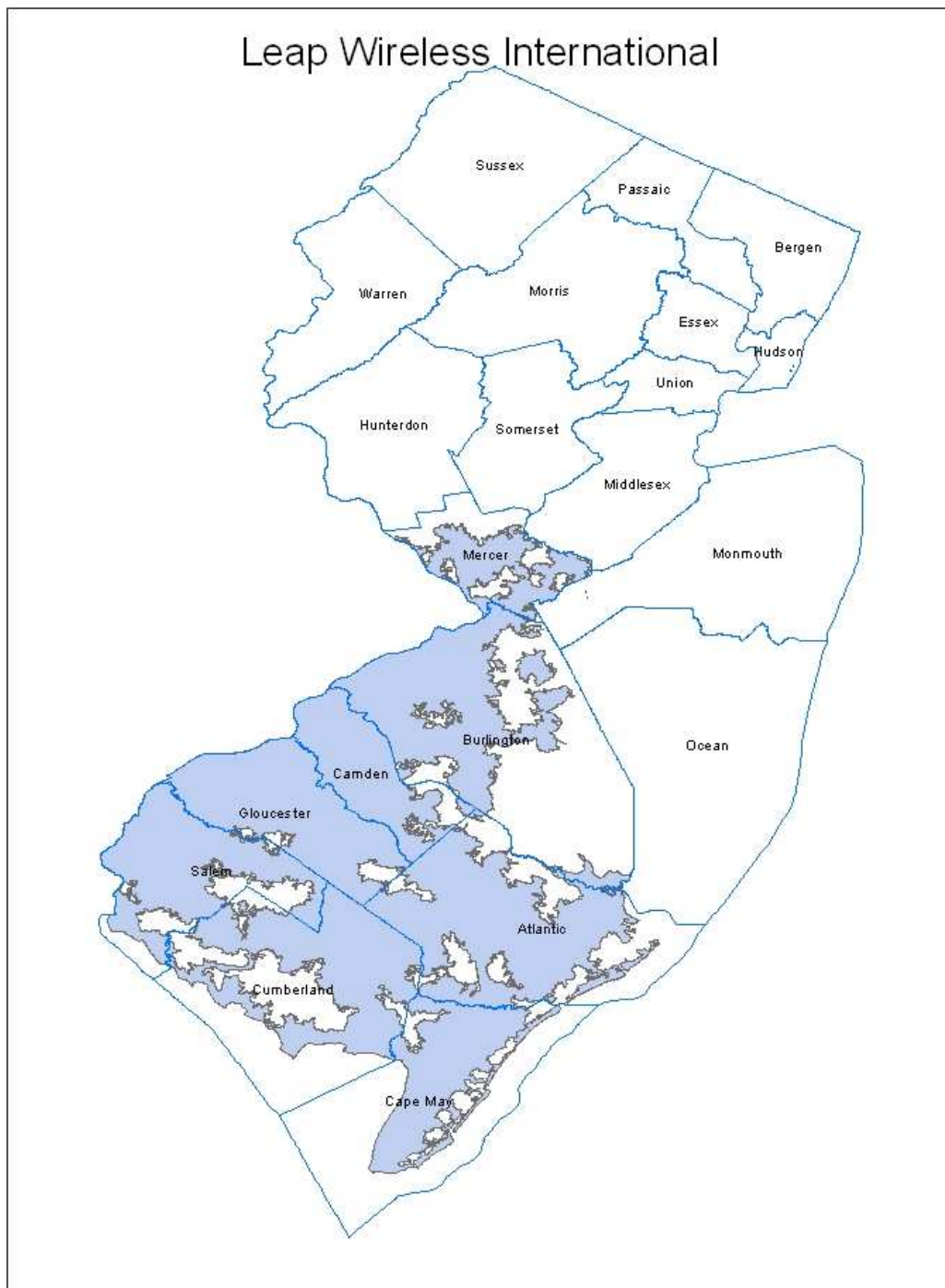
Doug,

Can you provide us with separate shape files for the PCS and AWS? I would offer to extract a shape for the counties, but I am sure your coverage areas do not line up exactly with the county boundaries.

Thanks,
John

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Level3 Networks, Inc.

Received: August 2011

Submission date: October 2011

This report presents details on processing of broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

No NDA executed.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Level 3 Communications, LLC	
	“Doing business as” name		Level 3	
	FRN		0003723822	
FOR WIRELINE				
Filetypes	Text file spreadsheets			
File size	350 data rows			
Speeds	Type		Address level data	All set to same value: 11 (>= 1gpbs)
	Typical-upstream		Yes	
	Typical-downstream		Yes	
	Advertised-upstream		Yes	
	Advertised-downstream		Yes	
	Subscriber-weighted-nominal speed		Not provided	
Technology Type	50 (optical carrier/fibre)			
End-user specification	Yes (addresses)			
Comments: typical and Advertised UP and DOWN are ALL THE SAME VALUE: 11 (>= 1gpbs)				
INTERCONNECTION DATA				
ID				
File size	text spreadsheet with 338 rows. (See comment)			
Ownership	Not provided			
Transport Type	provided			
Data	provided			

Rates/Capacity	
Location	Address provided as well as lat/long
Comments: A large number of duplicate rows were confusing. This is worth asking the provider.	
Provider indicates that they are separate instances and should NOT be removed as duplicates.	

Section 3: Submission File Details

Received 2 files by secure upload:

Size kb	Name
45	AddressAvailability_NewJersey_8-18-2011.txt
41	MiddleMile_New Jersey_8-18-2011.txt

Section 4: Validations and Results

The “address” file has 350 rows. All speed codes set the same, code 11 (1+ Gbps), suggesting these are all commercial customers.

The “middlemile” file has 338 rows, including many rows that are exact duplicates which we will have to discard despite the provider’s assurances that they are “different”.

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we discover the census block for each customer address, and then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from the supplied tab-separated file. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column “DBA” (no provider name supplied separately)
DBANAME	As supplied in column “DBA”
FRN	As supplied in column “FRN” after removing dashes
OWNERSHIP	Set to null (not supplied)
BHCAPACITY	As provided in column “Serving Facility Capacity”
BHTYPE	As provided in column “Serving Facility Type”

LATITUDE	As supplied
LONGITUDE	As supplied
ELEVFEET	As supplied (all zero values)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Point shape created using ESRI ArcDesktop

Internal notes on processing:

1. Imported the data to a geodatabase table
2. Added a point for each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
3. Added a column containing the ID of the containing year 2010 census block via a spatial join of the points and the census block shapes from reference data. All records successfully spatially joined on 2010 NJ Census Block shapes.
4. Discarded 149 records with identical lat, long values and addresses.
5. Loaded 188 records.

NTIA Table BB_Service_CensusBlock

Loaded from the supplied tab-separated file. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "DBA" (no provider name supplied separately)
DBANAME	As supplied in column "DBA"
PROVIDER_TYPE	Set to "1"
FRN	As supplied in column "FRN"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column "Technology of Transmission"
MAXADDOWN	As supplied in column "Maximum Advertised Download Speed"
MAXADUP	As supplied in column "Maximum Advertised Upload Speed"
TYPICDOWN	Set to null (see below)
TYPICUP	Set to null (see below)
ENDUSERCAT	Set to null (see below)
SHAPE	Copied from Census Bureau TigerLine 2010, as matched by spatial join on the geocoded address

Internal processing notes:

1. Geocoded the addresses using an Arroyo flow and the Yahoo geocoder, leaving

the result with address and lat, long data in an Excel spreadsheet. All addresses were successfully geocoded, although 1 was not placed in New Jersey.

2. Imported the spreadsheet to an ESRI geodatabase table
3. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option
4. Added a column containing the ID of the containing year 2010 census block using ArcCatalog's spatial join feature. The newly created point shapes are joined against census block shapes from reference data. All but three records successfully spatially joined on 2010 NJ Census Block shapes.
5. Discarded typical speeds since they were in all cases identical to maximum advertised speeds, not measured values.
6. The end user category value as originally supplied applied to an address, but we must anonymize the addresses and report census blocks. The NTIA directs us to report the "predominant" end-user category, which is not supplied here.
7. Discarded 79 duplicate census block records, which result from multiple addresses in the same census block.
8. Loaded 270 records.

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [<mailto:ConnectingNJ@research.telcordia.com>]
Sent: Wednesday, August 24, 2011 9:14 AM
To: Diamond, Greg
Cc: ConnectingNJ@research.telcordia.com
Subject: NJBB Data Clarification

Greg,

We have reviewed the data you submitted to the New Jersey Broadband Mapping program. We have one question. The middle-mile data you submitted in MiddleMile_New Jersey_8-18-2011.txt includes many rows that are duplicates. Can we safely discard these duplicate entries?

Thanks for your participation,

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Diamond, Greg [<mailto:Greg.Diamond@Level3.com>]
Sent: Wednesday, August 24, 2011 1:17 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJBB Data Clarification

John, this issue came up with our CA submission as well. We investigated and determined that there were in fact some differences, albeit small, with some of the sites such that each site is in fact unique. Give that, I would not treat them as duplicates.

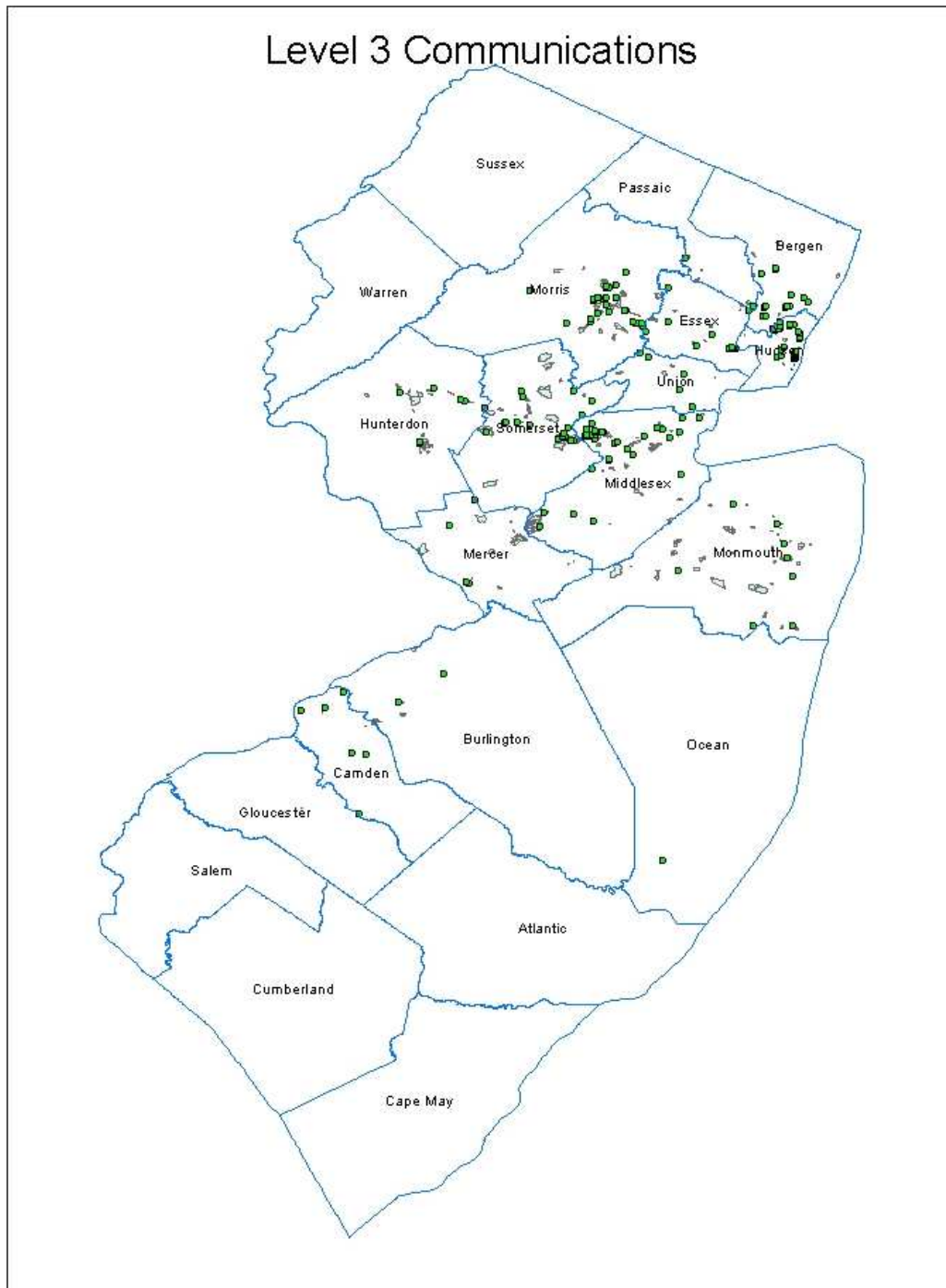
Greg

PLEASE NOTE MY NEW ADDRESS AND TELEPHONE NUMBER

Gregory T. Diamond
Regulatory Counsel
Level 3 Communications
1505 5th Avenue
Suite 501
Seattle, WA 98110
Desk: 206-652-5608
Mobile: 303-562-7378

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Monmouth Telephone and Telegraph

Received: July 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Signed NDA is in place with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Monmouth Telephone & Telegraph	
	“Doing business as” name		same	
	FRN		0004325205	
FOR WIRELINE				
Filetypes	Csv (NJBB_0004325205_AddressLevelAvailability.csv)			
File size	105958 bytes, 1054 records			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Address	
	Typical-downstream		Address	
	Advertised-upstream		Address	
	Advertised-downstream		Address	
	Subscriber-weighted-up		None provided	
	Subscriber-weighted-down		Not provided	
Technology Type	Code 30 – other copper line Code 50 - Optical Carrier/Fiber to the End User			
End-user specification	Code 4 – Medium or Large Enterprise			
Comments:				
INTERCONNECTION DATA				
ID				

File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
<p>Comments: No middle mile was provided at this time. Monmouth gave the following explanation:</p> <p>Please note that Table 8, "Middle-mile and Backbone Interconnection Points Data", is not included per instructions on page 11 of the Data Submission Specifications "Middle-mile and Backbone Interconnection Point information should focus on the connectivity at a point. That is, if a point at which network elements or segments are joined would not reasonably offer the possibility of technical connectivity with the network[s], it should not be reported".</p>	

Section 3: Submission File Details

The data are very similar to the last submission.

Received 1 zip file:

Size	Name
20Kb	Broadband Mapping.zip

The zip archive contains the following files:

Size	Name
104Kb	NJBB_0004325205_AddressLevelAvailability.csv
1Kb	NJBB_0004325205_CMAAdvertisedAvailability.csv
1Kb	NJBB_0004325205_SubscriberWeightedNominalSpeed.csv
21Kb	Read Me.doc

File details:

File NJBB_0004325205_AddressLevelAvailability.csv:

The file contains 1054 records. Note that data file does not have a header row, but follows (largely) the ADDRESS DATA table from the NTIA "State Broadband Data and Development Grant Program" document. The columns and the corresponding headers are:

A	- Provider Name
C	- FRN
D-L	- Address
M	- EndUserCat
N	- TransTech

- O - MaxAdvDown
- P - MaxAdvUp
- Q - TypicDown
- R - TypicUp

The FRN is missing leading zeros. Very few entries are provided in the 4-digit zip column (L), some do not have the required leading zeros. It was established (prior interactions) that the DBA is Monmouth Telephone & Telegraph. Certain addresses will need to be fixed for geocoding (also per prior interactions). Some records have speed tiers of 2 or less.

NJBB_0004325205_CMAAdvertisedAvailability.csv

The file contains 14 records. Note that data file does not have a header row, but follows the CMA data submission template that we posted on the connectingnj web site. The columns and the corresponding headers are:

- A - Provider Name
- C - FRN
- D - CMA
- E - TransTech
- F - MaxAdvDown
- G - MaxAdvUp

NJBB_0004325205_SubscriberWeightedNominalSpeed.csv

The file contains 14 records. Note that data file does not have a header row, but follows the Subscriber-Weighted Nominal Speed data submission template that we posted on the connectingnj web site. The columns and the corresponding headers are:

- A - Provider Name
- C - FRN
- D - CMA
- E - TransTech
- F - SubsWeightedSpeed

Read Me.doc

The file contains explanations of the submission.

Section 4: Validations and Results

See notes in file description section

Some of the addresses will be difficult or impossible to geo-locate due to format; e.g., “179 Ave at the Common & 11, Shrewsbury, NJ”

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we will discover the census block for each customer address, then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

Loaded from supplied Excel spreadsheet after suitable geospatial operations. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to “Monmouth Telephone & Telegraph”
DBANAME	Set same as PROVNAME
PROVIDER_TYPE	Set to 1
FRN	Set to “0004325205”
STATEFIPS	Set to “34” (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column TransTech
MAXADDOWN	As supplied in column MaxAdvDown
MAXADUP	As supplied in column MaxAdvUp
TYPICDOWN	Set to null
TYPICUP	Set to null
SHAPE	Copied from Census Bureau TigerLine 2000, as matched by spatial join on geocoded address

Internal processing notes:

1. All NJBB_0004325205_AddressLevelAvailability.csv records were successfully geocoded. Geocoded the addresses using the Google and Yahoo geocoders to obtain a Latitude, Longitude pair for each.. Addresses that yielded results with accuracy of 6 or below were excluded; only intersection (7) or rooftop (8) accuracy is acceptable.
2. Created an Excel sheet and imported it to a geodatabase table.
3. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's “Create Feature Class from XY Table” option.
4. Added a column containing the ID of the containing year 2010 census block via a spatial join of the point shapes and the census block shapes from reference data.

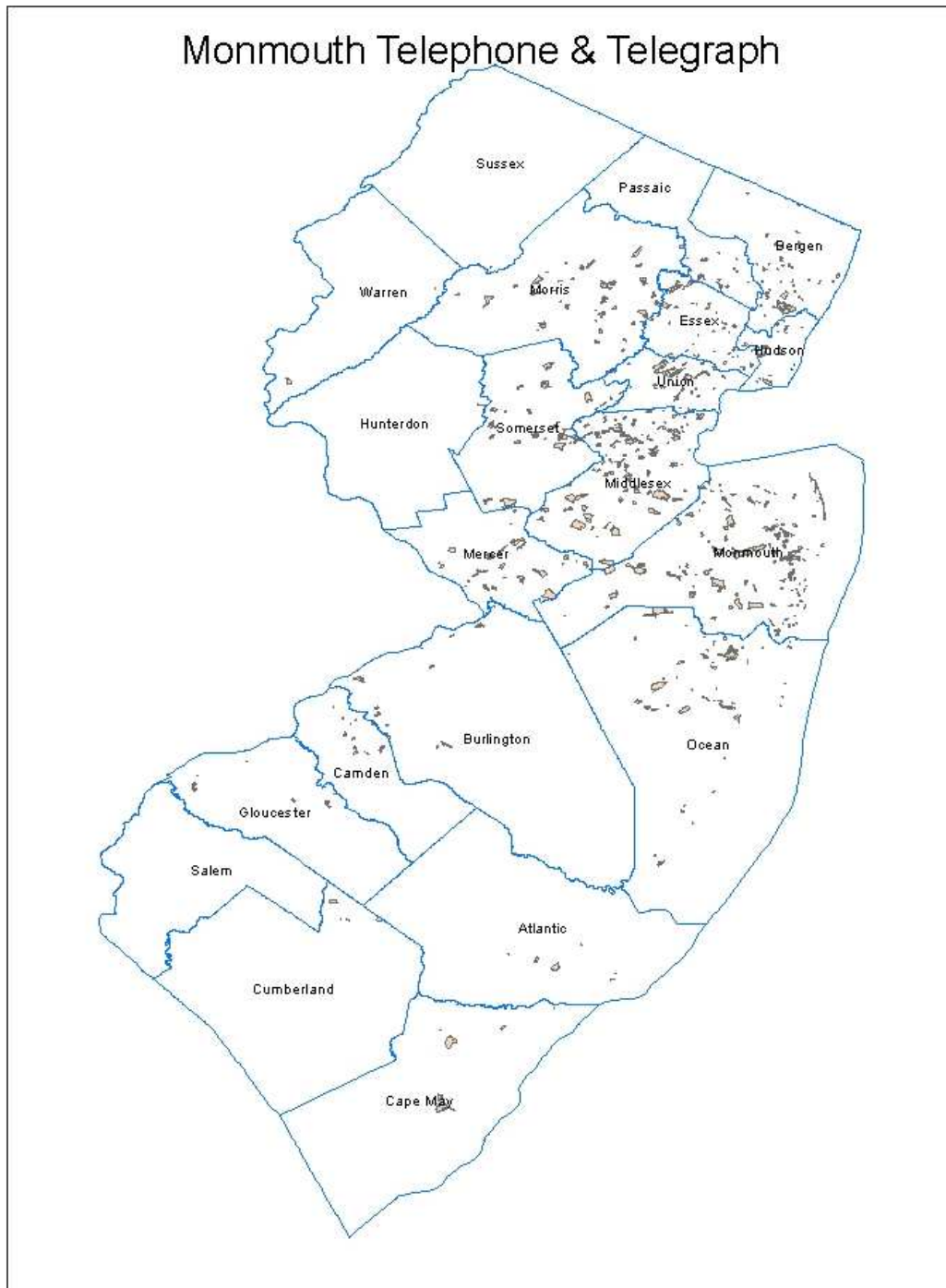
One record failed to spatially join on the 2010 NJ Census Block shapes.

5. Discarded 100 rows because the max adv down speed code was 1 or 2, which is not broadband according to the requirements of the NOFA
6. Discarded 185 rows with duplicate census blocks while preserving the greatest speed. These result from multiple customers in the same census block.
7. Discarded 4 large census blocks (greater than 2 square miles).
8. Final record count loaded is 764.

Section 6: Clarification Questions and Responses

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Netcarrier

Received: June 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name “Doing business as” name FRN		Netcarrier Netcarrier Telecom, Inc. 0005043195	
FOR WIRELINE				
Filetypes	Excel			
File size	119 KB (595 rows)			
Speeds	Type		Spatial Resolution: address	Provides a .xls file with 895 rows of information (end user addresses).
	Typical-upstream		Address-level	
	Typical-downstream		Address-level	
	Advertised-upstream		Address-level	
	Advertised-downstream		Address-level	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	Types: 10, 30, 50			
End-user specification	Address level.			
Comments: No weighted values provided.				
INTERCONNECTION DATA				
ID	NJ_Broadband_Mapping-Backbone-090711			
File size	12 kb			
Ownership	Not provided			

Transport Type	Facility type provided (code 1 and 2 used)
Data Rates/Capacity	Not provided
Location	Provided by street address (elevation provided as well)
Comments: 2 other fields called V-COORD and H-COORD (5 digit #'s) are provided.	

Section 3: Submission File Details

Received 1 file by secure upload:

Size	Name
74 kb	NJ477_Workbook-090411-NJ-BroadbandMapping-A.xls
12	NJ_Broadband_Mapping-Backbone-090711.xls

Section 4: Validations and Results

Address data has 895 records that appear to be valid locations with reasonable technology and speed information

Backbone has 11 records.

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we discover the census block for each customer address, and then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from the supplied Excel Spreadsheet. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "Provider Name" but changed "c" to "C"
DBANAME	As supplied in column "DBA" but changed "c" to "C"
FRN	As supplied in column "FRN"
OWNERSHIP	As provided in column "Ownership"
BHCAPACITY	As provided in column "Serving Facility Capacity"
BHTYPE	As provided in column "Serving Facility Type"

LATITUDE	As computed from address
LONGITUDE	As computed from address
ELEVFEET	Set to "0" (zero); values such as "FI 1" were not parsed
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Created using ESRI ArcDesktop

Internal notes on processing:

1. Used the provider name, DBA name, and FRN as supplied.
2. Geocoded the address to obtain a Latitude, Longitude value pair. All middle-point addresses were successfully geocoded using Arroyo with Yahoo geocoder.
3. Imported the resulting data to a geodatabase table.
4. Added a point for the Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
5. Added a column containing the ID of the containing year 2010 census block via a spatial join of the points and the census block shapes from reference data. All records successfully spatially joined on 2010 NJ Census Block shapes.
6. Loaded 11 records.

NTIA Table BB_Service_CensusBlock

Loaded from the file mentioned above. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "Provider Name" but changed "c" to "C"
DBANAME	As supplied in column "DBA" but changed "c" to "C"
PROVIDER_TYPE	Set to "1"
FRN	As supplied in column "FRN"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column "Technology Code"
MAXADDOWN	As supplied in column "Max Ad Download Speed"
MAXADUP	As supplied in column "Max Ad Upload Speed"
TYPICDOWN	Set to null (see below)
TYPICUP	Set to null (see below)
ENDUSERCAT	Set to null (see below)
SHAPE	Copied from Census Bureau TigerLine 2010, as matched by spatial join on geocoded address

Internal processing notes:

1. Geocoded the addresses using an Arroyo flow and the Yahoo geocoder, leaving the result with address and lat, long data in an Excel spreadsheet. All addresses were successfully geocoded (note: Excel file has an empty record at the end).
2. Imported the spreadsheet to a simple ESRI geodatabase table
3. Added point shapes corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option
4. Added a column containing the ID of the containing year 2010 census block using ArcCatalog's spatial join feature. The newly created point shapes are joined against census block shapes from reference data. All but three records successfully spatially joined on 2010 NJ Census Block shapes.
5. Discarded typical speeds since they were in all cases identical to maximum advertised speeds, not measured values.
6. The end user category value as originally supplied applied to an address, but we must anonymize the addresses and report census blocks. The NTIA directs us to report the "predominant" end-user category, which is not supplied here.
7. Discarded 324 duplicate census block records, which result from multiple addresses in the same census block.
8. Discarded 1 large census block record (340297351041013).
9. Loaded 567 records.

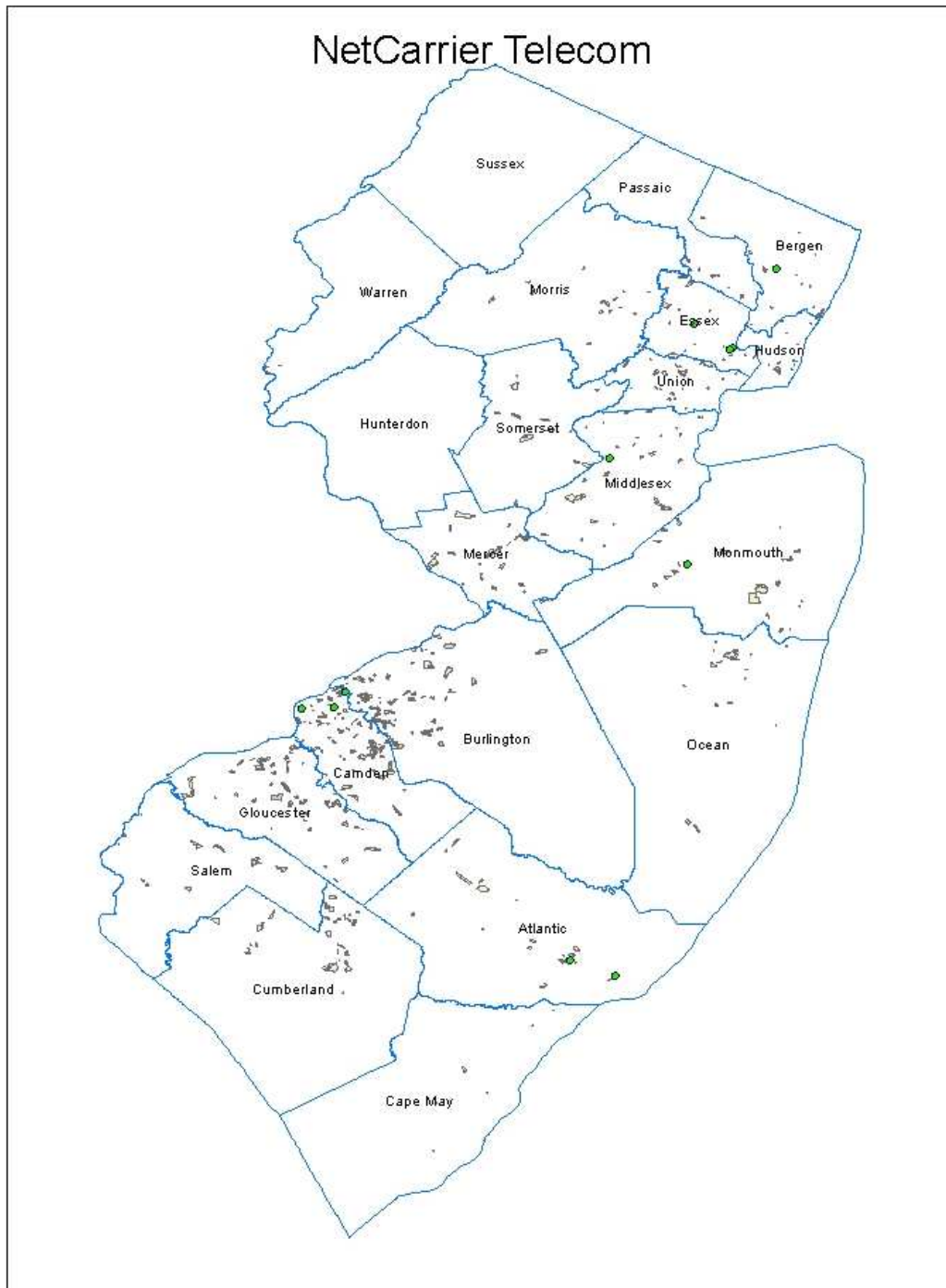
Section 6: Clarification Questions and Responses

Provider did not provide:

1. Subscriber weighted values

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data\



Provider: Network Billing Systems

Received: August 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None

Section 2: Submission Overview

AVAILABILITY DATA									
ID	Provider name		Network Billing Systems LLC						
	"Doing business as" name								
	FRN		0004965141						
FOR WIRELINE									
Filetypes	NO Data Provided								
File size									
Speeds	Type		Spatial Resolution:	None					
	Typical-upstream								
	Typical-downstream								
	Advertised-upstream								
	Advertised-downstream								
	Subscriber-weighted-up								
	Subscriber-weighted-down								
Technology Type	Types:								
End-user specification									
Comments:									
INTERCONNECTION DATA									
ID									
File size									
Ownership	Not provided								

Transport Type	Fiber
Data Rates/Capacity	Not provided
Location	Provided by street address
One email with three addresses of their fiber ring interconnections, two in New Jersey.	

Section 3: Submission File Details

Received 1 file by email:

Size	Name
1Kb	NBS_MiddleMile txt.txt

Section 4: Validations and Results

Addresses were geocoded. Limited validation is possible as only middle mile data was provided.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "Network Billing Systems LLC"
DBANAME	Set to "Network Billing Systems LLC"
FRN	Set to "0004965141"
OWNERSHIP	Set to null, not provided
BHCAPACITY	Set to 5, OC-48 is 2.5Gbps
BHTYPE	Set to 1, transport facility is fiber
LATITUDE	As computed from address
LONGITUDE	As computed from address
ELEVFEET	Set to "0" (zero)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Created using ESRI ArcDesktop

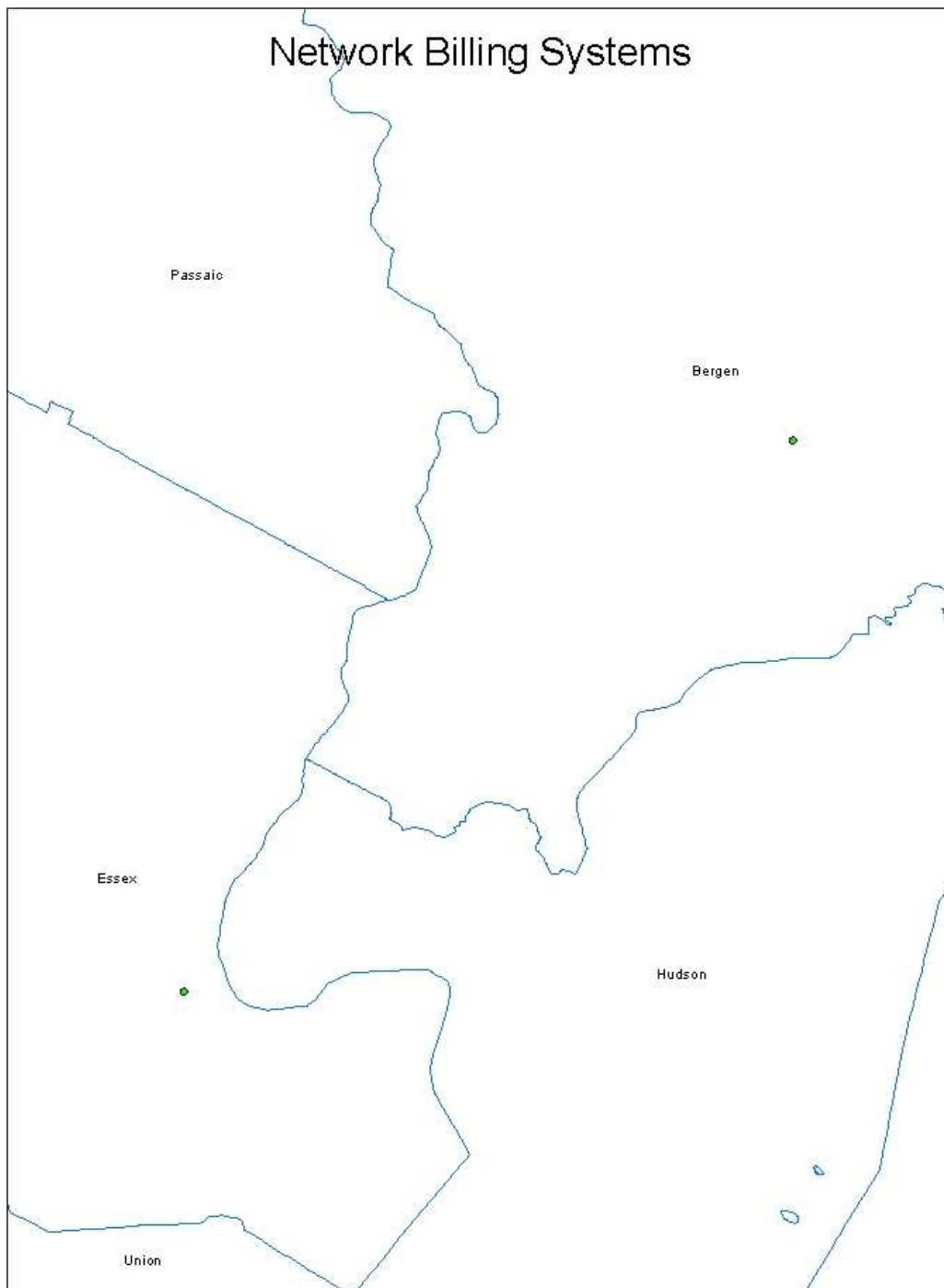
Internal notes on processing:

1. Used the provider name, DBA name, and FRN from FCC Form 477 reference data.
2. Geocoded the address to obtain a Latitude, Longitude value pair. All middle-point addresses were successfully geocoded using Arroyo with Yahoo geocoder.
3. Imported the resulting data to a geodatabase table.
4. Added a point for the Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
5. Added a column containing the ID of the containing year 2010 census block via a spatial join of the points and the census block shapes from reference data. All records successfully spatially joined on 2010 NJ Census Block shapes.
6. Loaded 2 records.

Section 6: Clarification Questions and Responses

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: One Communications

Received: June 2011

Submission date: October 2011

This report presents details on processing of broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Executed an NDA with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		One Communications	
	“Doing business as” name		Not provided	
	FRN		015-33-7702	
FOR WIRELINE				
Filetypes	Excel (“One NJ Broadband Connections Data as of 06.30.11.xls”)			
File size	119 KB (595 rows)			
Speeds	Type		Spatial Resolution: address	Provided table with addresses and speeds at each address. Speed columns are labeled “Downstream speed” and “Maximum upstream speed” with values 2..8. Code 8 is “25 mbps and less than 50 mbps”;(Verified that is possible on copper?)
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Not provided	
	Advertised-downstream		Not provided	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	10 (ADSL), 20 (SDSL), 30 (Other copper)			
End-user specification	All 3 (small business) – 88 rows at the end of the set have no EndUserCat specified.?			
Comments:				
INTERCONNECTION DATA				
ID	Not provided			
File size				
Ownership				

Transport Type	
Data Rates/Capacity	
Location	
Comments:	

Section 3: Submission File Details

Received 1 file by secure upload:

Size	Name
119 kb	One NJ Broadband Connections Data as of 6.30.11.xls

Section 4: Validations and Results

Speed data has values between 2 and 8.
Code 8 is “25 mbps and less than 50 mbps”.
Verified that is possible on copper.

Section 5: Data Transformation and Loading

NTIA Table BB_Service_CensusBlock

Loaded from supplied Excel file. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column “Provider Name”
DBANAME	Not supplied; set same as PROVNAME
PROVIDER_TYPE	Set to 1
FRN	As supplied in column FRN, without dashes
STATEFIPS	Set to “34” (NJ)
COUNTYFIPS	Populated from Census_Block_ID (first 3 digits)
TRACT	Populated from Census_Block_ID (next 6 digits)
BLOCKID	Populated from Census_Block_ID (remaining 4 digits)
FULLFIPSID	As discovered from reference data (see below)
TRANSTECH	As supplied in column Technology of Transmission
MAXADDOWN	As supplied in column Maximum Downstream Speed
MAXADUP	As supplied in column Maximum Upstream Speed
TYPICDOWN	Set to null (see below)
TYPICUP	Set to null (see below)

ENDUSERCAT	Set to null because not supplied
SHAPE	As found in Census Bureau year 2010 reference data

Internal processing notes:

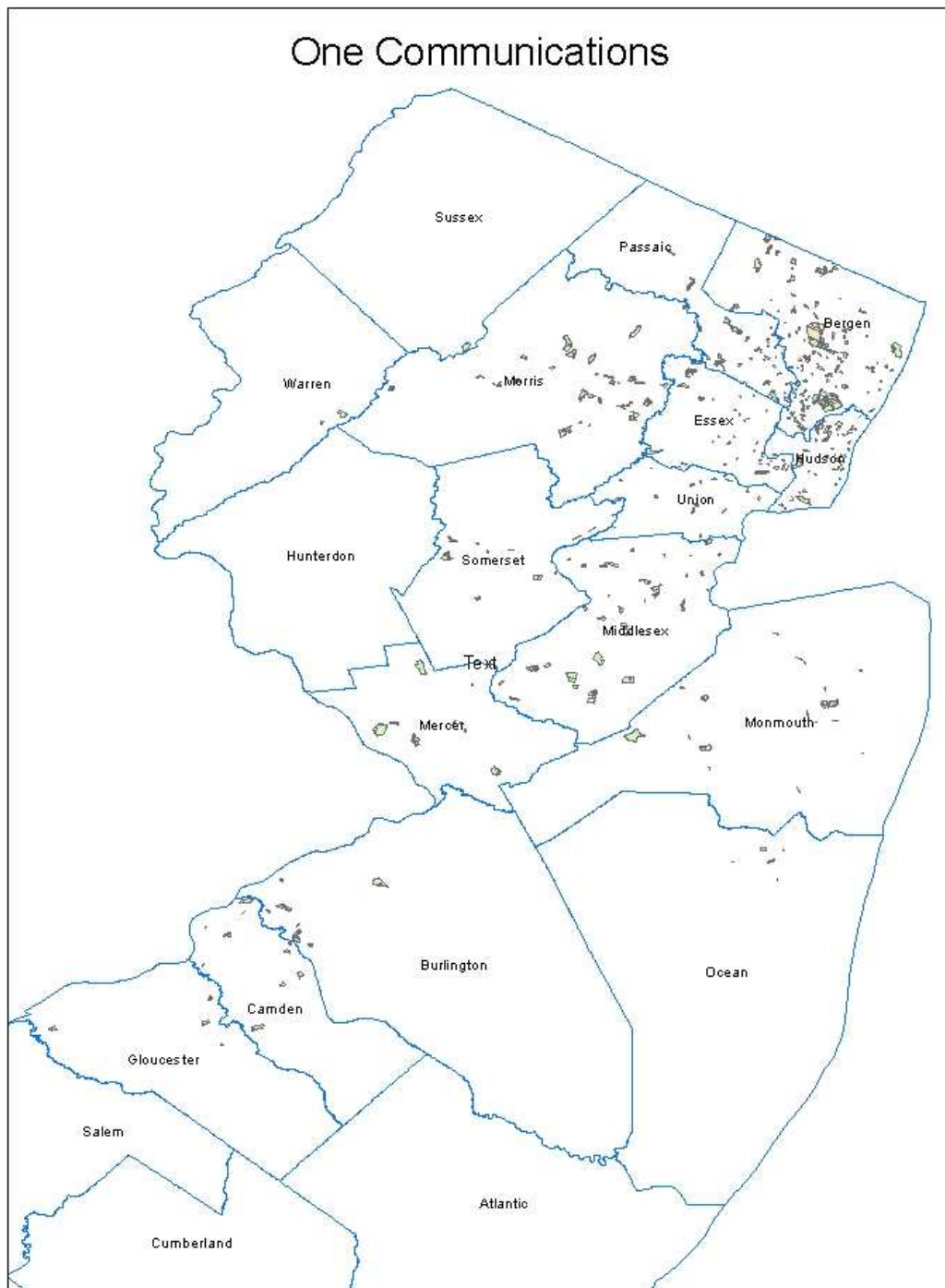
1. All addresses were successfully geocoded using Arroyo with Yahoo geocoder.
2. Created an excel sheet and imported it to a geodatabase table.
3. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. All records successfully spatially joined on 2010 NJ Census Block shapes to find the containing census block (ID and shape) for each address.
5. Discarded 84 rows with duplicate census blocks (multiple addresses in the same census block).
6. Discarded 1 row with a census block larger than 2 square miles (340230085021027).
7. Loaded 509 records.

Section 6: Clarification Questions and Responses

1. 88 rows at the end of the set have no EndUserCat specified
2. Clarify semantics of table rows named "Downstream Speed" (e.g., typical, chosen?), and "Maximum Upstream Speed" (see question from last round). From last round the response was:
 - a. "The data in the max up/down columns correspond to the maximum speeds available to each respective customer for his/her service. I realize that the request asks for typical up/download speeds. However, I was informed by our engineering department that this information is not typical kept and available in our systems."
3. Looks like the rest is similar to past input so similar questions remain (though they may have been answered acceptably already). E.g., see Speed's table above and the comments left there.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data\



Provider: Service Electric Cable TV of Hunterdon

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Total rows loaded: 1,745

NTIA Table BB_Service_RoadSegment

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Total rows loaded: 76

Notes

Provider Interactions

August 10, 2011: Tim Himmelright informed us via voice mail that there have been no changes in their speeds or coverage.

August 11, 2011: John sent email asking for written confirmation.

Connecting New Jersey - Broadband Provider Data Report

Provider: Service Electric Cable TV of Hunterdon

Submission date: April 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA). This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Dropped the column "reseller".
2. Added the column "provider_type" and populated with value 1 ("Broadband provider as described in the NOFA")

NTIA Table BB_Service_RoadSegment

1. Dropped the column "reseller".
2. Added the column "provider_type" and populated with value 1 ("Broadband provider as described in the NOFA")

Provider Interactions

Tim Himmelright of Service Electric called and spoke to John Wullert on 4 March 2011 and confirmed that their data had not changed since the October data collection cycle and instructed us to use the previous data.

Connecting New Jersey - Broadband Provider Data Report

Provider: Service Electric Cable TV of Hunterdon

Received: August 2010

Submission date: October 2010

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name “Doing business as” name FRN		Service Electric Cable TV of Hunterdon, Inc. DBA not provided 0003760014	
FOR WIRELINE				
Filetypes	Text (a letter, not structured data)			
File size				
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Advertised downstream speeds 1.5, 3, 5, 7 and 10 mbps; up speed 800 kbps. Typical Speeds were confirmed prior to October submission to be 10-15% below advertised.
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Municipality	
	Advertised-downstream		Municipality	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	Docsis 2.0 (use code 41)			
End-user specification	Not provided			
Comments:				

INTERCONNECTION DATA	
ID	None
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments:	

Section 3: Submission File Details

Received email for October submission with information on the municipalities served in entirety, the technology of transmission, and the speed tiers offered to customers. Confirmed that information via phone on March 4, 2011

Section 4: Validations and Results

The sole data to validate is their provided list of municipality names:

Municipality	County
Alexandria Township	Hunterdon
Alpha Borough	Warren
Bloomsbury Borough	Hunterdon
Frenchtown Borough	Hunterdon
Greenwich Township	Warren
Harmony Township	Warren
Holland Township	Hunterdon
Kingwood Township	Hunterdon
Lopatcong Township	Warren
Milford Borough	Hunterdon
Phillipsburg	Warren
Pohatcong Township	Warren

Section 5: Data Transformation and Loading

NTIA Table BB_Service_CensusBlock

Loaded based on email received on August 23, 2010. We submitted all census blocks in the named municipalities. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Service Electric Cable TV of Hunterdon, Inc."
DBANAME	Not supplied; set same as PROVNAME
RESELLER	Set to "N"
FRN	Set to "0003760014"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	Set to 41 (Cable Modem – Other) per email Docsis-2.0
MAXADDOWN	Set to 7 (10Mbps) per email
MAXADUP	Set to 3 (800Kbps) per email
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	Copied from Census Bureau TigerLine 2000, as matched by spatial join on geocoded address

Internal processing notes:

1. Created a file with municipality names that match exactly names in the "name" column in the Year 2000 Census Bureau TigerLine database. Primarily this meant changing "Boro" to "Borough".
2. Joined against reference data to discover census blocks.

NTIA Table BB_Service_RoadSegment

Loaded with street segments in census blocks larger than 2 square miles as listed in Census Bureau TigerLine reference data. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Service Electric Cable TV of Hunterdon, Inc."
DBANAME	Not supplied; set same as PROVNAME
RESELLER	Set to "N"
FRN	Set to "0003760014"
ADDMIN	From reference data
ADDMAX	From reference data
PREDIR	From reference data
STREETNAME	From reference data
STREETTYPE	From reference data
SUFFDIR	From reference data
CITY	From reference data

STATECODE	From reference data
ZIP5	From reference data
ZIP4	From reference data
TRANSTECH	Set to 41 (Cable Modem – Other) per email Docsis-2.0
MAXADDOWN	Set to 7 (10Mbps) per email
MAXADUP	Set to 3 (800Kbps) per email
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	From reference data

Section 6: Clarification Questions and Responses

1. What is the FRN?
2. Should we expect any middle-mile data?

Interaction from August 2010:

Tim,

We have been reviewing the data you submitted to the New Jersey Broadband mapping program. Based on our initial review, we have some questions for you that will help us better understand the data and process it accurately.

1. Could you please provide the FRN for your company?
2. Is there any information you can provide about the typical speeds experienced by your customers, based on your network configurations, monitoring results or general experience?
3. Do you have any middle mile locations to report?

We would appreciate your prompt attention to these questions. If you need further clarification, please feel free to contact me.

Thank you for your participation!

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Tim Himmel called John Wullert on 8/27/2010. He answered the questions as followed:

- He will have to check on the FRN. He wasn't quite sure what that meant.
- He said that their typical speeds are generally 10-15% below advertised (5.9 to 6.3 Mbps on a 7 Mbps line). (They are going to build out DOCSIS 3

over the next six months to a year to address this. With that, they may over-provision the lines (provide 12 Mbps for 10 Mbps line).

- They do not have any middle mile sites. They connect direct to PenTeleData, who provides Internet access for multiple cable operators.

Tim Himmel called John Wullert on 8/31/2010 to report the FRN number. The number he provided is: FRN 0003-7600-14

From: Tim Himmelwright [mailto:himmelt@sectv.com]
Sent: Friday, March 04, 2011 3:58 PM
To: ConnectingNJ@research.telcordia.com
Subject: Re: NJ BB Data Collection - Spring 2011

John,

Computing data rates are the same as our last report. We have deployed high-speed 2-way internet services in 100-percent of all 12 communities that we serve in New Jersey.

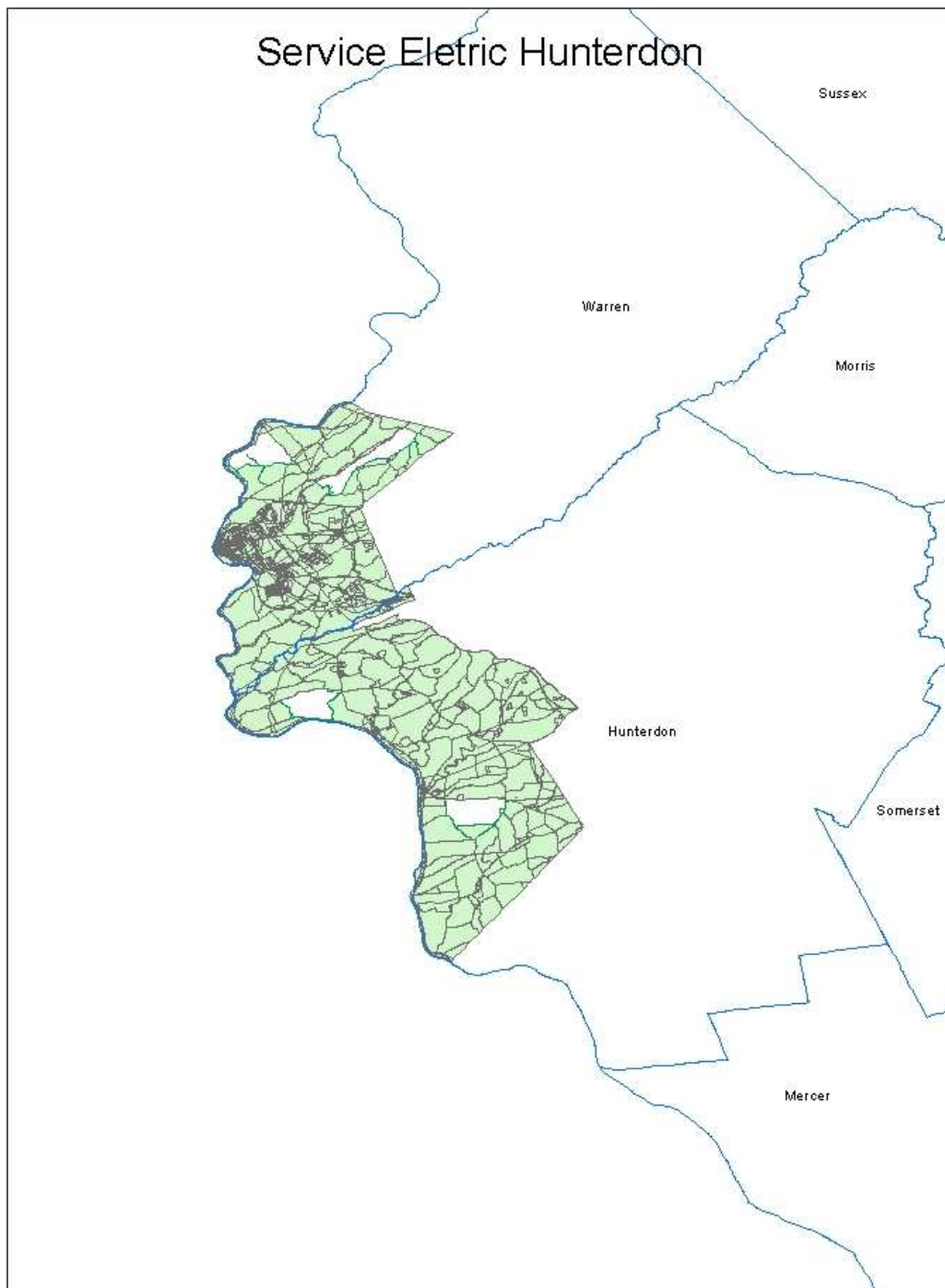
Our platform is still operating on DOCSIS 2.0. However, we are testing DOCSIS 3.0 in two of our Pennsylvania franchises. Once we work out the few small bugs we have encountered, we do plan to migrate our New Jersey properties to DOCSIS 3.0 as well. I will keep you up to date on our progress.

Best Regards,

Timothy S. Himmelwright
Communications & Public Affairs
Service Electric Cable TV & Communications

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Service Electric Cable TV of Sparta

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_ConnectionPoint_MiddleMile

1. No changes to columns, loaded as before, but using Year 2010 Census Bureau data.

Total rows loaded: 8

Notes

To create the "providerMMInput" table for this submission from the previous version, we removed the 2000 census block ID column and performed a spatial join against the 2010 census block reference data table to add a new column "geoid10" with the Year 2010 census block ID.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Total rows loaded: 5,265

NTIA Table BB_Service_Roadsegment

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Total rows loaded: 986

Provider Interactions

Received email from James Galliford on 8/22/2011 instructing us to use previously submitted data.

Provider: Service Electric Cable TV of Sparta
 Received: March 2011
 Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

No NDA executed.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name “Doing business as” name FRN		Service Electric Cable TV of NJ Inc. Service Electric Broadband Cable 0005007125	
FOR WIRELINE				
Filetypes	Text			
File size	9728 bytes			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Municipality	
	Advertised-downstream		Municipality	
	Subscriber-weighted-up		Municipality	
	Subscriber-weighted-down		Municipality	
Technology Type	Docsis 3.1 (will use code 40)			
End-user specification	Not provided			
Comments:				
INTERCONNECTION DATA				
ID				
File size	Several addresses provided			

Ownership	Not provided
Transport Type	Fiber
Data Rates/Capacity	One says "Fiber 10 gbps"; others have no statement - Clarified this via email. See answers below.
Location	Address
Comments:	

Section 3: Submission File Details

Received one (1) file by EMAIL:

Size	Name
9728	Broadband data Information.xls

Received a spreadsheet with information on the municipalities served in entirety, the technology of transmission, the modem speeds offered to customers, and some connection points.

We will gather all the census blocks in the municipality based on the TigerLine reference data and report those shapes in the BB_service_censusblock table.

Section 4: Validations and Results

Municipality names were normalized to agree with Census Bureau reference data.

In this submission the speeds appear to be provided in a straightforward fashion as Max.Down/MaxUp values, the 'Combined' value can probably be ignored.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from 8 rows in the supplied Excel spreadsheet. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "Service Electric Cable TV of NJ Inc." per email response
DBANAME	Set to "Service Electric Broadband Cable" per email response
FRN	Set to "0005007125" per email response
OWNERSHIP	Set to 0 to indicate owned per email

BHCAPACITY	Set to null, not provided
BHTYPE	Set to null, not provided
LATITUDE	Created by geocoding the supplied address
LONGITUDE	Created by geocoding the supplied address
ELEVFEET	Set to "0" (zero)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2000 Census Bureau TigerLine reference data
SHAPE	Created using ESRI ArcDesktop

Internal notes on processing:

1. Created an excel sheet and imported to a geodatabase table.
2. Added points corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
3. Added a column containing the ID of the containing year 2000 census block via a spatial join of the points and the census block shapes from reference data.

NTIA Table BB_Service_CensusBlock

Loaded based on the supplied file "Broadband data Information.xls". We submitted all census blocks less than 2 square miles in the named municipalities. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Service Electric Cable TV of NJ Inc." per email response
DBANAME	Set to "Service Electric Broadband Cable" per email response
PROVIDER_TYPE	Set to 1
FRN	Set to "0005007125" per email response
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	Set to 41 (Cable Modem – Other) per file
MAXADDOWN	Set to code 7 per max speed 30Mbps on web site
MAXADUP	Set to code 4 per max speed 2Mbps on web site
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	Copied from Census Bureau TigerLine 2010, as matched by spatial join on geocoded address

Internal processing notes:

1. Created a file with municipality names that match exactly names in the “name” column in the Year 2010 Census Bureau TigerLine database. Primarily this meant changing “Boro” to “Borough”.
2. Joined against reference data to discover census blocks, for a total of 4,135 blocks.

NTIA Table BB_Service_RoadSegment

Loaded with street segments in census blocks larger than 2 square miles as gathered from Census Bureau TigerLine reference data. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to “Service Electric Cable TV of NJ Inc.” per email response
DBANAME	Set to “Service Electric Broadband Cable” per email response
PROVIDER_TYPE	Set to 1
FRN	Set to “0005007125” per email response
ADMIN	From reference data
ADDMAX	From reference data
PREDIR	Set to null, not available in reference data
STREETNAME	From reference data
STREETTYPE	Set to null, not available in reference data
SUFFDIR	Set to null, not available in reference data
CITY	From reference data
STATECODE	Set to “NJ”
ZIP5	From reference data
ZIP4	Set to null, not available in reference data
TRANSTECH	Set to 41 (Cable Modem – Other) per email Docsis-2.0
MAXADDOWN	Set to code 7 per max speed 30Mbps on web site
MAXADUP	Set to code 4 per max speed 2Mbps on web site
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	From reference data

Internal processing notes:

3. Discovered all street segments that touch census blocks larger than 2 square miles using the census block list discovered as discussed for table BB_Service_Censusblock.
4. Joined against reference data to discover street segment, for a total of 2,223 entries.

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]

Sent: Thursday, March 10, 2011 8:54 AM

To: 'cherie@secable.com'
Cc: ConnectingNJ@research.telcordia.com
Subject: Service Electric of Sparta - NJ BB Data Clarifications

Cherie,

We have reviewed the data you submitted to the NJ Broadband Data Mapping program and have a few clarification questions about the middle mile data you submitted:

1. You list Fiber at 10Gbps with one address in your middle mile list. Do you have this same type of connection at all the locations listed? If not, can you please provide the technology and speed for each location?
2. Do you own or lease the facilities at the interconnection points you have listed?

We appreciate your participation in the program!

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: James Galliford [mailto:james.galliford@secable.com]
Sent: Thursday, March 10, 2011 1:13 PM
To: ConnectingNJ@research.telcordia.com
Cc: cherie@secable.com
Subject: Re: FW: Service Electric of Sparta - NJ BB Data Clarifications

Hello John,

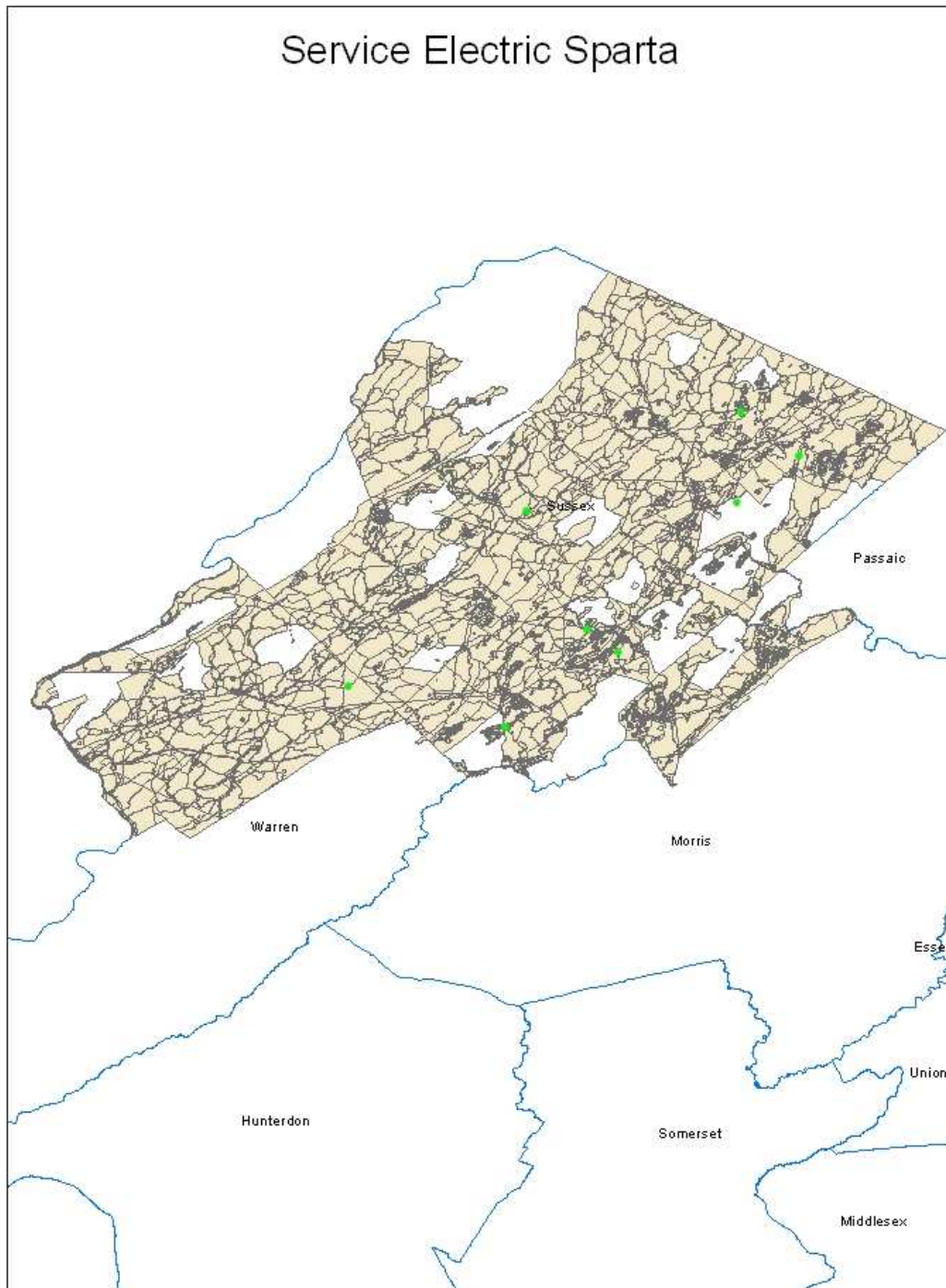
I hope my answers clear up your questions:

1. Further detail into interconnection links:
 1. 320 Sparta Ave, Sparta, NJ & 50 Esto Lane, Hamburg, NJ are interconnected via dual 10Gbps circuits
 2. All other hubsites are connected via dual 1Gbps circuits
2. We own all of the facilities used for data propagation.

Thanks.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Sidera Networks (formerly RCN)

Received: August 2011

Submission date: October 2011

This report presents details on processing of broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Executed with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		RCN New York Communications, LLC	
	“Doing business as” name		Sidera Networks	
	FRN		0006-2544-03	
FOR WIRELINE				
Filetypes	Text			
File size	32 rows			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Not provided (despite the provider’s claim)	
	Typical-downstream		Not provided (despite the provider’s claim)	
	Advertised-upstream		Address	
	Advertised-downstream		Address	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	50 (fiber)			
End-user specification	Category 4 (med or lg enterprise)			
Comments:				

INTERCONNECTION DATA	
ID	Provided – see above
File size	73 rows
Ownership	Leased
Transport Type	Fiber
Data Rates/Capacity	Will use the max. of 3 provided values (Ethernet, SONET, and/or Waves)
Location	

Section 3: Submission File Details

Received two (2) files by SECURE UPLOAD:

Size	Name
1952	NJ_Sidera_Networks_LLC_Proprietary_and_Confidential_20110701.txt

Given the prior interactions, each row is established to contain an address, end-user category, technology code (50), max advertised down/up speeds and two additional columns: ADVER_DOWNLOAD_SPEED and ADVER_UPLOAD_SPEED, which the provider claims (in their response) to be the typical down/up-load speed. We will NOT use data in these columns as the typical down/up-load speed data.

41984	NJ (Sidera) Middle Mile Proprietary and Confidential 20110701.xls
-------	---

Each row has an address, building type, statement of Ethernet, SONET, and/or Waves backhaul network speed, building ownership (all leased), and entrance (all fiber). We will use the max. of the three provided network speed values (Ethernet, SONET, and Waves) as the serving facility backhaul capacity value.

Section 4: Validations and Results

All addresses were successfully geocoded using Arroyo with Yahoo geocoder. All records successfully spatially joined on 2010 NJ Census Block shapes.

Section 5: Data Transformation and Loading

NTIA Table BB_Connectionpoint_Middlemile

Loaded from supplied file NJ (Sidera) Middle Mile Proprietary and Confidential 20110701.xls” (73 rows). The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to “Sidera Networks, LLC”
DBANAME	Set to “Sidera Networks”
FRN	Set to “0006254403”
OWNERSHIP	Set to 1 (leased)
BHCAPACITY	Set to 6 (10 Gbps or greater)
BHTYPE	Set to 1 (fiber)
LATITUDE	Created by geocoding the supplied address
LONGITUDE	Created by geocoding the supplied address
ELEVFEET	Set to “0” (zero)
STATEABBR	Set to “NJ”
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau reference data
SHAPE	Point shape created using ESRI ArcDesktop

Internal notes on processing:

1. Geocoded the addresses using the Google geocoder.
2. Created an excel sheet and imported to a geodatabase table.
3. Added point shapes corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog’s “Create Feature Class from XY Table” option.
4. Added a column containing the ID of the containing year 2010 census block via a spatial join of the point shapes and the census block shapes from reference data.
5. Loaded 73 rows.

NTIA Table BB_Service_CensusBlock

Loaded from supplied file

“NJ_Sidera_Networks_LLC_Proprietary_and_Confidential_20110701.txt” (20 rows). The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to “Sidera Networks, LLC”
DBANAME	Set to “Sidera Networks”
PROVIDER_TYPE	Set to 1
FRN	Set to “0006254403”
STATEFIPS	Set to “34” (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)

TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column Technology_Code
MAXADDOWN	As supplied in column Max_Download_Speed
MAXADUP	As supplied in column Max_Download_Speed_1
TYPICDOWN	Set to null, not supplied
TYPICUP	Set to null, not supplied
ENDUSERCAT	Set to null, not supplied
SHAPE	Copied from Census Bureau 2010 reference data, as matched by spatial join on geocoded address

Internal processing notes:

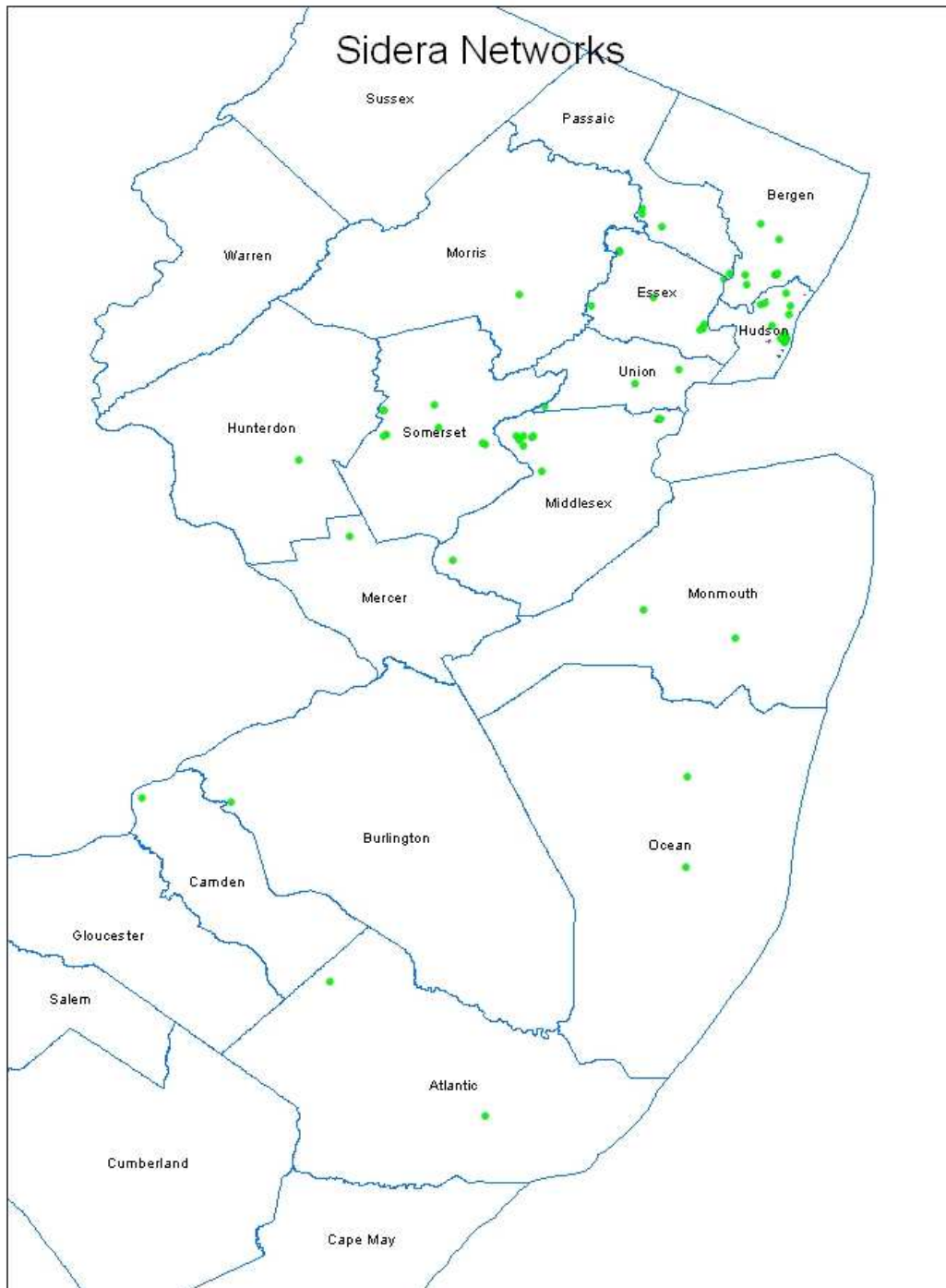
1. Geocoded the addresses using the Google geocoder to obtain a Latitude, Longitude pair for each.
2. Created an Excel sheet and imported it to a geodatabase table.
3. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. Created a new feature class and loaded data to correct tolerance value.
5. Added a column containing the ID of the containing year 2010 census block via a spatial join of the point shapes and the census block shapes from reference data.
6. Discarded 20 rows with duplicate census blocks while preserving the greatest speed.
7. Loaded 12 rows.

Section 6: Clarification Questions and Responses

1. NTIA specifies four serving facility types (1=Fiber; 2=Copper;3=Hybrid Fiber Coax (HFC); 4=Wireless) for the middle-mile connection points data. You have provided 3 columns referring (we assume) to the serving facilities in you network. One of them is titled 'Waves'. Does that indicate the wireless facility ?
(This question seems to have been already posted in the previous round.)
 - a. This was answered – all middle-mile points are Fiber.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Sprint

Received: July 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NDA was executed.

Section 2: Submission Overview

AVAILABILITY DATA - RECEIVED JULY 15, 2010		
ID	Provider name “Doing business as” name FRN	Sprint Nextel Communications Sprint 0003-77-45-93
FOR WIRELINE		
Filetypes	Txt, xls, pdf, etc.	
File size	Number of records, data elements	
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Upstream	
	Downstream	
	Typical	
	Advertised	
	Subscriber-weighted	
Technology Type	DOCSIS, xDSL, fiber, etc.	
End-user specification	Business, consumer, gov’t etc	
Comments:		
FOR WIRELESS		
Filetypes	shapefile collection: shp/dbf/prj/shx, mdb, gdb, imagefile etc.	Supplied a shapefile (zip archive) with a two rows that uses projection GCS_WGS_1984. The actual shape in the

			archive is a multi-polygon. The 2 rows correspond to spectrums 3 and 5.
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)	Max advertised up 3, down 2; typical upstream 3, down 2.
	Upstream max adv	Single shape, single speed	
	Downstream max adv	Single shape, single speed	
	Upstream typical	Single shape, single speed	
	Downstream typical	Single shape, single speed	
	Subscriber-weighted	County; but all values are identical	
Technology Type	Spectrum (Mhz, FCC code)		3 and 5 (PCS 1850-1915 MHz, 1930-1995)
Comments:			
INTERCONNECTION DATA			
ID	Provider name "Doing business as" name FRN	Sprint Nextel Corporation Sprint 0003-77-45-93	
File size	Number of records, data elements	4	
Ownership	Leased/owned	Leased = 2, owned = 2	
Transport Type	Fiber, wireless, copper	Fiber	
Data Rates/Capacity		2.4 GBPS < < 10GBPS	
Location	Street address, lat/lon, elevation	Lat/Long	
Comments:			

Section 3: Submission File Details

Received these files by upload to the secure web site:

Size Name

1 Confidential_Middlemile_NJ.zip
3547KB Sprint_AreaAvailability_NJ.zip

The zip archives contained these files:

Size	Name
427	Confidential_Middlemile_NJ.txt
1754	Confidential_Sprint_Pricing_NJ.txt
209	readme.txt
2	Sprint_AreaAvailability_NJ_region.dbf
1	Sprint_AreaAvailability_NJ_region.prj
5470	Sprint_AreaAvailability_NJ_region.shp
1	Sprint_AreaAvailability_NJ_region.shx

Section 4: Validations and Results

- Sprint provided a map showing coverage areas covering the majority of the state of New Jersey
- Sprint provided a single set of attribute data, to be applied to the entire coverage area on 2 polygons
 - They included typical and maximum advertised upload and download speeds
- Sprint provided spectrum data

Section 5: Data Transformation and Loading

Loaded 4 rows from the text file “Confidential_Middlemile_NJ.txt” supplied in October 2010. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column “provider_name”
DBANAME	As supplied
FRN	As supplied in column “frn”, after removing hyphens
OWNERSHIP	As supplied
BHCAPACITY	As supplied in column “servingfacilitycapacity”
BHTYPE	As supplied in column “servicefacilitytype”
LATITUDE	As supplied
LONGITUDE	As supplied
ELEVFEET	As supplied in column “elevation” (all zero)
STATEABBR	Set to “NJ”
FULLFIPSID	Year 2010 Census Bureau TigerLine reference data
SHAPE	Created via ArcMap “Add XY Data” feature for lat/long value pairs

Internal notes on processing:

1. Created an excel sheet with the data and imported to a geodatabase table.
2. Created a feature class from the table by creating a Point shape using ArcMap’s

- “Add XY Data” feature corresponding to each Latitude, Longitude pair.
- 3. Added a column containing the ID of the containing year 2000 census block via a spatial join of the points and the census block shapes from reference data.
- 4. The only data imputed was the state abbreviation.
- 5. Reused the ESRI feature class created in the last round.

NTIA Table BB_Service_Wireless

Loaded two rows from from the supplied shapefile “Sprint_AreaAvailability_NJ_region”. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column “provider_name”
DBANAME	As supplied in column “dbaname”
FRN	As supplied in column “frn” after removing hyphens
TRANSTECH	As supplied in column “techtrans”
SPECTRUM	Set to 3 or 5 per translation shown below
MAXADDOWN	As supplied in column “maxaddnsp”
MAXADUP	As supplied in column “maxadupsp”
TYPICDOWN	Set to null
TYPICUP	Set to null
STATEABBR	Set to “NJ”
SHAPE	As supplied.

Internal notes on processing:

1. The supplied shape uses geographic coordinate system name GCS_WGS_1984. The NTIA data model requires the same coordinate system. No geographic transformation was required, but the XY Tolerance values differ when the shapefile is imported into the geodatabase. Imported the table schema and the table data in two separate operations, thereby ensuring perfect compatibility with the NTIA data model.
2. Details on spectrum transformation: Sprint provided input columns: spectrum1, spectrum2, spectrum3, spectrum4, spectrum5, spectrum6, spectrum7. Sprint put a "Y" in columns spectrum3 (representing range 1850-1915 MHz) and spectrum5 (representing range 2496–2690 MHz). The NTIA data model has a single column for spectrum. The corresponding NTIA “SPECTRUM USED” coded values are 3 and 5.
3. The only data imputed was the state abbreviation.

Section 6: Clarification Questions and Responses

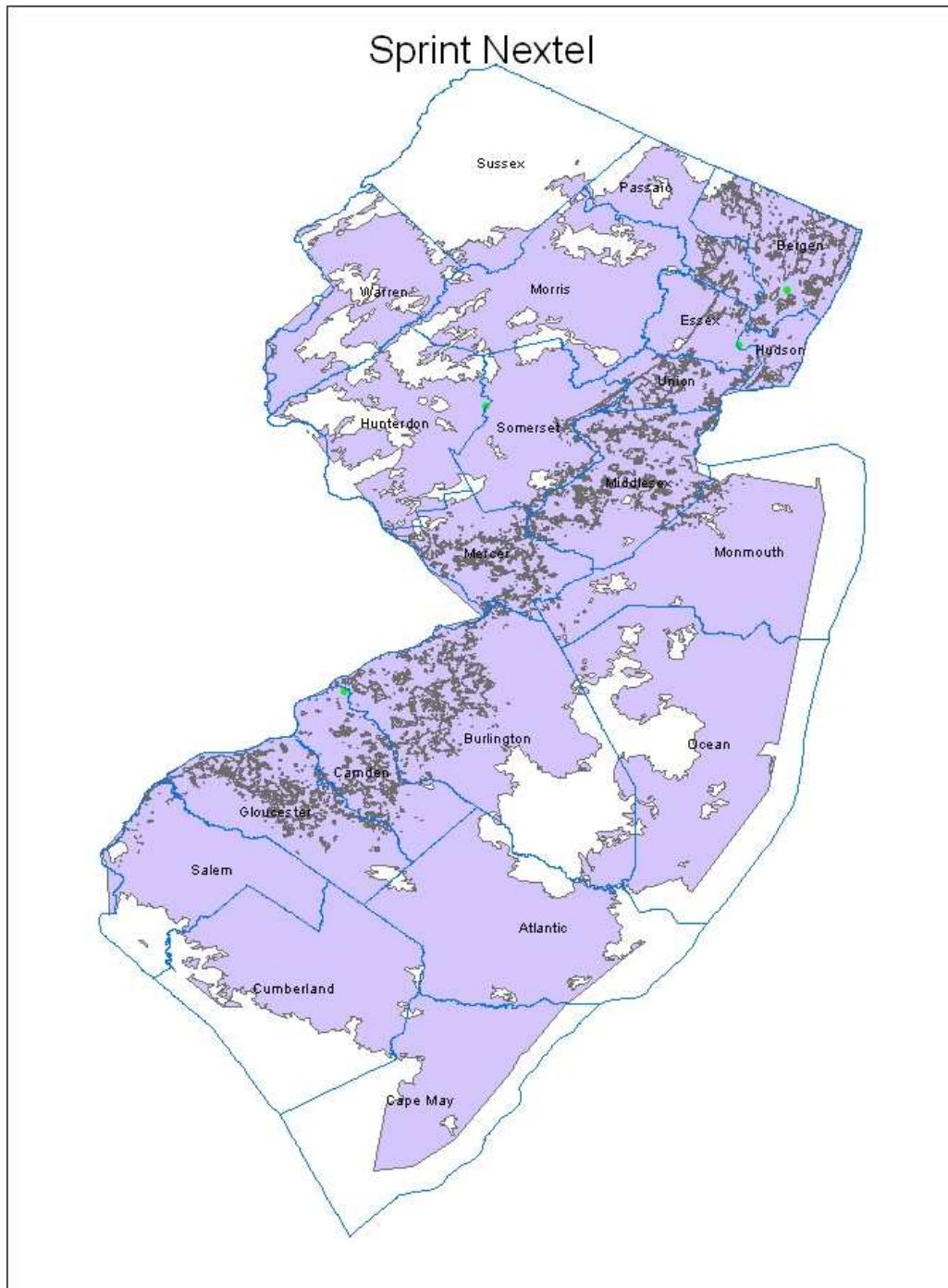
None.

NB: In June 2010 we questioned why the max advertised speed codes and the typical

speed codes are always the same. Sprint confirmed that data.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Starband

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_Wireless

Total rows loaded: 21 (each county in New Jersey)

Provider Interactions

Received note from Lesley Cooper on 7/12/2011 indicating that they had no new data to report.

Connecting New Jersey - Broadband Provider Data Report

Provider: StarBand Communications Inc.

Received: March 2011

Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NONE

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		StarBand Communications Inc.	
	“Doing business as” name		Not provided	
	FRN		0005087457	
FOR WIRELINE				
Filetypes				
File size				
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Max advertised up is Code 2 (256 Kbps), down is Code 3 (1.5 Mbps)
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream			
	Advertised-downstream			
	Subscriber-weighted-up		256Kbps	
	Subscriber-weighted-down		1.5Mbps	
Technology Type	Code 60 (Satellite)			
End-user specification	Not provided			
Comments:				
INTERCONNECTION DATA				

ID	
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: Not provided	

Section 3: Submission File Details

Received email explaining their service offering. Satellite service is provided in all of New Jersey.

On subscriber weighted values, they say:

“Since we have only 1 service that meets the definition of broadband service, the weighted average is the same as the average for that service. Upload speed is 256 Kbps and download speed is 1.5Mbps.”

Section 4: Validations and Results

No rows of data need to be validated.

Section 5: Data Transformation and Loading

NTIA Table BB_Service_Wireless

Loaded county shapes from reference data for counties in the State of New Jersey based on emailed statements that all counties are covered. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "StarBand Communications Inc."
DBANAME	Set to "StarBand"
FRN	Set to 0005087457
TRANSTECH	Set to 60
SPECTRUM	Set to 7 per translation shown below
MAXADDOWN	Set to 4, see below.
MAXADUP	Set to 2, see below.

TYPICDOWN	Not provided, set to null
TYPICUP	Not provided, set to null
STATEABBR	Set to "NJ"
SHAPE	County shape read from reference data.

Internal notes on processing:

1. Spectrum: No statement was provided. The NTIA data model has a single column for spectrum. Satellite corresponds to NTIA "SPECTRUM USED" code value 7.
2. Speeds: The maximum advertised speeds provided in the emailed brochure are as discussed above. For max adv speeds we encoded the submitted down speed as value 4 (range 1.5-3 Mbps) and encoded the submitted up speed as value 2 (range 200 Kbps -- 768 Kbps).

Section 6: Clarification Questions and Responses

1. What is DBA name if different than provider name?

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, March 18, 2011 10:51 AM
To: 'Lesley Cooper - McLean'
Cc: 'NJ Broadband Data Collection'
Subject: Starband NJBB CLarification

Lesley,

One quick clarification: we have your provider name as Starband Communications Inc. Do you have any other "doing-business-as" name that we should include in the submission to the NTIA?

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Lesley Cooper - McLean [mailto:Lesley.Cooper@Spacenet.com]
Sent: Tuesday, March 22, 2011 5:48 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: Starband NJBB CLarification

John,

No, we do not. StarBand is the provider of consumer broadband. StarBand is a part of another company, Spacenet Inc., but Spacenet is not a provider of consumer broadband services.

Please let me know if you have any further questions.

Lesley

From: Lesley Cooper - McLean [mailto:Lesley.Cooper@Spacenet.com]
Sent: Tuesday, July 12, 2011 11:54 AM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJ Broadband Data Collection

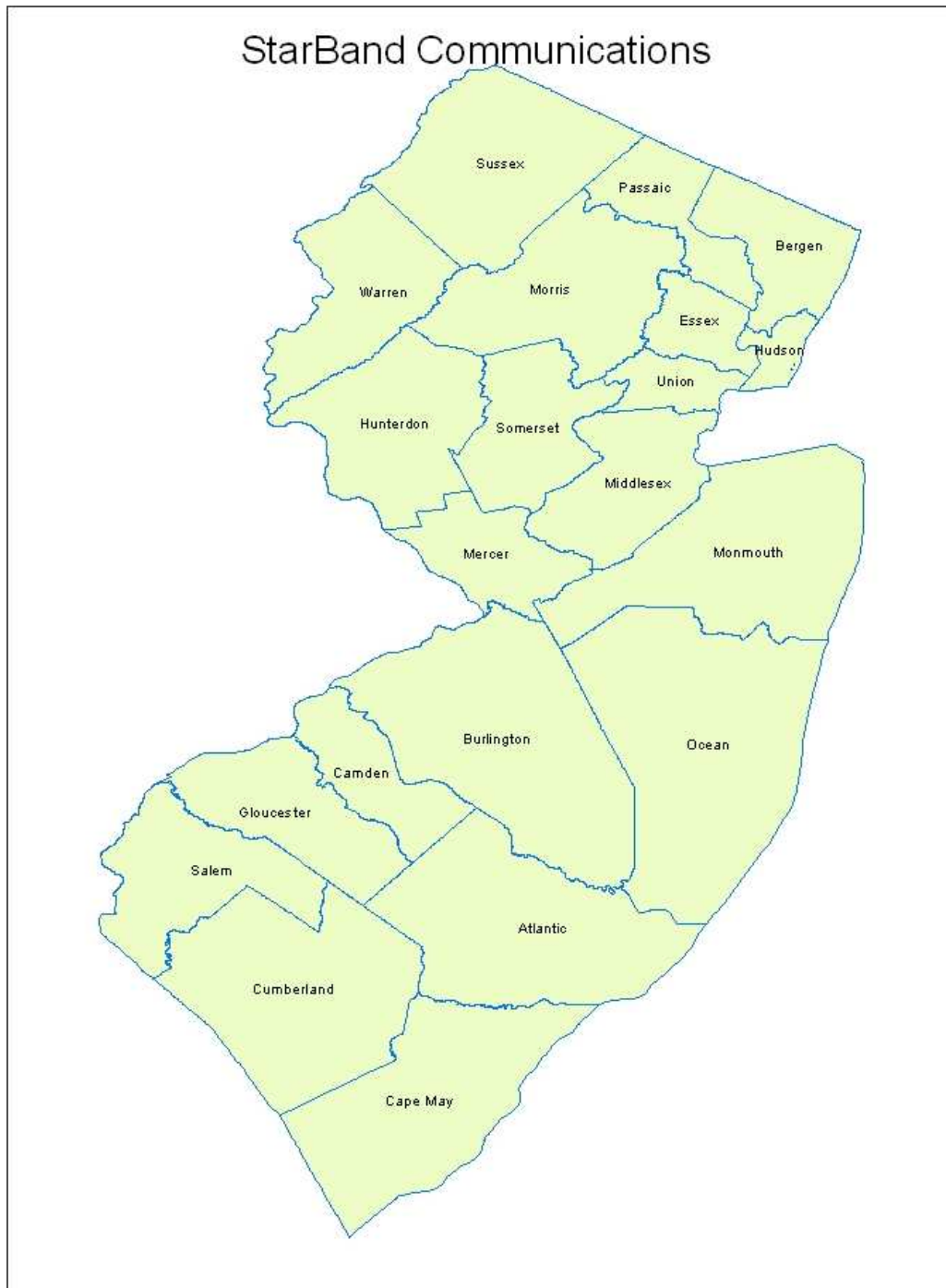
This is to advise you that StarBand Communications does not have any changes to report.

Regards,

Lesley Cooper
Senior Counsel
StarBand Communications

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Time Warner

Received: August 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NDA established with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA			
ID	PROVIDER NAME	Time Warner Cable, LLC	
	DBA NAME	Time Warner Cable	
	FRN	0013430244	
	Holding company name	Time Warner Cable Inc.	
	Holding company number	131352	
FOR WIRELINE			
File types	Time Warner supplied 2 pdf files and a shapefile showing coverage on FIPS census block level.		
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)	
	Upstream max adv	yes (code 5). census block.	
	Downstream max adv	yes (code 9). census block	
	Upstream typical	not provided.	
	Downstream typical	not provided	
	Subscriber-weighted	not provided	
Technology Type	40		
Comments:			
INTERCONNECTION DATA: INSTRUCTED TO USE PREVIOUS DATA			
ID			

File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: not provided.	

Section 3: Submission File Details

Received 1 archive file by EMAIL:

Size	Name
489338 Bytes	TWC_0013430244_NJ_063011.zip

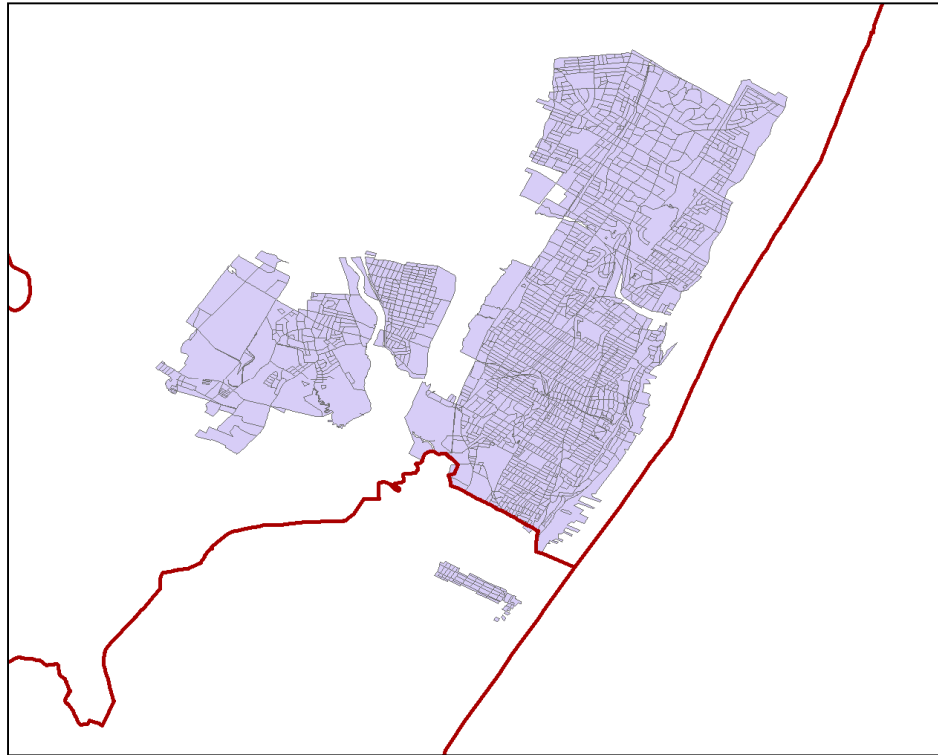
This archive contains a shapefile made up of the following 7 files:

Size	Name
149,696	NJ Broadband Cltr.pdf
5	TWC_0013430244_CensusBlock_NJ_063011.cpg
658,366	TWC_0013430244_CensusBlock_NJ_063011.dbf
167	TWC_0013430244_CensusBlock_NJ_063011.prj
538,984	TWC_0013430244_CensusBlock_NJ_063011.shp
15,860	TWC_0013430244_CensusBlock_NJ_063011.shx

Quick loading results: 1970 polygons in shapefile, spanning 2 counties in NJ.

Figure 1. Loaded results

Section



4:

Validations and Results

The PDF file does not contain any submission data.

The shapefile TWC_0013430244_CensusBlock_NJ_063011 contains 1970 rows (polygons). See above for a preview picture.

The shapes use XY coordinate system GCS_North_American_1983. Provides census-block shapes and associated speed data. All census block IDs are length 15. All submitted block IDs are unique and were found in Census Bureau Year 2010 reference data. Only technology code 40 is present. Maximum advertised speed codes are present.

NOT PRESENT - SEE PREVIOUS DATA REPORTS

- Middle-mile data – as per the cover letter, we will reuse data from the June 2010 submission.
- Typical upstream/downstream values not provided and will not be submitted.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from supplied file "0013430244_middlemile_NJ_06302009.txt" (19 rows, only 1 in New Jersey) received in **June 2010** (and apparently unchanged since) The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "Time Warner Cable LLC" ("LLC" was missing)
DBANAME	As supplied in column "DBAName"
FRN	Set to "0013430244"
OWNERSHIP	As supplied in column "Ownership"
BHCAPACITY	As supplied in column "Serving Facility Capacity"
BHTYPE	As supplied in column "Serving Facility Type"
LATITUDE	As supplied in column "Latitude"
LONGITUDE	As supplied in column "Longitude"
ELEVFEET	As supplied in column "Elevation"
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau reference data
SHAPE	Point corresponding to Lat, Long created using ESRI

Internal processing notes from prior report:

1. Created an excel sheet and imported to a geodatabase table.
2. Added points corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
3. We dropped all locations outside the New Jersey state boundary, leaving just one. In this row, the elevation value is 30, and we were told in June 2010 that the connection point is on the 7th floor of a building, so we did not change the value.
4. Added a column with the ID of the containing Year 2000 Census block via a spatial join of the points and the census block shapes from reference data.

NTIA Table BB_Service_CensusBlock

Loaded from the supplied shape file. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Time Warner Cable LLC" ("LLC" was missing)
DBANAME	As supplied in column "DBAName"
PROVIDER_TYPE	Set to 1
FRN	Set to "0013430244"
STATEFIPS	Set to "34"
COUNTYFIPS	Populated from cb_fips (digits 3-5)
TRACT	Populated from cb_fips (next 6 digits)

BLOCKID	Populated from cb_fips (next 4 digits)
FULLFIPSID	As supplied in column cb_fips
TRANSTECH	As supplied in column tech_trans
MAXADDOWN	As supplied in column max_ad_dwn
MAXADUP	As supplied in column max_ad_up
TYPICDOWN	Not provided, set to null
TYPICUP	Not provided, set to null
ENDUSERCAT	Not provided, set to null
SHAPE	As supplied

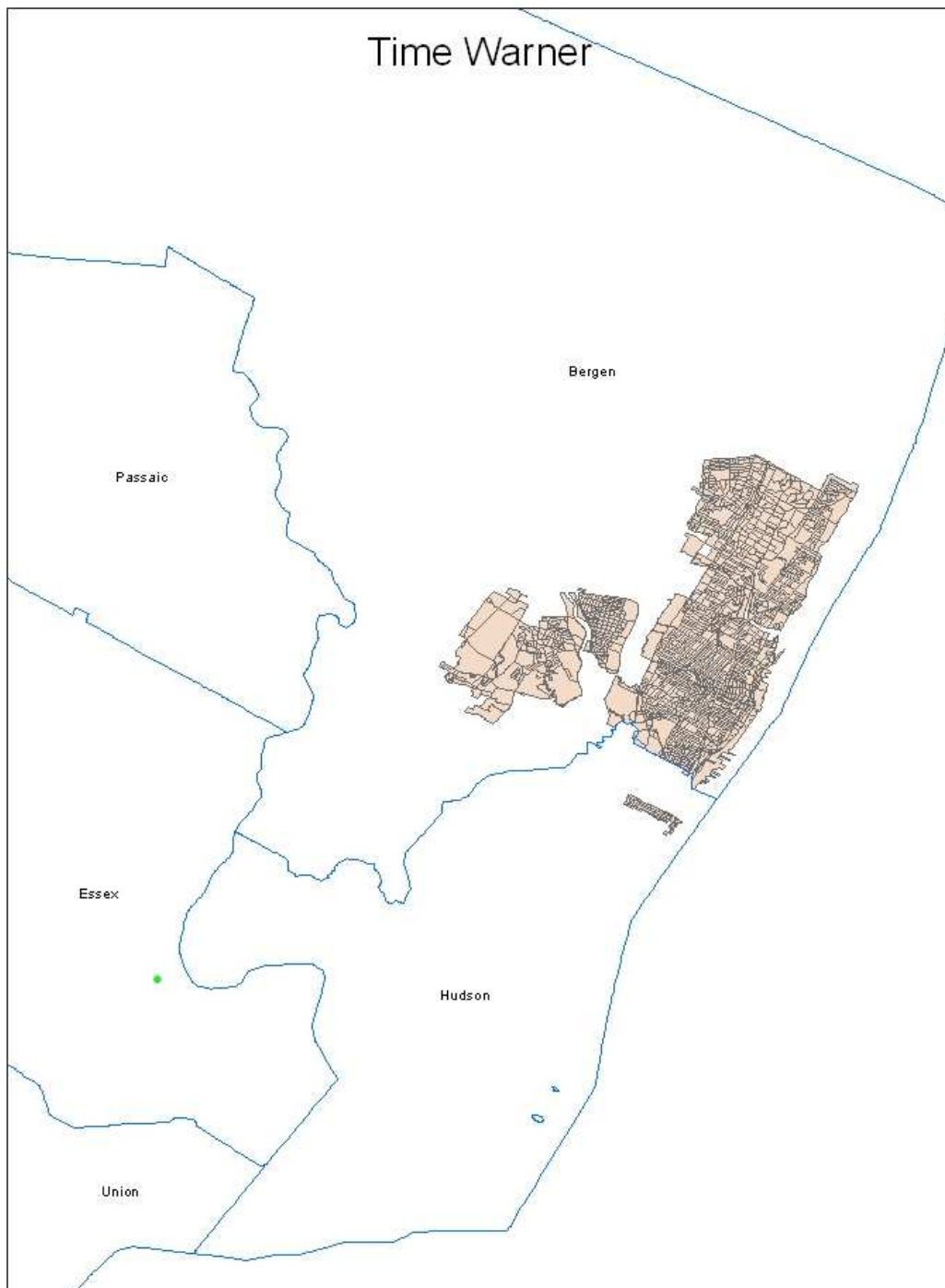
Internal notes on processing

1. Geographic coordinate system: The supplied shape uses geographic coordinate system name GCS_North_American_1983. The NTIA transmittal data model requires coordinate system GCS_WGS_1984. To change the projection we applied the geographic transformation NAD_1983_To_WGS_1984_5 (per ESRI KB article 24159). We also had to load the data into a second feature class such that the tolerance value matches the NTIA transmittal model's value of 0.000000002.

Section 6: Clarification Questions and Responses

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: T-Mobile

Received: 07 August 2011

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Executed with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA		
ID	PROVIDER NAME	T-Mobile USA, Inc.
	DBA NAME	T-Mobile
	FRN	0006945950
	Holding company name	T-Mobile USA
	Holding company number	130403
FOR WIRELESS		
Filetypes	T-mobile supplies .xls, .txt. and shapefiles (availability). They supply 3 sets of shape files: 2 for HSPA+ coverage and another for 3G coverage.	
Speeds	Type	Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode)
	Upstream max adv	yes (shapefiles for both 3G and 4G)
	Downstream max adv	yes (shapefiles for both 3G and 4G)
	Upstream typical	not found.
	Downstream typical	not found.
	Subscriber-weighted	Provided as a table of vals in mbps (not kbps) correlated to 21 FIPS codes (code 80)
Technology Type	Spectrum (Mhz, FCC code)	Advanced Wireless Services spectrum (1710-1755 MHz; 2100-2155)
Comments:		
INTERCONNECTION DATA		

ID	
File size	5 rows
Ownership	Code 1
Transport Type	Type 1
Data Rates/Capacity	codes 4 and 6
Location	lat/lons given for all (either A or Z end is in NJ)
Comments: seems there were 10 rows at the last iteration? 5 rows this time.	

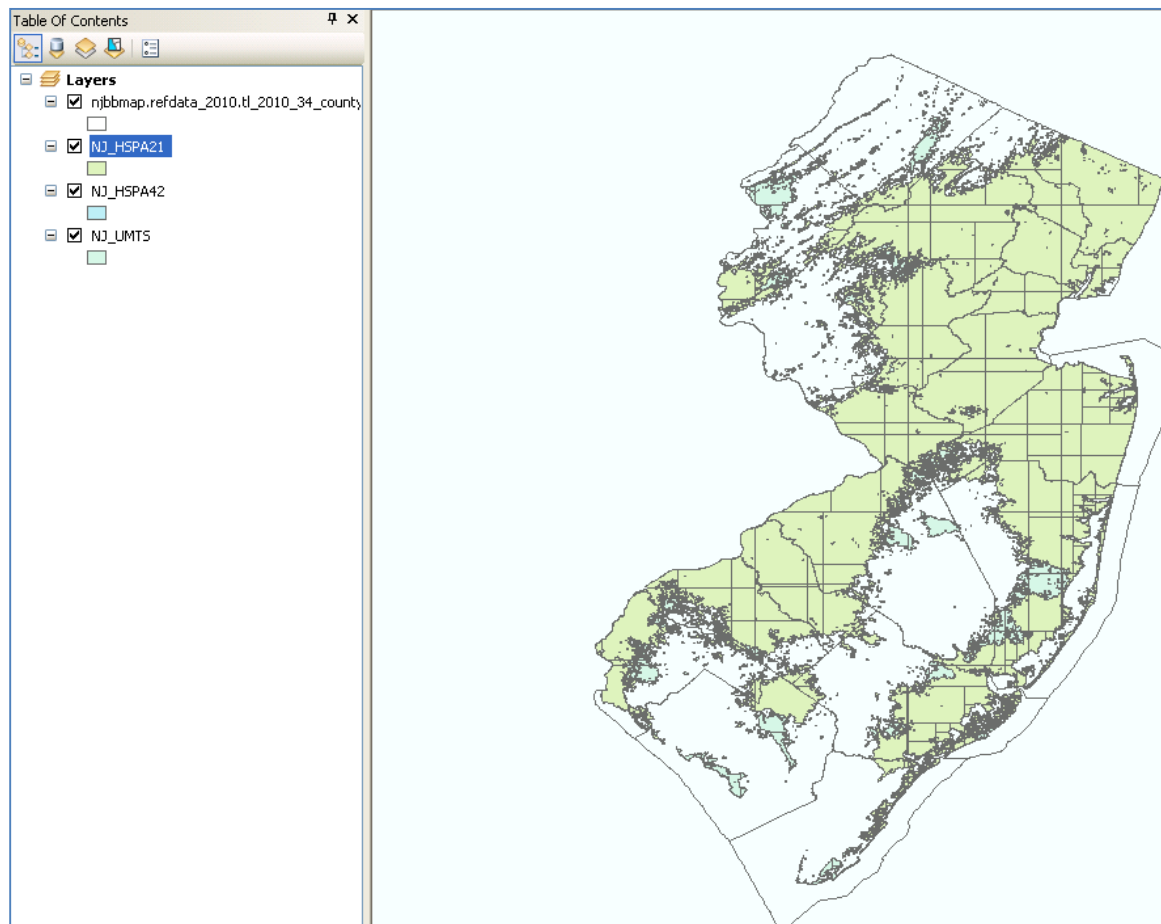


Figure 1. Preview of submitted data in ESRI

Section 3: Submission File Details

The original submission of July 2011 included these 16 data files:

Size	Name
7078KB	Area_availability.zip (contains below shape files)
3KB	Area_availability.txt
10KB	Middle_mile_NJ.xls
10KB	avg_speed_nj.xls
131KB	NJ_HSPA21.dbf
1KB	NJ_HSPA21.prj
12,863KB	NJ_HSPA21.shp
31KB	NJ_HSPA21.shx
36KB	NJ_HSPA42.dbf
1KB	NJ_HSPA42.prj
2675KB	NJ_HSPA42.shp
9KB	NJ_HSPA42.shx
126KB	NJ_UMTS.dbf
1KB	NJ_UMTS.prj
6710KB	NJ_UMTS.shp
16KB	NJ_UMTS.shx

The additional submission of September 2011 provided the following corrected files:

1KB	NJ_HSPA21.dbf
1KB	NJ_HSPA21.prj
2,505KB	NJ_HSPA21.shp
1KB	NJ_HSPA21.shx

Section 4: Validations and Results

We validated the following data items in the original submission.

Geospatial Data

- Received three shape files in July 2011; see above for preview of shapefiles in ESRI.
 - o NJ_HSPA21
 - 1958 duplicates found out of 3916 candidates
 - o NJ_HSPA42
 - 0 duplicates found out of 1068 candidates
 - o NJ_UMTS
 - 0 duplicates found out of 1977 candidates
- All shapes are contained within the state of New Jersey
- The data rows carry no technology, speed, or other broadband data.
- Received one shape file in September 2011
 - o NJ_HSPA21

- Has exactly 1 polygon

Middle Mile Data

- File middle_mile_nj.xls lists 5 connections with 2 unique endpoints in New Jersey. Ownership, facility capacity, facility type codes are all valid

Speed/Technology Data

- File area_availability.txt provides technology and spectrum codes that are within the valid set. It also provides maximum-advertised speeds for each wireless technology.
- File avg_speed_nj.xls provides subscriber-weighted nominal speeds, which we will not be using for this round (no overview table required).

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from supplied file "middle_mile_NJ.xlsx" (5 rows, 3 unique points). The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "T-Mobile USA, Inc."
DBANAME	Set to "T-Mobile"
FRN	Set to "0006945950"
OWNERSHIP	As provided in column Ownership (value 1)
BHCAPACITY	As provided in column Serving Facility Capacity
BHTYPE	As provided in column Serving Facility Type
LATITUDE	Created by geocoding the supplied address
LONGITUDE	Created by geocoding the supplied address
ELEVFEET	Set to "0" (zero)
STATEABBR	As provided in column State
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau reference data
SHAPE	Point created using ESRI tools

Internal notes on processing:

1. Created an excel sheet with the original data and imported to a geodatabase table.
2. Added points corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
3. Added a column containing the ID of the containing year 2010 census block via a spatial join of the points and the Year 2010 census block shapes from Tiger Line reference data.

NTIA Table BB_Service_Wireless

Loaded from the supplied shapefiles NJ_HSPA21 (as revised; 1 row), NJ_HSPA42 (1 row), and NJ_UMTS (1 row). The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "T-Mobile USA, Inc." per area_availability_NJ.txt
DBANAME	Set to "T-Mobile" per area_availability_NJ.txt
FRN	Set to "0006945950"
TRANSTECH	Set to 80 per area_availability_NJ.txt
SPECTRUM	Set to "4" per translation shown below
MAXADDOWN	Set as follows: HSPA 21 is 6; HSPA 42 is 7; UMTS is 4; as specified in file area_availability_NJ.txt
MAXADUP	Set as follows: HSPA 21 is 4; HSPA 42 is 4; UMTS is 2; as specified in file area_availability_NJ.txt
TYPICDOWN	Set to null (not supplied)
TYPICUP	Set to null (not supplied)
STATEABBR	As supplied in column "state" with "NJ"
SHAPE	As supplied.

Internal notes on processing:

1. Spectrum: NOFA defines 7 spectrum columns. T-Mobile provided a "Y" value in column 4 (Advanced Wireless Services, ranges 1710-1755 MHz; 2100-2155) in file area-availability_NJ.txt, so we coded the value as '4'.
2. The supplied shapes use geographic coordinate system GCS_North_American_1983. The NTIA data model requires coordinate system GCS_WGS_1984. To change the projection we applied the ESRI geographic transformation NAD_1983_To_WGS_1984_5 (per ESRI KB article 24159). The resulting table is named with suffix "_wgs".
3. The supplied shapes use tolerance values different from the NTIA transmittal model. The transformed feature classes with suitable tolerances are named with suffix "_wgs_tol".
4. The NJ_HSPA42 and NJ_UMTS shapefiles contained some identical rows as determined by spectrum, technology, and shape; the rows only differed in the maximum advertised speed. To prevent the problem of duplicate shapes in the merged data, we took the following actions:
 - a. Merged shapes in NJ_HSPA42_wgs_tol into a single shape, using ArcGIS Dissolve tool. The transformed table is named with suffix "_wgs_tol_dissolve".
 - b. Merged the shapes in NJ_UMTS_wgs_tol into a single shape, using ArcGIS Dissolve tool. The transformed table is named with suffix "_wgs_tol_dissolve".

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, September 16, 2011 2:08 PM
To: 'jeni.wilcox@t-mobile.com'
Cc: ConnectingNJ@research.telcordia.com
Subject: NJBB Clarification

Jeni,

We have reviewed the data that you submitted to the New Jersey Broadband program and have uncovered a few questions/issues that we'd like your help in addressing.

First, you submitted three shape files, describing HSPA21, HSPA42 and UMTS services. With this, you only provided a single frequency assignment. Do all these service areas make use of the same frequency?

Second, in looking at the HSPA21 shape file, we have found a large number of duplicate shapes (1958 of the total 3916 are duplicates). We were concerned that this might indicate some issue with your process in generating the HSPA21 shape file. (We found no duplicates in the other shape files.) We have been instructed by NTIA not to submit duplicates, so are asking you to examine the data and make the appropriate corrections within the next week. If you cannot meet that deadline, we will drop the duplicates and submit the rest of the shape file.

Thanks for your prompt attention,

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Hi John,

Thanks for the email. Please see my responses below in red and let me know if you have additional questions.

Thank you,

Jeni Wilcox
Regulatory Specialist
•T-Mobile• stick together

| Desk: 425.383.6377 | Fax: 425.383.3640 |

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, September 16, 2011 11:08 AM
To: Wilcox, Jeni
Cc: ConnectingNJ@research.telcordia.com
Subject: NJBB Clarification

Jeni,

We have reviewed the data that you submitted to the New Jersey Broadband program and have uncovered a few questions/issues that we'd like your help in addressing.

First, you submitted three shape files, describing HSPA21, HSPA42 and UMTS services. With this, you only provided a single frequency assignment. Do all these service areas make use of the same

frequency? **[JW] Yes, same frequency.**

Second, in looking at the HSPA21 shape file, we have found a large number of duplicate shapes (1958 of the total 3916 are duplicates). We were concerned that this might indicate some issue with your process in generating the HSPA21 shape file. (We found no duplicates in the other shape files.) We have been instructed by NTIA not to submit duplicates, so are asking you to examine the data and make the appropriate corrections within the next week. If you cannot meet that deadline, we will drop the duplicates and submit the rest of the shape file. **[JW] Attached is the HSPA+21 file without the duplicates.**

Thanks for your prompt attention,

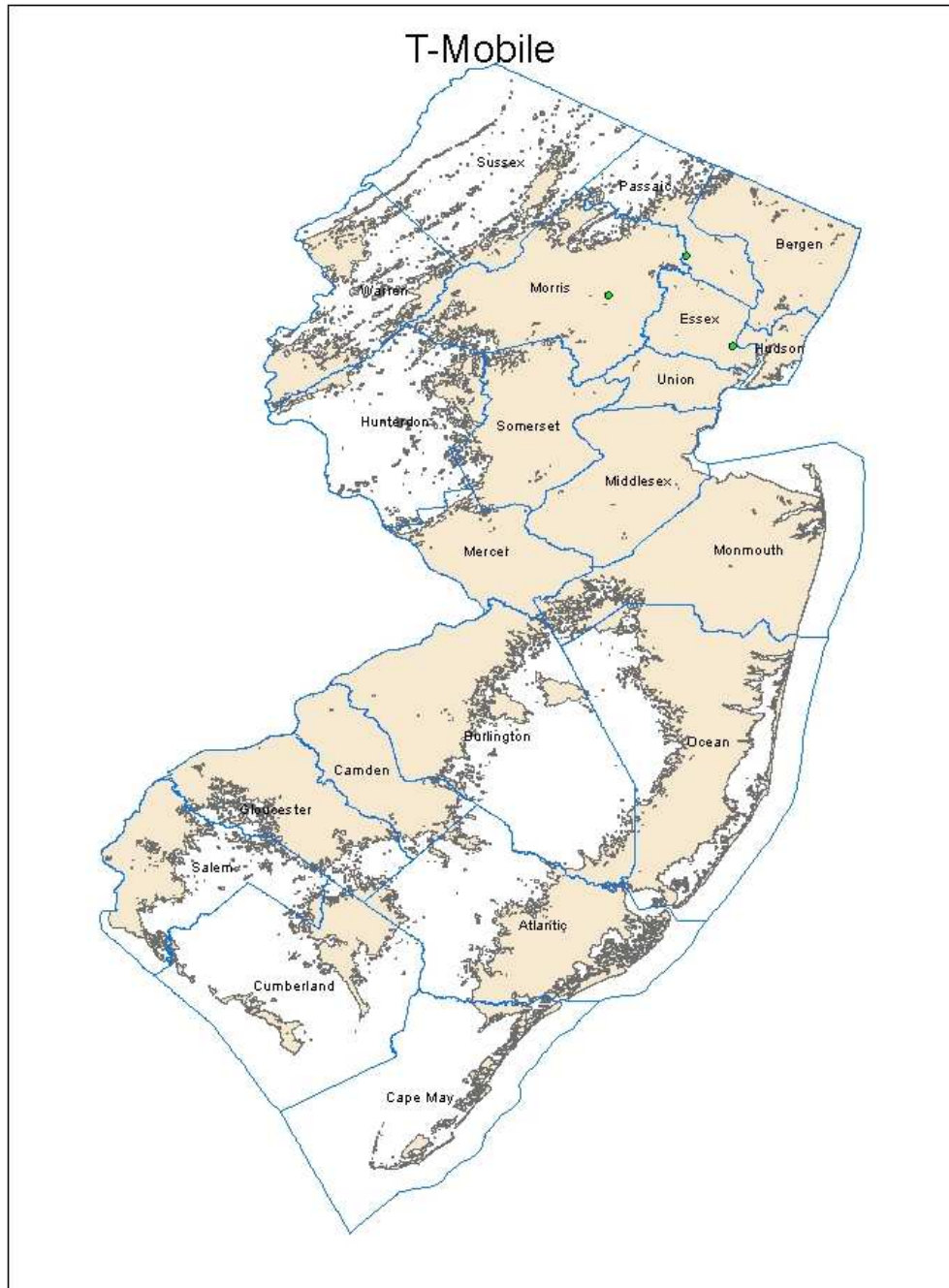
John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Section 7: Notes and Open Issues

This provider has given us three sets of shapes, one for "HSPA21", one for "HSPA42" and one for "UMTS". All are submitted to us as technology code 80 and all in spectrum code 4. But they have different speeds. The validations complain about duplicate rows, which I assume is based on the shape column and the technology code. Here it seems the technology and spectrum codes do not adequately capture what we have received from the provider.

We addressed the problem by using the ArcGIS "Dissolve" tool to merge all the polygons in each submitted feature class into a single polygon. The submission has exactly three rows, one shape for each speed tier, and presumably will not be flagged as duplicates. Note however that these shapes will have some geo-spatial overlap.

Section 8: Overview Map of Submitted Data



Provider: tw telecom of new jersey l.p.

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Received 35 input records, discarded 11 due to duplicate census blocks, loaded 24 records.

Notes

To create the "providerInput" table for this submission from the previous version, we removed the 2000 census block ID column and performed a spatial join against the 2010 census block reference data table to add a new column "geoid10" with the Year 2010 census block ID.

Provider Interactions

August 8, 2011: Tammy Chatfield instructed us to use previous data.

Received: March, 2011
 Submission date: March 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NONE

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		tw telecom of new jersey l.p.	
	“Doing business as” name		Not provided	
	FRN		0004351417	
	Holding company name		tw telecom inc.	
	Holding company number		160153	
FOR WIRELINE				
Filetypes	Text			
File size	3419 bytes, 35 records			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Address; values 2..11	
	Advertised-downstream		Address; values 2..11	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	30 (Other copper) and 50 (fiber)			
End-user specification	4 (medium – large enterprise)			
Comments:				
INTERCONNECTION DATA				
ID				

File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: None provided	

Section 3: Submission File Details

Received 1 file by secure upload:

Size	Name
3419	NJBB_0004351417_AddressLevelAvailability.txt

The file has 35 records. All are addresses; no apartment/suite/unit numbers are provided. Some addresses are repeated, sometimes with different speed numbers, suggesting that these entries are customer service addresses. Several are the addresses of multi-tenant buildings.

Section 4: Validations and Results

All addresses could be geocoded. All coded values in the tech trans and speed columns are valid.

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we discover the census block for each customer address, then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

Loaded from supplied file "NJBB_0004351417_AddressLevelAvailability.txt". The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "Provider Name"
DBANAME	Not supplied; set same as PROVNAME
PROVIDER_TYPE	Set to 1
FRN	As supplied in column "FRN", with leading zeroes

STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column Technology of Transmission
MAXADDOWN	For technology 30: Set to 7, the max val in MaxAdDown For technology 50: Set to 11, the max val in MaxAdDown
MAXADUP	For technology 30: Set to 7, the max val in MaxAdDown For technology 50: Set to 11, the max val in MaxAdDown
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	Copied from Census Bureau TigerLine 2000, as matched by spatial join on geocoded address

Internal processing notes:

1. Geocoded the addresses using the Google geocoder to obtain a Latitude, Longitude pair for each..
2. Created an excel sheet and imported it to a geodatabase table.
3. Added point shapes corresponding to each Latitude, Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. Added a column containing the ID of the containing year 2000 census block via a spatial join of the point shapes and the census block shapes from reference data.
5. Discarded 11 rows with duplicate census blocks, which means multiple customers are present in the same census block.

The mechanized procedure for the three steps is described in file GeoExcel_proc.txt.

Section 6: Clarification Questions and Responses

1. Based on the prior interactions with the provider, the following was assumed:

DBNAME	- not supplied; set same as PROVNAME
address level data	- need to obfuscate
middle mile	- none
typical speeds	- not provided

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]

Sent: Tuesday, March 08, 2011 8:27 AM

To: 'tammy.chatfield@twtelecom.com'

Cc: ConnectingNJ@research.telcordia.com

Subject: TW Telecom Clarification Questions

Tammy,

We have reviewed the data you submitted to the NJ Broadband data Mapping program and have two clarification questions:

1. During your last submission, you indicated that you did not have any middle mile connection points in NJ. Is that still the case?
2. You provided us with maximum advertised speeds. Would it be possible for you to provide typical speeds experienced by your customers?

Thanks for your participation in the program.

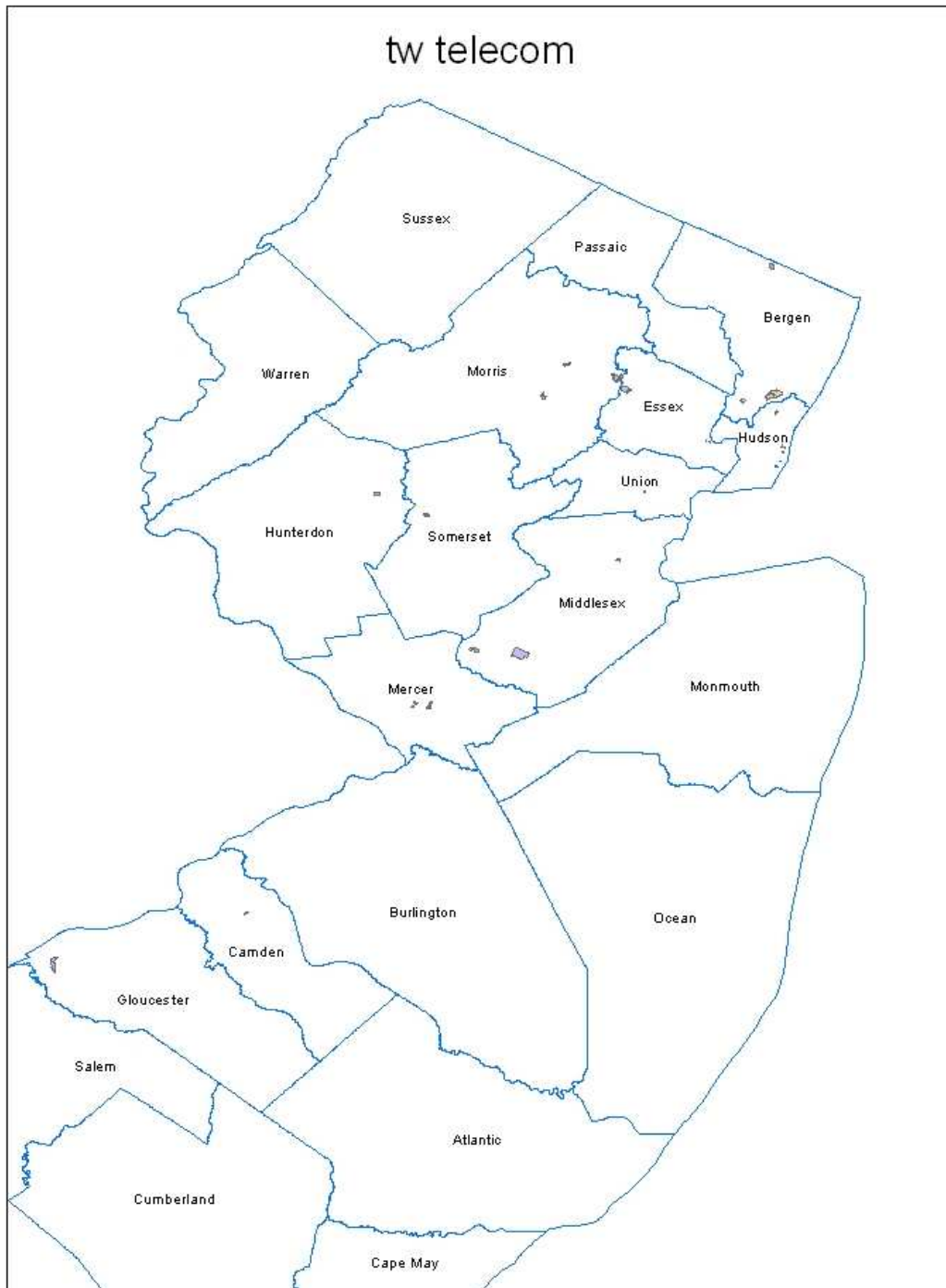
John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Chatfield, Tammy [mailto:Tammy.Chatfield@twtelecom.com]
Sent: Tuesday, March 08, 2011 8:45 AM
To: ConnectingNJ@research.telcordia.com
Subject: RE: TW Telecom Clarification Questions

1. Correct, we do not have any middle mile facilities in NJ.
2. Unfortunately, we do not have any information on typical speeds.

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Verizon

Received: August 2011

Submission date: October 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Verizon executed an NDA with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name			Verizon Online LLC
	“Doing business as” name			Verizon
	FRN			0012254363
	Holding company name			Verizon Communications Inc.
	Holding company number			131425
FOR WIRELINE				
Filetypes	Text and excel			
File size	See below			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		County (code 7)	
	Advertised-downstream		County (code 9)	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		County	
Technology Type	DSL (10) and FTTP (50)			
End-user specification	Not provided			
Comments:				

INTERCONNECTION DATA	
ID	
File size	Excel file, 11 POP rows provided, see below
Ownership	Not provided
Transport Type	Not provided
Data Rates/Capacity	Not provided
Location	Address
Comments:	

Section 3: Submission File Details

Received these files initially via CD-ROM, with updated files submitted via email

VZ-NJ-BB(Revised).zip

Size	Name
7062862	NJ - Wireline Service By Census Block - Jun 2011 with Speeds v2.txt
143167	NJ - Wireline Service By Street Segment - Jun 2011 with Speeds v2.txt

Verizon.zip

Size	Name
603	NJ - Advertised Speed by County (Jun 2011).txt
2805	NJ - Pricing (Jun 2011).txt
29184	NJ - POP List (Jun 2011).xls

Section 4: Validations and Results

We validated the following data items in the original submission.

File “NJ - Advertised Speed by County (Jun 2011).txt” (21 data rows)

Lists these columns (* indicates no data): Provider Name*, DBA Name*, FRN*, ID, County FIPS Code, County Name, Maximum Advertised Downstream Speed, Maximum Advertised Upstream Speed.

County codes are valid. Speed codes are valid; every county is listed at 9 (down) and 7 (up). This must be for technology 50 (FTTP); it's not reasonable for technology codes 10 and 20 (ADSL, SDSL).

File “NJ - Wireline Service By Census Block with Speeds (Jun 2011).txt” (159,878 data rows)

Updated File: NJ - Wireline Service By Census Block - Jun 2011 with Speeds v2.txt (159,876 rows) (Update removes records that were associated with large census blocks)

Lists these columns (* indicates no data): ProviderName*, DBAName*, FRN*, ID, Census Block FIPS Code, Census Block Square Miles, Technology of Transmission.

Two technology codes are present, 10 and 50, both are valid. All FIPS codes reflect Year 2010 Census Bureau geometry. According to census block reference data, three census blocks larger than 2 square miles are in the list:

- 340258119001027
- 340297310011001
- 340297381007002

For the latter two, Verizon data indicates an area of zero. For the first, Verizon has an area of 1.959261973 and we have an area of 2.01155747. Sent note to Verizon to clarify on 8/30/2011.

File “NJ - Wireline Service By Street Segment with Speeds (Jun 2011).txt” (1,841 data rows)

Updated File: NJ - Wireline Service By Street Segment - Jun 2011 with Speeds v2.txt (1864 rows) (Update adds streets for blocks that previously were submitted as census blocks)

Lists these columns (* indicates no data): Provider Name*, DBA Name*, FRN*, ID, Census Block FIPS Code, Census Block Square Miles, TLID, Street Name, FRADDL, TOADDL, FRADDR, TOADDR, Technology of Transmission.

TigerLine IDs were matched against Year 2010 Census Bureau TigerLine reference data, all are valid IDs. All TigerLine IDs correspond to roads. All the census blocks included are valid NJ 2010 census blocks.

The input set contains 22 records that are duplicates when checked by county (characters 3-5 of Census Block FIPS Code), TLID and TechTrans. The census blocks are different for the records. The Tiger lines must touch multiple census blocks. We will discard these records to avoid creating duplicate shapes in the submission.

There were 478 TLIDs that do not belong to our table of street segments in large census blocks (tl_2010_34_large_streets_10_wgs). The primary reason is that the table does not contain the full list of streets in large blocks due to poor alignment between the 2010 TIGER lines and Census blocks. To address this, we created a table of valid tigerline IDs by joining tiger shapes with census blocks using a 2 meter buffer. After we did this, there were only 11 TLIDs that do not belong to the resulting table, tl_2010_34_large_streets_10_2m_wgs. These TLIDs were removed from the data.. See section 7 for details.

File “NJ - Pricing (Jun 2011).txt” (53 data rows)

This file provides subscriber-weighted nominal speeds. The columns are not labeled but appear to be as follows: Provider_Name, FRN, County ID (based on odd numbers 1..41), State, Technology of Transmission, Subscriber Weighted Nominal Speed.

The county IDs are valid, the state ID (“34”) is valid, and the technology of transmission codes 10, 20, and 50 are all valid. The Subscriber Weighted Nominal Speed values are plausible for the specified technology of transmission codes; e.g., DSL speeds are about 4,000. However, every FIOS speed is shown at 25,000 or higher. Given the availability of FIOS/FTTP plans at download speeds of less than 25Mbps, it seems extraordinarily unlikely that not a single customer uses one of those plans and/or that so many customers use a 50Mbps plan that the average is brought up so high.

Per NTIA directions we are not submitting the "BB_Service_Overview" table in this submission so will not use this data.

File “NJ - POP List (Jun 2011).xls” (11 rows)

Column names: Address, City, State, Zip.

The data is the same as the last submission.

We geocoded the addresses to obtain latitude, longitude value pairs. All addresses were found. However, Verizon did not supply needed information on the elevation, ownership, serving facility capacity, and service facility type of these addresses. In June 2010 Verizon indicated they had no intention of supplying this information.

File “NJ - Pricing (Jun 2011).txt” (53 rows)

Per NTIA instructions, we will not be submitting pricing data.

Section 5: Data Transformation and Loading

NTIA Table BB_ConnectionPoint_MiddleMile

Loaded from supplied Excel Spreadsheet “NJ - POP List (Jun 2011).xls”. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to “Verizon Online LLC”
DBANAME	Set to “Verizon”

FRN	Set to "0012254363"
OWNERSHIP	Set to null
BHCAPACITY	Set to null
BHTYPE	Set to null
LATITUDE	Created by geocoding the supplied address
LONGITUDE	Created by geocoding the supplied address
ELEVFEET	Set to "0" (zero)
STATEABBR	Set to "NJ"
FULLFIPSID	ID of containing census block from Year 2010 Census Bureau TigerLine reference data
SHAPE	Created using ESRI ArcDesktop

Internal notes on processing:

1. To date Verizon has declined to provide information about ownership, backhaul capacity, or backhaul type, so we submit null values.
2. Created an excel sheet and imported to a geodatabase table.
3. Added points corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. Added a column containing the ID of the containing year 2010 census block via a spatial join of the points and the census block shapes from reference data.
5. Note that October 2011 was identical to that submitted in October 2009, so we used previously loaded data (steps 2-4).

NTIA Table BB_Service_CensusBlock

Loaded from supplied text file "NJ - Wireline Service By Census Block - Jun 2011 with Speeds v2.txt". The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Verizon Online LLC"
DBANAME	Set to "Verizon"
PROVIDER_TYPE	Set to 1
FRN	Set to "0012254363"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from 2010_Census_Block_FIPS_Code (1 st 3 digits)
TRACT	Populated from 2010_Census_Block_FIPS_Code (next 6 digits)
BLOCKID	Populated from 2010_Census_Block_FIPS_Code (next 4 digits)
BLOCKSUBGROUP	Set to null
FULLFIPSID	First 15 digits of 2010_Census_Block_FIPS_Code See discussion of Census blocks below.
TRANSTECH	As supplied in column Technology_of_Transmission
MAXADDOWN	Set to 6 or 9, see below.

MAXADUP	Set to 3 or 7; see below
TYPICDOWN	Set to null
TYPICUP	Set to null
SHAPE	Copied from Year 2000 Census Bureau reference data, As matched by Census block 2000 ID

Internal processing notes:

1. Verizon submitted initially 3 census blocks that were significantly larger than 2 square miles in this table. Verizon corrected the 3 very large census blocks with re-submitted data.
2. Verizon submitted two other census blocks that our calculations put just above 2 square miles:
 - a. 340190118002005 (2.00887743 mi²)
 - b. 340270461061026 (2.00118133 mi²)

We believe this is a result of variations in the projections used to calculate the areas. In processing, we gathered the entire set of street segments associated with these census blocks and included them in the street segment table.
3. Speeds: We imputed max advertised up and down speeds based on the technology of transmission, the contents of the File “NJ - Advertised Speed by County.txt”, and information on the Verizon web site. Max adv down for tech code 10 (DSL) is speed code 6, and max adv down for tech code 50 (FIOS) is speed code 9. Max adv up for tech code 10 (DSL) is speed code 3, and max adv up for tech code 50 (FIOS) is speed code 7.

NTIA Table BB_Service_RoadSegment

Loaded from supplied text file “NJ - Wireline Service By Street Segment - Jun 2011 with Speeds v2.txt” and from road segments discovered in large census blocks our calculations put at slightly larger than two square miles (See item 2 above). The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to “Verizon Online LLC”
DBANAME	Set to “Verizon”
PROVIDER_TYPE	Set to 1
FRN	Set to “0012254363”
ADDMIN	Set to the least of the address numbers, if any
ADDMAX	Set to the greatest of the address numbers, if any
PREDIR	Set to null (no value supplied)
STREETNAME	As supplied (has all street components, not just name)
STREETTYPE	Set to null (no value supplied)
SUFFDIR	Set to null (no value supplied)
CITY	Set to null (no value supplied)
STATECODE	Set to “NJ”
ZIP5	Set to null (no value supplied)

ZIP4	Set to null (no value supplied)
TRANSTECH	As supplied
MAXADDOWN	Set to 6 or 9, see below.
MAXADUP	Set to 3 or 7; see below
TYPICDOWN	Set to null (no value supplied)
TYPICUP	Set to null (no value supplied)
TLID	As supplied
SHAPE	Copied from Census Bureau TigerLine 2000, As matched by County + Tiger Line ID

Internal notes on processing:

1. All rows were supplemented with a line-segment shape from the Census Bureau's TigerLine data set.
2. We removed 100 records from the Verizon submitted data that were duplicates, based on county and tlid.
3. We removed 11 records from the Verizon submitted data that had entries in the tlid field that did not match our list of street segments in large census blocks.
4. Speeds: : We imputed max advertised up and down speeds based on the technology of transmission, the contents of the File "NJ - Advertised Speed by County.txt", and information on the Verizon web site. Max adv up for tech code 10 (DSL) is speed code 3, and max adv up for tech code 50 (FIOS) is speed code 7. Mad adv down for tech code 10 (DSL) is speed code 7, and max adv down for tech code 50 (FIOS) is speed code 9.

Section 6: Clarification Questions and Responses

We confirmed that 2010 census blocks were used.

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, August 26, 2011 2:25 PM
To: 'douglas.w.schoenberger@verizon.com'
Cc: 'Clemons, Keefe B'
Subject: NJBB Data Clarification

Douglas,

We have reviewed the data that Verizon submitted to the New Jersey Broadband mapping program and have one clarification question: Did you use the 2010 census block geometry as the basis for your submission?

Thanks for your participation,

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Wullert, John R II [mailto:jwullert@telcordia.com]
Sent: Monday, August 29, 2011 5:53 PM
To: Schoenberger, Douglas W.
Cc: Clemons, Keefe B; connectingnj@research.telcordia.com
Subject: Re: NJBB Clarification

Douglas,

An additional clarification issue: We proceeded assuming these were 2010 census blocks. We came across three census blocks that you have as being smaller than 2 square miles that we have as over two square miles. For two of these, you have a area of zero, which is clearly incorrect. For the third one, 340258119001027, you have an area of 1.959261973 and we have an area of 2.01155747. Could you please check your data on these census blocks?

Thanks,

John

-----Original Message-----

From: Schoenberger, Douglas W. [mailto:douglas.w.schoenberger@verizon.com]
Sent: Tuesday, August 30, 2011 9:54 AM
To: Wullert, John R II
Cc: Clemons, Keefe B; connectingnj@research.telcordia.com
Subject: RE: NJBB Clarification

John,

In response to your questions:

- 1) We did use the 2010 census block geometry to prepare the Verizon NJ broadband data.
- 2) Could you identify the two specific 2010 census blocks that we have as zero area that you have as over two square miles?

Thanks,
Doug

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Tuesday, August 30, 2011 3:20 PM
To: 'Schoenberger, Douglas W.'
Cc: Clemons, Keefe B; connectingnj@research.telcordia.com
Subject: FW: NJBB Clarification

Doug,

The census blocks that your data indicates zero area are 340297310011001 and 340297381007002. We have areas of 2.47 and 2.54 square miles, respectively.

John

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Tuesday, August 30, 2011 4:47 PM
To: 'NJ Broadband Data Collection'; 'Schoenberger, Douglas W.'
Cc: 'Clemons, Keefe B'
Subject: RE: NJBB Clarification

Doug,

A couple more census blocks that we have as larger than 2 square miles.
(These are so close that the difference may be attributable to rounding error):
a. 340190118002005 (2.00887743 mi2)
b. 340270461061026 (2.00118133 mi2)

John

From: Schoenberger, Douglas W. [mailto:douglas.w.schoenberger@verizon.com]
Sent: Friday, September 23, 2011 3:28 PM
To: Wullert, John R II
Cc: Clemons, Keefe B; connectingnj@research.telcordia.com
Subject: Revised NJ Broadband Dataset
Importance: High

[Confidential](#)

Hi John,

Attached is a revised broadband data for NJ that should replace the data set we provided earlier. This data set corrects for the 0 square mile issue that you identified. This data is confidential and being made available pursuant to the terms of the non-disclosure agreement.

Please let me know if you have any questions.

Thanks,

Doug Schoenberger
973-649-0552

Section 7: Notes and Open Issues

This section provides detail on the line segments that we believe are mistakenly associated with large census blocks.

There are 11 line segments that do not belong to large census blocks.
Here are three examples, for the following tlids:

624803467
203769459
203790565

Row 1:

Census	Block	Square Miles	TLID	Street Name
340090219002007	2.059921127	624803467	Pond Creek Ia	



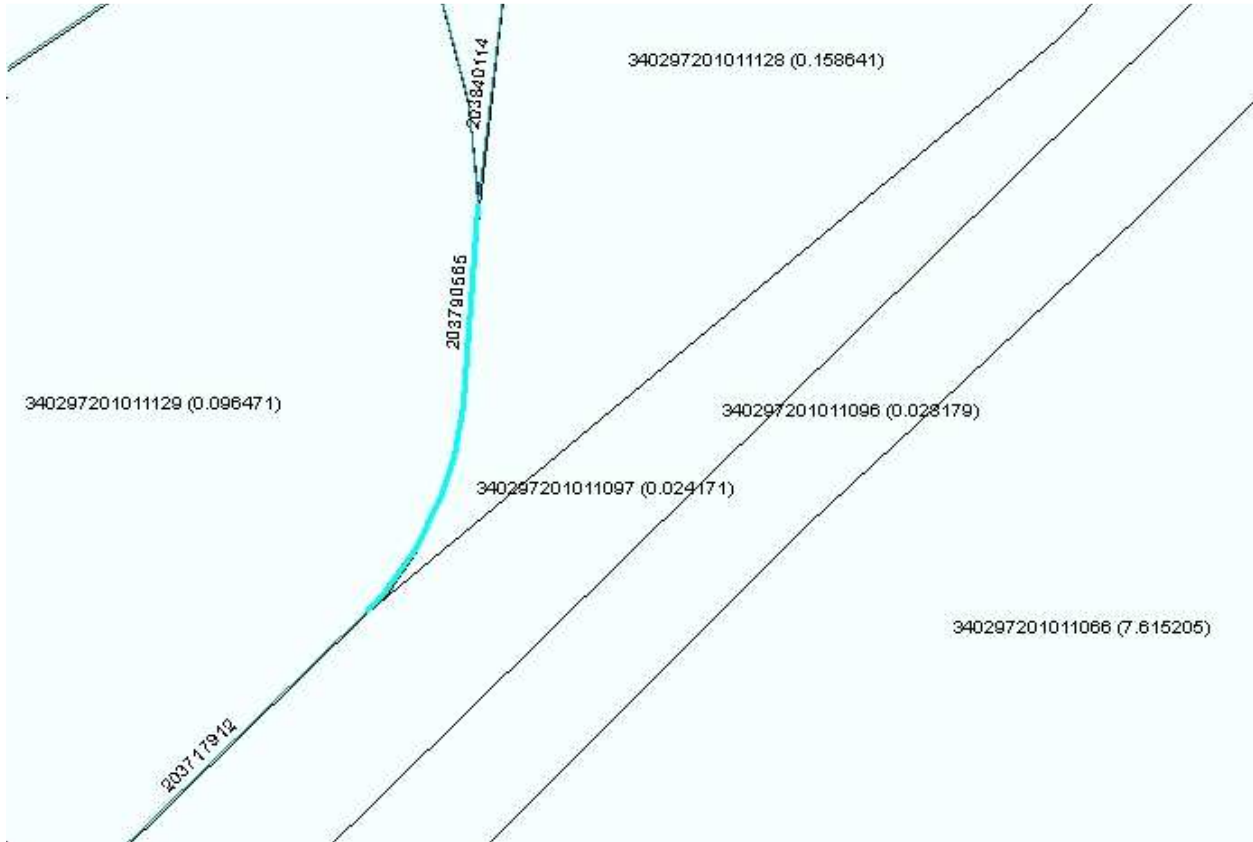
Row 2:

Census	Block	Square Miles	TLID	Street Name
340297360021058	5.580632034	203769459	Main St	601

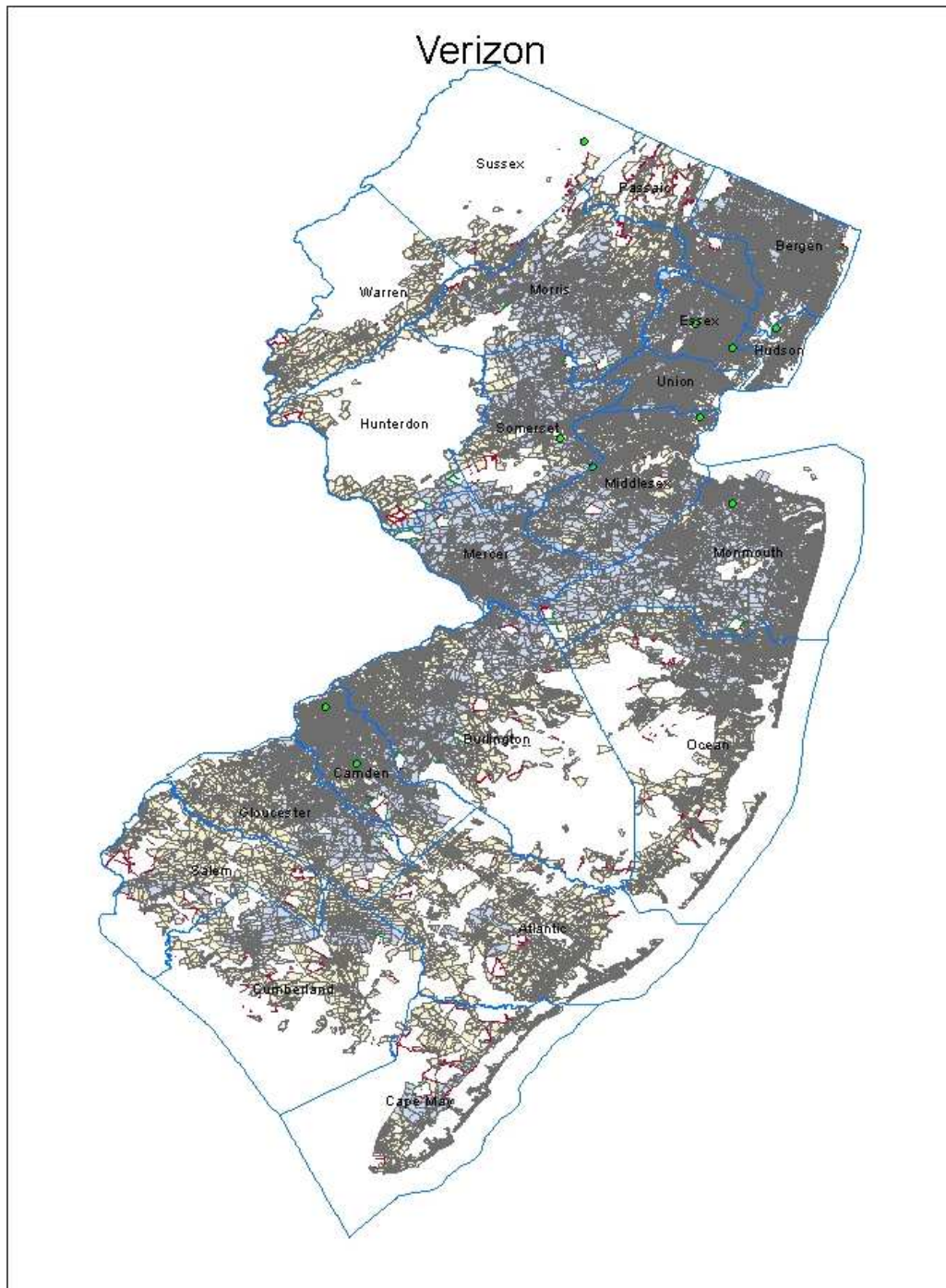


Row 3:

Census	Block	Square Miles	TLID	Street Name
340297201011066	7.354582338		203790565	Manchester Blvd



Section 8: Overview Map of Submitted Data



Provider: Netlogic DBA Voxitas

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Total rows loaded: 2

Notes

To create the "providerInput" table for this submission, we removed the 2000 census block column from the old providerInput table and performed a spatial join against the 2010 census block reference data table.

Provider Interactions

None.

Connecting New Jersey - Broadband Provider Data Report

Provider: Voxitas

Received: August 2010

Submission date: October 2010

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Executed.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Netlogic, Inc.	
	“Doing business as” name		Voxitas	
	FRN		0006825954	
FOR WIRELINE				
Filetypes	Excel spreadsheet			
File size	9767 bytes, 4 data rows			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Address rows with speed entries were provided, probably the speed promised to the customer. Not averaged over an area so not typical; no advertised speeds provided.
	Typical-upstream		Not provided	
	Typical-downstream		Not provided	
	Advertised-upstream		Not provided	
	Advertised-downstream		Not provided	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
	Technology Type	Not provided; guess at copper – other (“DS1”)		
End-user specification	Not provided			
Comments:				
INTERCONNECTION DATA				

ID	
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: Not provided	

Section 3: Submission File Details

Received 1 file by secure upload.

Size	Name
9767	NJBroadband.xlsx

The file has 4 (four) rows of data. All have customer names and addresses. Three records describe DS1 service, one describes something else. Speeds listed are probably the provisioned speeds, not typical or advertised. No cover letter with DBA name, FRN, or other company data is present. No coded representations of data such as end user type, technology of transmission, etc. are provided.

Section 4: Validations and Results

No codes etc. were provided; the only possible validations are to check the addresses, and all four appear valid.

Section 5: Data Transformation and Loading

The standard NDA prohibits us from submitting address-level data to the NTIA. Instead, we discover the census block for each customer address, then report the census block shape drawn from Census Bureau TigerLine reference data.

NTIA Table BB_Service_CensusBlock

Loaded from supplied file "NJBroadband.xlsx" (4 rows). The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Netlogic, Inc."

DBANAME	Set to "Voxitas"
RESELLER	Set to "N"
FRN	Set to "0006825954"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	Set to "30"
MAXADDOWN	As supplied in column Downstream
MAXADUP	As supplied in column Upstream
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	Copied from Census Bureau TigerLine 2000, as matched by spatial join on geocoded address

Internal processing notes:

1. Geocoded the addresses using the Google geocoder.
2. Created an excel sheet and imported to a geodatabase table.
3. Added point shapes corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. Added a column containing the ID of the containing year 2000 census block via a spatial join of the point shapes and the census block shapes from reference data.
5. Discarded NN rows with duplicate census blocks.

The mechanized procedure for the geocoding steps is described in file GeoExcel_proc.txt.

Section 6: Clarification Questions and Responses

1. Do you strictly resell access to line owned by other companies?
2. What is your DBA name?
3. What is your FRN?
4. Are all services provided on copper? We must submit details about "Technology of Transmission" per the NOFA.
5. You have submitted address data, but the NDA prohibits us from submitting address-level details to the NTIA. We will report in terms of census blocks, unless you choose to direct us to report address data.
6. The data look like provisioned speeds. Is this correct? We are expected to report maximum advertised up and down speeds in your service area, as well as typical up and down speeds. Please tell us how you wish the speeds that you submitted to be reported.

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Wednesday, August 25, 2010 1:47 PM
To: Kirk Deyer
Cc: 'NJ Broadband Data Collection'
Subject: NJBB Clarification Questions

Kirk,

We have been reviewing the data you submitted to the New Jersey Broadband mapping program. Based on our initial review, we have some questions for you that will help us better understand the data and process it accurately.

1. You provided data for a small set of addresses, raising two questions:
 - a. Do you own the access facilities that connect to those addresses? (If not, you would be classified as a "reseller" and would not have to report data at this time.)
 - b. If we are to report this data, is it acceptable to report it at address level?

From: Kirk Deyer [mailto:kdeyer@appiaservices.com]
Sent: Wednesday, August 25, 2010 1:57 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJBB Clarification Questions

We lease the lines that connect to those addresses. Reporting it at the address level is acceptable.

Kirk Deyer
Finance Manager
Appia Communications, Inc.
231-929-0970 x140
Fax: 231-946-8954
U.S. Eastern Time

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Wednesday, August 25, 2010 5:08 PM
To: Kirk Deyer
Cc: 'NJ Broadband Data Collection'
Subject: RE: NJBB Clarification Questions

Kirk,

Thanks for your quick response. One other clarification - what should we use for the "Provider Name" and "Doing Business As" names?

John

From: Kirk Deyer [mailto:kdeyer@appiaservices.com]
Sent: Wednesday, August 25, 2010 5:40 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJBB Clarification Questions

Netlogic, Inc. DBA Voxitas

Kirk Deyer
Finance Manager
Appia Communications, Inc.
231-929-0970 x140
Fax: 231-946-8954
U.S. Eastern Time
www.appiaservices.com<<http://www.appiaservices.com>>

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, August 27, 2010 4:25 PM
To: Kirk Deyer
Subject: Additional NJBB Clarifications

Kirk,

Upon further review, we identified a few other questions that will help us understand and accurately report your data:

1. What is your FRN?
2. Are all services provided on copper? We must submit details about "Technology of Transmission" per the NOFA.
3. The data look like provisioned speeds. Is this correct? We are expected to report maximum advertised up and down speeds in your service area, as well as typical up and down speeds. Please tell us how you wish the speeds that you submitted to be reported.

We appreciate your continued support of this program!

John Wullert
Manager – NJ BB Data Collection

Telcordia Technologies
732-699-2687

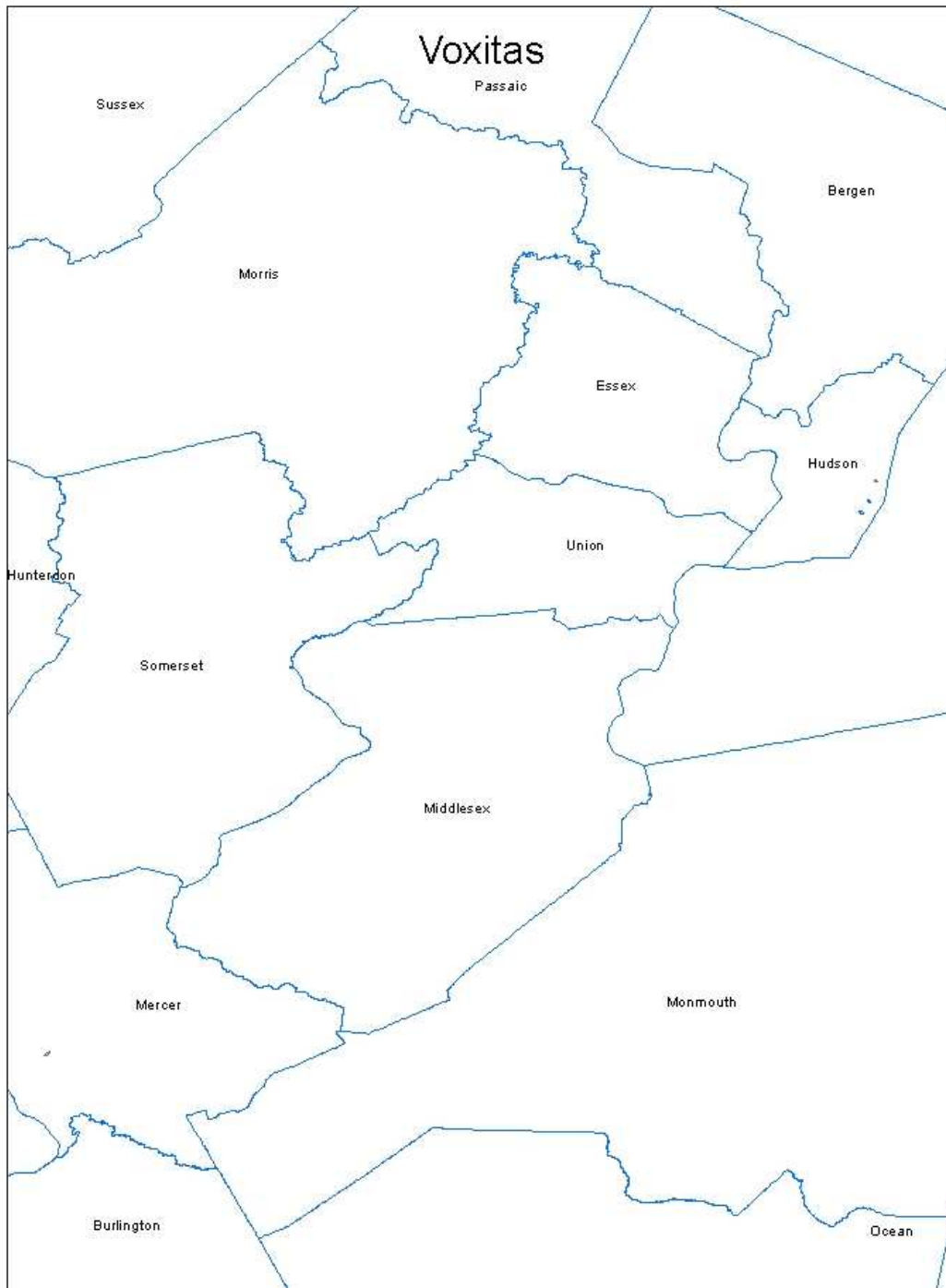
From: Kirk Deyer [mailto:kdeyer@appiaservices.com]
Sent: Wednesday, August 25, 2010 5:40 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJBB Clarification Questions

Our FRN is 0006825954. The services are provided on copper and they are provisioned speeds.

Kirk Deyer
Finance Manager
Appia Communications, Inc.
231-929-0970 x140
Fax: 231-946-8954
U.S. Eastern Time
www.appiaservices.com

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Wave2Wave

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.
3. Discarded 1 record for address that could not be geocoded in New Jersey (in Pennsylvania)
4. Discarded 55 records with duplicate census blocks (i.e., multiple addresses in the same census block)

Total rows loaded: 63

NTIA Table BB_Service_Wireless

1. No column changes
2. See discards above.

Total rows loaded: 105

Notes

To create the "providerInput" table for this submission, we removed the 2000 census block column from the old providerInput table and performed a spatial join against the 2010 census block reference data table.

Provider Interactions

Connecting New Jersey - Broadband Provider Data Report

Provider: Wave2Wave Communications, Inc.

Received: March 2011

Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NDA executed with NJ OIT.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Wave2Wave Communications, Inc.	
	“Doing business as” name		Wave2Wave Communications	
	FRN		0015329394	
FOR WIRELINE				
Filetypes	XLS			
File size	229 rows			
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		Address	
	Typical-downstream		Address	
	Advertised-upstream		Address	
	Advertised-downstream		Address	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	30 (other copper - probably Ethernet) and 70 (Terrestrial Fixed Wireless)			
End-user specification	Codes 3 and 4			
Comments:				
INTERCONNECTION DATA				

ID	None provided
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments:	

Section 3: Submission File Details

Received 1 file by SECURE UPLOAD:

Size	Name
76800	NJBB_0015329394_AddressLevelAvailability_03.08.2011.xls

Section 4: Validations and Results

The submitted file has 229 rows with street addresses, tech transmission, max adv speeds, and typical speeds. The codes are reasonable, but the high variety in maximum advertised speeds is most likely an artifact, rather than a representation of the actual capabilities. Of the original rows, 223 could be geocoded successfully and 6 could not. The input address set yielded 163 unique census blocks.

Section 5: Data Transformation and Loading

NTIA Table BB_Service_CensusBlock

Loaded from supplied XLS file. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "ProvName"
DBANAME	As supplied in column "DBAName"
PROVIDER_TYPE	Set to 1
FRN	As supplied in column "FRN"
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)

BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	As supplied in column TransTech
MAXADDOWN	As supplied in column MaxAdvDown
MAXADUP	As supplied in column MaxAdvUp
TYPICDOWN	Set to null
TYPICUP	Set to null
SHAPE	Copied from Census Bureau 2000 reference data, as matched by spatial join on geocoded address

Internal processing notes:

1. Geocoded the addresses using the Google geocoder.
2. Created an excel sheet and imported to a geodatabase table.
3. Added point shapes corresponding to each Latitude,Longitude pair by creating a feature class from the table using ArcCatalog's "Create Feature Class from XY Table" option.
4. Added a column containing the ID of the containing year 2000 census via a spatial join of the point shapes and the census block shapes from reference data.
5. Copied the Census Block shape from reference data.
6. Discarded 60 rows with duplicate census blocks, leaving 63 for technology 30.

NTIA Table BB_Service_Wireless

Loaded using census block shapes from reference data for the records with transmission technology 70. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "ProvName"
DBANAME	As supplied in column "DBAName"
FRN	As supplied in column "FRN"
TRANSTECH	As supplied
SPECTRUM	Set to 6, Unlicensed
MAXADDOWN	Set to 10, the largest value submitted for this tech
MAXADUP	Set to 10, the largest value submitted for this tech
TYPICDOWN	Set to null
TYPICUP	Set to null
STATEABBR	Set to "NJ"
SHAPE	Year 2000 Census Block shape obtained from reference data.

Internal processing notes:

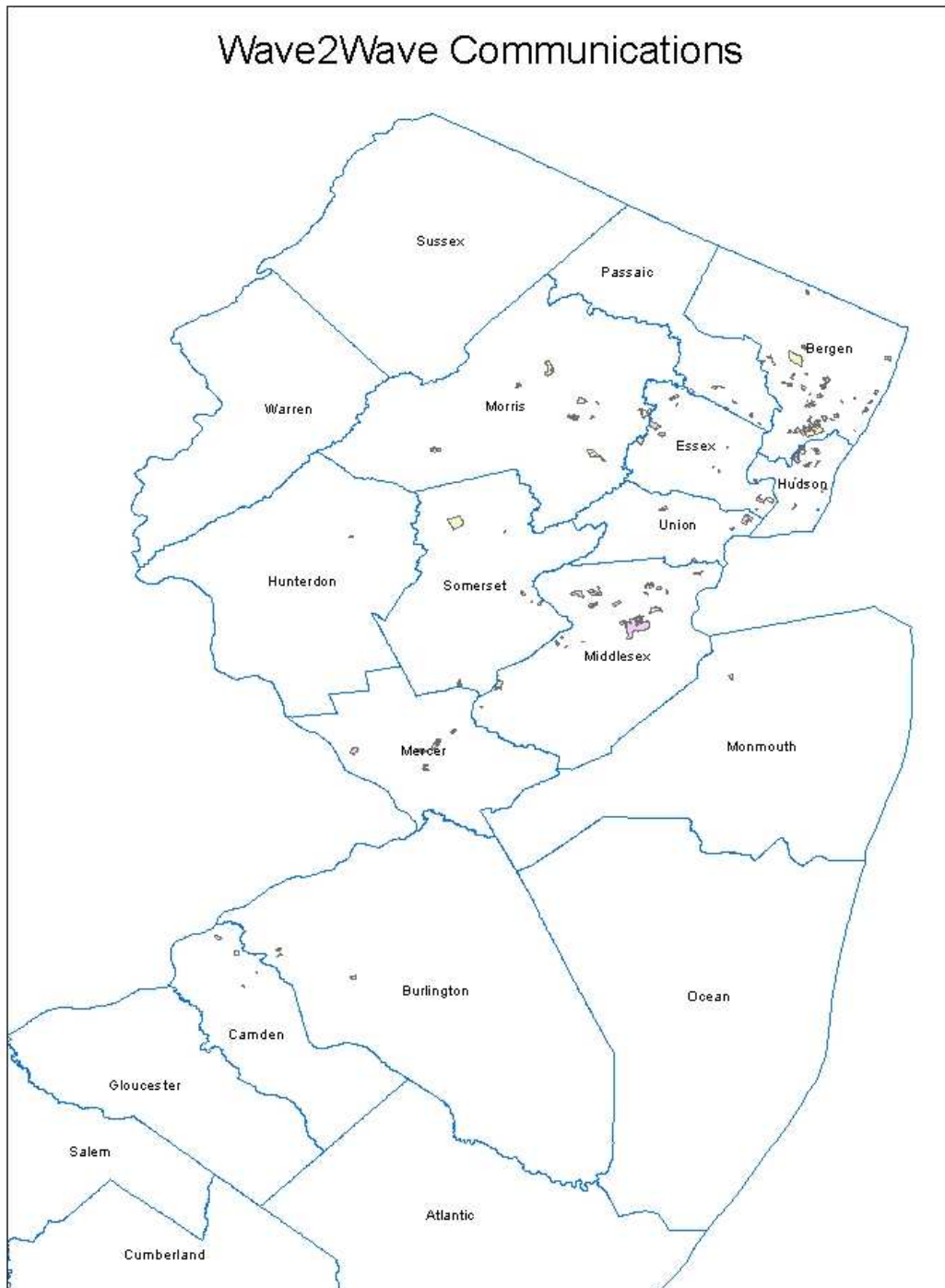
1. See above for discussion of geocoding addresses and finding the containing census block.
2. Spectrum: Imputed the code for unlicensed spectrum.

Section 6: Clarification Questions and Responses

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Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Wildblue

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_Wireless

Total rows loaded: 21 (each county in New Jersey)

Provider Interactions

From: Stauthamer, Roz [mailto:Roz.Stauthamer@viasat.com]
Sent: Wednesday, July 20, 2011 12:45 PM
To: connectingNJ@research.telcordia.com
Subject: RE: NJ Broadband Data Collection

Dear Shelley Bates and Map Team:

In response to the request for an updated submission, WildBlue Communications, Inc. notifies you as follows:

There are no changes to the submission WildBlue previously provided to your office. WildBlue has not had any changes in service coverage area or service offerings, nor have there been any administrative changes.

Best wishes,

Roz

From: connectingNJ@research.telcordia.com
Sent: Monday, July 25, 2011 1:22 PM
To: Stauthamer, Roz [mailto:Roz.Stauthamer@viasat.com]
Subject: RE: NJ Broadband Data Collection

Roz,

Thanks for the response. We will use the data you submitted previously for the upcoming delivery to NTIA. Note that we will be applying some additional validation tests to the data this round. We will get back to you if we run into any issues with the data.

Thanks,

Connecting New Jersey - Broadband Provider Data Report

Provider: WildBlue Communications Inc.

Received: March 2011

Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

NONE

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		WildBlue Communications, Inc.	
	“Doing business as” name		WildBlue	
	FRN		0007843766	
FOR WIRELESS				
Filetypes	text file, shape file			
File size				
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Submitted shape file describing the entire state of NJ with attributes for
	Typical-upstream		Not provided ('0')	
	Typical-downstream		Not provided ('0')	
	Advertised-upstream		yes. Entire state.	
	Advertised-downstream		yes. Entire state	
	Subscriber-weighted-up		Not provided?	
	Subscriber-weighted-down		By county	
Technology Type	Code 60 (Satellite)			
End-user specification	Voice message indicated that the referenced plans are consumer-focused.			
Comments: From the provider’s input package: “The subscriber-weighted nominal speed information has been calculated using only the service tiers that meet the NTIA definition of broadband speed, and is based on subscriber data for active				

subscribers as of March 17, 2011

INTERCONNECTION DATA: NONE

ID

File size

Ownership

Transport Type

**Data
Rates/Capacity**

Location

Comments: Not provided

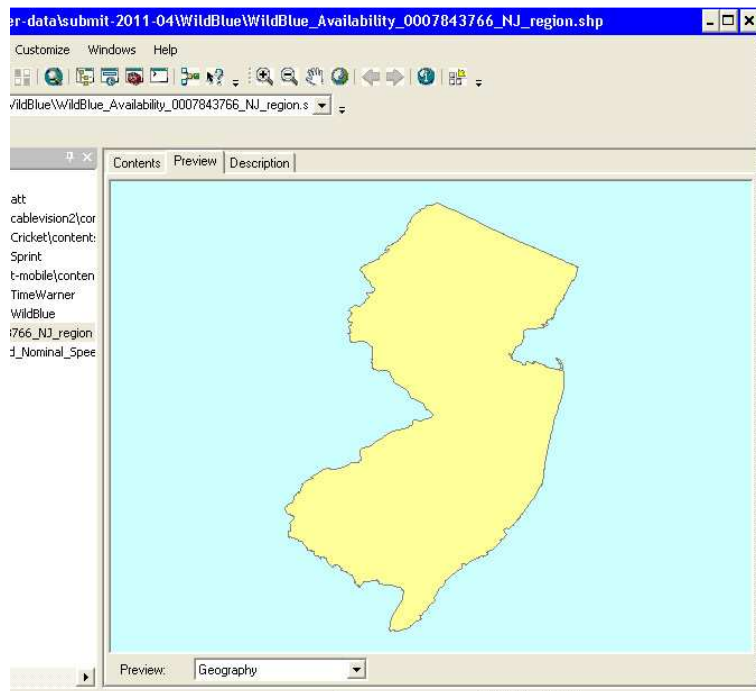


Figure 1. The shape submitted by the provider (the entire state of NJ)

Section 3: Submission File Details

Size (kb)	Name
2	WildBlue_Subscriber_Weighted_Nominal_speed_By_County_NJ.txt
1	WildBlue_Availability_0007843766_NJ_region.shx
1	WildBlue_Availability_0007843766_NJ_region.dbf
1	WildBlue_Availability_0007843766_NJ_region.prj
19	WildBlue_Availability_0007843766_NJ_region.shp

Section 4: Validations and Results

WildBlue notes that of the possible ‘Spectrum Used’ options provided, none listed Ka-Band as an option for Satellite Providers. WildBlue uses Ka-Band spectrum (uplink in the 29.5 – 30 gigahertz band and downlink in the 19.7 – 20.2 gigahertz band). WildBlue has not provided Typical Upstream Speed and Typical Downstream Speed values. WildBlue does not track speeds on a state-by-state basis, but instead primarily monitors overall network speeds. WildBlue has begun the process of recording more granular data relating to the speeds normally experienced by subscribers on a spot-beam basis. WildBlue believes that it will be able to provide this data in the coming months.

The map and supporting data are for one singular service area polygon that equals the entire State of New Jersey. The WildBlue service data values provided do not vary across any county or region within the state; therefore, there is only one service area polygon, namely the entire State of New Jersey

Section 5: Data Transformation and Loading

NTIA Table BB_Service_Wireless

We did not load the shapefile as submitted. Instead we loaded county shapes from reference data for counties in the State of New Jersey based on emailed statements that all counties are covered. The following table explains the transformations that were applied.

Table Column	Data Source / Transformation
PROVNAME	Set to "WildBlue Communications, Inc."
DBANAME	Set to "WildBlue"
FRN	Set to 0007843766
TRANSTECH	Set to 60
SPECTRUM	Set to 7 per translation shown below
MAXADDOWN	Set to 4, see below.
MAXADUP	Set to 2, see below.
TYPICDOWN	Not provided, set to null
TYPICUP	Not provided, set to null
STATEABBR	Set to "NJ"
SHAPE	County shape read from reference data.

Internal notes on processing:

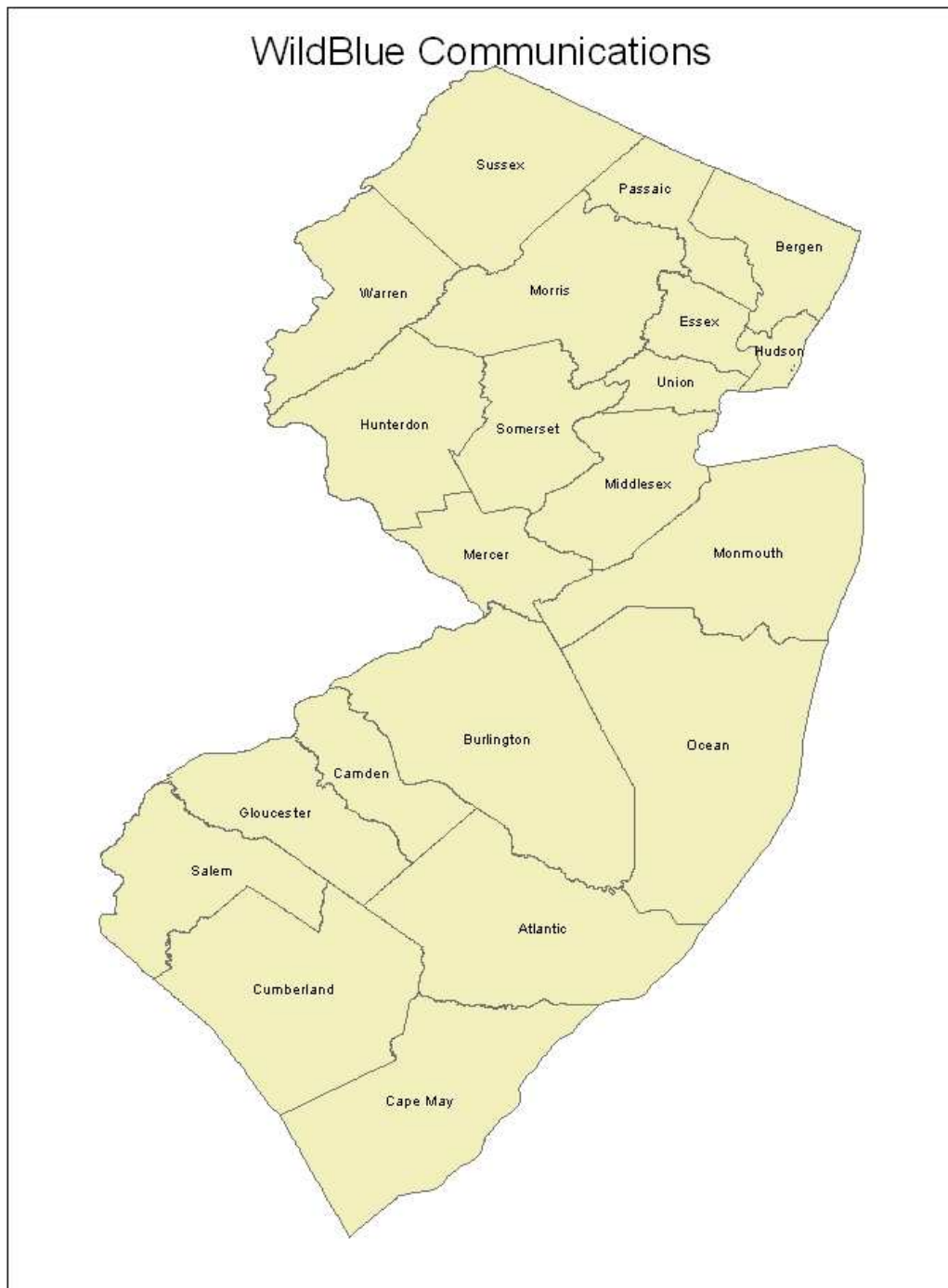
1. Spectrum: No statement was provided. The NTIA data model has a single column for spectrum. Satellite corresponds to NTIA "SPECTRUM USED" code value 7.
2. Speeds: The maximum advertised speeds provided in the emailed brochure are as discussed above. For max adv speeds we encoded the submitted down speed as value 4 (range 1.5-3 Mbps) and encoded the submitted up speed as value 2 (range 200 Kbps -- 768 Kbps).

3. Did not use the supplied shapefile because it was faster to copy over reference data that's already in the right XY coordinate system and tolerance value.

Section 6: Clarification Questions and Responses

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: Xchange Telecom

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Total rows loaded: 1,012

Notes

No large census blocks were found in Lakewood, so no street-segment records were loaded.

Provider Interactions

The Service providers told us to use the April 2011 data.

Last time, they told us they cover the entire city of lakewood. We sent email back to him to confirm that is still the case.

From: Duvid Rottenberg [drottenberg@xchangetele.com]
Sent: Wednesday, August 10, 2011 2:54 PM
To: ConnectingNJ@research.telcordia.com; shelley.bates@oit.state.nj.us
Cc: 'Mordy Gross'; DBECK@xchangetele.com
Subject: RE: Reminder - NJ Broadband Data Collection

Hi,

I don't have this data available on the census tract level, however we provide broadband service for all customers served by the LKWDNJLKDS5 switch. Our advertised broadband speed for this area is 2 Mbps Up and 10 Mbps down. We service both business & residential.

Back in March, you were able to use this info to get the census tracts, please let me know if this OK for now too.

Thank You,
Duvid Rottenberg
Xchange Telecom, Corp.
drottenberg@xchangetele.com
(646) 722-7258

Connecting New Jersey - Broadband Provider Data Report

Provider: Xchange Telecom

Received: March 2011

Submission date: April 2011

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

None

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		Xchange Telecom Corp	
	“Doing business as” name		Xchange Telecom	
	FRN		0006831713	
FOR WIRELINE				
Filetypes				
File size				
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	Information provided via email exchange (see below). Provider originally indicated that their coverage was limited to the area supported by a single central office. In further exchanges, the provider indicated that their coverage is limited to city of Lakewood and that they cover the entire city limits.
	Typical-upstream			
	Typical-downstream			
	Advertised-upstream		2 Mbps (code 4)	
	Advertised-downstream		10 Mbps (code 7)	
	Subscriber-weighted-nominal speed			
Technology Type	ADSL (code 10)			
End-user specification	In response to inquiry, provider reported residential and small business.			
Comments:				
INTERCONNECTION DATA				
ID				
File size				

Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments:	

Section 3: Submission File Details

Received no file submission, only statements by email.

Section 4: Validations and Results

No data was submitted, so no additional validation was required.

Section 5: Data Transformation and Loading

NTIA Table BB_Service_CensusBlock

Loaded based on the emailed statement of service to all of Lakewood Township, Ocean county, New Jersey. We submitted all census blocks less than 2 square miles in this municipality. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	Set to "Xchange Telecom Corp" per email response
DBANAME	Set to "Xchange Telecom"
PROVIDER_TYPE	Set to 1
FRN	Set to "0006831713" per email response
STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from Census Block FIPS Code (first 3 digits)
TRACT	Populated from Census Block FIPS Code (next 6 digits)
BLOCKID	Populated from Census Block FIPS Code
BLOCKSUBGROUP	Set to null
FULLFIPSID	Populated from Census Block FIPS Code
TRANSTECH	Set to 10 (ADSL) per email
MAXADDOWN	Set to code 7 per email
MAXADUP	Set to code 4 per email
TYPICDOWN	Set to null, not provided
TYPICUP	Set to null, not provided
SHAPE	Copied from Census Bureau TigerLine 2010

Internal processing notes:

1. Created a file with a municipality name that matches exactly the "name" column in the Year 2010 Census Bureau TigerLine database.
2. Joined against reference data to discover census blocks, for a total of 681 blocks.
3. All of the census blocks discovered for Lakewood Township are smaller than 2 square miles, so no road segments were loaded.

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]

Sent: Wednesday, March 09, 2011 8:34 AM

To: 'Duvid Rottenberg'; 'ConnectingNJ@research.telcordia.com'

Cc: 'Shelley Bates'

Subject: RE:

Duvid,

We can work with that information as far as geography and mapping into Census blocks. What we would need then is information on your speeds and middle-mile interconnection points. In terms of speeds, we are requesting the maximum upstream and downstream speeds you advertise in Lakewood, and the typical upstream and speeds experienced by your customers. For middle-mile interconnection points, we are requesting the address, and the technology and bandwidth you have available and whether you own or lease the trunks.

There is also a small amount of general information we need. Specifically, we need your official company name, and other names you do business as and your FCC FRN number.

Thanks for your participation in the program!

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Duvid Rottenberg [mailto:drottenberg@xchangetele.com]

Sent: Tuesday, March 08, 2011 3:36 PM

To: ConnectingNJ@research.telcordia.com

Cc: 'Shelley Bates'

Subject: RE:

John,

We are a UNE-L company, we lease the loop from Verizon and provide broadband for the end user on the leased circuits. I believe we do cover the whole city of Lakewood.

Duvid Rottenberg
Xchange Telecom, Corp.
drottenberg@xchangetele.com
(646) 722-7258

From: NJ Broadband Data Collection [<mailto:ConnectingNJ@research.telcordia.com>]
Sent: Tuesday, March 08, 2011 3:21 PM
To: drottenberg@xchangetele.com
Cc: ConnectingNJ@research.telcordia.com; 'Shelley Bates'
Subject:

Duvid,

I received the note that you sent to Shelley Bates regarding the questions you have about submitting your broadband availability data. Rather than attempting to answer your question, let me first ask another question that will help determine if you are required to report data at this time. We are currently only collecting data from "facilities-based" providers. NTIA definition is:

An entity is a "facilities-based" provider of broadband service connections to end user locations if any of the following conditions are met: (1) It owns the portion of the physical facility that terminates at the end user location; (2) it obtains unbundled network elements (UNEs), special access lines, or other leased facilities that terminate at the end user location and provisions/equips them as broadband; or (3) it provisions/equips a broadband wireless channel to the end user location over licensed or unlicensed.

If you fit the definition, then we would be looking to collect data from you. In that case, we need to come up with a method of determining your coverage area. We do not have a clean way of mapping from COs to census blocks. We do have a couple options:

1. If you could estimate your coverage area in terms of governmental boundaries, we could map that into census blocks. For example, if you know that you cover the entire town/city of Lakewood, we could handle the rest.
2. If you were to send us a list of addresses, we could geo-code those locations. This is less desirable, as where you have customers does not fully represent the locations where you could offer service, but we have done it in some cases.

Let me know how I can help you in determining an approach.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Duvid Rottenberg [<mailto:drottenberg@xchangetele.com>]
Sent: Tuesday, March 08, 2011 11:41 AM
To: Bates, Shelley
Cc: Michael Robinson
Subject: Xchange Telecom Broadband Service

Hi Shelley,

I am working on providing the data you requested from Michael. Our broadband service is currently available for all customers served by the LKWDNJLKDS5 CO, I'm not sure how to map that into census tracts. I have tried setting up an account at <http://connectingnj.state.nj.us> but I got an error stating that Xchange Telecom is not a recognized provider.

Thank You,

Duvid Rottenberg
Xchange Telecom, Corp.
drottenberg@xchangetele.com
(646) 722-7258

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Tuesday, March 08, 2011 3:21 PM
To: drottenberg@xchangetele.com
Cc: ConnectingNJ@research.telcordia.com; 'Shelley Bates'
Subject:

Duvid,

I received the note that you sent to Shelley Bates regarding the questions you have about submitting your broadband availability data. Rather than attempting to answer your question, let me first ask another question that will help determine if you are required to report data at this time. We are currently only collecting data from "facilities-based" providers. NTIA definition is:

An entity is a "facilities-based" provider of broadband service connections to end user locations if any of the following conditions are met: (1) It owns the portion of the physical facility that terminates at the end user location; (2) it obtains unbundled network elements (UNEs), special access lines, or other leased facilities that terminate at the end user location and provisions/equips them as broadband; or (3) it provisions/equips a broadband wireless channel to the end user location over licensed or unlicensed.

If you fit the definition, then we would be looking to collect data from you. In that case, we need to come up with a method of determining your coverage area. We do not have a clean way of mapping from COs to census blocks. We do have a couple options:

1. If you could estimate your coverage area in terms of governmental boundaries, we could map that into census blocks. For example, if you know that you cover the entire town/city of Lakewood, we could handle the rest.
2. If you were to send us a list of addresses, we could geo-code those locations. This is less desirable, as where you have customers does not fully represent the locations where you could offer service, but we have done it in some cases.

Let me know how I can help you in determining an approach.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Duvid Rottenberg [mailto:drottenberg@xchangetele.com]
Sent: Tuesday, March 08, 2011 3:36 PM
To: ConnectingNJ@research.telcordia.com
Cc: 'Shelley Bates'
Subject: RE:

John,

We are a UNE-L company, we lease the loop from Verizon and provide broadband for the end user on the leased circuits. I believe we do cover the whole city of Lakewood.

Duvid Rottenberg

Xchange Telecom, Corp.
drottenberg@xchangetele.com
(646) 722-7258

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Wednesday, March 09, 2011 8:34 AM
To: 'Duvid Rottenberg'; 'ConnectingNJ@research.telcordia.com'
Cc: 'Shelley Bates'
Subject: RE:

Duvid,

We can work with that information as far as geography and mapping into Census blocks. What we would need then is information on your speeds and middle-mile interconnection points. In terms of speeds, we are requesting the maximum upstream and downstream speeds you advertise in Lakewood, and the typical upstream and speeds experienced by your customers. For middle-mile interconnection points, we are requesting the address, and the technology and bandwidth you have available and whether you own or lease the trunks.

There is also a small amount of general information we need. Specifically, we need you official company name, and other names you do business as and your FCC FRN number.

Thanks for your participation in the program!

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Monday, March 14, 2011 4:16 PM
To: 'NJ Broadband Data Collection'; 'Duvid Rottenberg'
Cc: 'Shelley Bates'
Subject: RE:

Duvid,

I am sending this again to request data from you on the types of service you advertise. I attempted to gain this information from your Web site, but was unable to get any information on the plans you offer. Could please send me information on the maximum upstream and downstream speeds you advertise in Lakewood? If you have information on the typical upstream and speeds experienced by your customers, that would be useful as well.

Please feel free to call me if you have any questions.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Duvid Rottenberg [mailto:drottenberg@xchangetele.com]
Sent: Monday, March 14, 2011 4:31 PM
To: ConnectingNJ@research.telcordia.com

Cc: 'Shelley Bates'
Subject: RE:

2 Mbps Upstream and 10 Mbps downstream.

Duvid Rottenberg

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Monday, March 14, 2011 4:46 PM
To: 'Duvid Rottenberg'; 'ConnectingNJ@research.telcordia.com'
Cc: 'Shelley Bates'
Subject: RE:

Thanks for this.

One other question – do you serve both residential and business customers?

John

From: Duvid Rottenberg [mailto:drottenberg@xchangetele.com]
Sent: Monday, March 14, 2011 4:57 PM
To: ConnectingNJ@research.telcordia.com
Cc: 'Shelley Bates'
Subject: RE:

Yes we do.

Duvid Rottenberg

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, March 18, 2011 10:41 AM
To: 'Duvid Rottenberg'
Cc: 'NJ Broadband Data Collection'
Subject: Xchange NJ BB Clarification

Duvid,

We need to report data using Provider Name, Doing-Business-As Name and FCC Registration number. The information we retrieved from the FCC is:

Provider Name: XCHANGE TELECOM CORP.
FRN: 0006831713

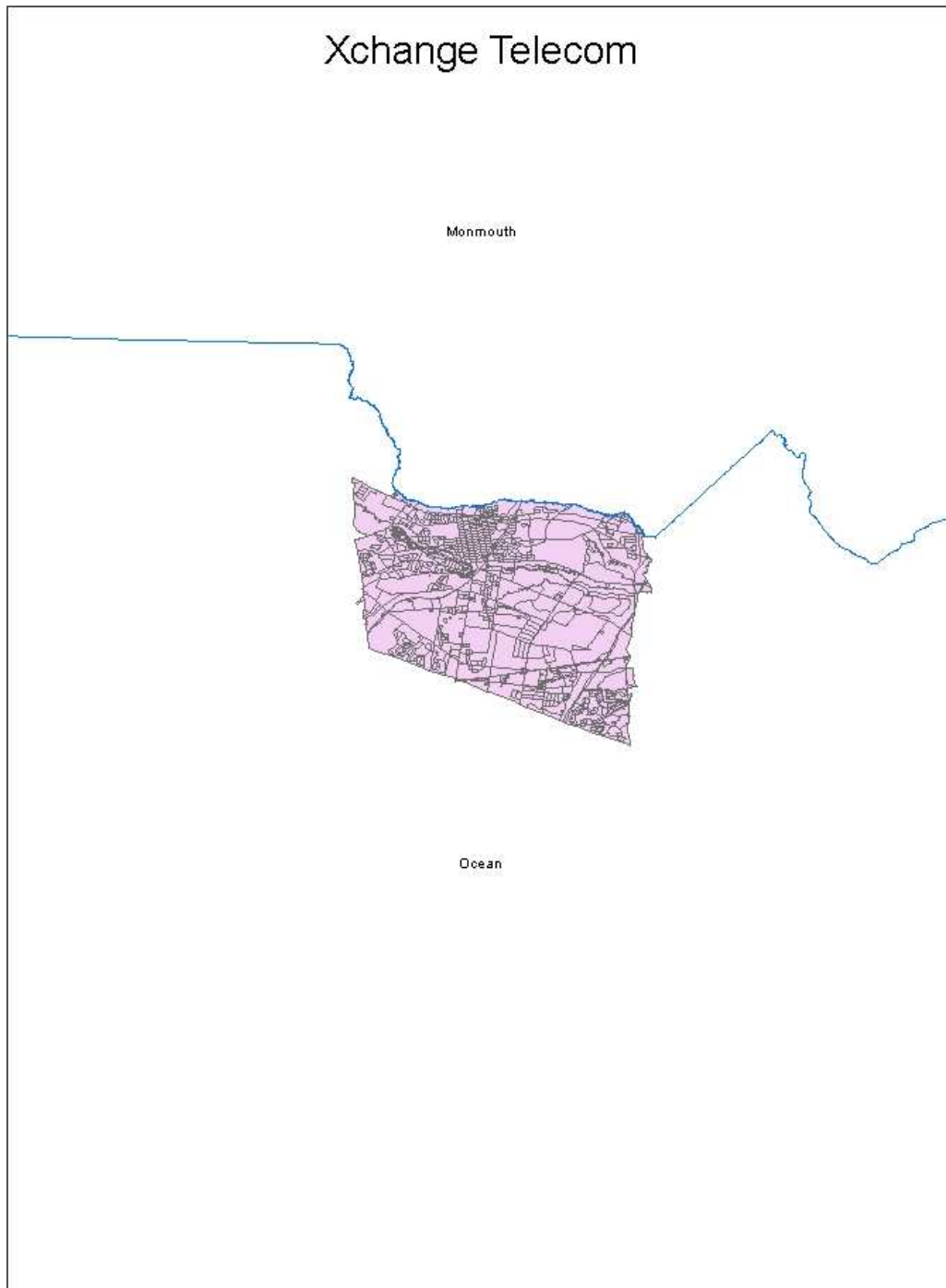
Are these correct? Also, do you have another “doing-business-as” name?

Thanks,

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data



Provider: XO Communications

Submission date: October 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

A specific challenge in this case is mapping from the Year 2000 census block geometry used in the April 2011 submission to the Year 2010 census block IDs required for October 2011.

NTIA Table BB_Service_CensusBlock

1. Column "blocksubgroup" was dropped.
2. Column "endusercat" was added; set to null because data was not supplied.

Notes

1. Discarded 28 records with missing or slow maximum download speed codes.
2. Used Census Bureau reference data to build a list of Year 2010 census blocks for each submitted Year 2000 census block. The 419 valid Year 2000 blocks resulted in 879 unique Year 2010 blocks.
3. Total rows loaded: 879

Provider Interactions

July 7, 2011: Sharon Adams instructed us to use previous data.

Connecting New Jersey - Broadband Provider Data Report

Provider: XO Communications

Submission date: April 2011

This report presents details on processing broadband data for delivery to the National Telecommunications and Information Administration (NTIA).

This is a stub report, since data from the previous submission was reused unchanged. The complete report from the previous submission begins on the next page. Notable differences from the processing done on the previous submission are listed next.

NTIA Table BB_Service_CensusBlock

1. Column "reseller" was dropped.
2. Set the new column "provider_type" to value 1 ("Broadband provider as described in the NOFA")
3. Set the max advertised speed code values (down and up) to 9, which is the maximum value among all records provided to us.
4. Dropped non-measured typical up/down speed code values.

Provider Interactions

From: Adams, Sharon E [mailto:Sharon.E.Adams@xo.com]
Sent: Tuesday, March 01, 2011 4:11 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJ BB Data Collection - Spring 2011

Hi John,

I don't have any new data to report.

Thanks,
Sharon Adams

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Tuesday, March 01, 2011 4:23 PM
To: Adams, Sharon E
Cc: ConnectingNJ@research.telcordia.com
Subject: RE: NJ BB Data Collection - Spring 2011

Sharon,

Are you saying that we can use the data you submitted last time (that it reflects your network capabilities as of 12/31/2011)?

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies

732-699-2687

From: Adams, Sharon E [mailto:Sharon.E.Adams@xo.com]
Sent: Tuesday, March 01, 2011 4:41 PM
To: ConnectingNJ@research.telcordia.com
Subject: RE: NJ BB Data Collection - Spring 2011

Yes, the previous data can be used again.

Thanks,
Sharon Adams

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Friday, March 18, 2011 9:34 AM
To: 'Adams, Sharon E'
Cc: 'NJ Broadband Data Collection'
Subject: XO NJBB Data Clarification

Sharon,

We have performed our initial review of your data and have a clarification question:

We see several locations where your download speeds are a tier 2, which the NTIA does not consider broadband. This appears that it might be the provisioned speed sold to the customer. Is there a higher, advertised speed that you could provision to these locations if the customer asked? One option would be for us to use the highest speed you deliver in a larger area as the maximum advertised speed. Would that accurately represent your ability to deliver service?

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Adams, Sharon E [mailto:Sharon.E.Adams@xo.com]
Sent: Thursday, July 07, 2011 9:56 AM
To: ConnectingNJ@research.telcordia.com
Subject: NJ Broadband Data Collection

Good morning,

Neither XO Communications Services, Inc. nor Nextlink Wireless, Inc. have any updates to previously submitted data. Please advise what steps need to be taken in order to ensure these companies compliance.

Kind regards,
Sharon Adams

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]
Sent: Thursday, July 07, 2011 11:13 AM
To: 'Adams, Sharon E'
Cc: 'connectingNJ@research.telcordia.com'

Subject: RE: NJ Broadband Data Collection

Sharon,

Thanks for the quick response. Your email message is sufficient notification for us to proceed using the data you have already submitted.

Note that we will be applying additional validation and verification procedures during this round and will get back to you if any issues arise with the data you supplied.

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

Connecting New Jersey - Broadband Provider Data Report

Provider: XO Communications

Received: August, 2010

Submission date: October 2010

This report presents details on processing of the broadband data for delivery to the National Telecommunications and Information Administration.

Section 1: NDA Status

Executed.

Section 2: Submission Overview

AVAILABILITY DATA				
ID	Provider name		XO Communications, LLC	
	“Doing business as” name		Provided, but looks weird	
	FRN		0006275945	
FOR WIRELINE				
Filetypes				
File size				
Speeds	Type		Spatial Resolution (address, street seg, census block, RSA/MSA, zipcode,etc)	
	Typical-upstream		census block	
	Typical-downstream		census block	
	Advertised-upstream		census block	
	Advertised-downstream		census block	
	Subscriber-weighted-up		Not provided	
	Subscriber-weighted-down		Not provided	
Technology Type	Entered codes 1, 2, and 3, which are not valid NOFA TechTrans codes.			
End-user specification	Business (444 entries), Residence (5 entries)			
Comments:				
INTERCONNECTION DATA				

ID	
File size	
Ownership	
Transport Type	
Data Rates/Capacity	
Location	
Comments: Not provided	

Section 3: Submission File Details

Received 1 file by SECURE UPLOAD.

Size	Name
41358	NJBroadbandData63009.xlsx

Section 4: Validations and Results

The spreadsheet provides census block IDs and associated max adv and typical speeds. The last two rows of the sheet are different from the 447 data rows proceeding them, and one of those last two is in New York. The DBA name looks unusual and the technology of transmission codes are not valid. After receiving clarification by email we created a corrected spreadsheet based on the original submission as follows:

1. Dropped the last two rows that have addresses instead of provider name, DBA name, etc.
2. Changed DBA Name entries to "XOCSI"
3. Changed technology of transmission codes: 1 to 10, 2 to 20, and 3 to 30.

Section 5: Data Transformation and Loading

NTIA Table BB_Service_CensusBlock

Loaded from the supplied spreadsheet. The following table explains the transformations that were applied to load the target table.

Table Column	Data Source / Transformation
PROVNAME	As supplied in column "Provider Name"
DBANAME	As supplied in column "DBA Name"
RESELLER	Set to "N"
FRN	As supplied in column "FRN", after adding leading zeros

STATEFIPS	Set to "34" (NJ)
COUNTYFIPS	Populated from column census_block (1 st 3 digits)
TRACT	Populated from column census_block (next 6 digits)
BLOCKID	Populated from column census_block (last 4 digits)
BLOCKSUBGROUP	Set to null
FULLFIPSID	As supplied in column census_block
TRANSTECH	As supplied in column Tech Code
MAXADDOWN	As supplied in column MaxDownload
MAXADUP	As supplied in column MaxUpload
TYPICDOWN	As supplied in column TypDownload
TYPICUP	As supplied in column TypUpload
SHAPE	Copied from Census Bureau TigerLine 2010, As matched by Census block ID

Internal processing notes:

1. No duplicate census blocks were found.

Section 6: Clarification Questions and Responses

From: NJ Broadband Data Collection [mailto:ConnectingNJ@research.telcordia.com]

Sent: Tuesday, September 13, 2011 4:07 PM

To: 'Adams, Sharon E'

Cc: ConnectingNJ@research.telcordia.com

Subject: RE: NJ Broadband Data Collection

Sharon,

We realized that we have a potential issue with processing the data you submitted previously. The NTIA has transitioned from using the 2000 census block geometry to the 2010 census block geometry. While it is possible for us to translate your prior data, there is a high risk of overstating or understating your actual coverage area due to the many-to-many mappings between the two sets of census blocks.

Is it possible for you to provide your data using the 2010 geometry?

John Wullert
Manager – NJ BB Data Collection
Telcordia Technologies
732-699-2687

From: Adams, Sharon E [mailto:Sharon.E.Adams@xo.com]

Sent: Tuesday, September 13, 2011 4:10 PM

To: ConnectingNJ@research.telcordia.com

Subject: RE: NJ Broadband Data Collection

Hi John,

It's fine to restate our data with the new census block geometry. I do not have the new 2010 geometry to restate the data.

Thanks,
Sharon Adams

Section 7: Notes and Open Issues

Section 8: Overview Map of Submitted Data

