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Title 47 – Telecommunication

Chapter I – Federal Communications Commission

Subchapter A – General

Part 1 – Practice and Procedure

Subpart V – Commission Collection of Advanced Telecommunications Capability Data and Local Exchange Competition Data

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Authority: 47 U.S.C. chs. 2, 5, 9, 13; 28 U.S.C. 2461 note; 47 U.S.C. 1754, unless otherwise noted.

Editorial Note: Nomenclature changes to part 1 appear at 63 FR 54077, Oct. 8, 1998.

§ 1.7004 Scope, content, and frequency of Broadband Data Collection filings.

- (a) All providers shall make biannual filings with the Commission in the Broadband Data Collection portal in accordance with this subpart.
- (b) Broadband Data Collection filings shall be made each year on or before March 1 (reporting data as of December 31 of the prior year) and September 1 (reporting data as of June 30 of the current year). Providers becoming subject to the provisions of this section for the first time shall file data initially for the reporting period in which they become eligible.
- (c) Providers shall include in their filings data relating to the availability and quality of service of their broadband internet access service in accordance with this subpart.
 - (1) Each provider of terrestrial fixed or satellite broadband internet access service shall submit polygon shapefiles or a list of addresses or locations, and each provider of fixed wireless broadband internet access service shall submit propagation maps and model details that reflect the speeds and latency of its service or a list of addresses or locations, that document the areas where the provider has actually built out its broadband network infrastructure, such that the provider is able to provide service, and where the provider is capable of performing a standard broadband installation. Each provider's submission shall include the details of how it generated its polygon shapefiles, propagation maps and model details, or list of addresses or locations. In addition, fixed broadband internet service providers shall indicate, for each polygon shapefile or location they submit in the Broadband Data Collection, whether the reported service is available to residential customers and/or business customers.
 - (i) Each provider of fixed broadband internet access service shall report the maximum advertised download and upload speeds associated with its broadband internet access service available in an area. However, for service offered at speeds below 25 Mbps downstream/3 Mbps upstream, providers shall report the maximum advertised download and upload speeds associated with the service using two speed tiers: One for speeds greater than 200 kbps in at least one direction and less than 10 Mbps downstream/1 Mbps upstream, and another for speeds greater than or equal to 10 Mbps downstream/1 Mbps upstream and less than 25 Mbps downstream/3 Mbps upstream.

- (A) The version number of the planning tool;
 - (B) The name of the planning tool's developer;
 - (C) The granularity of the model (e.g., 3-arc-second square points); and
 - (D) Affirmation that the coverage model has been validated and calibrated at least one time using on the ground testing and/or other real-world measurements completed by the provider or its vendor.
- (ii) The following base station information:
- (A) Frequency band(s) used to provide the service being mapped;
 - (B) Information about whether and how carrier aggregation is used;
 - (C) The radio technologies used on each frequency band (e.g., 802.11 ac-derived orthogonal frequency division multiplexing modulation (OFDM), proprietary OFDM, long-term evolution (LTE)); and
 - (D) The elevation above ground for each base station.
 - (E) The geographic coordinates.
- (iii) The following terrain and clutter information:
- (A) The name and vintage of the datasets used;
 - (B) The resolution of clutter data;
 - (C) A list of clutter categories used with a description of each; and
 - (D) The link budget and a description of the other parameters used in the propagation model, including predicted signal strength.
- (iv) Information on the height and power values used for receivers/customer premises equipment (CPE) antennas in their modeling (height must be within a range of four to seven meters).
- (3) Mobile providers must submit coverage maps based on the following specified parameters:
- (i) For 3G services—a minimum expected user download speed of 200 kbps and user upload speed of 50 kbps at the cell edge; for 4G LTE services—a minimum expected user download speed of 5 Mbps and user upload speed of 1 Mbps at the cell edge; for 5G-NR services—a minimum expected user download speed of 7 Mbps and user upload speed of 1 Mbps, and a minimum expected user download speed of 35 Mbps and user upload speed of 3 Mbps at the cell edge.
 - (ii) For each of the mobile broadband technologies, 3G, 4G LTE, and 5G-NR, and for mobile voice services, the provider's coverage maps must reflect coverage areas where users should expect to receive the minimum required download and upload speeds with cell edge coverage probability of not less than 90% and a cell loading of not less than 50%.
 - (iii) For each of the mobile broadband technologies, 3G, 4G LTE, and 5G-NR, and for mobile voice services, the provider's coverage maps must account for terrain and clutter and use terrain and clutter data with a resolution of 100 meters or better. Each coverage map must have a resolution of 100 meters or better.

Scope, content, and frequency of Broadband Data Collection filings.

- (d) Providers shall include in each Broadband Data Collection filing a certification signed by a corporate officer of the provider that the officer has examined the information contained in the submission and that, to the best of the officer's actual knowledge, information, and belief, all statements of fact contained in the submission are true and correct. All providers also shall submit a certification of the accuracy of its submissions by a qualified engineer. The engineering certification shall state that the qualified engineer has direct knowledge of, or responsibility for, the generation of the provider's Broadband Data Collection filing. The qualified engineer shall also certify that he or she has examined the information contained in the submission and that, to the best of the engineer's actual knowledge, information, and belief, all statements of fact contained in the submission are true and correct, and in accordance with the service provider's ordinary course of network design and engineering. If a corporate officer is also an engineer and has the requisite knowledge required under the Broadband DATA Act, a provider may submit a single certification that fulfills both requirements. A "qualified engineer," for purposes of this certification, shall be an engineer who is:
- (1) A corporate officer possessing a Bachelor of Science in engineering degree and who has direct knowledge of and responsibility for the carrier's network design and construction;
 - (2) An engineer possessing a bachelor's or postgraduate degree in electrical engineering, electronic technology, or another similar technical discipline, and at least seven years of relevant experience in broadband network design and/or performance; or
 - (3) An employee or agent with specialized training relevant to broadband network engineering and design, deployment, and/or performance, and at least 10 years of relevant experience in broadband network engineering, design, and/or performance.

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