Name & Organisation

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Presentation title

Securing the RF Spectrum by using the full potential of Space and Ground based Spectrum Monitoring

Abstract

The availability of a reliable, secure and resilient connectivity and navigation/timing solution is the key for the industry, mobility and infrastructure of the future. A non availability of this services already has a big effect on the different stakeholders, as for instance seen with the drastic increase of GNSS disturbances around the world. And with 5G/6G and Industry 4.0 and autonomous driving/flying the effects will increase drastically. Although the GNSS/PNT and NTN services will evolve in the next decade (e.g. by LEO-PNT) a real 24/7 continuous spectrum monitoring solution is mandatory for each country. This can only be reached by the data fusion from ground and space based systems. OHB will show what already is done in this field (e.g. security of Air Traffic/Airports) and what can/will be done in space and on ground in the near future. This includes national as well as EU/ESA activities, especially for the S, L, C, X and KU bands.

Short bio

Stephan Roemer, Dipl-Ing., has begun his aerospace career in 1999. Starting in university-based teaching and research environment he then worked in different space technology fields (e.g. as space system engineer and head of AIV department) and joined the Business Development and Strategy domain in 2009.
Since 2018 he is working in the OHB Group and finally joined 2023 the OHB Group HQ in Bremen as BD Manager for Satellite Communication & Navigation. In this position he contributes to the OHB group strategies in this fields, which also includes future secure satcom, QKD, 5G/6G/D2D applications and Spectrum Monitoring. He has authored numerous publications in Space Segment, Space Technology, PNT, Spectrum monitoring and 5G/D2Ddomain and contributes to different organizations in this domain, such as IAA, EDA/EDF and EIC