

Product Description

E911Rover is a data collection and analysis software solution, used to assess Phase II E911 location accuracy compliance within a County or Public Safety Answering Point (PSAP) coverage area. Testing for location accuracy compliance is critical for all Counties and PSAPs; it will confirm the accurate identification of the originating emergency call location and origin, which will ultimately result in accurately dispatching emergency help that will easily and accurately locate the distressed caller.

E911Rover Test process steps:

- Develop a test plan for accuracy compliance, which is a collection of test locations representing the compliance area environment.
- Conduct a field test to generate test calls and determine ground truth and accurate fixes at each test location.
- Analyze the percentiles of the location errors with 90% statistical confidence.
- Present a detailed report to the wireless carriers, detailing field test results. If any locations are tested with poor accuracy, carriers will be able to use the E911Rover test report to make the necessary changes or enhancements to their network, or systems, to correct the effected service areas.

How to Test

For each test location:

- Collect "ground truth," or true latitude/longitude, either "measured", by using a D-GPS receiver or "surveyed" where there is no GPS coverage.
- Make sufficient 911 test calls for statistical significance, requesting re-bid after 20 seconds for more accuracy.
- Note if fix is Phase I or Phase II and capture the latitude /longitude reported in PSAP logs (e.g. ACDR).
- Repeat test plan for each carrier.

The E911Rover Solution

Automates the location accuracy assessment process from beginning to end. Its handset-based data collection software eliminates the need to carry a laptop while testing, simplifying the test process. E911Rover has an easy to use web-based test planning, test tracking and accuracy analysis interfaces, allowing you to automate the entire process for testing Phase II E911 location accuracy compliance within your county or Public Safety Answering Point (PSAP) coverage area.



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E911Rover
Location Accuracy
Compliance Testing

WITS Corporation





Technical Description

E911Rover is a combination of wireless software, running on commercial carriers' handsets that attach to a Bluetooth enabled GPS receiver, and a Server based environment. E911Rover allows for test plan creation, generation of test fixes, ground truth collection, and accuracy compliance analysis.

Field Test Unit:

The Field Test Unit, which is the wireless phone running the WITS E911Rover software, along with a Bluetooth attached GPS device, collects the ground truth and generates the location specific test calls. The data collected will be uploaded onto the E911Rover Server for analysis.

E911Rover Server:

The E911Rover server is used to develop and maintain the test plans for each PSAP in a County or service area. Users develop these test plans through a simple and intuitive browser interface. In addition, the E911Rover server collects all the data from the PSAP logs, including test fixes, timestamps, and call traces.

