

## SATELLITE INDUSTRY DAY 2023 - PART 4 | CONFERENCE AGENDA

### UNLOCKING THE FUTURE OF SATELLITE COMMUNICATIONS IN EUROPE WITH IRIS<sup>2</sup>

CET	THURSDAY, MAY 25 – PRESENTATIONS & PANEL DISCUSSION
15:00 - 15:20	<p><b>Welcome and introduction</b></p> <p><b>Dr. Yvonne Weitsch, Market Segment Manager Aerospace and Defense, Rohde &amp; Schwarz</b>  <b>Thomas Wrede, Managing Director, Technology Vision Consulting</b></p>
15:20 - 15:40	<p><b>IRIS<sup>2</sup>: A new LEO constellation competitor</b></p> <p>The EU economy and society are undergoing a digital transformation, while geopolitical and cybersecurity threats increase, meaning Europe needs secure and resilient global connectivity. While NGSO satellite systems are rapidly gaining ground in the SATCOM industry, the EU satellite communications industry performed several (feasibility) studies from 2020 to 2022 for an EU space-based secure connectivity system. On March 23, 2023, the European Commission issued a call to tender for a contract to implement the Union Secure Connectivity Programme. IRIS<sup>2</sup> will create a multi-orbital communications infrastructure, dedicated to providing satellite communications services to governments and commercial users.</p> <p><b>Jean-Benoît Laithier, Euroconsult</b></p> <p>Jean-Benoît joined Euroconsult in 2021 as the principal advisor for the satellite communications ecosystem. Since joining the company, Jean-Benoît has held strategic consulting mandates for a set of government and commercial clients. Jean-Benoît is the editor-in-chief for Euroconsult's Ground Segment Market Prospects research report.</p> <p>Prior to joining Euroconsult, Jean-Benoît was Manager, Sales &amp; Business Development at satellite operator SES, where he was responsible for business development, pre-sales, sales and post-sales for governments and institutions.</p> <p>Jean-Benoît earned an aeronautical engineering degree from ENAC, a master's degree in microwave and optical telecommunications from the Université Paul Sabatier and an MBA from the EDHEC Business School.</p>
15:40 - 16:00	<p><b>The European Protected Waveform (EPW) for secure, interoperable and flexible satellite communications</b></p> <p>In this session, Koen Willems will discuss the EDF European Protected Waveform (EPW) program that launched in January 2023. The EPW focuses on agile, secure, affordable and interoperable satellite communications. The EPW needs to satisfy current and future requirements for military and secure operations, while taking into consideration upcoming disruptive technologies, EU initiatives such as GovSatCom, IRIS<sup>2</sup> and multi-layered security and resiliency solutions. The EPW will be accessible to small, mid-sized and large European countries that want to master current and future challenges associated with increased demand for throughput via satellite, dispersed operations, mobility and new security threats.</p> <p><b>Koen Willems, ST Engineering iDirect (Europe) CY NV</b></p> <p>Koen Willems is VP EU Programs and Government Relations at STE iDirect Europe, a market leader in satellite communications technologies and focuses on ground segment, baseband, network elements and waveform development.</p> <p>Koen Willems has worked for over 25 years in the technology industry. Before joining ST Engineering iDirect in 2008, he was Product Marketing Manager for Europe at electronics giant TOSHIBA. His government and defense satellite market expertise has grown through his work on various large (EU) programs and frequent interactions with the end-user community. He also has several university degrees in subjects that cover European strategy, security and defense.</p>

<b>16:00 - 16:20</b>	<p><b>Radio based applications in the third decade of the nano-satellite revolution</b></p> <p>Nano-satellites have proliferated and contributed to the development of novel space applications – particularly in the radio domain. This talk highlights current innovations in orbit and discusses ongoing application developments that leverage software defined technologies, artificial intelligence and the continued miniaturization of satellite technology.</p> <p><b>Lars Krogh Alminde, GomSpace</b>        Lars is co-founder of GomSpace and is now Chief Product Officer. He has an M.Sc.EE and PhD from Aalborg University in Denmark where he researched nano-satellites. At GomSpace he has held many roles over the years and helped develop the business and technologies, specifically innovative nano-satellite applications.</p>
<b>16:20 - 16:40</b>	<p><b>International regulatory framework for non-geostationary satellite systems</b></p> <p>In the last decade, satellite communications projects have emerged that use non-geostationary satellite orbits (non-GSO) making access to the shared radio frequency spectrum even more important. The International Telecommunication Union (ITU) forms the basis for the international regulatory framework and defines the obligations and requirements for interference-free operation of satellite systems using non-GSO. The union has evolved significantly over the past 20 years. Even among even a small number of non-GSO systems, sharing a frequency band is a challenge. The regulatory framework has several mechanisms for efficiently sharing common spectrum/orbit resources among non-GSO satellite systems for equitable access and protection of existing terrestrial services and satellite communications in traditional geostationary (GEO) orbit. This presentation examines the mechanisms and outlines the changes implemented after the last World Radiocommunication Conference in 2019.</p> <p><b>Nelson Malaguti/Timur Kadyrov, International Telecommunication Union (ITU)</b>        Nelson Malaguti is Counsellor at the Radiocommunication Bureau (BR) of the International Telecommunication Union (ITU). Since June 2006, Nelson has been responsible for ITU-R Study Group 4 on Satellite Services (FSS, BSS, MSS and RDSS) and the Coordination Committee for Vocabulary. Before, he worked at EMBRATEL in Brazil on the coordination, notification and registration processes for Brazilian satellite networks. Nelson received an M.Sc degree in telecommunications engineering from PUC-RIO, Brazil. He is currently involved in the preparations for WRC-23.</p> <p>Timur Kadyrov is Senior Radiocommunication Engineer in the Space Services Department (SSD) at the Radiocommunication Bureau of the International Telecommunication Union (ITU). Before joining the ITU in 2010, he worked on the international regulation of orbit-spectrum use for over 10 years. At the Radiocommunication Bureau Mr. Kadyrov is responsible for international coordinating non-geostationary satellite systems for more efficient and interference-free operation.</p>
<b>16:40 - 17:10</b>	<p><b>Panel discussion with the experts</b></p> <p><b>Moderated by Thomas Wrede</b></p> <p>Thomas is the founder and Managing Director of Technology at Vision Consulting UG, a company specialized in project studies, standardization and prototype development for satellite communications and wireless technologies.</p> <p>Thomas has worked in the communications industry for over 35 years. In his 28 years at satellite operator SES in Luxembourg he was deeply involved in the development of digital satellite television, in-home signal distribution concepts, digital satellite radio, satellite return channel technology, internet via satellite, along with high definition and ultra high definition (4K/8K) television. Thomas currently represents SES in the DVB Commercial Module as chair of the CM-S subgroup.</p>
<b>17:10</b>	<b>End &amp; farewell</b>