# GeoSig
## RF Signal Geolocation

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CAPEX or SaaS


# BEST ISR SATELLITE TOOLKIT

Evaluate satellite RF onboard sensing & geolocation in real time. Designed for engineers, system designers & government agencies.

www.integrasys-space.com

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## Competitive Advantage

- Advanced RF geolocation performance simulator specifically designed for satellite constellations.
- Real-time estimation of theoretical geolocation accuracy for UHF, L, C, X, Ku, Ka, Q, U, W bands.
- Flexible constellation architecture allowing full control of orbital and satellite parameters.
- GDOP-based geometry evaluation.
- Designed to support RF geolocation mission design, feasibility analysis and proposal preparation.

## Features

- Web-based graphical interface for configuring simulations and analyzing results.
- Custom satellite constellation generator with configurable altitude, inclination and satellite spacing.
- Multi-plane constellation configuration for advanced mission analysis.
- Pseudo-TLE generation for satellite orbit representation.
- Real-time geolocation error computation based on constellation geometry.
- GDOP (Geometric Dilution of Precision) calculation or geometry quality assessment.
- Signal parameter configuration including bandwidth and SNR.
- Error modeling including satellite clock errors, position uncertainty, atmospheric effects and Doppler shift.
- Exportable results for engineering documentation and analysis.

## Benefits

- Evaluate geolocation performance before deployment through realistic constellation simulations.
- Optimize satellite constellation design to maximize geolocation accuracy.
- Understand the impact of signal quality and environmental effects on localization performance.
- Reduce mission design risks through early system performance validation.
- Support engineering trade-off studies between constellation parameters and signal characteristics.
- Accelerate decision-making during mission planning and system design.
- Provide quantitative accuracy metrics for technical proposals and feasibility studies.
- Improve understanding of geolocation limitations in complex RF environments.

## Company Awards

- Vision Awards — MOST INNOVATIVE PRODUCT OF THE YEAR — 2014
- VSAT Industry Awards 2015 — TECHNOLOGY INNOVATION OF THE YEAR — 2015
- VSAT Global 2017 — BEST GROUND TECHNOLOGY OF THE YEAR — 2017
- WTA — TELEPORT TECHNOLOGY OF THE YEAR — 2018
- MSUA — GOVERNMENT MOBILE INNOVATION — 2022
- WTA — TELEPORT TECHNOLOGY OF THE YEAR — 2023
- MSUA — SATELLITE MOBILE INNOVATION AWARDS — 2023
- MSUA — NEW SPACE MOBILE INNOVATION AWARD — 2024
- Manufacturer Awards — BEST CONTRIBUTION TO SUSTAINABLE SATELLITE OPERATIONS — 2025
- SSPI — BETTER SATELLITE WORLD AWARDS — 2025