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

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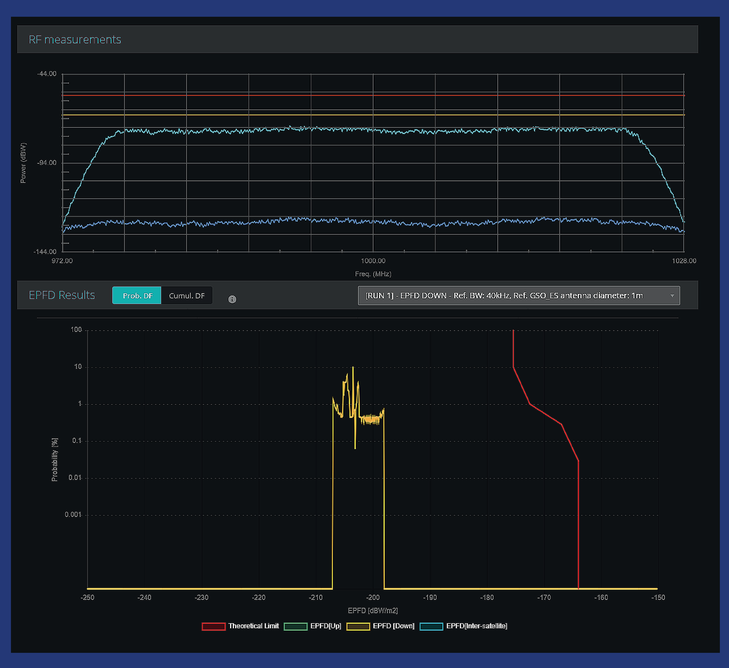
Competitive Advantage

- 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

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
BROADCASTPRO ManufacturerAwards	BEST CONTRIBUTION TO SUSTAINABLE SATELLITE OPERATIONS	2025
SSPI	BETTER SATELLITE WORLD AWARDS	2025