

Record Format for Middle-Mile and Internet Backhaul Connection Points

Field Name	Description	Data Type	Field Length	Example
Provider Identification Data				
ProvName	Provider Name	Text	200	ABC Co.
DBAName	“Doing-business-as” name	Text	200	Superfone, Inc.
FRN	Provider FCC Registration Number	Text	10	0008402202
Ownership	Is the facility owned (0) or leased (1)?	Short Integer	2	0
Broadband Technology Information				
BHCapacity	Upstream capacity of the serving facility <i>(see MiddleMile BH Capacity)</i>	Short Integer	2	6
BHType	Type of upstream transport facility <i>(see Backhaul Type table)</i>	Short Integer	2	3
Location Information				
Latitude	Latitude of the Middle Mile Connection Point. Give at least 5 decimal points to ensure accuracy <i>(value must be within 32.5 to 42)</i>	Double		37.75001
Longitude	Longitude of the Middle Mile Connection Point. Give at least 5 decimal points to ensure accuracy <i>(value must be within -114.13 to -124.40)</i>	Double		-122.68001
ElevFeet	Elevation relative to grade to the nearest foot (positive integers indicate above grade, negative below grade).	Short Integer		-10
StateAbbr	State Abbreviation	Text	2	CA
FullFIPSID	Current block identifier; a concatenation of Census 2010 state Federal Information Processing Standards (FIPS) code, Census 2010 county FIPS code, Census 2010 census tract code, and Census 2010 tabulation block number.	Text	16	060750160001015
Middle-Mile Questions				
ServLoc	Service/Locations : Is your ability to provide faster service or service to more locations currently limited by middle-mile transport capacity? Yes (1) No (0)	Text	1	1
Augment	Augmentation : Do you anticipate the need to augment middle-mile transport capacity in the next 12 months at this location? Yes (1) No (0)	Text	1	0

Field Name	Description	Data Type	Field Length	Example
Sufficient	<p>If you anticipate the need for augmentation, is sufficient middle-mile transport capacity available for augmentation at this location? Yes (1) No (0)</p> <p>If you don't need to augment leave question blank.</p>	Text	1	0

Middle Mile BH Capacity Codes
(Use in BHCcapacity field)

Code	Interconnection Data Rate
1	Multiple T1s and less than 40 mbps
2	Greater than 40 mbps and less than 150 mbps
3	Greater than 150 mpbs and less than 600 mbps
4	Greater than or equal to 600 mbps and less than 2.4 gbps
5	Greater than or equal to 2.4 gbps and less than 10 gbps
6	Greater than or equal to 10 gbps

Backhaul Type Codes
(Use in BHType field)

Code	Name
1	Fiber
2	Copper
3	Hybrid fiber Coax (HFC)
4	Wireless

Record Format for Wireline Service by Service Address

Field Name	Description	Data Type	Field Length	Example
Provider Identification Data				
ProvName	Provider Name	Text	200	ABC Co.
DBAName	“Doing-business-as” name	Text	200	Superfone, Inc.
Provider_Type	Type of Provider <i>(See table below for Provider Type table)</i>	Short Integer	2	1
FRN	Provider FCC Registration Number <i>(ONLY numbers no other characters)</i>	Text	10	0008402202
Address Data				
Address	Complete Address	Text	100	505 Van Ness Ave San Francisco CA 94102
BldgNbr	Building Number	Text	10	505
PreDir	Prefix Direction	Text	25	N
StreetName	Street Name	Text	50	Van Ness
StreetType	Street Type	Text	25	Avenue
SuffDir	Suffix Direction	Text	25	W
City	City	Text	50	San Francisco
StateCode	Two-letter state postal abbreviation	Text	2	CA
Zip5	5-digit ZIP code	Text	5	94102
Zip4	4-digit add-on code	Text	4	3298
Latitude	Latitude of the receiver. Give at least 5 decimal points to ensure accuracy <i>(value must be within 32.5 to 42)</i>	Double		37.75001
Longitude	Longitude of the receiver. Give at least 5 decimal points to ensure accuracy <i>(value must be within -114.13 to -124.40)</i>	Double		-122.68001
EndUserCat	Category of End User address <i>(See table below for End User</i>	Text	1	3

Field Name	Description	Data Type	Field Length	Example
	table)			
Broadband Technology and Speed Data				
TransTech	Category of technology available for the provision of service at the address (See Technology of Transmission table)	Short Integer	2	10
MaxAdDown	Speed tier code for the maximum advertised downstream speed available (See Download Speed Tier table) <i>Note: Value must be equal or greater than MaxAdvUp speed</i>	Text	2	3
MaxAdUp	Speed tier code for the maximum advertised upstream speed that is offered with the above maximum advertised downstream speed available (See Upload Speed Tier table) <i>Note: Value must be equal or less than MaxAdvDown speed</i>	Text	2	2
TypicDown	Speed tier code for the downstream data transfer throughput rate that most subscribers to service at the maximum advertised downstream speed (above) can achieve consistently during expected periods of heavy network usage (See Download Speed Tier table) <i>Note: Value must be equal or greater than TypicUp speed</i>	Text	2	3
TypicUp	Speed tier code for the upstream data transfer throughput rate that most subscribers to service at the	Text	2	2

Field Name	Description	Data Type	Field Length	Example
	maximum advertised upstream speed (above) can achieve consistently during expected periods of heavy network usage (See Upload Speed Tier table) <i>Note: Value must be equal or less than TypicDown speed</i>			
FullFIPSID	Current block identifier; a concatenation of Census 2010 state Federal Information Processing Standards (FIPS) code, Census 2010 county FIPS code, Census 2010 census tract code, and Census 2010 tabulation block number	Text	16	060750160001015

End User Codes
(use in EndUserCat field)

End User Category Code	End User Category	Description
1	Residential	Address denotes a residential living unit, individual living unit in institutional settings such as college dormitories and nursing homes and other locations designed primarily for residential use at which broadband service is available.
2	Governmental	Address denotes a state or government location at which broadband service is available.
3	Small Business	Address denotes the location of a small business.
4	Medium or Large Enterprise	Address denotes the location of the medium or large enterprise.
5	Other	Address denotes a location not meeting any of the above descriptions.

Technology of Transmission Codes
(Use in TransTech field)

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

Download Speed Tier Codes
(Use in MaxAdvDown, TypicDown fields)

3	Greater than or equal to 768 kbps and less than 1.5 mbps
4	Greater than or equal to 1.5 mbps and less than 3 mbps
5	Greater than or equal to 3 mbps and less than 6 mbps
6	Greater than or equal to 6 mbps and less than 10 mbps
7	Greater than or equal to 10 mbps and less than 25 mbps
8	Greater than or equal to 25 mbps and less than 50 mbps
9	Greater than or equal to 50 mbps and less than 100 mbps
10	Greater than or equal to 100 mbps and less than 1 gbps
11	Greater than or equal to 1 gbps

Upload Speed Tier Codes
(Use in MaxAdvUp, TypicUp fields)

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

Provider Type
(Use in Provider_Type field)

1	Broadband provider as described in the NOFA
2	Reseller
3	Others

Record Format for Wireline Service by Census Block
 (For Census Blocks no greater than two square miles in area
 which broadband service is available to end users)

Field Name	Description	Data Type	Field Length	Example
Provider Identification Data				
ProvName	Provider Name	Text	200	ABC Co.
DBAName	“Doing-business-as” name	Text	200	Superfone, Inc.
Reseller	Type of Provider <i>(See table below for Provider Type table)</i>	Short Integer	2	1
FRN	Provider FCC Registration Number <i>(ONLY numbers no other characters)</i>	Text	10	0008402202
Census Block Identification Data				
StateFIPS	2-digit Federal Information Processing Standard (FIPS) Code identifying individual State. Must include leading “0”	Text	2	06
CountyFIPS	3-digit Federal Information Processing Standard (FIPS) Code identifying individual Counties. Must include leading “0” if applicable	Text	3	075
Tract	6-digit Federal Information Processing Standard (FIPS) Code identifying individual Census Tracts. Must include one or more leading zeros, and also two trailing zeros if applicable	Text	6	016000
BlockID	4-digit Federal Information Processing Standard (FIPS) Code identifying individual Census Blocks. Must include leading “0” if applicable	Text	4	1015
FullFIPSID	Current block identifier; a concatenation of Census 2010 state Federal Information Processing Standards (FIPS) code, Census 2010 county FIPS code, Census 2010 census tract code, and Census 2010 tabulation block number.	Text	16	060750160001015

Field Name	Description	Data Type	Field Length	Example
CBYear	Year of Census Data Edition	Text	4	2010
CBSq_Mi	Provide square mileage for specific census block number to the first decimal place	Double		1.8
Broadband Technology and Speed Data				
TransTech	Category of technology available for the provision of service at the address (See Technology of Transmission table)	Short Integer	2	10
MaxAdDown	Speed tier code for the maximum advertised downstream speed available (See Download Speed Tier table) <i>Note: Value must be equal or greater than MaxAdvUp speed</i>	Text	2	3
MaxAdUp	Speed tier code for the maximum advertised upstream speed that is offered with the above maximum advertised downstream speed available (See Upload Speed Tier table) <i>Note: Value must be equal or less than MaxAdvDown speed</i>	Text	2	2
TypicDown	Speed tier code for the downstream data transfer throughput rate that most subscribers to service at the maximum advertised downstream speed (above) can achieve consistently during expected periods of heavy network usage (See Download Speed Tier table) <i>Note: Value must be equal or greater than TypicUp speed</i>	Text	2	3

Field Name	Description	Data Type	Field Length	Example
TypicUp	<p>Speed tier code for the upstream data transfer throughput rate that most subscribers to service at the maximum advertised upstream speed (above) can achieve consistently during expected periods of heavy network usage</p> <p>(See Upload Speed Tier table)</p> <p><i>Note: Value must be equal or less than TypicDown speed</i></p>	Text	2	2

Technology of Transmission Codes
(Use in TransTech field)

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

Download Speed Tier Codes
(Use in MaxAdvDown, TypicDown fields)

3	Greater than or equal to 768 kbps and less than 1.5 mbps
4	Greater than or equal to 1.5 mbps and less than 3 mbps
5	Greater than or equal to 3 mbps and less than 6 mbps
6	Greater than or equal to 6 mbps and less than 10 mbps
7	Greater than or equal to 10 mbps and less than 25 mbps
8	Greater than or equal to 25 mbps and less than 50 mbps
9	Greater than or equal to 50 mbps and less than 100 mbps
10	Greater than or equal to 100 mbps and less than 1 gbps
11	Greater than or equal to 1 gbps

Upload Speed Tier Codes
(Use in MaxAdvUp, TypicUp fields)

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

Provider Type
(Use in Reseller field)

1	Broadband provider as described in the NOFA
2	Reseller
3	Others

Record Format for Wireline Service by Road Segment
(For Census Blocks larger than two square miles in area
which broadband service is available to end users)

Field Name	Description	Data Type	Field Length	Example
Provider Identification Data				
ProvName	Provider Name	Text	200	ABC Co.
DBAName	“Doing-business-as” name	Text	200	Superfone, Inc.
Reseller	Type of Provider <i>(See table below for Provider Type table)</i>	Short Integer	2	1
FRN	Provider FCC Registration Number <i>(ONLY numbers no other characters)</i>	Text	10	0008402202
TIGER/Line File Street Segment Data				
TLID	TIGER/Line Identification Number	Double	10	124988050
AddMin	Street Segment Minimum Address	Text	10	501
AddMax	Street Segment Maximum Address	Text	10	599
PreDir	Street Prefix to identify street segment	Text	25	N
StreetName	Provide street name to identify street segment	Text	50	Van Ness
StreetType	Street type to identify street segment	Text	25	Avenue
SufDir	Street Suffix to identify street segment	Text	25	W
City	Street Segment City Location	Text	50	San Francisco
StateCode	Street Segment State Location	Text	2	CA
Zip5	Street Segment Zip 5-digit code	Text	5	94102
Zip4	Street Segment Zip 4-digit add-on code	Text	4	3297

Field Name	Description	Data Type	Field Length	Example
Broadband Technology and Speed Data				
TransTech	<p>Category of technology available for the provision of service at the address</p> <p>(See Technology of Transmission table)</p>	Short Integer	2	10
MaxAdDown	<p>Speed tier code for the maximum advertised downstream speed available</p> <p>(See Download Speed Tier table)</p> <p><i>Note: Value must be equal or greater than MaxAdvUp speed</i></p>	Text	2	3
MaxAdUp	<p>Speed tier code for the maximum advertised upstream speed that is offered with the above maximum advertised downstream speed available</p> <p>(See Upload Speed Tier table)</p> <p><i>Note: Value must be equal or less than MaxAdvDown speed</i></p>	Text	2	2
TypicDown	<p>Speed tier code for the downstream data transfer throughput rate that most subscribers to service at the maximum advertised downstream speed (above) can achieve consistently during expected periods of heavy network usage</p> <p>(See Download Speed Tier table)</p> <p><i>Note: Value must be equal or greater than TypicUp speed</i></p>	Text	2	3

Field Name	Description	Data Type	Field Length	Example
TypicUp	<p>Speed tier code for the upstream data transfer throughput rate that most subscribers to service at the maximum advertised upstream speed (above) can achieve consistently during expected periods of heavy network usage</p> <p>(See Upload Speed Tier table)</p> <p><i>Note: Value must be equal or less than TypicDown speed</i></p>	Text	2	2

Technology of Transmission Codes
(Use in TransTech field)

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

Download Speed Tier Codes
(Use in MaxAdvDown, TypicDown fields)

3	Greater than or equal to 768 kbps and less than 1.5 mbps
4	Greater than or equal to 1.5 mbps and less than 3 mbps
5	Greater than or equal to 3 mbps and less than 6 mbps
6	Greater than or equal to 6 mbps and less than 10 mbps
7	Greater than or equal to 10 mbps and less than 25 mbps
8	Greater than or equal to 25 mbps and less than 50 mbps
9	Greater than or equal to 50 mbps and less than 100 mbps
10	Greater than or equal to 100 mbps and less than 1 gbps
11	Greater than or equal to 1 gbps

Upload Speed Tier Codes
(Use in MaxAdvUp, TypicUp fields)

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

Provider Type
(Use in Reseller field)

1	Broadband provider as described in the NOFA
2	Reseller
3	Others

Record Format for Service Overview by County

Field Name	Description	Data Type	Field Length	Example
Provider Identification Data				
ProvName	Provider Name	Text	200	ABC Co.
DBAName	“Doing-business-as” name	Text	200	Superfone, Inc.
FRN	Provider FCC Registration Number <i>(ONLY numbers no other characters)</i>	Text	10	0008402202
County Identification Data				
GeogUnitType	Geographic Unit Type <i>(please use CO which means County)</i>	Text	4	CO
StateCountyFIPS	5-digit Federal Information Processing Standard (FIPS) Code identifying individual States and individual Counties combined. Must include leading “0” if applicable. (see State County FIPS table)	Text	5	06073
Broadband Technology and Speed Data				
TransTech	Category of technology available for the provision of service at the address (See Technology of Transmission table)	Short Integer	2	10
MaxAdDown	Speed tier code for the maximum advertised downstream speed available (See Download Speed Tier table) <i>Note: Value must be equal or greater than MaxAdvUp speed</i>	Text	2	3
MaxAdvUp	Speed tier code for the maximum advertised upstream speed that is offered with the above maximum advertised downstream speed available	Text	2	2

Field Name	Description	Data Type	Field Length	Example
	<p>(See Upload Speed Tier table)</p> <p><i>Note: Value must be equal or less than MaxAdvDown speed</i></p>			
ARPU	Average Revenue Per User Speed Offering	Double	8	500
SWNomSpeed	Subscriber-weighted nominal speed (blended average rate in kbps) refer to formula below	Double	8	2753.3
StateAbbr	State Abbreviation	Text	2	CA

Technology of Transmission Codes
(Use in TransTech field)

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

Download Speed Tier Codes
(Use in MaxAdvDown field)

3	Greater than or equal to 768 kbps and less than 1.5 mbps
4	Greater than or equal to 1.5 mbps and less than 3 mbps
5	Greater than or equal to 3 mbps and less than 6 mbps
6	Greater than or equal to 6 mbps and less than 10 mbps
7	Greater than or equal to 10 mbps and less than 25 mbps
8	Greater than or equal to 25 mbps and less than 50 mbps
9	Greater than or equal to 50 mbps and less than 100 mbps
10	Greater than or equal to 100 mbps and less than 1 gbps
11	Greater than or equal to 1 gbps

Upload Speed Tier Codes
(Use in MaxAdvUp field)

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

Subscriber-Weighted Nominal Speed Formula
(used in SWNomSpeed field)

Here is information from the [NOFA](#) (page 52/63) on calculating Subscriber Weighted Nominal Speed.

7. A provider's subscriber-weighted nominal speed (in kbps) should be calculated as the sum of the products of the provider's advertised maximum download data transmission rate (in kbps) for each residential rate tier advertised by the provider in the county, times the average monthly number of residential subscribers receiving the advertised download transmission rate tier for the relevant reporting month (i.e., June or December, as applicable), divided by the average total number of residential subscribers for all the included data transmission rate tiers in the county for that month. This is expressed in the following formula:

$$\frac{(\text{speed tier-1 in kbps} \times \text{no. of tier-1 subscribers}) + (\text{speed tier-2 in kbps} \times \text{no. of tier-2 subscribers}) + \dots}{\text{total average monthly subscribers}}$$

For example, if the service provider offers two tiers of service with advertised maximum download speeds of 1500 kbps and 6000 kbps, calculate the product of 1500 kbps times the average monthly number of residential subscribers to the 1500 kbps speed tier plus the product of 6000 kbps times the average monthly number of residential subscribers to the 6000 kbps speed tier and divide the sum by the sum (or total) of the average monthly number of residential subscribers in both tiers.

State County FIPS Code
(Use in StateCountyFIPS field)

	GUnitName	StateCountyFIPS	GeoUnitType
1	Alameda	06001	CO
2	Alpine	06003	CO
3	Amador	06005	CO
4	Butte	06007	CO
5	Calaveras	06009	CO
6	Colusa	06011	CO
7	Contra Costa	06013	CO
8	Del Norte	06015	CO
9	El Dorado	06017	CO
10	Fresno	06019	CO
11	Glenn	06021	CO
12	Humboldt	06023	CO
13	Imperial	06025	CO
14	Inyo	06027	CO
15	Kern	06029	CO
16	Kings	06031	CO
17	Lake	06033	CO
18	Lassen	06035	CO
19	Los Angeles	06037	CO
20	Madera	06039	CO
21	Marin	06041	CO
22	Mariposa	06043	CO
23	Mendocino	06045	CO
24	Merced	06047	CO
25	Modoc	06049	CO
26	Mono	06051	CO
27	Monterey	06053	CO
28	Napa	06055	CO
29	Nevada	06057	CO
30	Orange	06059	CO
31	Placer	06061	CO
32	Plumas	06063	CO
33	Riverside	06065	CO
34	Sacramento	06067	CO
35	San Benito	06069	CO
36	San Bernardino	06071	CO
37	San Diego	06073	CO
38	San Francisco	06075	CO
39	San Joaquin	06077	CO
40	San Luis Obispo	06079	CO
41	San Mateo	06081	CO
42	Santa Barbara	06083	CO
43	Santa Clara	06085	CO
44	Santa Cruz	06087	CO

45	Shasta	06089	CO
46	Sierra	06091	CO
47	Siskiyou	06093	CO
48	Solano	06095	CO
49	Sonoma	06097	CO
50	Stanislaus	06099	CO
51	Sutter	06101	CO
52	Tehama	06103	CO
53	Trinity	06105	CO
54	Tulare	06107	CO
55	Tuolumne	06109	CO
56	Ventura	06111	CO
57	Yolo	06113	CO
58	Yuba	06115	CO