

### What is BroadSim OTG?

BroadSim OTG is a software application that runs on the BroadSim GNSS simulator/jammer allowing BroadSim to take in a receiver's latitude, longitude and altitude (LLA) at 20Hz and then simulate that position in near real-time. This application can be used to test systems with an Inertial Measurement Unit (IMU) or Inertial Navigation System (INS).



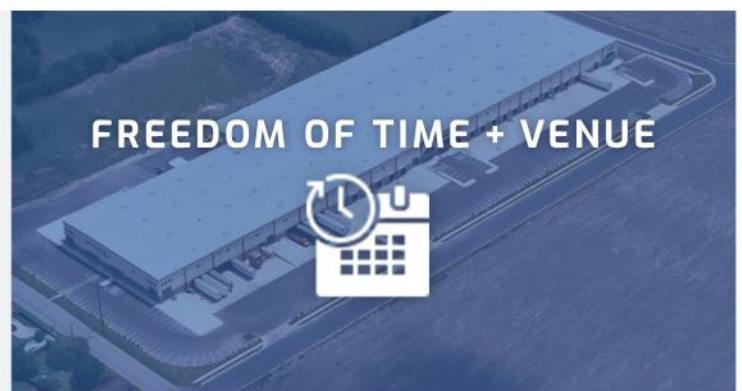
### How Does it Work?

By pairing this application with the SDX Advanced Jamming option, you can stage location-based transmitters. In BroadSim, specify the LLA, jammer power and jamming waveforms to transmit from that jammer. Install your BroadSim in a vehicle and drive around the staged environment. BroadSim will simulate a position based on your real-world location and calculate jamming power based on your jammers' location and its transmit power (Free Space Loss Model).



### Why Use BroadSim OTG?

This application enables users/integrators to test navigation systems (GPS Receiver + IMU/INS - not including AJAS) on their own time and at their own location. Don't wait for the next over-the-air (OTA) field test to prove your technology works.



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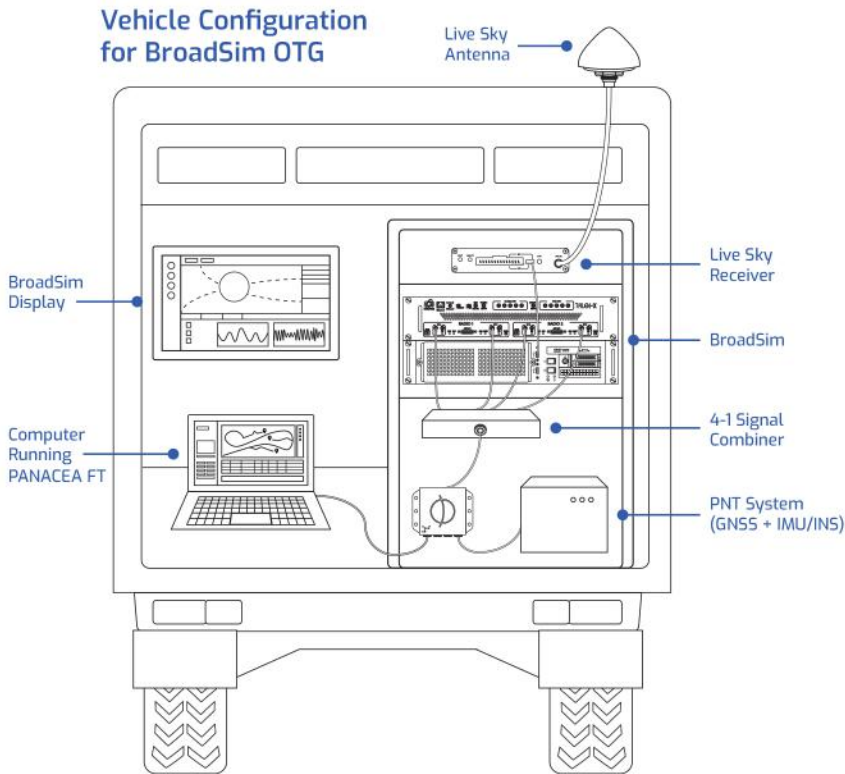


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#### 1 Install this set-up in your vehicle.



#### 2 Run the App

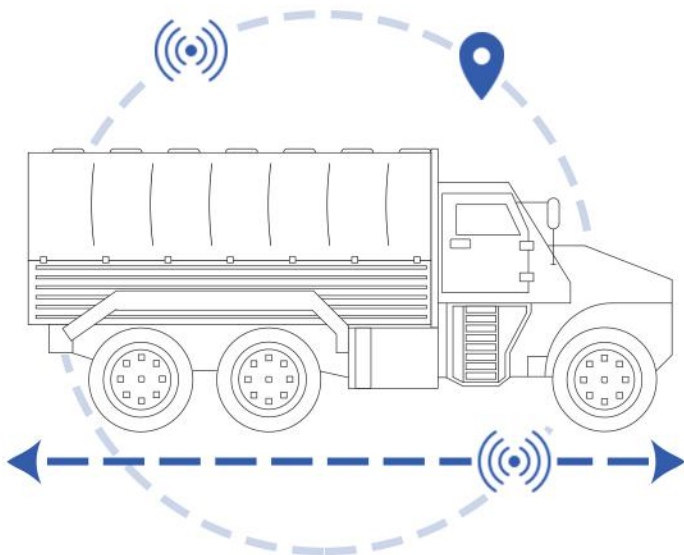
Run the BroadSim OTG application on BroadSim. Your position and jammers will then be simulated in your vehicle in real-time.

#### 3 Scenario Creation

Create scenarios in SDX. Add location based transmitters. Add the GNSS signals/codes that you want to simulate. Configure your vehicle trajectory to be in HILT mode.

#### 4 Take it Away

Start the scenario. Start driving around and watch your receiver track the simulation at your vehicles location. View your jamming signals increase / decrease as you approach and move away from simulated jammers on the SDX GUI.



Consider using **PANACEA Field Test**, **RxStudio** and **Panorama** to help collect, visualize and analyze your results.