

Federal Communications Commission

CAFII – CAM 4.1.1 – Coverage Data Files - Read Me File

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The purpose of this document is to describe the coverage data files the Wireline Competition Bureau (Bureau) is providing to assist interested parties with the Phase II challenge process. The data files will be provided by state, consistent with the offer of model-based support.¹

The coverage information is presented in two files for each state. The first file is the Coverage Data File for each state; it displays the records received from the National Broadband Map (NBM), which is the starting point for the Connect America Model (CAM) coverage development process. This coverage data file includes records from the National Broadband Map for cable and fixed wireless (transmission codes 40 and 41 for cable, and 70 and 71 for fixed wireless). It also includes information indicating whether the providers report voice on FCC Form 477 and whether they receive high-cost support.

The second file, the Top Speed Data File for each state, represents the processed NBM data that are used to determine eligibility of census blocks for model-based support in the CAM. To create this file, records from the first file are first filtered to remove subsidized providers and non-voice filers; then the remaining records are ranked to develop a single record based on the top reported speed for eligible competitors by technology and by block.²

The following provides additional details associated with each of the coverage data files provided.

Coverage Data File

The Coverage file has a naming convention consisting of the two letter state abbreviation, followed by census blocks (CB) with coverage, e.g., WY_CBs_Coverage.csv. The file provides the list of potential unsubsidized competitor coverage associated with both cable and fixed wireless technologies consistent with the NBM data. This file may include multiple instances of a CB, reflecting coverage by multiple technologies and providers in a given CB or the presence of more than one incumbent local exchange carrier study area in the CB.

The following table provides information on each of the fields contained in the file.

¹ State is defined consistent with the offer of model-based support utilizing the fifth and sixth position of the service area code, consistent with CAM 4.1.1 results. CAM processing logic retains all census blocks, including neighboring states, associated with service areas in which the fifth and sixth characters of the service area code match the state that is processed.

² See section 5.2 of the CAM Methodology for details on the speed ranking process.

Data Field Name	Field Type	Data Description
AllSourceskey	Numeric	Record Identifier
DataSource	Text[15]	Provides NTIA NBM data file name source
FRN	Text[11]	FCC Registration Number from the National Broadband Map
ProvName	Text[255]	Carrier Coverage Provider Name from National Broadband Map
DBAName	Text[255]	Doing Business As Name from National Broadband Map
HoCoNum	Text[50]	Holding Company Number from National Broadband Map
HoCoName	Text[75]	Holding Company Name from National Broadband Map
CB	Text[16]	Census Block identifier from National Broadband Map
County	Text[5]	Standard county identifier from National Broadband Map
ServiceAreaState	Text[2]	State Identifier associated with the service area
SAC	Text[6]	Study Area Code assigned to the CB for support. If a Census block is split among two carriers, the coverage record from NBM will repeat.
SACName	Text[75]	ILEC operating company name assigned to the SAC
PctBlkInShape	Numeric	The decimal value representing percent area of the wireless polygon overlay of the Census Block (fixed wireless only). This field is used only for TransTech codes 70 and 71-Fixed Wireless. (see NBM TransTech table below)
TransTech	Numeric	Provides the NTIA NBM Cable and Fixed Wireless codes of 40,41,70,71 (see TransTech table below)
MaxAdDown	Numeric	Maximum advertised NTIA NBM downstream speed category. Categories = 3,4,5,6,7,8,9 (see MaxAdDown/MaxAdUp Codes Table below)
MaxAdUp	Numeric	Maximum advertised NTIA NBM upstream speed category. Categories = 2,3,4,5,6,7,8 (see MaxAdDown / MaxAdUp Codes Table below)
Bit_VoiceProvider	Numeric	Numeric Indicator, Voice Service Offering, 1 =True, 0=False
Bit_Subsidized	Numeric	Numeric Indicator, Subsidized Competitor 1=True, 0=False

Top Speed Data File

The Top Speed data file will have a naming convention with the two letter state abbreviation, followed by census block top ranked speed, e.g., WY_CB_top speed.csv. The file provides the top ranked speed selected by census block by technology type (Cable / Fixed Wireless). The data provide a single record associated with the census block (CB) after subsidized competitors and non-voice providers have been removed for cable and fixed wireless technologies. The speeds shown reflect the outcome of the speed ranking process described in section 5.2 of the CAM Methodology.

The following table provides information on each of the fields contained in the file.

Data Field Name	Field Type	Data Description
CB	Text [16]	Census Block Number
ServiceAreaState	Text [2]	State Identifier associated with the service area
SAC	Text [6]	Study Area Code assigned to the CB for support
SACName	Text [75]	ILEC operating company name assigned to the SAC
BBCovered	Numeric	Numeric Indicator, Served by Unsubsidized Competitor, 1= True 0=False
CableUL	Numeric	Cable technology upstream speed (Mbps)
CableDL	Numeric	Cable technology downstream speed (Mbps)
WirelessUL	Numeric	Wireless technology upstream speed (Mbps)
WirelessDL	Numeric	Wireless technology downstream speed (Mbps)

The following are additional NBM table reference data related to the TransTech codes and the downstream and upstream speed codes.

TransTech Technology Codes, Table

Code	Description
10	Asymmetric xDSL
20	Symmetric xDSL
30	Other Copper Wire
40	Cable Modem - DOCSIS 3.0 Down
41	Cable Model – Other
50	Optical Carrier/Fiber to the End User
60	Satellite
70	Terrestrial Fixed - Unlicensed
71	Terrestrial Fixed - Licensed
80	Terrestrial Mobile Wireless
90	Electric Power Line
0	All Other

MaxAdDown / MaxAdUp Codes, Table

Code	Description
2	Greater than 200 kbps and less than 768 kbps
3	Greater than 768 kbps and less than 1.5 mbps
4	Greater than 1.5 mbps and less than 3 mbps
5	Greater than 3 mbps and less than 6 mbps
6	Greater than 6 mbps and less than 10 mbps
7	Greater than 10 mbps and less than 25 mbps
8	Greater than 25 mbps and less than 50 mbps
9	Greater than 50 mbps and less than 100 mbps
10	Greater than 100 mbps and less than 1 gbps
11	Greater than 1 gbps