



The only event  
dedicated to  
DAB digital radio

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Event partners





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Xperi invents, develops, and delivers technologies that enable extraordinary experiences. Xperi technologies, delivered via our brands: **DTS, HD Radio, IMAX Enhanced, Invenas, TiVo**, and by our startup, **Perceive**, make entertainment more entertaining, and smart devices smarter. Xperi technologies are integrated into billions of consumer devices, media platforms, and semiconductors worldwide, driving increased value for partners, customers and consumers around the globe.

Xperi's automotive technologies, **DTS AutoSense, DTS Connected Radio** and **HD Radio** are designed to improve the in-vehicle experience, making it safer and more enjoyable. **DTS AutoSense** comprises occupant and driver monitoring vision solutions, implemented at the edge. **HD Radio**, which resides in more than 70 million automobiles, is the most successfully deployed digital radio system in autos worldwide. **DTS Connected Radio**, built on the largest and deepest data set of broadcast and music metadata, combines over the air broadcast with IP-delivered content for a robust, richer, more personalized in-cabin infotainment experience.

A world leader in smartphone apps for radio stations and visual radio broadcast systems, Xperi's **All in Media** is dedicated to creating innovative technology solutions for broadcasters and their listeners, delivering leading radio experiences in the vehicle, on mobile devices, and in connected devices for the home.

[www.xperi.com](http://www.xperi.com)



# Welcome

Dear colleagues

Welcome to WorldDAB's first virtual General Assembly.

2020 has been a challenging period – with remote working and constrained social lives becoming dominant factors for us all. On top of this, COVID has had a significant impact on many organisations within the WorldDAB family – not least commercial radio and the automotive sector, but none of us is unaffected.

Against this background, it is remarkable how much progress is being made in the world of DAB radio. In part, this reflects the central role which radio plays in the lives of listeners – especially in times of crisis. It is also evidence of the momentum driving DAB+ across a growing number of international markets.

In Europe, significant events include the launch of a second national multiplex in Germany, Swiss plans for FM switch-off and the continued roll-out of DAB+ in France. The European Electronics Communications Code comes into force in December and, in Italy, we have the first country to require all new radio receivers to have DAB+.

Interest in DAB+ is also growing outside of Europe – in particular, in Africa & the Middle East and the Asia Pacific region. Unprecedented numbers of participants attended our recent webinars for those regions – organised respectively with our partners, the Arab States Broadcasting Union and the Asian Broadcasting Union.

This year's General Assembly will be quite different from those with which we are all familiar. This year, there is no grand dinner. That said, I know that Bernie, the Project Office team and all our speakers have made an enormous effort to make this year's event as engaging and informative as possible. My thanks go to all of them.

I hope you enjoy the occasion.

Best wishes  
**Patrick Hannon, President, WorldDAB**

# XPERI<sup>®</sup>

Committed to the success of broadcasters everywhere, large and small.



CONNECTED CAR  
Meeting OEM and  
listener expectations.



CONNECTED HOME  
Apps and radio/smart  
speaker integration.



STUDIO SYSTEMS  
Powering visual radio.

# DAB/DAB+

Systems from Germany



Event partner

MAGIC AE1 DAB+ Go  
Audio Encoder



MAGIC AE4 DAB/DAB+  
Audio Encoder



MAGIC DABMUX Go  
Ensemble Multiplexer



MAGIC DABMUX plus  
Ensemble Multiplexer



MAGIC EEC  
ETI/EDI Converter



MAGIC SDC  
ETI/EDI Switch



MAGIC AD1  
ETI/EDI Decoder



DABRF  
RF/EDI Analyser



DAB-XPlorer  
ETI/EDI Analyser



MAGIC TBR  
Tunnel-Break in



[www.avt-nbg.de](http://www.avt-nbg.de)  
[info@avt-nbg.de](mailto:info@avt-nbg.de)

AVT Audio Video Technologies was founded in 1996 in Nuremberg as a manufacturer for professional audio equipment.

Today, AVT is a leading manufacturer of DAB technology offering reliable hardware and software solutions for small, cost effective setups as well as scalable, fully redundant head ends.

By tailoring individual solutions aimed at the changing requirements of a developing market, AVT equips its partners with the technology necessary to shape the media landscape of tomorrow.

While steadily developing new systems to connect digital infrastructure and broadcast, we also make sure to continuously improve our existing products by implementing new features to enable sustained use. All our hardware systems are DSP based to offer highest reliability for a prolonged lifecycle.

AVT has more than two decades of comprehensive audio knowledge and offers more than just DAB products. As one of the leading manufacturers of telephone hybrid systems and audio codecs, we are also able to realise cross-system integrations. The AVT systems, which are developed and manufactured in Germany, are deployed worldwide via national distributors. This gives us the opportunity to monitor global developments in broadcast and provide comprehensive solutions.

[www.avt-nbg.de](http://www.avt-nbg.de)

DAB/DAB+ systems  
simple. capable. reliable.





Consulting

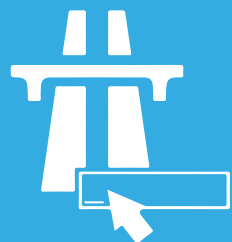
[WEcanTPEG.com](http://WEcanTPEG.com)



TPEG  
ON AIR



TPEG  
ANALYSER



TPEG  
EDITOR



TPEG  
Decoder Library



Event partner

bmt is a competence centre for the realisation of projects within the scope of digital broadcasting. For years, bmt has been active in the specification and implementation of DAB and TPEG (Transport Protocol Expert Group) services. This includes both consulting services and products like TPEG ON AIR, TPEG Analyser, TPEG Editor and TPEG Library. The Bayerische Medien Technik (bmt) offers professional-grade technical expertise in the IT field, especially as regards digital broadcast media.

Given the constellation of its ownership, the bmt represents an ideal partner for public and private broadcasters, as well as device makers and service providers. The standard catalogue of services is built around the latest technology, with an additional portfolio of interfaces, data conversation and data service provisioning through its specialized departments.

The bmt supports the traffic computer system for Bayerischer Rundfunk and delivers traffic telematics data on the internet, over digital radio and more.

[www.wecantpeg.com](http://www.wecantpeg.com)



100% IP Based

**FlexiDAB**  
Head End  
**EasySpy**  
Monitoring

- **Audio over IP** for contribution
- **Data over IP** for file and streaming content
- **EDI** for distribution
- **HTTP/HTTPS** for configuration
- **SNMP** for supervision
- **NTP** for synchronization

**DAB** by  
**DiGiDiA**  
Intelligent digital communications



[www.digidia.fr](http://www.digidia.fr)

Founded in 2005 DIGIDIA has emerged as one of the leading companies for digital radio transmission equipment with digital radio systems deployed all over the world in three technologies: DAB/DAB+/DMB, SynchronousFM and DRM30/DRM+. For DAB we provide end-to-end solutions for broadcast and test applications. The broadcast transmission range encompasses DAB/DAB+ head ends (multiplexers, encoders), IP gateways for EDI & ETI and road tunnel transmission/break-in products. The monitoring range includes professional RF receivers and EDI/ETI/RF monitoring devices. All products are provided for both industrial PC and virtual platforms. DIGIDIA leads the way with straightforward software and hardware designs that are innovative, flexible, and compact. All products are IP based and contain the latest COFDM and Software Defined Radio technology on state-of-the-art PC and GPP/FPGA/DSP platforms.

[www.digidia.fr](http://www.digidia.fr)



# DAB Radio Innovations



## Expanded Range of High-Efficiency DAB Radio Transmitter Solutions



[www.gatesair.com](http://www.gatesair.com)



Event partner

GatesAir (formerly Harris Broadcast) has been an innovator in over-the-air broadcasting for nearly 100 years, and today offers the industry's broadest portfolio with the most energy-efficient TV & Radio transmitters to help broadcasters deliver and monetize content around the globe.

GatesAir is the only company to support all digital radio standards (including DAB/DAB+), and our over-the-air customers rely on our networking and transmission solutions to maximize new revenue opportunities. Our innovative and expanded solutions will help you achieve the outstanding sound quality and reception required to attract, retain and grow your audience share while delivering low total cost of ownership.

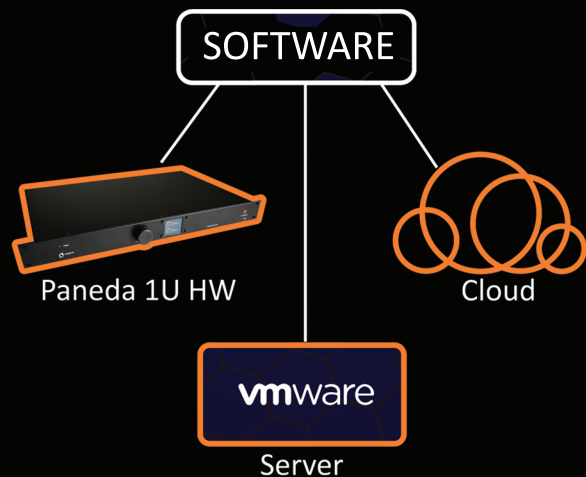
GatesAir's Intraplex solutions give broadcasters bandwidth-rich solutions for moving content over IP networks, with visibility into stream and network performance. We continue to innovate robust and reliable solutions for traditional RF STL connections that can also accommodate IP traffic. In larger transmitter networks, Simulcasting technology ensures all GatesAir transmitters are time-locked for synchronous, over-the-air content delivery.

[www.gatesair.com](http://www.gatesair.com)





# DAB HEAD-END SYSTEMS



The Paneda DAB multiplexer system utilizes the most modern system on the market and is developed with the very latest technology. The Paneda multiplexer system offers several unique features:

- Paneda SMART content aware switching
- Virtual providers enables sharing platforms.
- Unique audio source redundancy with seamless switching.
- Highest level of security, using SSL, trusted certificates, A+ ranked.
- PFT synhronization and time shifting



Event partner

Paneda offers innovative and cost-effective DAB solutions: safety systems, broadcast networks and broadcast systems. Nearly 200 tunnels in Norway are equipped with Paneda systems. Many local and public European broadcasters are using Paneda DAB Head-End systems with a complete range of products including multiplexing, audio encoders, data insertion and content management.

[www.paneda.no](http://www.paneda.no)





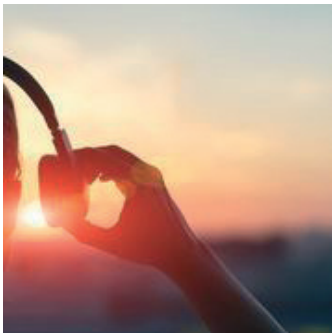
Radio World is the leading news and career resource for today's global, multiplatform radio professionals.

Audio is hot, and radio is audio. In fact the radio industry is morphing into the leading segment of the broader and fast-growing audio universe. As consumer demand for news, music and other audio content soars, the executives, engineers and other technologists who run radio/audio organizations need relevant information to drive their careers and guide their business strategies.

Led by Editor in Chief Paul McLane, Radio World, which is now in its 44th year, is dedicated to serving these readers around the world with relevant compelling content, real journalism, practical tech coverage and commentaries by opinion drivers. We aim to keep these broadcast professionals informed about emerging technologies, regulation and consumer trends.

Our comprehensive coverage includes resources such as eBooks, webcasts and Buyer's Guides, along with the Radio World Engineering Extra, published six times annually and including white papers, digital radio tips and commentary by engineers, for engineers.

[www.radioworld.com](http://www.radioworld.com)



RedTech Tribe is a business and technology publication and platform for the international radio and digital audio industries. With a weekly newsletter and a bimonthly print issue, RedTech covers the latest trends and developments impacting the global radio and audio sectors. The publication reaches executives who manage and operate radio stations, networks, sales houses, music production companies, and more.

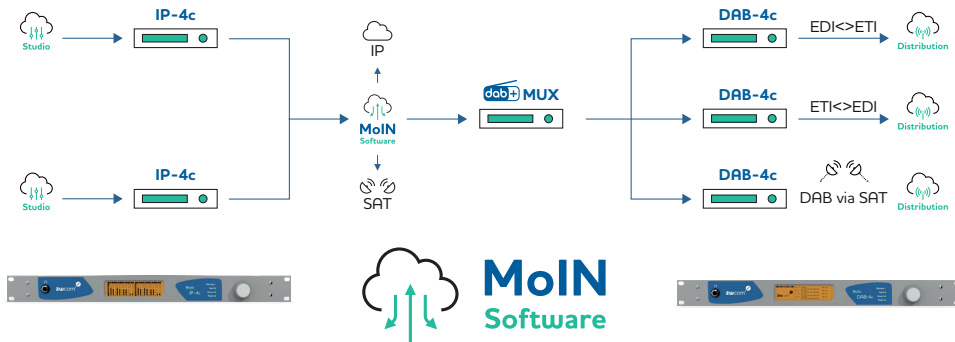
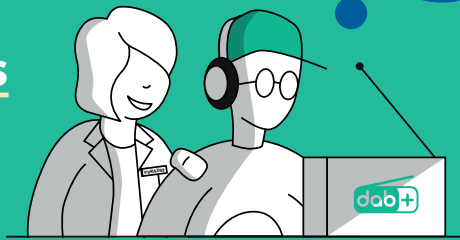
As an international publication and community for the professional radio and audio industries and with contributors located in every corner of the universe, RedTech Tribe is built upon the philosophy of informing, connecting and exchanging.

We connect the global radio and digital audio industries at a local level.

[www.redtechtribe.com](http://www.redtechtribe.com)

# 2wcom's new 4audio series guarantee flexibility in operation of mixed networks

Solved



## IP-4c four-channel Audio over IP codec

Separating the audio part from the DAB multiplexing system provides independence for all network sites. The device supports all main standards or protocols for Audio over IP interoperability as well as all qualities of audio algorithms. In addition, an outstanding transmission robustness ensures 24/7 broadcast operation, especially in WAN networks.

## 2wcom's Multimedia over IP Network Server

Installed on a server, a VM, or as a cloud service, the MoIN software enables to receive the signal transmitted by the IP-4c. Besides, it allows signal adjustment depending on which source is used for distribution, regardless of whether it is DAB, IP, or Satellite.

## DAB-4c high density EDI<->ETI converter

The high-density converter is an expert in dealing with special challenges. Besides its core function, the device allows to transmit the DAB signals via SAT or ASI to optimize coverage and distribute programs to regions that are still lacking broadband IP.

Your audio. Our solution.



# THE FIRST DIGITALRADIO DAB+ NATIONAL OPERATOR IN ITALY

**19** NATIONAL PROGRAMMES TOTAL

**8** DAB+ SIMULCAST

**11** DAB+ EXCLUSIVE

82% OF POPULATION ► OUTDOOR MOBILE COVERAGE

57% OF POPULATION ► INDOOR COVERAGE

5.300 KM OF HIGHWAYS COVERED





Session 1 09:00 – 10:10 GMT\*

## Building audiences with digital radio

### President's overview

**Patrick Hannon** gives an update on the major DAB+ developments in in 2020, covering Europe, Africa, MENA and Asia Pacific regions. He outlines WorldDAB's priorities for the next three years, positioning DAB+ at the heart of radio's digital future, encouraging the uptake of DAB+ in new markets, and ensuring the widespread availability of DAB+ in cars and consumer receivers.

### The future of radio

DAB+ is quickly becoming the platform of choice for listeners across the globe, from Europe to Australia. **James Cridland** shares his view on what the future holds for radio, in an increasingly multiplatform world with new listening habits and evolving audio content.

### More choice on DAB+

Germany's second national DAB+ multiplex launched on 5 November, marking the beginning of a new era. **Joe Pawlas** outlines how DAB+ changes Germany's radio landscape and gives new impetus to the advertising market.

### From FM to DAB+

The Swiss radio industry switches over from FM to DAB+ during 2022-2023.

Hear from **Iso Rechsteiner**, **Bernard Maissen** and **Jessica Allemann** about the DSO process, the latest listening figures and how the Swiss Confederation is supporting the radio industry in the FM switch-off.

### Norway's DSO

Norway was the first country to switch off national FM in 2017 – but how does the radio listening landscape look today? Get the latest perspective from public broadcaster NRK and commercial radio group P4 with **Ole Jorgen Torvmark**, **Cathinka Rondan** and **Kenneth Andresen**.

### UK radio and audio review

In the UK almost 60% of all listening is digital – which has prompted the launch of a Review of Radio and Audio. **Yvette Dore** gives an overview of the UK radio market and **Ian O'Neill** provides an update on the progress of the Government Review.

### France national DAB+

France has a double celebration in 2021 – 100 years of radio and the launch of national DAB+. **Nicolas Curien** and **Francois-Xavier Bergot** from the French media regulator, the CSA, tell us about France's longer term plans for DAB+, and why it sits at the heart of France's radio strategy.

\* All timings are approximate

10:10 – 10:20 GMT • Coffee break



**Patrick Hannon**  
President,  
WorldDAB



**James Cridland**  
Radio  
Futurologist  
and Editor of  
Podnews



**Joe Pawlas**  
Chief Executive  
Officer, Antenne  
Deutschland



**Iso Rechsteiner**  
Project  
Manager,  
DigiMig Working  
Group



**Bernard Maissen**  
Director,  
OFCOM



**Jessica Allemann**  
Head of  
Research,  
DigiMig



**Ole Jorgen Torvmark**  
Head of  
Platform  
Partnerships,  
Radioplayer  
Worldwide



**Cathinka Rondan**  
Head of Radio,  
NRK



**Kenneth Andresen**  
CEO, P4



**Ian O'Neill**  
Head of  
Radio; Head  
of Television,  
Department for  
Culture, Media  
and Sport



**Yvette Dore**  
Communications  
Director, Digital  
Radio UK



**Nicolas Curien**  
Board Member,  
CSA



**Francois-Xavier Bergot**  
Deputy Head  
of Radio  
Directorate, CSA



Session 2 10:20 – 11:10 GMT\*

## Reaching the listener on DAB+

### Marketing DAB+

**Jacqueline Bierhorst**, Chair of the WorldDAB Marketing Group provides an overview of how broadcasters in different markets are informing their listeners about DAB+, and how WorldDAB can help broadcasters develop their DAB+ marketing strategies.

### Communicating for DSO

An overview of Switzerland's DSO communications strategy from **Iso Rechsteiner** and **Tobias Händler** at the agency commissioned to carry out the campaign and from **DABSY**, the voice behind the campaign.

### Marketing for retail and e-tail

**Ford Ennals** joins us direct from London's Oxford Street to tell us about the UK's focus on educating consumers and retailers about the changing face of digital devices and stations – "Radio's Digital Revolution".

### Messaging for more

How are Germany's broadcasters helping listeners tune into the exciting new DAB+ offering that is now available across the country? Hear from **Carsten Zorger** about an innovative partnership with a major DAB+ receiver manufacturer, inviting listeners to design their own DAB+ radio.

### Device sales

An overview from **Max Templeman** on the latest data on DAB+ device sales, how Covid-19 has impacted the consumer audio devices market, and GfK's insights on which types of devices listeners are buying today.

\* All timings are approximate

11:10 – 11:20 GMT • Coffee break



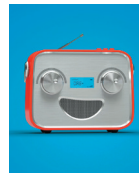
**Jacqueline Bierhorst**  
Project Director,  
Digital Radio  
Netherlands



**Iso Rechsteiner**  
Project  
Manager,  
Digimig Working  
Group



**Tobias Händler**  
CEO, Scholz &  
Friends



**DABSY**  
DAB+ media  
personality



**Ford Ennals**  
CEO, Digital  
Radio UK



**Carsten Zorger**  
Director,  
Digitalradio  
Büro  
Deutschland



**Max Templeman**  
Insight Director,  
Consumer  
Electronics GfK



Session 3 11:20 – 12:20 GMT\*

## What's happening elsewhere on DAB+

### Australia

Commercial broadcasters in Australia are committed to DAB+. **Joan Warner** asks **Grant Blackley** why DAB+ sits at the heart of his radio distribution mix.

### South Africa

This year saw the publication of a policy directive for the implementation of Digital Sound Broadcasting in South Africa. The media regulator ICASA must now prioritise licensing. **Lynn Mansfield** in conversation with **Dimakatso Qocha**.

### Czech Republic

Czech Republic is a regional champion for DAB+, now with national coverage and an enriched radio offering for listeners. For **René Zavoral**, collaboration with local car manufacturer Skoda is a key element at the heart of the DAB+ rollout strategy.

### MENA region

While broadcasters in the MENA region face similar challenges to elsewhere, **Bassil Zoubi** explains how DAB+ is offering new horizons for radio broadcasters across the region.

### Spain

DAB+ is back on the table for Spain. **Javier Sanchez Perez** outlines the motivation behind recent calls for a parliamentary debate on the urgent implementation of DAB+.

### Italy

**Giorgio Guana** discusses why DAB+ consumer sales almost tripled in the first half 2020 following the introduction of rules requiring all receivers to have DAB+ from 1st January 2020.

\* All timings are approximate

12:20 – 13:00 GMT • LUNCH



**Joan Warner**  
CEO,  
Commercial  
Radio Australia



**Grant Blackley**  
CEO and MD,  
Southern Cross  
Austereo



**Lynn Mansfield**  
Executive  
Advisory,  
eMedia



**Dimakatso Qocha**  
Councillor,  
ICASA



**René Zavoral**  
Director  
General, Czech  
Radio



**Bassil Zoubi**  
Director of  
Technology and  
Development,  
Arab States  
Broadcasting  
Union



**Javier Sanchez Perez**  
Head of  
Strategy, RTVE  
Innovation  
Centre



**Giorgio Guana**  
WorldDAB Italy



Session 4 13:00 – 13:50 GMT\*

## DAB+ energy and distribution

### Energy saving

**Chloe Fletcher** considers the energy footprint of BBC radio services across various platforms, analysing current usage and how this may change over the next 20 years.

### 5G

The EBU project group 5G Deployments addresses technical and non-technical issues related to 5G. The project group chair – **Darko Ratkaj** – is ideally positioned to tell us about the status of 5G and what role it can play for broadcasters in the future – and critically when – taking into consideration business models and existing technologies.

### DAB+ for community radio

Small-scale DAB is an innovative technology that provides a low-cost route to digital broadcasting for local commercial, community and specialist radio stations. A dual perspective from community broadcaster **Ash Elford** and network operator **David Duffy** on how small-scale DAB is helping community and local broadcasters in the UK reach their audience.

### Regional expansion

Australia launched DAB+ by starting first with the five main metro cities. **Les Sabel** tells us how Australia is now expanding that coverage to the wider regional population. He outlines the approach taken, planning principals and how discussion and cooperation across stakeholders has resulted in a positive outcome

### Nationwide

In Germany DAB+ now reaches 83.8 million people – 98% of the population. Network operator Media Broadcast sold their FM infrastructure in 2018 to focus on digital growth. **Verena Schmitz** outlines how they went about planning and building out Germany's two national multiplexes

\* All timings are approximate

13:50 – 14:00 GMT • Coffee break



**Chloe Fletcher**  
Sustainability  
Data Scientist,  
BBC Research &  
Development



**Darko Ratkaj**  
Senior Project  
Manager –  
Technology &  
Innovation, EBU



**Ash Elford**  
Digital  
Development  
Manager, Angel  
Radio



**David Duffy**  
Founding  
Partner, Niocom  
Associates



**Les Sabel**  
Founder,  
S-Comm  
Technologies



**Verena Schmitz**,  
Head of  
Strategy, Media  
Broadcast



Session 5 14:00 – 15:00 GMT\*

## Driving digital radio forward

### EECC

The EU mandate that all new car radios should be able to receive digital terrestrial broadcasts has transformed the prospects for DAB+ in Europe. WorldDAB President **Patrick Hannon** gives an update on the status of the EECC implementation across Europe.

### Future auto trends

**Roger Lancot** looks at the major issues facing the automotive industry today, and the trends that will affect radio in the coming years.

### Android automotive

Xperi's **Joseph d'Angelo** and Google's **Guru Nagarajan** discuss what Android Automotive means for broadcast radio's future in the car, and how broadcasters can preserve radio's strong position in the dash.

### VIDEO: Xperi

### Metadata

Visual information plays an important role in providing a positive digital radio experience for drivers. **Laurence Harrison** explains how metadata can provide a richer experience for the driver.

### What the experts say

Part I of a quickfire session – WorldDAB's **Rosie Smith** asks the experts for their predictions on the future of audio in the car.

### Measuring listening on DAB

**Nick Piggott** gives an overview of the recently launched RadioDNS open source project that will allow broadcasters to track and measure in-car listening across different platforms – analogue, DAB+ and streaming.

### Service following

A good implementation of service following is crucial for both broadcasters and vehicle manufacturers – seamlessly linking from DAB to FM and FM to DAB. **Håvard Wien** look at the status of service following in key EU markets

### VIDEO: WorldDAB Automotive Working Group – Aftermarket Devices

### What the experts say – Part 2

Part II of **Rosie Smith's** quickfire session on the future of audio in the car.

\* All timings are approximate

End



**Patrick Hannon**  
President,  
WorldDAB



**Roger Lancot**  
Director  
Automotive  
Connected  
Mobility,  
Strategy  
Analytics



**Joseph d'Angelo**  
Senior Vice  
President,  
Broadcast  
Radio, Xperi



**Guru Nagarajan**  
Engineering  
Manager,  
Android  
Automotive  
OS Platform,  
Google



**Laurence Harrison**  
Chairman,  
WorldDAB  
Automotive  
Working Group



**Rosie Smith**  
Project  
Manager  
Automotive,  
WorldDAB



**David Layer**  
Vice President,  
Advanced  
Engineering,  
NAB



**Lindsey Mack**  
Senior Manager  
DAB & BBC  
Sounds External  
Affairs, BBC



**Martin Koch**  
Head of  
Development  
Entertainment  
& Car Functions,  
Audi



**Nick Piggott**  
Project Director,  
RadioDNS



**Håvard Wien**  
NRK



**Xavier Filliol**  
COO, Radioline



**Caspar Adriani**  
CTO, Pluxbox

# OUR UNIQUE IN-SERVICE TDR FOR YOUR DAB ANTENNAS

The VSWR/RL Degradation is the Right Information to be known in order to Prevent any kind of Failures

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**RFHAWKEYE** 



DAC SYSTEM SA, SWITZERLAND

E-mail: [sales@dacsystem.ch](mailto:sales@dacsystem.ch) - Website: [www.dacsystem.ch](http://www.dacsystem.ch)

**DAC**  **SYSTEM**



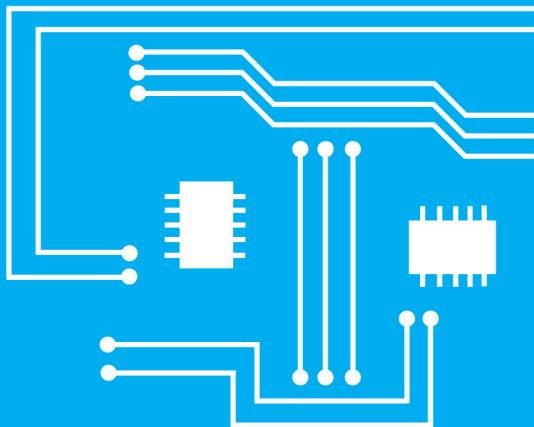




Thank you to all our speakers

# GLOVANE

Forward in advance



Application : Radio, BT Speaker , etc.

## Glovane makes the best DAB chipset



for Consumer



for Automotive



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HYBRID RADIO

## The future of radio in the connected car



Now implemented in Audi, BMW, VW and Porsche vehicles in Europe and North America.

### Our open technology standards combine broadcast radio and IP, and they're perfectly aligned with DAB+

Find out about how our open technology and usage standards can help you transfer metadata, content and analytics between radio stations and the connected car to enhance the experience of broadcast radio. [radiodns.org](http://radiodns.org)

# RadioDNS<sup>®</sup>

HYBRID RADIO

RadioDNS is the global not-for-profit membership organisation that promotes open technical standards for hybrid radio, with members from automotive, broadcast radio and technology providers.

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world **dab**

# General Assembly 2021



Looking forward to seeing  
you all next year in Prague

[www.rymsarf.com](http://www.rymsarf.com)

「Shaping tomorrow's  
Digital Radio DAB」



## Leading innovation through digital radio

In broadcasting, the RYMSA brand is already playing an essential role in shaping the future of digital radio. To meet these greatest technological challenges

we design and manufacture **filters, combiners and antenna systems**. SENER Aeroespacial, your unique partner in DAB!



# WorldDAB Members

