Qascom
Trust is Nice, Control is Better.

GNSS STARR

GNSS SDR Testbed for Advanced Receivers Reliability

The GNSS STARR testbed is a powerful tool for the robustness assessment of GNSS receivers. The software tests the performance against interference events in realistic environments. The testbed offers a set of tools capable of configuring navigation test scenarios, in a variety of preconfigured and user-defined contests: vehicular, avionic, maritime, etc. Interference setup includes intentional and unintentional jamming signal and flexible spoofing configuration. The main output of the testbed is a certification of the degree of robustness against harsh environment and adversarial conditions.

CONSTELLATIONS
- GPS L1 C/A Open Service
- GALILEO E1B/C Open Service
- EGNOS L1

CHANNEL MODEL
- AWGN
- Avionic
- Two-rays
- Vehicular
- Maritime
- Rail

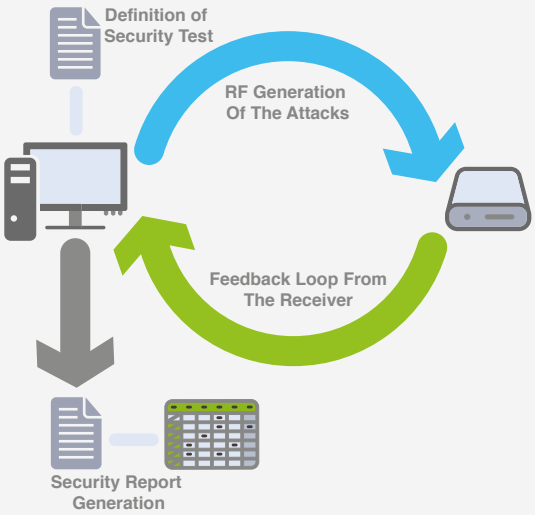
SPOOFING
- Configurable single channel spoofing
- Consistent/non-consistent attacks (code/carrier phase lock)
- Configurable multi-channel spoofing
- Configurable consistent spoofing trajectory

SUPER VERSATILE COMPOSITE JAMMING
- Configurable power and timing;
- Configurable AM period and duty cycle;
- Configurable FM frequency central shift, variation amplitude and rate
- Configurable bandwidth of wide band shaping component
- Configurable Spread Spectrum Signal

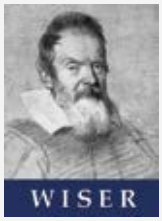
FEARED EVENTS
- Evil waveform
- Erroneous Ephemerides
- Excessive range acceleration
- Low satellite power
- Code/carrier divergence

QUALIFICATION CAPABILITIES
- Configurable thresholds
- Configurable thresholds profiles
- Configurable test duration
- Test reporting

RECEIVERS SUPPORT
- NMEA format
- Septentrio SBS format
- Plugin based approach for other proprietary



Partners:



Activity with financing "ASI - BANDO PERIODICO RISERVATO ALLE P.M.I. BANDO TEMATICO - Navigazione e Osservazione della Terra: utilizzo delle infrastrutture spaziali nazionali e comunitarie"

Qascom S.r.l Via O. Marinali 87 36061 Bassano del Grappa (VI) Italy Phone: (+39) 0424 525 473 Email: info@qascom.com www.qascom.com
Wiser S.r.l. Via Fiume 23 57123 Livorno Italy Phone:(+39) 0586 888487 Email: info@wiser.it www.wiser.it