

## **Wireless Location Technologies Indoor Test Bed Plan** **(2016 and beyond)**

In the Federal Communications Commission's (FCC) Fourth Report and Order (R&O) on *Wireless E911 Location Accuracy Requirements (FCC 15-9, PS Docket No. 07-114)*, the FCC adopted new rules to require wireless service providers to improve 9-1-1 location accuracy when using mobile devices. The rules also identified the need for an independently administered and transparent test bed process, and CTIA - The Wireless Association® established the 9-1-1 Location Technologies Test Bed, LLC as an independent company for such purposes, and subsequently chose the Alliance for Telecommunications Industry Solutions (ATIS) as its program manager. Testing will be performed in multiple stages:

### **Stage 1 (Testing deployed location technologies)**

- Carrier testing of existing horizontal location technologies currently deployed and operationally used in nationwide carriers' networks (e.g., A-GNSS, OTDOA, AFLT, RTT, E-CID/Cell-Sector, Handset-based hybrid, and possible hybrid combinations of location technologies).
- Testing will occur in the San Francisco (SFO) and Atlanta (ATL) areas in multiple buildings and morphologies in the predefined polygons as defined by ATIS.
- Non-nationwide carriers with currently deployed technologies may participate if such technologies are deployed in the predefined polygons in the SFO and/or ATL areas.
- Funding is to be provided by participating carriers.
- Results will be used in support of required carrier compliance reporting.

### **Stage 2 (Testing emerging location technologies)**

- Vendor testing of near-term emerging horizontal and vertical location technologies that are not currently deployed.
- Testing will focus on assessing the performance of these emerging technologies.
- Testing will occur in the SFO and ATL areas in multiple buildings and morphologies in the predefined polygons as defined by ATIS.
- Funding is to be provided by the location technology vendors involved in the testing.
- Expected to begin approximately 6 months after initiation of Stage 1 testing.

### **Beyond Stage 2**

- Additional rounds of testing of emerging and newly deployed location technologies, as needed, by location technology vendors, or carriers for possible compliance reporting.

