

## 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: 

<b>Date</b>
-------------

*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: 

<b>Operator</b>
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*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: 

<b>Site ID</b>
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*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: 

<b>Number of Sectors</b>
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*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: 

<b>Latitude</b>
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*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: 

<b>Longitude</b>
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*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 existing HW - outgoing from the base station  
*Format of Field:* Number

Column P: **Latency (ms.)**

*Description:* Service Level Agreement Latency in milliseconds (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:	<b>Max. Upgradable Backhaul Capacity - Incoming (Gbps)</b>	<i>Description:</i> Max. Upgradable Capacity: One-way maximum capacity of backhaul link in Gbps given capabilities of upgradable HW - incoming to the base station <i>Format of Field:</i> Number
Column R:	<b>Max. Upgradable Backhaul Capacity - Outgoing (Gbps)</b>	<i>Description:</i> Max. Upgradable Capacity: One-way maximum capacity of backhaul link in Gbps given capabilities of upgradable HW - outgoing from the base station <i>Format of Field:</i> Number
Column S:	<b>BBH DL Speed (Mbps)</b>	<i>Description:</i> Average user download speed (Mbps) during the bouncing busy hour (BBH) for the site The BBH traffic should be the five-day (weekday) average. <i>Format of Field:</i> Number <i>Example Entries:</i> 10 Mbps
Column T:	<b>BBH UL Speed (Mbps)</b>	<i>Description:</i> Average user upload speed (Mbps) during the bouncing busy hour (BBH) for the site The BBH traffic should be the five-day (weekday) average. <i>Format of Field:</i> Number <i>Example Entries:</i> 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:	<b>Retained Site for New T-Mobile</b>	<i>Description:</i> Will this site be retained for the New T-Mobile network? <i>Format of Field:</i> Text <i>Possible Entries:</i> "Y" "Y" "N"
Column V:	<b>Remaining Lease Time (months)</b>	<i>Description:</i> How many remaining months before this site current lease expires If this site is owned by the applicants, enter 9999  <i>Format of Field:</i> Number  <i>Example Entries:</i> 60 Months
Column W:	<b>Applicants Colocated</b>	<i>Description:</i> Are applicants colocated on the same site? <i>Format of Field:</i> Text <i>Possible Entries:</i> "Y" "N"
Column X:	<b>600 MHz Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for this band (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 10
Column Y:	<b>700 MHz Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for this band (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 10
Column Z:	<b>800 MHz Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for this band (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 10
Column AA:	<b>PCS Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for this band (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 10

## "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 AB	<b>AWS Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for this band (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 10
Column AC	<b>BRS Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for this band (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 10
Column AD	<b>EBS Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for this band (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 10
Column AE	<b>mmWave Available (MHz)</b>	<i>Description:</i> The total amount of spectrum (MHz) available for the 24, 28, 39, and 47 GHz bands (Downlink + Uplink) <i>Format of Field:</i> Number <i>Example Entries:</i> 100







## "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 data. 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 data. 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 C:	<b>Site ID</b>																															
	<i>Description:</i>	The unique site ID from the "Site Data" table for the site to which this data record applies.																														
	<i>Format of Field:</i>	Text																														
	<i>Example Entries:</i>	"AL0001", "VA0128", etc.																														
Column D:	<b>Sector ID</b>																															
	<i>Description:</i>	A unique sector ID for the sector to which this data record applies, created by adding a suffix to the site ID.																														
	<i>Format of Field:</i>	Text																														
	<i>Example Entries:</i>	Suffix examples include "A","B","C" or "1","2","3"																														
Column E:	<b>Deployed Technology</b>																															
	<i>Description:</i>	This field indicates the technology standard used by the channel/carrier described in this record.																														
	<i>Format of Field:</i>	Text																														
	<b>Possible Entries:</b>	<table border="0" style="margin-left: 20px;"> <tr> <td style="padding-right: 10px;"><b>"1X"</b></td> <td>A carrier/channel that supports 1X CDMA</td> </tr> <tr> <td style="padding-right: 10px;"><b>"EVDO"</b></td> <td>A carrier/channel that supports EVDO</td> </tr> <tr> <td style="padding-right: 10px;"><b>"GSM"</b></td> <td>A carrier/channel that supports GSM</td> </tr> <tr> <td style="padding-right: 10px;"><b>"HSPA"</b></td> <td>A carrier/channel that supports HSPA or HSPA+</td> </tr> <tr> <td style="padding-right: 10px;"><b>"LTE-R8"</b></td> <td>A LTE carrier conforming to 3GPP Release 8</td> </tr> <tr> <td style="padding-right: 10px;"><b>"LTE-R10"</b></td> <td>A LTE carrier conforming to 3GPP Release 10</td> </tr> <tr> <td style="padding-right: 10px;"><b>"LTE-R12"</b></td> <td>A LTE carrier conforming to 3GPP Release 12</td> </tr> <tr> <td style="padding-right: 10px;"><b>"LTE-R13"</b></td> <td>A LTE carrier conforming to 3GPP Release 13</td> </tr> <tr> <td style="padding-right: 10px;"><b>"LTE-LAA"</b></td> <td>A LTE Licensed Assisted Access supplemental downlink carrier</td> </tr> <tr> <td style="padding-right: 10px;"><b>"5G-R15"</b></td> <td>A 5G-NR carrier conforming to 3GPP Release 15</td> </tr> <tr> <td style="padding-right: 10px;"><b>"5G-R16"</b></td> <td>A 5G-NR carrier conforming to 3GPP Release 16</td> </tr> <tr> <td style="padding-right: 10px;"><b>"5G-R17"</b></td> <td>A 5G-NR carrier conforming to 3GPP Release 17</td> </tr> <tr> <td style="padding-right: 10px;"><b>"Fixed-Wireless"</b></td> <td>A carrier used for fixed wireless deployment</td> </tr> <tr> <td style="padding-right: 10px;"><b>"NB-IoT"</b></td> <td>Narrowband IoT</td> </tr> <tr> <td style="padding-right: 10px;"><b>"List Other"</b></td> <td>Specify a technology that does not conform to one of the technologies listed above</td> </tr> </table>	<b>"1X"</b>	A carrier/channel that supports 1X CDMA	<b>"EVDO"</b>	A carrier/channel that supports EVDO	<b>"GSM"</b>	A carrier/channel that supports GSM	<b>"HSPA"</b>	A carrier/channel that supports HSPA or HSPA+	<b>"LTE-R8"</b>	A LTE carrier conforming to 3GPP Release 8	<b>"LTE-R10"</b>	A LTE carrier conforming to 3GPP Release 10	<b>"LTE-R12"</b>	A LTE carrier conforming to 3GPP Release 12	<b>"LTE-R13"</b>	A LTE carrier conforming to 3GPP Release 13	<b>"LTE-LAA"</b>	A LTE Licensed Assisted Access supplemental downlink carrier	<b>"5G-R15"</b>	A 5G-NR carrier conforming to 3GPP Release 15	<b>"5G-R16"</b>	A 5G-NR carrier conforming to 3GPP Release 16	<b>"5G-R17"</b>	A 5G-NR carrier conforming to 3GPP Release 17	<b>"Fixed-Wireless"</b>	A carrier used for fixed wireless deployment	<b>"NB-IoT"</b>	Narrowband IoT	<b>"List Other"</b>	Specify a technology that does not conform to one of the technologies listed above
<b>"1X"</b>	A carrier/channel that supports 1X CDMA																															
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## "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 data. 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:	<b>Deployed Spectrum Band</b>																					
	<i>Description:</i>	The frequency band in which the channel/carrier in this data record operates.																				
	<i>Format of Field:</i>	Text																				
	<i>Possible Entries:</i>	<table border="0"> <tr> <td style="padding-right: 20px;"><b>"600 MHz"</b></td> <td>The 600 MHz band</td> </tr> <tr> <td><b>"700 MHz"</b></td> <td>The 700 MHz band</td> </tr> <tr> <td><b>"800 MHz"</b></td> <td>The 800 MHz band</td> </tr> <tr> <td><b>"PCS"</b></td> <td>The PCS band</td> </tr> <tr> <td><b>"AWS"</b></td> <td>The AWS band</td> </tr> <tr> <td><b>"BRS"</b></td> <td>The BRS band</td> </tr> <tr> <td><b>"EBS"</b></td> <td>The EBS band</td> </tr> <tr> <td><b>"mmWave"</b></td> <td>The 24, 28, 39, and 47 GHz mmWave bands</td> </tr> </table>	<b>"600 MHz"</b>	The 600 MHz band	<b>"700 MHz"</b>	The 700 MHz band	<b>"800 MHz"</b>	The 800 MHz band	<b>"PCS"</b>	The PCS band	<b>"AWS"</b>	The AWS band	<b>"BRS"</b>	The BRS band	<b>"EBS"</b>	The EBS band	<b>"mmWave"</b>	The 24, 28, 39, and 47 GHz mmWave bands				
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<b>"EBS"</b>	The EBS band																					
<b>"mmWave"</b>	The 24, 28, 39, and 47 GHz mmWave bands																					
Column G:	<b>DL RF Carrier Center Freq. (MHz)</b>																					
	<i>Description:</i>	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																				
	<i>Format of Field:</i>	Number																				
	<i>Example Entries:</i>	1937.5, 2142.625, etc.																				
Column H:	<b>DL RF Carrier Bandwidth (MHz)</b>																					
	<i>Description:</i>	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																				
	<i>Format of Field:</i>	Number																				
	<i>Example Entries:</i>	<table border="0"> <tr> <td style="padding-right: 20px;">1.25</td> <td><b>Carrier = 1X</b></td> </tr> <tr> <td>1.25</td> <td><b>Carrier = EVDO</b></td> </tr> <tr> <td>0.2</td> <td><b>Carrier = GSM</b></td> </tr> <tr> <td>5</td> <td><b>Carrier = HSPA</b></td> </tr> <tr> <td>5</td> <td><b>Carrier = LTE</b></td> </tr> <tr> <td>10</td> <td><b>Carrier = LTE</b></td> </tr> <tr> <td>15</td> <td><b>Carrier = LTE</b></td> </tr> <tr> <td>20</td> <td><b>Carrier = LTE</b></td> </tr> <tr> <td>60</td> <td><b>Carrier = 5G</b></td> </tr> <tr> <td></td> <td><b>Carrier = Other</b></td> </tr> </table>	1.25	<b>Carrier = 1X</b>	1.25	<b>Carrier = EVDO</b>	0.2	<b>Carrier = GSM</b>	5	<b>Carrier = HSPA</b>	5	<b>Carrier = LTE</b>	10	<b>Carrier = LTE</b>	15	<b>Carrier = LTE</b>	20	<b>Carrier = LTE</b>	60	<b>Carrier = 5G</b>		<b>Carrier = Other</b>
1.25	<b>Carrier = 1X</b>																					
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60	<b>Carrier = 5G</b>																					
	<b>Carrier = Other</b>																					

## "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 data. 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



## "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: 

<b>Date</b>
-------------

*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: 

<b>Operator</b>
-----------------

*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: 

<b>County FIPS</b>
--------------------

*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: 

<b>CMA</b>
------------

*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**

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

<i>Description:</i>	The frequency band in which the channel/carrier in this data record operates.	
<i>Format of Field:</i>	Text	
<i>Possible Entries:</i>	"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 milliseconds

*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.)

## "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: 

<b>Date</b>
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*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: 

<b>Operator</b>
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*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: 

<b>County FIPS</b>
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*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 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:* 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:	<b>BBH DL Speed (Mbps)</b>	<i>Description:</i> Average user download speed (Mbps) during the bouncing busy hour (BBH) for the county and technology The BBH traffic should be the five-day (weekday) average. <i>Format of Field:</i> Number <i>Example Entries:</i> 5 Mbps
Column J:	<b>BBH UL Speed (Mbps)</b>	<i>Description:</i> 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. <i>Format of Field:</i> Number <i>Example Entries:</i> 1 Mbps
Column K:	<b>BBH Latency (Ms)</b>	<i>Description:</i> 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. <i>Format of Field:</i> Number <i>Example Entries:</i> 80 ms.
Column L:	<b>Avg DL Traffic Demand (Gbytes/Hr)</b>	<i>Description:</i> 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 monthly 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 <i>Format of Field:</i> Number <i>Example Entries:</i> 5,000 Gbytes/Hr
Column M:	<b>Avg UL Traffic Demand (Gbytes/Hr)</b>	<i>Description:</i> 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 monthly 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 <i>Format of Field:</i> Number <i>Example Entries:</i> 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:	<b>Avg DL Speed (Mbps)</b>	<i>Description:</i> Average user download speed (Mbps) over the course of a 24-hour day as a montly average, including weekends, for the county and technology <i>Format of Field:</i> Number <i>Example Entries:</i> 22 Mbps
Column O:	<b>Avg UL Speed (Mbps)</b>	<i>Description:</i> Average user upload speed (Mbps) over the course of a 24-hour day as a montly average, including weekends, for the county and technology <i>Format of Field:</i> Number <i>Example Entries:</i> 6 Mbps
Column P:	<b>Avg Latency (Ms)</b>	<i>Description:</i> 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 tech <i>Format of Field:</i> Number <i>Example Entries:</i> 70 ms.
Column Q:	<b>Data Blocking Rate (%)</b>	<i>Description:</i> The percentage of data requests that were blocked or failed to connect as a montly average, including weekends, for the county and technology <i>Format of Field:</i> Number - at least 4 decimal points <i>Example Entries:</i> 0.0179
Column R:	<b>Dropped Calls Rate (%)</b>	<i>Description:</i> The percentage of calls that were dropped as a montly average, including weekends, for the county and technology <i>Format of Field:</i> Number - at least 4 decimal points <i>Example Entries:</i> 0.0024
Column S:	<b>Blocked Call Rate (%)</b>	<i>Description:</i> The percentage of call requests that were blocked or failed to connect as a montly average, including weekends, for the county and technology <i>Format of Field:</i> Number - at least 4 decimal points <i>Example Entries:</i> 0.0024



