

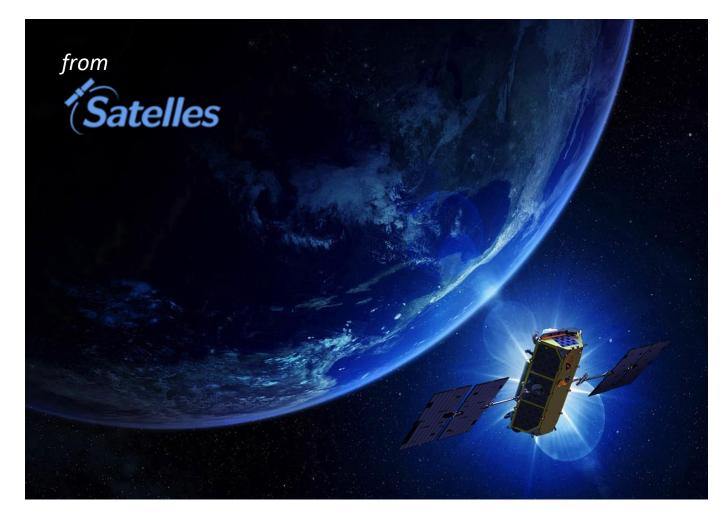


Resilient Timing Solutions

Satelles STL and BroadShield



STL – Satellite Time and Location Signal



- New signal available today
 - Broadcast on the Iridium sats
- >30 dB stronger than GPS
 - Higher jamming and interference resistance
 - Operates indoors
- Encrypted signal
 - Inherently anti-spoof
 - Subscription based service
 - Available for civilian use



from Satelles

STL

+66 Iridium Satellites
+Global coverage
+500 mile altitude
+1000x stronger
than GPS

GPS

+24 GPS Satellites
+Global coverage
+12,500 mile altitude
+25x further away



Indoor Demonstration – New York Stock Exchange



- January 2017 ATIS Time and Money Event
- Wall Street one of the most difficult urban canyons in the world for GPS reception
- STL signal received and locked to UTC time with Spectracom's SecureSync
 - Interior room, 7th floor
 - Weak signal
 - ~30 minutes to converge



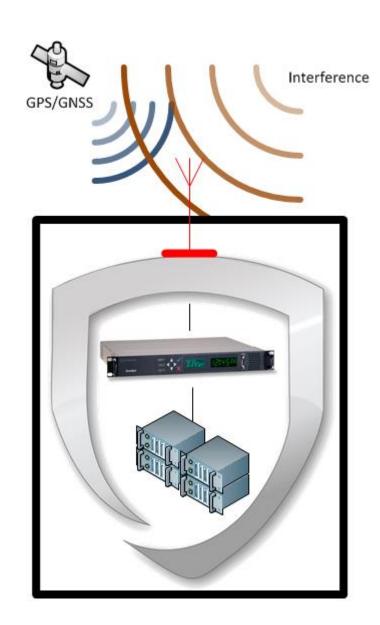
BroadShield™

from -X

Protecting GPS/GNSS critical infrastructure against emerging threats

- Detects Interference and Spoofing within the GPS signal and GPS spectrum
- Over **75** jamming / spoofing detection algorithms
- SW seamlessly integrated with SecureSync
 - Works with our standard commercial GPS/GNSS receiver
 - Automatic enable/disable GPS during interference events
 - Status information through the UI
 - Integrated notifications and alarms

Know when jamming/spoofing is occurring– and ignore the bad signals



Adding Resilience and Trust to GPS/GNSS





New services and features available from Spectracom



