

# STL (Satellite Time + Location)

## What is STL?

STL is a powerful satellite-based time and location service offered by Orolia in partnership with Satelles. It uses the Iridium constellation of satellites to deliver a burst signal specifically designed for position, navigation, and timing applications. The technology is available today with global coverage.

## Signal Comparison To GNSS

	GNSS	STL
Timing accuracy	~20 ns	~200 ns
Positioning accuracy	~3 m	~30-50 m
Anti-Jam	Low signal level- easily jammed	30-40 dB stronger signal, difficult to jam
Anti-Spoof	Encrypted signals for military users only	Encrypted signal available to all users
Coverage	Global precision degrades at poles	Global coverage increases at poles
Indoor Operation	Very limited	Widely available

### Powerful



- **1000x** stronger than GPS
- Deep indoor penetration
- Significantly harder to jam than GPS

### Secure



- Encrypted signal resists spoofing
- Geo-location based multi-factored authentication for cybersecurity

### Available Worldwide Today



- Global coverage
- **66** Satellites – largest constellation in orbit today

### Accurate



- **+/- 200 ns to UTC** is the typical accuracy

**800 Km**

LEO altitude used by Iridium satellites delivering STL

Iridium satellite



Low Earth Orbit (LEO)

**20,500 Km**

Medium Earth Orbit (MEO)

GNSS



orolia

Satelles