LEOREG

EPFD Regulatory Monitoring System

INTEGRASYS
Building success from innovation

Regulators

USER-FRIENDLY EPFD MONITORING SYSTEM FOR REGULATORS

Web-based tool that evaluates NGSO constellation for compliance after launch

www.integrasys-space.com

INTEGRASYS GROUP: USA, Australia, Indonesia, UAE, Spain, Ukraine, UK, and Luxembourg
info.sales@integrasys-sa.com

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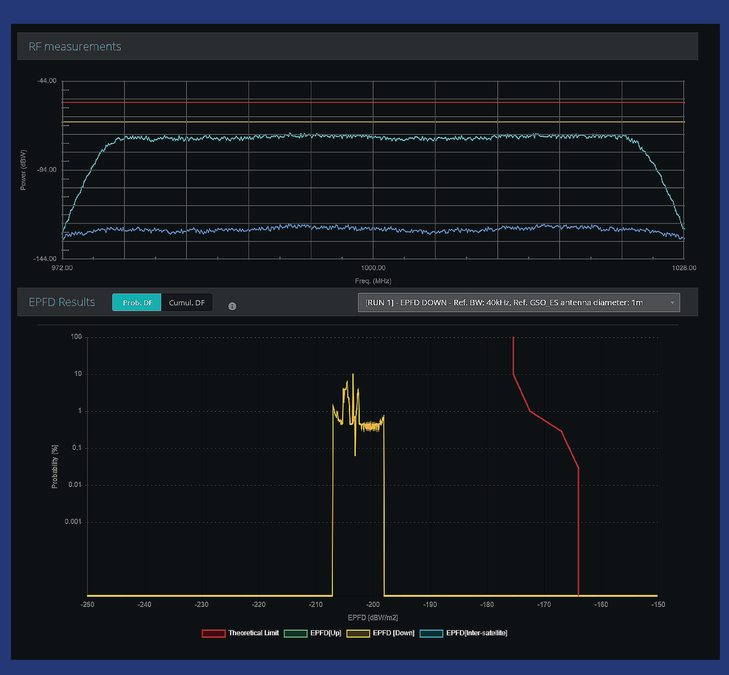
Competitive Advantage

- Compliant with ITU-R1503-3 and Articles 21 and 22 EPFD regulations.
- Ensures NGSO constellations meet interference limits after deployment.
- Provides real-time EPFD verification for existing constellations, against filing.
- Intuitive 3D visualization for enhaced situational awareness.
- Integrated Pass/Fail summary for quick ITU reporting.
- Antenna Management modules for parabolic and flat panel.



Features

- Filing ITU database integration as satellite TLE orbits integrated for antenna pointing.
- 3D globe visualization displaying NGSO & GSO satellites and Earth stations.
- Real-time tracking of contributing elements for each EPFD type, with fast switching.
- Live RF signal monitoring, comparing GSO signal and NGSO interference, discriminating contribution.
- EPFD Probability Distribution Function analysis against regulatory limits -Article 21 & 22.
- Comprehensive final assessment with automated Pass/Fail results.

Benefits

- Enables to regulate operational NGSO constellations.
- Enhances spectrum efficiency by miniziming interference in operation.
- Improves spectrum sharing with real-time data.
- Reduces spectrum congestion with proactive interference detection.
- Provides a clear visual and quantitative approach to EPFD verification.

STEP 1	STEP 2	STEP 3
Scenario Selection with Filing	Antenna Monitoring and RF Measurement	EPFD Calculation over RF Measurement and Automated Reporting

Company Awards

2014 Vision Awards Winner – Most Innovative Product of the Year Award

VSAT Industry Awards 2015 – WINNER – VSAT Technology Innovation of the Year

VSAT Stellar Awards – WINNER

MSUA – Satellite Mobile Innovation Awards – 2022, 2024

WTA – Teleport Technology of the Year Award – 2023

MSUA – New Space Mobile Innovation Award – 2023