Name & Organisation

Erwin Greilinger , Eviden

Presentation title

Revolutionizing satellite communication monitoring for the new space era

Abstract

The satellite communications landscape is evolving rapidly with the rise of Very High Throughput Satellites (VHTS), hybrid LEO/MEO/GEO constellations, and advanced onboard processing. These developments increase complexity in monitoring satellite performance and preserving signal integrity amid congested and dynamic RF environments. This session covers innovations in cloud-native ground segment architectures for scalable, resilient operations, and AI-driven interference detection for real-time classification and mitigation of issues such as adjacent satellite interference and cross-polarization. It also addresses monitoring challenges in VHTS missions, including dynamic beam hopping and flexible payloads.VHTS missions, with a focus on beam hopping, flexible payloads, and in-orbit reconfiguration.

Short bio

Erwin is Product Line Manager and CTO for the Eviden Satellite Monitoring and Geolocation Solutions. Thus, he is responsible for the definition of products for monitoring and troubleshooting the quality of satellite communication systems, product marketing as well as technical and commercial sales activities.

Erwin holds a degree in Electrical Engineering from the Federal Secondary College of Engineering in Vienna, Austria. He is also named as Co-Author of several patents and has published whitepapers dealing with Satellite interference mitigation solutions.