

**Cellular Network Partnership, an Oklahoma Limited Partnership
d/b/a Pioneer Cellular
P.O. Box 539
Kingfisher, Oklahoma 73750**

**E911 Location Accuracy Progress Report
47 C.F.R. § 20.18(i)(4)(ii)
PS Docket No. 07-114**

Cellular Network Partnership, an Oklahoma Limited Partnership d/b/a Pioneer Cellular is meeting compliance deadlines prescribed by the Federal Communications Commission in *Wireless E911 Location Accuracy Requirements*, Fourth Report and Order, PS Docket No. 07-114, FCC 15-9 (released Fed. 3, 2015) (*Fourth Report and Order*), and codified in 47 CFR § 20.18(i), *et seq.*

Pioneer Cellular works diligently and covers costs necessary to provide public safety with accurate location data for emergency callers. Over the past twelve months, Pioneer Cellular has timely performed its *Fourth Report and Order* location accuracy obligations and has submitted reporting and compliance documentation to the FCC by the following deadlines:

February 1, 2018

A Non-Nationwide Carrier Live 911 Call Report was submitted to the FCC in PS Docket No. 07-114, providing aggregate live 911 call data covering reporting period July through December 2017, for Pioneer Cellular's CDMA network (internally hosted) and VoLTE network (externally hosted by Verizon Wireless' LTE in Rural America program). As a non-nationwide CMRS provider that does not provide coverage in any of the six Test Cities, and in accordance with 47 CFR § 20.18(i)(3)(ii)(E), Pioneer Cellular's 911 live call data is collected and reported based on the largest county its service area footprint. The report was sent to the National Emergency Number Association (NENA), the Association of Public-Safety Communications Officials (APCO) and the National Association of State 911 Administrators (NASNA).

April 3, 2018

In accordance with 47 CFR § 20.18(i)(2)(i)(B)(2), Pioneer Cellular had begun to provide dispatchable location or x/y location information within 50 meters for 50 percent of all wireless 911 calls.

June 4, 2018

As a non-nationwide CMRS provider that does not provide coverage in any of the six Test Cities, and in accordance with 47 CFR § 20.18(i)(2)(iii), Pioneer Cellular submitted to the FCC certification that as of April 3, 2018, it did not provide service or report live call data in one or more of the Test Cities, was providing dispatchable location or x/y location information within 50 meters for 50 percent of all wireless 911 calls, had

deployed the indoor location technology or technologies used in its networks consistently with the manner in which such technologies have been tested in the test bed, and had verified based on its own live call data that it was in compliance with the two-year benchmark set forth at 47 CFR § 20.18(i)(2)(i)(B)(2).

August 1, 2018

A Non-Nationwide Carrier Live 911 Call Report was submitted to the FCC in PS Docket No. 07-114 on or before August 1, 2018, providing aggregate live 911 call data covering reporting period January through June 2018, for Pioneer Cellular's CDMA and VoLTE networks, and the report was sent to NENA, APCO and NASNA.

August 3, 2018

Pioneer Cellular makes available to PSAPs uncompensated barometric data for any 911 call placed from any handset that has the capability to deliver barometric sensor data, in compliance with 47 C.F.R. § 20.18(i)(2)(ii)(A).

Pioneer Cellular has adopted procedures that comply with FCC indoor accuracy requirements:

Pioneer Cellular retains for two years all testing and live call data gathered for Non-Nationwide Carrier Live 911 Call Reports, pursuant to 47 C.F.R. § 20.18(i)(3)(iii).

Pioneer Cellular delivers x- and y-axis (latitude, longitude) confidence and uncertainty (C/U) data for all wireless 911 calls - whether placed from indoors or outdoors - at the request of a Public Safety Answering Point (PSAP), on a per-call basis, with a uniform confidence level of 90 percent, per 47 CFR § 20.18(j).

Pioneer Cellular collects and retains for two years information on all wireless 911 calls placed on its network, including the positioning source method used to provide a location fix associated with the call, The data is made available to PSAPs upon request in accordance with 47 CFR § 20.18(k).

Pioneer Cellular will continue to meet FCC indoor location accuracy requirements of 47 CFR § 20.18, utilizing the expertise of highly qualified providers of E911 technology services. West Safety Services ("West") provides Pioneer Cellular with Location Performance Management (LPM) and Accuracy Compliance Testing. West's LPM compiles and aggregates complex data sets to help manage, optimize and report location accuracy, while complying with the FCC's wireless E911 location regulations. LPM provides key insights to help manage 911 caller location and identify areas for improvement:

- Pinpoint location performance issues
- Optimize network functionality to certify and trust location performance
- Perform proactive risk management of position determination issues
- Report compliance with the FCC's location accuracy rules
- Audit Key Performance Indicators, call results, and location server performance

- Measure baseline accuracy results in test areas
- Resolve position determination discrepancies

West's LPM provides three reports to assess FCC compliance:

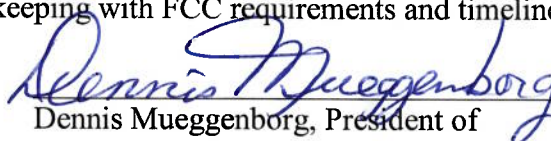
- Live Call Data Report - provides Live Call Data yields by technology and morphology semi-annually for any reporting county
- 50m Accuracy Report - provides data for the largest county in the wireless network footprint, weighting Indoor Test Bed data derived from Test Bed, LLC against live 911 call distribution within the reporting area to determine a final location accuracy metric
- PSAP Report - provides the total number of calls delivered to a specific Public Safety Answering Point and can be generated on demand for a given period as needed

West performs testing, conducts test calls and updates BSA information. West's accuracy compliance testing services include:

Test existing PSAP or county locations
 Ensure FCC compliance and reporting
 Achieve BSA optimization
 Measure accuracy drive testing
 Perform BSA generation and calibration
 Perform BSA optimization and maintenance
 Generate calibration test points

Location accuracy data reports provided by West align with ATIS 05000031 recommendations, which provide the option to blend outdoor accuracy test data with indoor test bed data and live 911 call data. Sector Morphology assignments are based on the greatest percentage of morphology present in a sector which is then assigned to all 911 calls from that sector. The data selected for the reporting area's 911 call distribution utilizes the best final fix for the call, which includes using the first fix when the PSAP did not perform a rebid. This data excludes known test calls. Uninitialized calls, short calls or aborted calls may be excluded in the manual report.

Pioneer Cellular and West will continue to incorporate technological advancements to enhance the safety of emergency callers by delivering accurate and useful location information to emergency dispatch personnel, in keeping with FCC requirements and timelines.



Dennis Mueggenborg, President of
 O.T. & T. Communications, Inc.,
 a General Partner of Cellular Network Partnership,
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Date: July 31, 2018