

Spectrum Analysis Solutions for Wideband Satellite Communications

NewSpace is heading towards exciting times. The evolution of the mega-constellations like Starlink and Amazon Kuiper is generating great interest. While the mega-constellations use proprietary waveforms ideal for satellite communications, there is the other evolution of the integration of NTN in TN driven by 3GPP using standardized waveforms, plus partnerships of SNO and MNOs, where standardized signals meet proprietary waveforms. Broadband signals transmitted to and from space will not only enable new use cases, but also entail technical challenges to achieve acceptable S/N ratios, and manage the increased potential for interference and other side effects. It is crucial to test systems and their components with appropriate signals to investigate performance under realistic conditions. This webinar demonstrates powerful and high performance R&S Signal Generators and Signal Analyzers, capable of delivering wideband waveforms both conforming to standards and proprietary, and test solutions to tackle technical challenges emerging in broadband satellite communications.

In this webinar, you will learn how to/ more about:

- Roadmap of NTN in 3GPP
- Wideband measurement applications in the X, Ku and Ka band
- OFDM signal generation and analysis

Speakers:

Dr. Yvonne Weitsch, Market Segment Manager Rohde & Schwarz

Dr. Yvonne Weitsch, as a market segment manager aerospace & defense is responsible for the application segment of satellite testing at Rohde & Schwarz. Her role involves business development and cross-divisional collaboration of development departments and sales. She has received her PhD from the Technical University of Munich. At Rohde & Schwarz, she has held various positions as a project leader, development engineer and technology manager with a focus on antenna measurement techniques and near-/far-field transformation technologies.

Alexander Nähring, Product Manager for Spectrum-, Signal- and Phase Noise Analysis Rohde & Schwarz

Alexander Nähring is a product manager for spectrum-, signal- and phase noise analysis at Rohde & Schwarz. His main focus areas include satellite communication analysis, phase noise and VCO testing solutions. After receiving the master of science degree in electrical engineering, information technology and computer engineering from RWTH University Aachen, he has been working for Rohde & Schwarz since 2016.

Beginn:

Donnerstag, 20. Juli 2023, 17:00 Uhr

Ende:

Donnerstag, 20. Juli 2023, 18:00 Uhr

Veranstaltungsort:

Online

Website & Anmeldung:

<https://event.on24.com/wcc/r/4254560/4FA4A65DA6ABD424B37989CA1647747B/4793279>