

### **BB\_ConnectionPoint\_LastMile**

No last mile connection points were obtained and/or loaded into the BB\_ConnectionPoint\_LastMile feature class (this feature class was optional and not part of the original NOFA).

### **BB\_ConnectionPoint\_MiddleMile**

709 features were included in the BB\_ConnectionPoint\_MiddleMile feature class. Ownership, serving facility capacity, and serving facility type information was requested of all providers, however only Midcontinent Communications and Red River Rural Telephone Association provided data and coded appropriately (all others were left <Null>). None of the providers offered elevation information for their middle mile connection points.

### **BB\_Service\_Address**

No service address points were loaded into the BB\_Service\_Address feature class. All provider service was reported at the census block and/or road segment level.

### **BB\_Service\_CAInstitutions**

1,972 features were included in the BB\_Service\_CAInstitutions feature class. The CAI's were geocoded using the ESRI Business Analyst geocoding engine, only CAI's with a match score of 70 + and a match type of Street\_Address or Address\_Point were loaded into the BB\_Service\_CAInstitutions feature class. Nine features were geocoded to a street intersection and therefore did not include a building number.

The technology of transmission for 1,292 CAI's were coded as All Other (Domain Value = 0) despite the fact that the presence of broadband service could not be confirmed (the transfer data model does not allow for <Null> values for the TRANSTECH field). The broadband service field (Yes or No) was left <Null> for these CAI's. Maximum advertised downstream and upstream speeds were not available or collected for any of the CAI's.

### **BB\_Service\_RoadSegment**

154,286 features were included in the BB\_Service\_RoadSegment feature class. TIGER 2009 roads were used as the base for the BB\_Service\_RoadSegment. Since the TIGER 2009 roads dataset does not currently include the parsed street fields (i.e., PREDIR, STREETNAME, STREETTYPE, SUFDIR) the full street name was loaded into the STREETNAME field (per discussion with Michael Byrne). Additionally, the TIGER 2009 road data does not include City information, therefore this field was left <Null> in the BB\_Service\_RoadSegment feature class.

The invalid characters in the alias for the RESELLER field were not edited.

The invalid characters in the coded name for Cable Modem – Other and Cable Modem – DOCSIS 3.0 were not edited.

The alias for the SUFFDIR field reads “Segment” and appears to be an error in the NTIA database.

Maximum advertised downstream and upstream speeds were not provided (or available from the provider’s website) for Nemont Telephone’s fiber to the end user service (these fields were left <Null>).

Despite allowing for speeds of “Greater than 200 kbps and less than 768 kbps” (domain code 2) in the AxDL and SxDL Up domains, the coded value (name) does not appear in the attribute table. The AxDL Up and Down domains appear to be assigned to the wrong fields in the NTIA database.

Typical downstream speeds were not provided, available from the provider’s website, or speed test data for the following service provider’s technologies of transmission (these fields were left <Null>):

- Cable Services Inc. (cable modem – other)
- Dakota Central Telecommunications Cooperative (ADSL)
- Inter-Community Telephone Company (ADSL)
- Midstate Communications Inc. (ADSL)
- Midstate Telephone Company (ADSL & Fiber)
- Nemont Telephone Cooperative, Inc. (Fiber)
- Northwest Communications Cooperative, Inc. (Fiber)
- Reservation Telephone Cooperative (ADSL & SDSL)
- Turtle Mountain Communications (Fiber)
- United Telephone Mutual Aid Corporation (Fiber)

Typical upstream speeds were not provided, available from the provider’s website, or speed test data for the following service provider’s technologies of transmission (these fields were left <Null>):

- Cable Services Inc. (cable modem – other)
- Dakota Central Telecommunications Cooperative (ADSL)
- Inter-Community Telephone Company (ADSL)
- Midstate Communications Inc. (ADSL)
- Midstate Telephone Company (ADSL)
- Nemont Telephone Cooperative, Inc. (Fiber)
- Northwest Communications Cooperative, Inc. (Fiber)
- Reservation Telephone Cooperative (ADSL & SDSL)
- Turtle Mountain Communications (Fiber)
- United Telephone Mutual Aid Corporation (Fiber)

Halstad Telephone Company provided typical downstream speeds of “Greater than 200 kbps and less than 768 kbps” (domain code 2). This domain code is not valid in the NTIA database schema; however this value was not removed or edited.

## **BB\_Service\_CensusBlock**

52,786 were included in the BB\_Service\_CensusBlock feature class.

The invalid characters in the alias for the RESELLER field were not edited.

Maximum advertised downstream and upstream speeds were not provided (or available from the provider's website) for Nemont Telephone's fiber to the end user service (these fields were left <Null>).

Maximum advertised upstream speeds were not provided (or available from the provider's website) for the following provider's technologies of transmission (these fields were left <Null>):

- Cable Services Inc. (Cable Modem – Other)
- Inter-Community Telephone Company (ADSL)
- Nemont Telephone Cooperative (ADSL & Fiber)
- Qwest Corporation (ADSL)

Typical downstream and upstream speeds were not provided, available from the provider's website, or speed test data for the following service provider's technologies of transmission (these fields were left <Null>):

- Absaraka Cooperative Telephone Co., Inc. (ADSL)
- Cable Services Inc. (Cable Modem – Other)
- Dakota Central Telecommunications Cooperative (ADSL)
- Inter-Community Telephone Company (ADSL)
- Mid-Rivers Internet (ADSL & Cable Modem – Other)
- Midstate Communications Inc. (ADSL)
- Midstate Telephone Company (ADSL)
- Nemont Telephone Cooperative, Inc. (Fiber)
- Northwest Communications Cooperative, Inc. (Fiber)
- OrbitCom, Inc. (ADSL)
- Reservation Telephone Cooperative (ADSL & SDSL)
- Turtle Mountain Communications (Fiber)
- United Telephone Mutual Aid Corporation (Fiber)

## **BB\_Service\_Overview**

262 features were included in the BB\_Service\_Overview feature class.

Five providers indicated that their Terrestrial Fixed Wireless service had an advertised upstream speed of "Greater than 200 kbps and less than 768 kbps" (domain code 2), however this domain value does not exist for this type of technology.

## **BB\_Service\_Wireless**

34 features were included in the BB\_Service\_Wireless feature class.

The invalid characters in the coded value name for the unlicensed spectrum were not edited.

The following providers indicated that their Terrestrial Fixed Wireless service had an advertised upstream speed of “Greater than 200 kbps and less than 768 kbps” (domain code 2), however this domain value does not exist for this type of technology:

- BTInet
- Consolidated Telcom
- Dakota Central Telecommunications Cooperative
- IdeaOne Telco
- Inter-Community Telephone Company
- Nemont Telephone Cooperative Inc.
- Northwest Communications Cooperative, Inc.
- Red River Rural Telephone Association, Inc.
- SRT Communications, Inc.
- Turtle Mountain Communications
- United Telephone Mutual Aid Corporation
- West River Telecommunications Cooperative

Halstad Telephone Company and InvisiMax Inc. indicated that their Terrestrial Fixed Wireless had a typical downstream speed of “Greater than 200 kbps and less than 768 kbps” (domain code 2), however this domain value does not exist for this type of technology.

The following providers indicated (or were derived from speed test data) that their Terrestrial Fixed Wireless service had a typical upstream speed of “Greater than 200 kbps and less than 768 kbps” (domain code 2), however this domain value does not exist for this type of technology:

- BTInet
- Halstad Telephone Company
- Invisimax Inc.
- Polar Communications Mutal Aid Corporation
- Red River Rural Telephone Association, Inc.
- Turtle Mountain Communications
- United Telephone Mutual Aid Corporation
- SRT Communications, Inc.

Typical downstream and upstream speeds were not provided, available from the provider’s website, or speed test data for the following service provider’s technologies of transmission (these fields were left <Null>):

- Alltel Wireless (Mobile Wireles)
- Dakota Central Telecommunications Cooperative (TFWU)
- Extend America (TFWU)

- IdeaOne Telcom (TFWL)
- Inter-Community Telephone Company (TFWU)
- Nemont Telephone Cooperative, Inc. (TFWL)
- Northwest Communications Cooperative, Inc. (TFWU)
- Val-ED Joint Venture LLP (TFWL)
- West River Telecommunications Cooperative (TFWL)