

WORKSHOP

Ensuring Satellite remains available for media applications

PROGRAMME

WEDNESDAY 03 JULY 2024

10:00–10:05

Welcome to the Workshop by the Chair of EBU's Strategic Programme on Spectrum



David Hemingway, Senior Distribution Manager at BBC

In-depth spectrum management and regulation expertise across broadcasting, mobile and related industries.

BROADCASTERS' USE OF SATELLITE PLATFORMS

Moderated by **Susanne Rath** (ARD)



Susanne works at ARD's Competence Center for Frequency Management. Here she is responsible for issues relating to international frequency regulation. She is active in many national and international technical working groups. Prior to this, she worked for many years at IRT in the areas of audio, radio, online distribution, metadata and accessibility.

10:05–10:20

Evolution of EBU News Permanent Satellite Network

Changes in the EBU News permanent network for live content exchange. Shift from a satellite-only network towards a hybrid platform.



Piotr Kaszynski (Senior Engineer EBU NEWS)

Piotr oversees the development of EBU News services, internal production systems, and contribution/distribution networks for edited and live content exchange between EBU members. Previously, Piotr led the News Technology team for Irish TV and Radio broadcaster RTÉ.

10:05–10:20

For distribution: DTH and feeds to terrestrial networks



My presentation is covering the Use of satellite for distribution to Transmission facilities, affiliates and for Direct-to-Home broadcasting

Robert Webber (BBC) is a Senior Distribution Manager with the BBC International Services Distribution Operations Team. Day to day Robert is responsible for ensuring the distribution of TV and Radio content internationally for the BBC on both satellite and terrestrial platforms. Robert also represents the BBC at a number of international fora including in the EBU and

ITU. Within the EBU Robert is Vice-Chair of the S-EIC project team dealing with Electromagnetic compatibility and RF Hazard assessment.

10:20–10:35

For contribution and newsgathering



The presentation will describe the actual use of signal transmission via satellite for outside broadcast of SWR (Südwestrundfunk), the changes in the last years and the perspective for the future.

Jörg Funk (ARD/SWR) Born 27.10.1963 in Wülfrath/Germany. Graduated as engineer for video- and audioteknik ("Dipl. Ing. Ton und Bildtechnik") at Music Academy Robert Schumann and technical college Düsseldorf in 1990.

1990-1991 Software-Engineer at Hessischer Rundfunk, Frankfurt

1991-1992 Production-Engineer at Television Frankfurt

1992-1996 Engineer of duty at SAT.1 Mainz

1997-2000 Head of Department Editing and Vision-Mixing at SAT.1 Mainz

2000-2007 Head of Postproduction at Media Service Centre Rhein-Mainn Mainz

2008-2015 Head Video-Operating and Layout at SWR Baden-Baden

since 2016 Head of Department Outside Broadcast at SWR in Stuttgart.

10:50–11:00 **Panel discussion and conclusions**

11:00–11:15 *Coffee break* –

NEW SATELLITE TECHNOLOGIES

Moderated by Cath Westcott (BBC)



Cath is a Senior Distribution Manager at BBC and heads the regulatory team in BBC International Services Distribution. Cath has represented the interests of the BBC's international operations in UK, European and international technical regulatory meetings since 2005. She has attended five World Radio Conferences and three Plenipotentiary Conferences on the UK delegation. Cath chairs the EBU's Electromagnetic Interference and Compatibility Project Group (part of the Spectrum Strategic Programme) and works closely with EBU on events to celebrate ITU's International Girls in ICT Day, the annual global event encouraging girls and young women into STEM and ICT.

11:15–11:30

The rise of nGSO and opportunities presented

What exactly do we mean by nGSO? Are there options regarding altitudes and how do these impact on latency times, and how quickly do they appear to transit the sky? What ground equipment is needed? And, although the satellites are not stationary, how do nGSO systems maintain continuity of service? Mike's short presentation will give an illuminating insight into the key elements of non-geostationary (nGSO) satellite systems, explaining the differences between these and the more conventional geostationary (GSO) satellites. Mike will talk about ground equipment, including user terminals too, their complexities, capabilities, achievable bandwidths and of course costs.



[Mike Walsh \(Methera\)](#)

Mike has worked across the broadcasting and satellite sectors for over 40 years, in a number of roles, from operational engineering, design and development engineering, sales, account management and business development. Mike has worked for the BBC, for British Aerospace (now Airbus) and for over 20 years at Arqiva, the UK's leading provider of TV & Satellite ground infrastructure, based at the Chalfont Grove Teleport. Mike has had technical papers published jointly with University of Surrey, where he has also been a guest lecturer. For the past five years, Mike has been employed by Methera Global Communications as a systems engineer, focusing on ground segment and on regulatory issues. Methera is a small UK based satellite operator whose dual vision is firstly to fulfil the growing, global, transient requirements for ultrafast satellite broadband

connectivity and secondly to introduces Space Domain Awareness services to its system to complement its package of broadband services. Methera plans a multi-orbit constellation which will include both low and medium (LEO and MEO) orbit satellites.

11:30–11:45

The D2D satellite use case



This presentation will describe the evolution of the Emergency SOS via Satellite feature on the iPhone 14 and 15, including the regulatory considerations associated with this feature's launch. It will also address Apple's perspective as a handset manufacturer on the evolution of Direct to Device regulations, including WRC-27 AI 1.13.

Guy Christiansen (Apple)

Guy is based in Munich and is the satellite regulatory focal at Apple where he advises on spectrum and licensing issues pertaining to Direct to Device communications. Guy has worked on a wide variety of ITU and authorization-related issues involving new satellite technologies with Alcatel/SkyBridge, Boeing, Inmarsat and Viasat.

11:45–12:00

5G Broadcast in a multilayer, anywhere, resilient and sustainable ecosystem



Antonio Arcidiacono (EBU)

Antonio is Director of Technology & Innovation at the European Broadcasting Union where he manages a team of international experts to stimulate and support the Innovation and R&D activities of EBU Members.

He is at the origin of the development of several AI-based media products from EuroVOX, an open toolbox for language management (<https://tech.ebu.ch/eurovox>), to the News Pilot combining news from 28 EBU Members supported by EuroVOX and PEACH

recommendation tools (<https://peach.ebu.io/>)

Antonio is Chair of the 5G Media Action Group (www.5G-MAG.com), a global organization representing the interests of the media in the 5G and 3GPP fields, as well as Chair of the Joint Technical Committee ETSI, CENELEC and EBU.

As a founding member of DVB and member of the Board since its creation in 1993, he has worked on the development of new satellite systems and services in both the technical and commercial sectors developing the first satellite IOT services platform and the first satellite OTT services. He has participated in the development of the first GSM services and was responsible for the development and launch of the first digital TV services in Europe.

He began his career working for Telespazio and Selenia Spazio. Inventor/co-inventor of 19 international patents, author of many technical articles, he is also the editor of Tech-i, a magazine dedicated to innovation in the world of Media.

12:00–12:15

5G NTN, what's in it for the satellite industry?

In the presentation, I will highlight the three revolutions that 5G NTN has brought to the Telco sector, the satellite industry, and end users.



José Luis Alcolea (Hispasat)

José Luis serves as the 5G Strategy Manager, reporting directly to the Head of Innovation at Hispasat.

In this role, he is building the development of the 5G connectivity strategy, leading initiatives that capitalize on new market opportunities driven by 5G NTN.

José Luis is a Telecommunication engineer with nearly 20 years of experience in the Telco sector. He has navigated various segments of the industry, including roles at engineering companies, consulting firms, utilities, telco vendors, and mobile network operators (MNOs). His diverse responsibilities have spanned strategy, innovation, design, deployment, pre-sales and post-sales. In addition to his extensive technical expertise in 5G mobile communications, he maintains a broad perspective on commercial trends in both terrestrial and satellite telecommunications.

Before transitioning into the Space communications arena, José Luis headed the DAS/Small Competence Center at Vantage Towers (Vodafone Group).

12:15–12:30 **Panel discussion: The satellite revolution and opportunities for the media industry**

12:30–13:30 *Lunch break* –

REGULATION OF SATELLITES

Moderated by David Hemingway (BBC)

13:30–14:00

The current regulatory regime: ITU RR and various Appendixes

Anna discusses why the World Radiocommunication Conference (WRC) in 2027 offers an “agenda of opportunities” with a strong satellite focus, offering insights on how the International Telecommunication Union (ITU) regulates satellite use and perspectives on how these regulations can accommodate greater use of non-geostationary systems while protecting geostationary networks.



[Anna Marklund \(SES\)](#)

As Vice President of WRC Affairs, Anna leads SES’s Spectrum and Regulatory efforts for the World Radiocommunication Conference (WRC) in 2027, aiming to defend and widen spectrum usage opportunities for the company’s geostationary and non-geostationary satellite fleet. Anna is also an active participant in the work of the International Telecommunication Union (ITU) and chaired Committee 5 on satellite and scientific matters at WRC-23. Additionally, Anna participates in the European Conference of Postal and Telecommunications Administrations (CEPT) as a Swedish delegate, and she has been nominated fourth consecutive times as CEPT Coordinator for the standing Agenda Item 7,

which considers possible improvements to satellite coordination procedures.

Anna has worked in Spectrum Management and Development at SES since 2010. Prior to SES, she worked at several Swedish Authorities as a Research Engineer, Assistant Director and Special Advisor, investigating media technology related issues and advising the Swedish Government to inform policy decisions related to future media development in Sweden.

Anna holds a Master of Science in Mechanical Engineering from the KTH Royal Institute of Technology in Sweden.

14:00–14:30

WRC-27: The satellite-heavy WRC

My presentation will be about the satellite related issues of WRC-27.



[Thomas Welter \(ANFR\)](#)

Thomas is a graduate engineer from Universität Karlsruhe in Germany (1996) and Télécom SudParis (1996). He complemented his training as a telecom engineer with a master’s degree in digital economics and network industries, delivered by Télécom Paris in partnership with Ecole Polytechnique, and the Universities of Paris-Dauphine and Paris-Saclay, as well as a master’s degree in space and telecommunications law, delivered by the University of Paris-Saclay. He began his career in satellite broadcasting at Société Européenne des Satellites (SES) in Luxembourg (1996-1998), then worked at Bouygues

Telecom (1998-2005) and SFR (2005-2017) in France in the field of mobile communications and spectrum regulation. Since 2017, he has been the head of the regulatory and orbital/spectrum resources department at France’s Agence Nationale des Fréquences.

14:30-15:00 **Agenda items of relevance to EBU Members and possible cooperation with the satellite industry**

15:00 *End of workshop* –