Attachment A

Format of Data

All data should be submitted in a .csv (comma-delimited) format. The sheets in the workbook provide a template for how the tables should be designed.
The required format for the entries in each column/field is indicated in the instructions for each sheet.
All entries in Text fields must be in quotation marks (e.g. "T-Mobile", "Sprint").
Column entries in **bold red** indicate that the party shall enter only one of the possible entries listed for that column. No other entries shall be entered.
Data for all of the tables shall be submitted on a periodic basis as specified in the instructions in individual tables.
In a separate written response, explain in detail the applicable methodology and assumptions used to derive all projections in response to this data request.

"Site Data" Table

For each year beginning December 2015 and extending through December 2024, provide, at the level of site ID, the following site and projected site data.
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column A:

Date

Description: The month for which the data is being collected as of the second week of the month.
Format of Field: Text - YYYY_MM
Possible Entries: **2015_12**
        2016_12
        2017_12
        2018_12
        2019_12
        2020_12
        2021_12
        2022_12
        2023_12
        2024_12

Column B:

Operator

Description: The operator of the site to which this data record applies. In cases where a Sprint site
    and T-Mobile site share the same tower or other supporting structure, each site shall be entered separately.
Format of Field: Text
Possible Entries: **"Sprint"**
        "T-Mobile"
        "New T-Mobile"

Column C:

Site ID

Description: A unique site ID for the site to which this data record applies.
Format of Field: Text
Example Entries: "AL0001", "VA0128", etc.

Column D:

Number of Sectors

Description: This field provides an integer representing the number of sectors this site utilizes.
Format of Field: Number - Integer
Example Entries: 1, 2, 3, etc.

Column E:

Latitude

Description: This field is the latitude of the site in decimal form to at least seven significant digits. Coordinates must be in the WGS84 geographic coordinate system.
Format of Field: Number - At least 6 decimal places
Example Entries: 40.7127837, etc.

Column F:

Longitude

Description: This field is the longitude of the site in decimal form to at least seven significant digits. Coordinates must be in the WGS84 geographic coordinate system.
Format of Field: Number - At least 6 decimal places
Example Entries: -74.0059413, etc.

"Site Data" Table

For each year beginning December 2015 and extending through December 2024, provide, at the level of site ID, the following site and projected site data.
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column G:

County FIPS

Description: This field is the 2010 five-digit FIPS code of the county in which the site is located.
     Please provide data for counties and county-equivalents in the United States and Commonwealth of Puerto Rico.
Format of Field: Text
Example Entries: "01001", "51059", etc.

Column H:

CMA

Description: This field represents the standard market number of the CMA in which the site is located.
     Please provide data for CMAs in the United States and Commonwealth of Puerto Rico.
Format of Field: Number - Integer
Possible Entries: **Integers 1 - 729**

Column I:

Site Type

Description: This field indicates the type of site to which the record applies using one of the possible entries listed below.
Format of Field: Text
Possible Entries:

"Macro_Tower"	An outdoor macrocell mounted on a monopole, guyed tower, or free standing tower
"Macro_Building"	An outdoor macrocell mounted on a building
"Macro_Other"	An outdoor macrocell that does not fit the previous categories (silo, water tower, etc.)
"Microcell"	An outdoor cell classified by the vendor as a microcell (much smaller coverage footprint than a macrocell)
"Picocell"	A cell classified by the vendor as a picocell (smaller coverage footprint than a microcell)
"Outdoor DAS"	An outdoor Distributed Antenna System
"Indoor DAS"	An indoor Distributed Antenna System
"Repeater"	A cell that repeats/boosts the signal of another cell
"Other"	A cell that does not meet any of the above descriptions

Column J:

Site Clutter Classification

Description: This field indicates the morphology of the area that the site serves using one of the possible entries listed below.
     Please provide a description of the methodology used to determine these classifications in a separate attachment.
Format of Field: Text
Possible Entries: **"Urban"**
     "Suburban"
     "Rural"

"Site Data" Table

For each year beginning December 2015 and extending through December 2024, provide, at the level of site ID, the following site and projected site data.
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column K:

Antenna Height - (Feet - AGL)

Description: This field indicates the antenna height above ground level in feet. Enter 9999 if not applicable.
Format of Field: Number
Example Entries: 100

Column L:

Site Height (Feet - ASL)

Description: This field indicates the antenna height above sea level in feet.
Format of Field: Number
Example Entries: 467

Column M:

Backhaul Medium

Description: The type of technology used for backhaul at this site using one of the possible entries listed below.
Format of Field: Text
Example Entries: "Fiber"
    "Copper"
    "Hybrid Fiber Coax (HFC)"
    "Fixed Wireless"
    "Satellite"

Column N:

Backhaul Capacity - Incoming (Gbps)

Description: Provisioned Capacity: One-way provisioned capacity of backhaul link in Gbps given capabilities of existing HW - incoming to the base station
Format of Field: Number

Column O:

Backhaul Capacity - Outgoing (Gbps)

Description: Provisioned Capacity: One-way provisioned capacity of backhaul link in Gbps given capabilities of exisiting HW - outgoing from the base station
Format of Field: Number

Column P:

Latency (ms.)

Description: Service Level Agreement Latency in miliseconds (round-trip)
Format of Field: Number
Example Entries: 10 ms.

"Site Data" Table

For each year beginning December 2015 and extending through December 2024, provide, at the level of site ID, the following site and projected site data.
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column Q:

Max. Upgradable Backhaul Capacity - Incoming (Gbps)

Description: Max. Upgradable Capacity: One-way maximum capacity of backhaul link in Gbps given capabilities of upgradable HW - incoming to the base station
Format of Field: Number

Column R:

Max. Upgradable Backhaul Capacity - Outgoing (Gbps)

Description: Max. Upgradable Capacity: One-way maximum capacity of backhaul link in Gbps given capabilities of upgradable HW - outgoing from the base station
Format of Field: Number

Column S:

BBH DL Speed (Mbps)

Description: Average user dowload speed (Mbps) during the bouncing busy hour (BBH) for the site
                   The BBH traffic should be the five-day (weekday) average.
Format of Field: Number
Example Entries: 10 Mbps

Column T:

BBH UL Speed (Mbps)

Description: Average user upload speed (Mbps) during the bouncing busy hour (BBH) for the site
                   The BBH traffic should be the five-day (weekday) average.
Format of Field: Number
Example Entries: 2 Mbps

"Site Data" Table

For each year beginning December 2015 and extending through December 2024, provide, at the level of site ID, the following site and projected site data.
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column U:
Retained Site for New T-Mobile

Description:	Will this site be retained for the New T-Mobile network?
Format of Field:	Text
Possible Entries:	**"Y"**
	"N"

Column V:
Remaining Lease Time (months)

Description:	How many remaining months before this site current lease expires
	If this site is owned by the applicants, enter 9999
Format of Field:	Number
Example Entries:	60 Months

Column W:
Applicants Colocated

Description:	Are applicants colocated on the same site?
Format of Field:	Text
Possible Entries:	**"Y"**
	"N"

Column X:
600 MHz Available (MHz)

Description:	The total amount of spectrum (MHz) available for this band (Downlink + Uplink)
Format of Field:	Number
Example Entries:	10

Column Y:
700 MHz Available (MHz)

Description:	The total amount of spectrum (MHz) available for this band (Downlink + Uplink)
Format of Field:	Number
Example Entries:	10

Column Z:
800 MHz Available (MHz)

Description:	The total amount of spectrum (MHz) available for this band (Downlink + Uplink)
Format of Field:	Number
Example Entries:	10

Column AA
PCS Available (MHz)

Description:	The total amount of spectrum (MHz) available for this band (Downlink + Uplink)
Format of Field:	Number
Example Entries:	10

"Site Data" Table

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Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column AB | **AWS Available (MHz)**

Description: The total amount of spectrum (MHz) available for this band (Downlink + Uplink)
Format of Field: Number
Example Entries: 10

Column AC | **BRS Available (MHz)**

Description: The total amount of spectrum (MHz) available for this band (Downlink + Uplink)
Format of Field: Number
Example Entries: 10

Column AD | **EBS Available (MHz)**

Description: The total amount of spectrum (MHz) available for this band (Downlink + Uplink)
Format of Field: Number
Example Entries: 10

Column AE | **mmWave Available (MHz)**

Description: The total amount of spectrum (MHz) available for the 24, 28, 39, and 47 GHz bands (Downlink + Uplink)
Format of Field: Number
Example Entries: 100

Date	Operator	Site ID	Number of Sectors	Latitude	Longitude	County FIPS	CMA	Site Type	Site Clutter Classification	Antenna Height - (Feet - AGL)

Site Height (Feet - ASL)	Backhaul Medium	Backhaul Capacity - Incoming (Gbps)	Backhaul Capacity - Outgoing (Gbps)	Latency (ms.)	Max. Upgradable Backhaul Capacity - Incoming (Gbps)	Max. Upgradable Backhaul Capacity - Outgoing (Gbps)	BBH DL Speed (Mbps)	BBH UL Speed (Mbps)	Retained Site for New T-Mobile	Remaining Lease Time (months)

Applicants Colocated	600 MHz Available (MHz)	700 MHz Available (MHz)	800 MHz Available (MHz)	PCS Available (MHz)	AWS Available (MHz)	BRS Available (MHz)	EBS Available (MHz)	mmWave Available (MHz)

"Deployed Carriers" Table

For each year beginning December 2015 and extending through December 2024, provide at the level of carrier the following deployed or projected carriers da
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The term "carrier" refers to channels or portions of spectrum used in the network rather than operators or service providers.
In general, this table should contain one row for each carrier/channel deployed or projected at each sector.
Because sites and sectors can include multiple carriers/channels, the same site/sector ID may appear in multiple rows.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column A:

Date

Description: The month for which the data is being collected as of the second week of the month.
Format of Field: Text - YYYY_MM
Possible Entries: **2015_12**
     2016_12
     2017_12
     2018_12
     2019_12
     2020_12
     2021_12
     2022_12
     2023_12
     2024_12

Column B:

Operator

Description: The operator of the site to which this data record applies. In cases where a Sprint site
     and T-Mobile site share the same tower or other supporting structure, each site shall be entered separately.
Format of Field: Text
Possible Entries: **"Sprint"**
     "T-Mobile"
     "New T-Mobile"

"Deployed Carriers" Table

For each year beginning December 2015 and extending through December 2024, provide at the level of carrier the following deployed or projected carriers da
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In general, this table should contain one row for each carrier/channel deployed or projected at each sector.
Because sites and sectors can include multiple carriers/channels, the same site/sector ID may appear in multiple rows.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column C:

Site ID

Description: The unique site ID from the "Site Data" table for the site to which this data record applies.
Format of Field: Text
Example Entries: "AL0001", "VA0128", etc.

Column D:

Sector ID

Description: A unique sector ID for the sector to which this data record applies, created by adding a suffix to the site ID.
Format of Field: Text
Example Entries: Suffix examples include "A","B","C" or "1","2","3"

Column E:

Deployed Technology

Description: This field indicates the technology standard used by the channel/carrier described in this record.
Format of Field: Text
Possible Entries:

"1X"	A carrier/channel that supports 1X CDMA
"EVDO"	A carrier/channel that supports EVDO
"GSM"	A carrier/channel that supports GSM
"HSPA"	A carrier/channel that supports HSPA or HSPA+
"LTE-R8"	A LTE carrier conforming to 3GPP Release 8
"LTE-R10"	A LTE carrier conforming to 3GPP Release 10
"LTE-R12"	A LTE carrier conforming to 3GPP Release 12
"LTE-R13"	A LTE carrier conforming to 3GPP Release 13
"LTE-LAA"	A LTE Licensed Assisted Access supplemental downlink carrier
"5G-R15"	A 5G-NR carrier conforming to 3GPP Release 15
"5G-R16"	A 5G-NR carrier conforming to 3GPP Release 16
"5G-R17"	A 5G-NR carrier conforming to 3GPP Release 17
"Fixed-Wireless"	A carrier used for fixed wireless deployment
"NB-IoT"	Narrowband IoT
"List Other"	Specify a technology that does not conform to one of the technologies listed above

"Deployed Carriers" Table

For each year beginning December 2015 and extending through December 2024, provide at the level of carrier the following deployed or projected carriers da
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The term "carrier" refers to channels or portions of spectrum used in the network rather than operators or service providers.
In general, this table should contain one row for each carrier/channel deployed or projected at each sector.
Because sites and sectors can include multiple carriers/channels, the same site/sector ID may appear in multiple rows.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column F:

Deployed Spectrum Band

Description:	The frequency band in which the channel/carrier in this data record operates.
Format of Field:	Text
Possible Entries:	**"600 MHz"** The 600 MHz band
	"700 MHz" The 700 MHz band
	"800 MHz" The 800 MHz band
	"PCS" The PCS band
	"AWS" The AWS band
	"BRS" The BRS band
	"EBS" The EBS band
	"mmWave" The 24, 28, 39, and 47 GHz mmWave bands

Column G:

DL RF Carrier Center Freq. (MHz)

Description:	This field contains the unrounded center frequency in MHz of the downlink carrier described in this record.
	If the carrier is TDD, then enter the center frequency of the TDD carrier
Format of Field:	Number
Example Entries:	1937.5, 2142.625, etc.

Column H:

DL RF Carrier Bandwidth (MHz)

Description:	This field contains the bandwidth in MHz of the downlink RF carrier described in this record
	If carrier aggregation is used, each component carrier is an entry with the traffic distributed accordingly
	If the carrier is TDD, then enter the entire bandwidth of the TDD carrier
Format of Field:	Number
Example Entries:	1.25 **Carrier = 1X**
	1.25 **Carrier = EVDO**
	0.2 **Carrier = GSM**
	5 **Carrier = HSPA**
	5 **Carrier = LTE**
	10 **Carrier = LTE**
	15 **Carrier = LTE**
	20 **Carrier = LTE**
	60 **Carrier = 5G**
	Carrier = Other

"Deployed Carriers" Table

For each year beginning December 2015 and extending through December 2024, provide at the level of carrier the following deployed or projected carriers da
Projected data shall include as separate entries plans for the standalone Applicants and those for New T-Mobile.
The term "carrier" refers to channels or portions of spectrum used in the network rather than operators or service providers.
In general, this table should contain one row for each carrier/channel deployed or projected at each sector.
Because sites and sectors can include multiple carriers/channels, the same site/sector ID may appear in multiple rows.
The site IDs in this table shall correspond to the site IDs entered in the other requested tables.

Column I: **Sector Az**
Description: Azimuth of the antenna sector orientation in degrees
Format of Field: Number
Example Entries: 0
                                     120

Column J: **Carrier Active**
Description: This field is used to indicate whether a carrier is actively carrying customer traffic.
Format of Field: Text
Possible Entries: **"Y"**   Indicates that the carrier is carrying commercial traffic generated by paying customers
                        "N"   Indicates that the carrier is not yet deployed, used for test or trial purposes, or turned off

Column K: **BBH DL Carried Traffic (Gbytes/Hr)**
Description: Base to mobile carried traffic (data+voice) in Gbytes during the bouncing busy hour (BBH) for the deployed RF carrier
                        The BBH traffic should be the five-day (weekday) average.
                        For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field: Number
Example Entries: 75 Gbytes/Hr

Column L: **BBH UL Carried Traffic (Gbytes/Hr)**
Description: Mobile to Base carried traffic (data+voice) in Gbytes during the bouncing busy hour (BBH) for the deployed RF carrier
                        The BBH traffic should be the five-day (weekday) average.
                        For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field: Number
Example Entries: 20 Gbytes/Hr

Date	Operator	Site ID	Sector ID	Deployed Technology	Deployed Spectrum Band	DL RF Carrier Center Freq. (MHz)	DL RF Carrier Bandwidth (MHz)	Sector Az (deg.)	Carrier Active	BBH DL Carried Traffic (Gbytes/Hr)	BBH UL Carried Traffic (Gbytes/hr)

Deployed Carriers Template

"Offered Capacity" Table

For each quarter beginning 2015_Q1 and extending through 2018_Q2, and for each year thereafter extending to 2024, please provide at the level of technology/spectrum band the following offered capacity data at the county level, and for the United States, including the Commonwealth of Puerto Rico. Projected data shall include as separate entries capacity projections for the standalone Applicants and those for New T-Mobile.

Column A: | **Date** |

Description: The month for which the offered capacity data is being collected or projected.
                 as of the second week of the month.
Format of Field: Text - YYYY_MM
Possible Entries: **2015_03   2018_12**
                      2015_06   2019_12
                      2015_09   2020_12
                      2015_12   2021_12
                      2016_03   2022_12
                      2016_06   2023_12
                      2016_09   2024_12
                      2016_12   2021_12
                      2017_03   2022_12
                      2017_06   2023_12
                      2017_09   2024_12
                      2017_12
                      2018_03
                      2018_06

Column B: | **Operator** |

Description: The operator of the site to which this data record applies. In cases where a Sprint site
                 and a T-Mobile site share the same tower or other supporting structure, each site shall be entered separately.
Format of Field: Text
Possible Entries: **"Sprint"**
                      "T-Mobile"
                      "New T-Mobile"

Column C: | **County FIPS** |

Description: This field is the 2010 five-digit FIPS code of the county in which the site is located.
                 Please provide data for counties and county-equivalents in the United States and Commonwealth of Puerto Rico.
Format of Field: Text
Example Entries: "01001", "51059", etc.

Column D: | **CMA** |

Description: This field represents the standard market number of the CMA in which the site is located.
                 Please provide data for CMAs in the United States and Commonwealth of Puerto Rico.
Format of Field: Number - Integer
Possible Entries: **Integers 1 - 729**

"Offered Capacity" Table

For each quarter beginning 2015_Q1 and extending through 2018_Q2, and for each year thereafter extending to 2024, please provide at the level of technology/spectrum band the following offered capacity data at the county level, and for the United States, including the Commonwealth of Puerto Rico. Projected data shall include as separate entries capacity projections for the standalone Applicants and those for New T-Mobile.

Column E: **Technology**

Description:	This field indicates the technology standard used by the channel/carrier described in this record.
Format of Field:	Text

Possible Entries:

"1X"	A carrier/channel that supports 1X CDMA
"EVDO"	A carrier/channel that supports EVDO
"GSM"	A carrier/channel that supports GSM
"HSPA"	A carrier/channel that supports HSPA or HSPA+
"LTE-R8"	A LTE carrier conforming to 3GPP Release 8
"LTE-R10"	A LTE carrier conforming to 3GPP Release 10
"LTE-R12"	A LTE carrier conforming to 3GPP Release 12
"LTE-R13"	A LTE carrier conforming to 3GPP Release 13
"LTE-LAA"	A LTE Licensed Assisted Access supplemental downlink carrier
"5G-R15"	A 5G-NR carrier conforming to 3GPP Release 15
"5G-R16"	A 5G-NR carrier conforming to 3GPP Release 16
"5G-R17"	A 5G-NR carrier conforming to 3GPP Release 17
"Fixed-Wireless"	A carrier used for fixed wireless deployment
"NB-IoT"	Narrowband IoT
"List Other"	Specify a technology that does not conform to one of the technologies listed above

Column F: **Spectrum Band**

Description:	The frequency band in which the channel/carrier in this data record operates.
Format of Field:	Text

Possible Entries:

"600 MHz"	The 600 MHz band
"700 MHz"	The 700 MHz band
"800 MHz"	The 800 MHz band
"PCS"	The PCS band
"AWS"	The AWS band
"BRS"	The BRS band
"EBS"	The EBS band
"mmWave"	The 24, 28, 39, and 47 GHz mmWave bands

"Offered Capacity" Table

For each quarter beginning 2015_Q1 and extending through 2018_Q2, and for each year thereafter extending to 2024, please provide at the level of technology/spectrum band the following offered capacity data at the county level, and for the United States, including the Commonwealth of Puerto Rico. Projected data shall include as separate entries capacity projections for the standalone Applicants and those for New T-Mobile.

Column G:

DL+UL Bandwidth (MHz)

Description:	This field contains the downlink and uplink combined bandwidth (MHz) in operation for the spectrum band
Format of Field:	Number
Example Entries:	10 Carrier = LTE
	20 Carrier = LTE

Column H:

BBH DL Offered Capacity (Gbytes/Hr)

Description:	Collected or projected base station to mobile offered traffic (data+voice) in Gbytes during the bouncing busy hour (BBH) for the combine
	The BBH traffic should be the five-day (weekday) average.
	For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field:	Number
Example Entries:	75 Gbytes/Hr

Column I:

BBH UL Offered Capacity (Gbytes/Hr)

Description:	Collected or projected mobile to base station offered traffic (data+voice) in Gbytes during the bouncing busy hour (BBH) for the combine
	The BBH traffic should be the five-day (weekday) average.
	For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field:	Number
Example Entries:	20 Gbytes/Hr

Column J:

Latency (ms.)

Description:	Collected or projected network latency (round-trip) in miliseconds
Format of Field:	Number
Example Entries:	70 ms.

Date	Operator	County	CMA	Technology	Spectrum Band	DL+UL Bandwidth (MHz)	BBH DL Offered Capacity (Gbytes/Hr)	BBH UL Offered Capacity (Gbytes/Hr)	Latency (ms.)

Offered Capacity Template

"Traffic Demand" Table

For each quarter beginning 2015_Q1 and extending through 2018_Q2, and for each year thereafter extending to 2024, please provide for each county in the United States and the Commonwealth of Puerto Rico and each technology the following traffic data.
Projected data shall include as separate entries traffic projections for the standalone Applicants and those for New T-Mobile.

Column A: | **Date** |

Description: The month for which the traffic demand or carried traffic is being projected.
    as of the second week of the month.
Format of Field: Text - YYYY_MM
Possible Entries:

2015_03	**2018_12**
2015_06	**2019_12**
2015_09	**2020_12**
2015_12	**2021_12**
2016_03	**2022_12**
2016_06	**2023_12**
2016_09	**2024_12**
2016_12	**2021_12**
2017_03	**2022_12**
2017_06	**2023_12**
2017_09	**2024_12**
2017_12	
2018_03	
2018_06	

Column B: | **Operator** |

Description: The operator of the site to which this data record applies. In cases where an Sprint site
    and T-Mobile site share the same tower or other supporting structure, each site shall be entered separately.
Format of Field: Text
Possible Entries: **"Sprint"**
    "T-Mobile"
    "New T-Mobile"

Column C: | **County FIPS** |

Description: This field is the 2010 five-digit FIPS code of the county in which the site is located.
    Please provide data for counties and county-equivalents in the United States and Commonwealth of Puerto Rico.
Format of Field: Text
Example Entries: "01001", "51059", etc.

"Traffic Demand" Table

For each quarter beginning 2015_Q1 and extending through 2018_Q2, and for each year thereafter extending to 2024, please provide for each county in the United States and the Commonwealth of Puerto Rico and each technology the following traffic data.
Projected data shall include as separate entries traffic projections for the standalone Applicants and those for New T-Mobile.

Column D: | **CMA** |
| --- |

Description:	This field represents the standard market number of the CMA in which the site is located.
	Please provide data for CMAs in the United States and Commonwealth of Puerto Rico.
Format of Field:	Number - Integer
Possible Entries:	**Integers 1 - 729**

Column E: | **Technology** |
| --- |

Description:	This field indicates the technology standard of this record.	
Format of Field:	Text	
Possible Entries:	**"1X"**	A carrier/channel that supports 1X CDMA
	"EVDO"	A carrier/channel that supports EVDO
	"GSM"	A carrier/channel that supports GSM
	"HSPA"	A carrier/channel that supports HSPA or HSPA+
	"LTE-R8"	A LTE carrier conforming to 3GPP Release 8
	"LTE-R10"	A LTE carrier conforming to 3GPP Release 10
	"LTE-R12"	A LTE carrier conforming to 3GPP Release 12
	"LTE-R13"	A LTE carrier conforming to 3GPP Release 13
	"LTE-LAA"	A LTE Licensed Assisted Access supplemental downlink carrier
	"5G-R15"	A 5G-NR carrier conforming to 3GPP Release 15
	"5G-R16"	A 5G-NR carrier conforming to 3GPP Release 16
	"5G-R17"	A 5G-NR carrier conforming to 3GPP Release 17
	"Fixed-Wireless"	A carrier used for fixed wireless deployment
	"NB-IoT"	Narrowband IoT
	"List Other"	Specify a technology that does not conform to one of the technologies listed above

Column F: | **Subscribers** |
| --- |

Description:	The number of subscribers with the technology standard in the county
Format of Field:	Number
Example Entries:	22,000

Column G: | **BBH DL Traffic Demand (Gbytes/Hr)** |
| --- |

Description:	Collected or projected base station to mobile traffic (data+voice) demand in Gbytes/Hr during the bouncing busy hour (BBH) for the county and tech
	The BBH traffic should be the five-day (weekday) average.
	For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field:	Number
Example Entries:	15,000 Gbytes/Hr

Column H: | **BBH UL Traffic Demand (Gbytes/Hr)** |
| --- |

Description:	Collected or projected mobile to base station traffic (data+voice) demand in Gbytes/Hr during the bouncing busy hour (BBH) for the county and techr
	The BBH traffic should be the five-day (weekday) average.
	For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field:	Number
Example Entries:	3,000 Gbytes/Hr

"Traffic Demand" Table

For each quarter beginning 2015_Q1 and extending through 2018_Q2, and for each year thereafter extending to 2024, please provide for each
county in the United States and the Commonwealth of Puerto Rico and each technology the following traffic data.
Projected data shall include as separate entries traffic projections for the standalone Applicants and those for New T-Mobile.

Column I:

BBH DL Speed (Mbps)

Description: Average user dowload speed (Mbps) during the bouncing busy hour (BBH) for the county and technology
The BBH traffic should be the five-day (weekday) average.
Format of Field: Number
Example Entries: 5 Mbps

Column J:

BBH UL Speed (Mbps)

Description: Average user upload speed (Mbps) during the bouncing busy hour (BBH) for the county and technology
The BBH traffic should be the five-day (weekday) average.
Format of Field: Number
Example Entries: 1 Mbps

Column K:

BBH Latency (Ms)

Description: Average latency (round-trip) in milliseconds during the bouncing busy hour (BBH) for the county and technology
The BBH traffic should be the five-day (weekday) average.
Format of Field: Number
Example Entries: 80 ms.

Column L:

Avg DL Traffic Demand (Gbytes/Hr)

Description: Collected or projected average base station to mobile traffic (data+voice) demand in Gbytes/Hr over the course of a 24-hour day,
as a montly average, including weekends, for the county and technology
For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field: Number
Example Entries: 5,000 Gbytes/Hr

Column M:

Avg UL Traffic Demand (Gbytes/Hr)

Description: Collected or projected average mobile to base station traffic (data+voice) demand in Gbytes/Hr over the course of a 24-hour day,
as a montly average, including weekends, for the county and technology
For predominantly voice technologies such as GSM and 1X CDMA, the traffic unit shall be in Erlangs
Format of Field: Number
Example Entries: 1,000 Gbytes/Hr

"Traffic Demand" Table

For each quarter beginning 2015_Q1 and extending through 2018_Q2, and for each year thereafter extending to 2024, please provide for each county in the United States and the Commonwealth of Puerto Rico and each technology the following traffic data.
Projected data shall include as separate entries traffic projections for the standalone Applicants and those for New T-Mobile.

Column N: **Avg DL Speed (Mbps)**

Description:	Average user dowload speed (Mbps) over the course of a 24-hour day as a montly average, including weekends, for the county and technology
Format of Field:	Number
Example Entries:	22 Mbps

Column O: **Avg UL Speed (Mbps)**

Description:	Average user upload speed (Mbps) over the course of a 24-hour day as a montly average, including weekends, for the county and technology
Format of Field:	Number
Example Entries:	6 Mbps

Column P: **Avg Latency (Ms)**

Description:	Average user latency (round-trip) in milliseconds over the course of a 24-hour day as a montly average, including weekends, for the county and techi
Format of Field:	Number
Example Entries:	70 ms.

Column Q: **Data Blocking Rate (%)**

Description:	The percentage of data requests that were blocked or failed to connect as a montly average, including weekends, for the county and technology
Format of Field:	Number - at least 4 decimal points
Example Entries:	0.0179

Column R: **Dropped Calls Rate (%)**

Description:	The percentage of calls that were dropped as a montly average, including weekends, for the county and technology
Format of Field:	Number - at least 4 decimal points
Example Entries:	0.0024

Column S: **Blocked Call Rate (%)**

Description:	The percentage of call requests that were blocked or failed to connect as a montly average, including weekends, for the county and technology
Format of Field:	Number - at least 4 decimal points
Example Entries:	0.0024

Date	Operator	County	CMA	Technology	Subscribers	BBH DL Traffic Demand (Gbytes/Hr)	BBH UL Traffic Demand (Gbytes/Hr)	BBH DL Speed (Mbps)

BBH UL Speed (Mbps)	BBH Latency (Ms)	Avg DL Traffic Demand (Gbytes/Hr)	Avg UL Traffic Demand (Gbytes/Hr)	Avg DL Speed (Mbps)	Avg UL Speed (Mbps)	Avg Latency (Ms)	Data Blocking Rate (%)	Dropped Calls Rate (%)	Blocked Call Rate (%)