

# The future of digital radio

WorldDAB  
General Assembly 2018  
6-7 November 2018  
Berlin, Germany



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## Driving antenna technology forwards



An AM/FM/DAB antenna with a short 23 cm mast and shallow mounting depth. Can used to replace an existing whip antenna.

This active antenna gives outstanding reception, delivering a clear crisp sound.



A high performance sleek active AM/FM/DAB sharkfin antenna with fully optimised digital radio reception. A series of separate seal adapters are available for use with new Mercedes and VW/Audi vehicles. \*NEW version 3785.01 has just been released with added GPS receiver.



Our classic "matchbox" 15 dB DAB gain amplifier/splitter for use with passive antenna.

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### HEADQUARTERS

#### ADDRESS

In der Buttergrube 3-7  
99428 Weimar Germany

#### PHONE

+49 3643 4771-100

#### MAIL

info@atbb.eu

#### WEB

www.atbb.eu

#### SCANDINAVIA AND EXPORT SALES

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**DAB**  
Digital Audio Broadcasting

# Welcome to Berlin for the WorldDAB General Assembly 2018

**Dear colleagues,**

Welcome to WorldDAB's 2018 General Assembly – this year in Berlin. These are exciting times for DAB digital radio. In the last 12 months, Norway has completed the switch-off of its national FM services and Switzerland is currently planning its own switchover, scheduled to run between 2020 and 2024.

A growing number of markets are committing to DAB+. I'm particularly pleased that since our last General Assembly in Paris, France has taken significant steps forward and Belgium can now be considered an established digital radio market. In more mature markets such as the UK, Germany, The Netherlands, Denmark, Italy and Australia, we are seeing significant progress in digital listening and evident growth in commercial revenues.

We are also seeing growing signs of international collaboration. WorldDAB has recently announced that the new DAB+ logo is available to use in international markets. My thanks to our German colleagues who developed this bright new representation of the DAB+ brand.

All this progress is now being recognised at a European level – with the forthcoming European Electronic Communications Code containing a requirement for new car radios sold in the EU to be capable of receiving digital terrestrial radio. Our next goal is to encourage individual countries to introduce similar rules for consumer devices. Italy has already done so, and France looks set to follow shortly. Outside of Europe, growing numbers of markets are undertaking DAB+ trials.

Of course, the world in which we operate is developing rapidly. DAB is not the only digital platform and the key to success is to position DAB at the core of broadcasters' digital strategies. Broadcast has unique characteristics – free-to-air, no third-party gatekeeper and reliable in emergencies. For the long-term health of radio, DAB will help ensure those qualities are preserved in the digital age.

All the above will be covered over the two days of the event. My thanks, as always, go to Bernie and the Project Office team. I hope you all enjoy the occasion.

Best wishes

**Patrick Hannon,  
President, WorldDAB**



**Patrick Hannon**  
President, WorldDAB

# Programme at a glance

## Day 1 Tuesday 6 November

11:00 11:30 **Registration**

11:30 12:30 **WorldDAB General Assembly (member only session)**

Steering Board – Patrick Hannon, President  
 Technical Committee – Lindsay Cornell, Chair  
 Asia Pacific Committee – Joan Warner, Chair  
 Regulatory and Spectrum Committee – Hanns Wolter, Chair  
 Finance Committee – Ron Schiffelers, Chair

12:30 14:00 **Lunch and registration**

14:00 15:00 **Session 1: Why radio is robust in a competitive audio environment**

**Chair:** Martin Liss, Media Expert, Germany  
**Keynote:** Michael Oschmann, Müller Media, Germany  
 Siobhan Kenny, Radiocentre, United Kingdom  
 Nicolas Curien, CSA, France  
 Joan Warner, Commercial Radio Australia

15:00 15:15 **Coffee**

15:15 16:30 **Session 2: Voice control, devices and how listeners are consuming radio**

**Chair:** Graham Dixon, EBU, Switzerland  
 Jan Lorbach, GfK, United Kingdom  
 Anthony Sethill, FrontierSmart Technologies, United Kingdom  
 Michael Hill, UK Radioplayer, United Kingdom  
 Simon Mason, Arqiva, United Kingdom

**Announcement – Recipient of 2018 WorldDAB Award for Outstanding Service**

19:00 22:30 **Gala Dinner – Käfer Dachgarten Restaurant, Berlin**

# Programme at a glance

## Day 2 Wednesday 7 November

09:00 10:00

### Session 3: Key decision makers summit

**Chair:** Helwin Lesch, Bayerischer Rundfunk, Germany  
 Patrick Hannon, WorldDAB, United Kingdom  
 Heike Raab, Staatssekretärin Rhineland-Palatinate, Germany  
 Bob Shennan, BBC, United Kingdom

10:00 10:30

### Coffee

10:30 12:05

### Session 4: Digital radio in the car

**Chair:** Ron Schiffelers, NXP, The Netherlands  
 Claudio Nervi, FCA Italy, Italy  
 Laurence Harrison, Digital Radio UK, United Kingdom  
 Franck Nowack, Ford Motor Company, Germany  
 Joe D'Angelo, Xperi, United States  
 Ben Poor, EBU, Switzerland  
 Martin Koch, AUDI, Germany  
 Hanns Wolter, DAB Italia, Italy

12:05 13:00

### Lunch

13:00 14:15

### Session 5: Country marketing updates

**Keynote:** Ole Jørgen Torvmark, CEO, Digital Radio Norway  
**EU Markets – Chair:** Jacqueline Bierhost, Digital Radio NL, The Netherlands  
 Carsten Zorger, Digitalradio Büro Deutschland, Germany  
 Ford Ennals, Digital Radio UK, United Kingdom  
 Iso Rechsteiner, DSO Switzerland, Switzerland  
 Jean-Marc Dubreuil, WorldDAB, France  
 Hanns Wolter, DAB Italia, Italy  
**Markets Beyond Europe – Chair:** Joan Warner, Commercial Radio Australia, Australia  
 Colonel Natee Sukonrat, NBTC, Thailand

14:15 15:20

### Session 6: DAB for success – new content, new brands, new markets

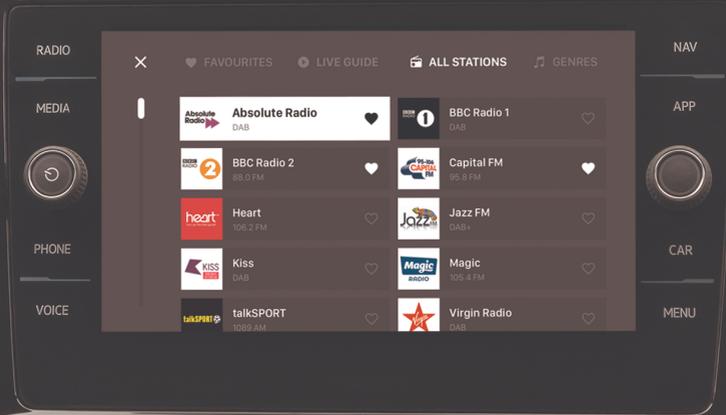
**Chair:** Nick Piggott, RadioDNS, United Kingdom  
 Petra Lemcke, sunshine live, Germany  
 Eugenio LaTeana, RTL 102.5 Hit Radio, Italy  
 Ragnhild Veire, NRK, Norway  
 Gabby Sanderson, Radio Presenter and DJ, United Kingdom  
**Q&A**

15:20

### Networking coffee – END



# COLLABORATING TO ENHANCE THE IN-CAR RADIO LISTENING EXPERIENCE



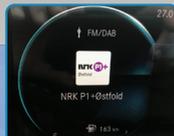
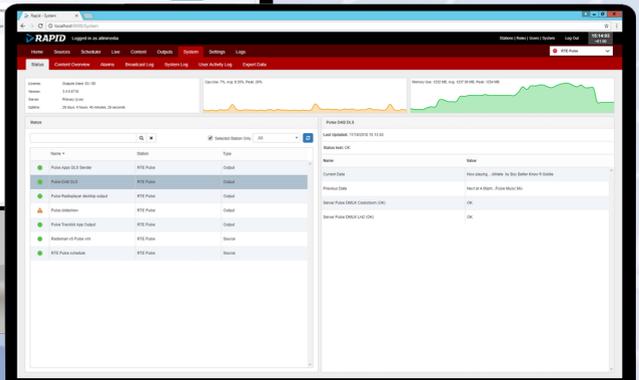
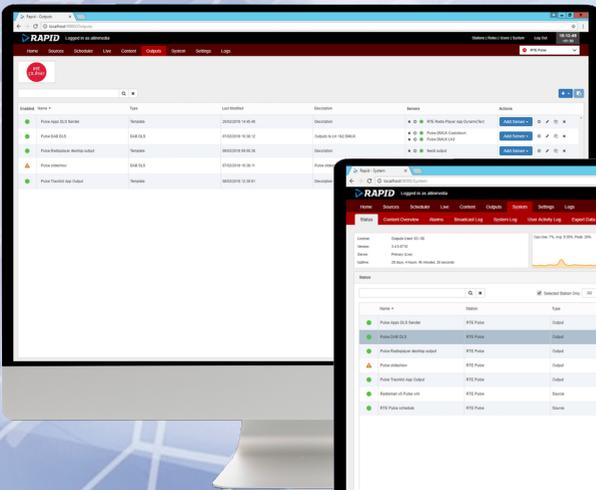
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# POWERING VISUAL RADIO SERVICES ON DAB



# Tuesday 11:30 – 12:30

## WorldDAB General Assembly (member only session)

WorldDAB's five main committees report on achievements over the last year, and the strategic focus for the year ahead. The recipient of the WorldDAB Award for Outstanding Service 2018 will be announced.

**Session moderator: Patrick Hannon, President, WorldDAB**

This session is open to members of WorldDAB only.

### Committee reports

Steering Board – Patrick Hannon, President, WorldDAB

Technical Committee – Lindsay Cornell, Chair

Asia Pacific Committee – Joan Warner, Chair

Regulatory and Spectrum Committee – Hanns Wolter, Chair

Treasurer - Ron Schiffelers

**ANNOUNCEMENT: 2018 WorldDAB Award for Outstanding Service**

**12:30 – 14:00 Lunch and registration**



**Patrick Hannon**  
President, WorldDAB



**Lindsay Cornell**  
Chair, Technical  
Committee



**Hanns Wolter**  
Chair, Regulatory and  
Spectrum Committee



**Ron Schiffelers**  
Treasurer



**Joan Warner**  
Chair, Asia Pacific  
Committee

# WorldDAB

## How we work

### Steering Board

Oversees the operational and financial management of WorldDAB and implements strategic measures to ensure the successful roll-out of DAB.

### Finance Committee

Provides financial oversight for the organisation, including budgeting and financial planning, financial reporting, and monitoring of internal controls and accountability policies.

### Technical Committee

Oversees and maintains the DAB family of standards, ensuring that receiver equipment and broadcast technologies are compatible. The committee also upgrades, advances and future-proofs the standard in line with other technical developments.

### Automotive Working Group

Works with automotive manufacturers and broadcasters to encourage the growth of digital radio penetration in automobiles. Working groups focus on the user experience, antenna/receiver performance, TPEG and after-market products.

### Asia Pacific Committee

Works with broadcasters to provide guidance and advice on the successful roll-out of DAB+ digital radio across the Asia Pacific region.

### Regulatory and Spectrum Committee

Provides guidance on the advantages of different regulatory approaches needed in countries with varying regulatory needs.

### Digital Switchover Group

Provides an opportunity to share best practice, coordinate planning and discuss activities for those countries in preparation of digital switchover.

### International Marketing Coordination Group

Provides an opportunity to share best practice and encourage collaboration and shared approaches on the marketing and promotion of DAB.

# Tuesday 14:00 – 15:00

## Session 1

# Why radio is robust in a competitive audio environment

In a dynamic and ever-evolving audio landscape, radio is in good health. The ongoing shift to digital is well under way, with DAB playing an important role in the radio mix. Broadcasters are innovating to deliver a wider diversity of programmes to the listener, while strengthening existing radio brands and attracting more listeners and revenue.

**Session moderator: Martin Liss, Media Expert, Germany**

**Keynote: Michael Oschmann, CEO, Müller Media, Germany**

### Views from industry leaders

Siobhan Kenny, CEO, Radiocentre, UK

Nicolas Curien, Board Member, CSA, France

Joan Warner, CEO, Commercial Radio Australia

### Q&A

15:00 – 15:15 Coffee



**Martin Liss**  
Media Expert,  
Germany



**Michael Oschmann**  
CEO, Müller Media,  
Germany



**Nicolas Curien**  
Board Member, CSA,  
France



**Joan Warner**  
CEO, Commercial  
Radio Australia,  
Australia



**Siobhan Kenny**  
CEO, Radiocentre, UK

# Tuesday 15:15 – 16:30

## Session 2

# Voice control and how listeners are consuming radio

Technology industry predictions highlight the potential for voice-controlled devices and changing listener behaviour as they become mainstream in the near future. DAB is part of the digital mix in an ecology which is more than radio and audio. With this historic shift in the consumption of audio, how will this impact radio listening? Our experts discuss the future of radio and the threats and opportunities a change in listener behaviour offers.

**Session moderator: Graham Dixon, Head of Radio, EBU**

### Consumer device trends in the evolving receiver and smart speaker landscape

Jan Lorbach, Regional Senior Insights Manager, Northern Europe, GfK, UK

### Innovation in DAB receivers

Anthony Sethill, CEO, Frontier Smart Technologies, UK

### Demo: Can DAB fit into a connected and interoperable world?

### Voice controls in the car – research findings and what next?

Michael Hill, Managing Director, Radioplayer, UK

### Radio and voice-controlled devices in the connected home

### Platforms and listening – the myths vs reality on listening in the car on the 4G networks

Simon Mason, Head of Broadcast Radio Technology, Arqiva, UK

### Q&A – Audience discussion on the future of digital radio in a changing audio landscape

### Announcement of the 2018 winner of the WorldDAB Award for Outstanding Service



**Graham Dixon**  
Head of Radio, EBU



**Jan Lorbach**  
Regional Senior  
Insights Manager,  
Northern Europe,  
GfK, UK



**Michael Hill**  
Managing Director,  
Radioplayer, UK



**Simon Mason**  
Head of Broadcast  
Radio Technology,  
Arqiva, UK



**Anthony Sethill**  
CEO, Frontier Smart  
Technologies, UK



## Open Standards for Hybrid Radio

**Hybrid radio** is the combination of broadcast radio and IP into one seamless experience. Our **open standards** are perfectly aligned with DAB/DAB+. **RadioDNS Hybrid Radio™** is the evolution of radio for the connected car.

[radiodns.org](http://radiodns.org) / @RadioDNS



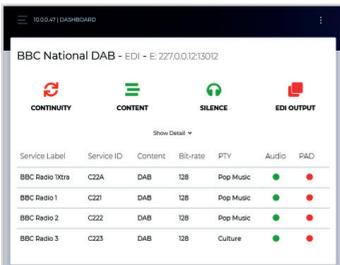


# OBSERVA

MONITORING & ANALYSIS

The OBSERVA monitoring range is the market leader for DAB+ network monitoring and analysis. Come and discover the latest updates!

## New Interface and Features



The **Multiplex Supervisor** boasts a new contemporary interface in an upcoming release.

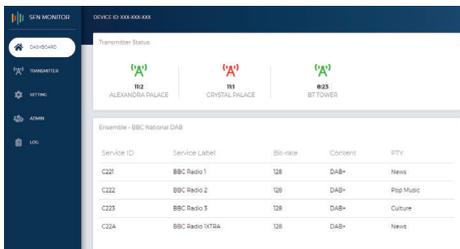
Key features include EDI, ETI and RF inputs, monitoring in real-time, recording and playback, SNMP notifications, and the newly added configuration history.

## New Platform

The **Field Monitor** is now available for pre-order on a dedicated tablet complete with on-board GPS. Supplied with two antennas, one portable and one for in-car measurements, this is bringing mobile measuring to a whole new level!



## New Product



The first professional equipment of its kind designed to make the deployment of your DAB network monitoring affordable. The **SFN Monitor** will allow for accurate measurements of power levels and transmitter timing with programmable alarm thresholds. Request a demo!

For more information  
visit [factumradioscape.com](http://factumradioscape.com)  
or call +44(0)2074067990



We will also be demonstrating our DAB broadcast system



# Tuesday 19:00 – 22:30

## Networking Drinks + Gala Dinner



**Käfer Dachgarten-Restaurant**  
**Reichstag Building, Platz der Republik 1**  
**11011 Berlin**

The Käfer Dachgarten-Restaurant is situated in a unique location: on the rooftop of the historic Reichstag building in the heart of Berlin.

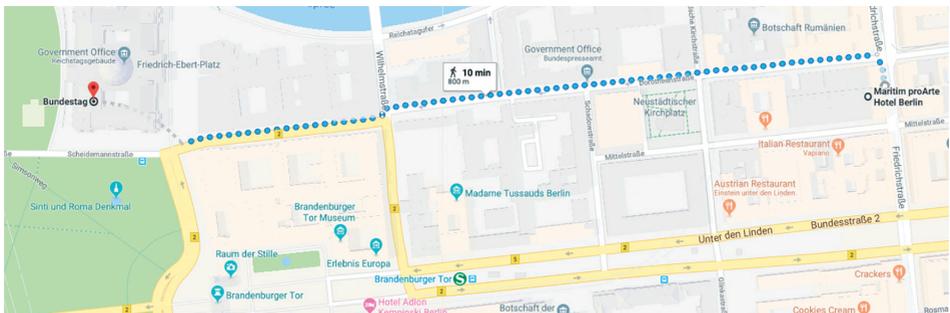
**Arrival Reichstag:** 18:30  
**Networking drinks:** 19:00  
**Gala dinner:** 19:45

**IMPORTANT: A VALID FORM OF PHOTO ID MUST BE PRESENTED FOR ADMISSION INTO THE GERMAN REICHSTAG BUILDING.**

DELEGATES SHOULD ARRIVE AT THE REICHSTAG BUILDING AT 18:30 AS IT WILL TAKE 30 MINUTES TO GO THROUGH ENTRANCE SECURITY PROCEDURE

The gala dinner venue is a 15-minute walk from the Maritim proArte Hotel Berlin, passing many historic sites, including the Brandenburg Gate.

**Walk:** 15 minutes (1.1 km)  
**Bus:** Route 100 – from Unter den Linden/  
 Friedrichstrasse to Reichstag/Bundestag (2 stops)  
**Car:** 8 minutes (1.5 km)



GatesAir Presents

# DAB Transmission

## Simple and Reliable



- Single-box transmitter from 15W to 1kW
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# Wednesday 09:00 – 10:00

## Session 3

### Key decision makers summit

Moving ahead with DAB is a collaborative effort driven on many levels, and digital radio cannot move forward without support from the highest level of government, regulators and the broadcast industry. Key decision makers discuss how they see the future of radio and their plans for DAB.

**Session moderator: Helwin Lesch, Head of Distribution and Controlling, Bayerischer Rundfunk, Germany**

**WorldDAB Vision for the future of DAB radio**

Patrick Hannon, President, WorldDAB

**The future of radio is digital**

Staatssekretärin Heike Raab, Plenipotentiary for Federal and European Affairs, for Media and Digital Affairs of the Land of Rhineland-Palatinate, Germany

**Securing UK radio's future**

Bob Shennan, Director of Radio and Music, BBC, UK and Siobhan Kenny, CEO, Radiocentre, UK

**Q&A**

**10:00 – 10:30 Coffee**



**Helwin Lesch**  
Head of Distribution  
and Controlling,  
Bayerischer Rundfunk,  
Germany



**Heike Raab**  
Plenipotentiary for  
Federal and European  
Affairs, for Media and  
Digital Affairs of the  
Land of Rhineland-  
Palatinate, Germany



**Siobhan Kenny**  
CEO, Radiocentre, UK



**Bob Shennan**  
Director of Radio and  
Music, BBC, UK



**Patrick Hannon**  
President, WorldDAB

# D-MB-2

# DIGITAL

# END

# to ..



## EXPERIENCE OEM EQUIVALENCE

# .. END

# SIGNAL PROCESSING

# D-JV-2



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## AFTERMARKET PRODUCT SOLUTIONS



# Wednesday 10:30 – 12:05

## Session 4

# Digital radio in the car – the best driver experience

The car industry is watching the increasing speed of DAB deployment and is playing a key part in accelerating the roll-out. Working closely with the car industry is important to ensure the experience of DAB for drivers continues to improve. The key areas of focus for DAB in car are user experience, performance and aftermarket devices, and collaboration is needed to get these right.

**Session moderator: Ron Schiffelers, Senior Director Program Management, NXP, The Netherlands**

### **Keynote: A DAB story: the FCA case**

Claudio Nervi, Product Planning and Institutional Relations, Feature Portfolio Planning, FCA Italy

### **Update on WorldDAB User Experience Guidelines, DAB performance receivers and antennas, aftermarket devices and working with the car industry**

Laurence Harrison, Chairman of WorldDAB Automotive Working Group and Market Development Director, Digitalradio UK

### **Demo: Building the WorldDAB UX Guidelines – putting it into practice**

### **'What's on the street' – an overview**

Frank Nowack, Function Owner Multimedia, Ford Motor Company, Germany



**Ron Schiffelers**  
Senior Director  
Program Management,  
NXP, The Netherlands



**Claudio Nervi**  
Product Planning and  
Institutional Relations,  
Feature Portfolio  
Planning, FCA Italy



**Laurence Harrison**  
Chairman of  
WorldDAB Automotive  
Working Group and  
Market Development  
Director, Digitalradio  
UK



**Frank Nowack**  
Function Owner  
Multimedia, Ford  
Motor Company,  
Germany

# Wednesday 10:30 – 12:05

## Session 4

# Digital radio in the car – the best driver experience

### DAB and the connected car: new services, enriched engagement and listener insights

Joe d'Angelo, Senior Vice President Broadcast Radio, Xperi, USA

### Have you forgotten the screen? DAB and the in-car screen

Ben Poor, Project Manager, EBU and Martin Koch, Head of Development Multimedia, AUDI, Germany

### Automotive receiver specifications, Italy

Hanns Wolter, Network Planner and Technical Manager, DAB Italia, Italy

### Announcement: WorldDAB Automotive 2019 venue

12:05 – 13:00 Lunch



**Joe d'Angelo**  
Senior Vice President  
Broadcast Radio, Xperi,  
USA



**Martin Koch**  
Head of Development  
Multimedia, AUDI,  
Germany



**Hanns Wolter**  
Network Planner and  
Technical Manager,  
DAB Italia, Italy



**Ben Poor**  
Project Manager, EBU

# Wednesday 13:00 – 14:15

## Session 5

# Country marketing updates – quick fire forum

The most important part of the WorldDAB General Assembly is an overview from each market on their current and future plans. In this session, key DAB markets share their latest developments, key learnings and marketing activities.

**Keynote: Norway – one year on, key lessons – Ole Jørgen Torvmark, CEO, Norsk Radio, Norway**

### EU Markets Update

**Session Moderator: Jacqueline Bierhorst, Project Director, Digital Radio NL and Vice President, WorldDAB, The Netherlands**

**Germany – marketing DAB+ across the Bundesländer, Carsten Zorger, Director, Digital Büro Deutschland, Germany**

**UK – fresh challenges to marketing in a developed market Ford Ennals, Chief Executive, Digital Radio UK**

**Switzerland – marketing for DSO Iso Rechtsteiner, Project Manager DSO Switzerland**

**France – new regions and nationwide roll-out Jean-Marc Dubreuil, Programme Manager, WorldDAB, France**

**Italy – renewed commitment and receiver legislation Hanns Wolter, Technical Director, DAB Italia, Italy**

**The Netherlands and Belgium – two markets, two updates Jacqueline Bierhorst, Project Director, Digital Radio NL and Vice President, WorldDAB Europe, The Netherlands**

**Q&A**



Jacqueline Bierhorst



Ole Jørgen Torvmark



Carsten Zorger



Iso Rechtsteiner



Jean-Marc Dubreuil



Hanns Wolter



Ford Ennals

Wednesday 13:00 – 14:15

## Session 5

# Country marketing updates – quick fire forum

### Markets beyond Europe

Session Moderator: Joan Warner, Vice President WorldDAB, Chair WorldDAB Asia Pacific Committee and CEO Commercial Radio Australia

### Moving ahead with DAB+ in Thailand:

Colonel Natee Sukonrat, Chairman, Broadcasting Commission, NBTC, Thailand

### An overview of Australia and the rest of Asia

Joan Warner, Vice President WorldDAB, Chair WorldDAB Asia Pacific Committee and CEO Commercial Radio Australia

### Q&A



Joan Warner



Colonel Natee  
Sukonrat





# PROMAX

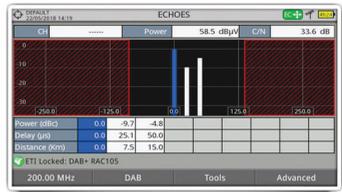
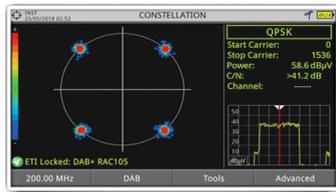


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- SLIDESHOW
- FULL ENSEMBLE CBER
- ECHOES
- POWER, C/N, MER
- MSC CBER
- FIC CBER
- TII
- AUDIO DECODING



# Wednesday 14:15 – 15:20

## Session 6

# DAB for success – new content, new brands, new markets

Broadcasters on-air with DAB are enjoying the opportunity to launch new services, extend brands and grow audiences, with a corresponding growth in revenue. This session showcases examples of where DAB is allowing innovative programming to reach new audiences.

**Session Moderator: Nick Piggott, Project Director, RadioDNS, UK**

### DAB vs analogue – why incumbents remain the winners

Nick Piggott, Project Director, RadioDNS, UK

### From local FM to no. 1 in Germany

Petra Lemcke, CEO, sunshine live, Germany

### Creating a market for DAB+ in Italy

Eugenio LaTeana, Head of Research & Development, RTL 102.5 Hit Radio, Italy

### DAB making classical music modern

Ragnhild Veire, Head of NRK Klassisk / NRK Jazz, NRK, Norway

### How DAB saved my career

Gabby Sanderson, Radio Presenter and DJ, UK

### Q&A

Networking coffee – END



**Nick Piggott**  
Project Director,  
RadioDNS, UK



**Petra Lemcke**  
CEO, sunshine live,  
Germany



**Ragnhild Veire**  
Head of NRK Klassisk/  
NRK Jazz, NRK, Norway



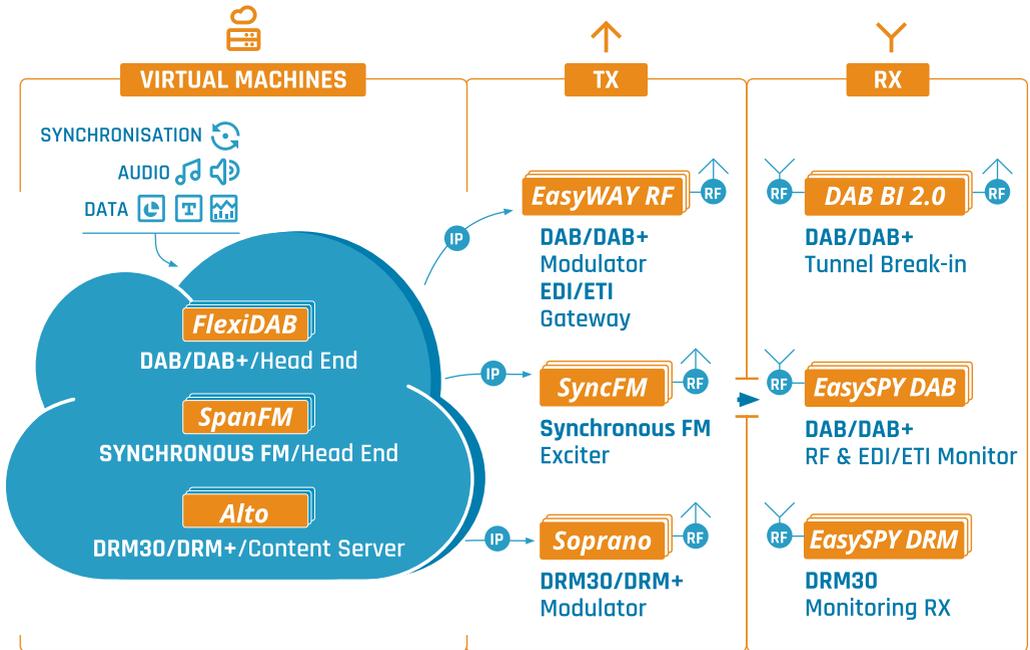
**Gabby Sanderson**  
Radio Presenter and  
DJ, UK



**Eugenio LaTeana**  
Head of Research &  
Development, RTL  
102.5 Hit Radio, Italy

# VIRTUAL RADIO by DiGiDiA

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## NEW FEATURES:

- Smart EDI Switches with Sub Channel Redundancy
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## About DIGIDIA

**DIGIDIA** has emerged as one of the leading companies for digital radio transmission equipment with more than 300 digital radio systems deployed all over the world in three technologies: Synchronous FM, DAB/DAB+/DMB (Eureka147) and DRM30/DRM+. These technologies are all covered with a broad and complete product line including multiplexers, content servers, modulators, IP gateways, monitoring equipment, professional receivers, encoders, decoders and tunnel break-in products. **DIGIDIA** leads the way with its straight forward design for innovative, compact and flexible products. All products are IP based and contain the latest COFDM and Software Defined Radio technology on state-of-the-art PC and FPGA/DSP platforms.

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

# The new DAB+ logo

Free to industry stakeholders for use in promoting DAB+ to listeners, the new logo ensures consistent marketing of DAB+ internationally. Available via the WorldDAB website, the logo will improve consumer recognition of DAB+ across borders.



# Sponsors



## Event Partner Sponsor

**Xperi** and its brands – DTS and All In Media – are dedicated to creating innovative technology solutions for broadcasters and their listeners. DTS and All In Media are focused on delivering leading radio experiences in the vehicle, on mobile devices, and on connected devices for the home.

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**GatesAir** provides the industry's most energy-efficient radio (including DAB) and TV transmitters, supporting all standards with low total cost of ownership, helping broadcasters to optimise their services. With nearly 100 years of experience in broadcast equipment manufacturing, servicing and support, GatesAir stands ready to provide guidance to assist its customers.

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## Lanyard Sponsor

Available in nine countries, **Radioplayer** connects thousands of radio stations on multiple devices around the world. With our premium service, the Worldwide Radioplayer API (WRAP) we provide official broadcaster metadata, locational information and on-demand content as well as FM and DAB data in order to support hybrid switching.

[www.radioplayerworldwide.org](http://www.radioplayerworldwide.org)



PANEDA®

## Programme Brochure Sponsor

**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)



DAB+ solutions for your car

## Delegate Bag Sponsor

**Sahaga** is the owner of the POP brand, representing the widest range of DAB+ radios in Norway. We offer in-car solutions, personal protection equipment with DAB+ and radios for in the home and on the move. Sahaga is looking for partners all over Europe for launches in 2018/19.

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



## Media Partner

**La Lettre Pro de la Radio** is published by the organiser of the European Radio Show, which takes place annually at the end of January. This monthly magazine features 20 pages devoted to the radio industry, offering an exclusive overview of news linked to the radio broadcast industry in France and abroad. Linked to the magazine is [lalettre.pro](http://lalettre.pro), a daily news website with a newsletter sent to more than 10,000 B2B contacts.

[www.lalettre.pro](http://www.lalettre.pro)



**Aldena** is one of the world's leading antenna manufacturers in the broadcasting industry. The company is involved in different FM/DAB/DTV network roll-outs all over the world thanks to an increasingly vast array of professional, high-quality "on-field" services. Operators and authorities worldwide are using EMLAB software for antenna design/controlling.

[www.aldena.it](http://www.aldena.it)



German innovative design and high-quality production are the hallmarks of **Antennensysteme** antennas and "WiCAR" routers. Antennentechnik products perform according to the highest-quality requirements and standards from the automotive industry, public authorities and other industrial customers. We are a well-established and highly respected company within the antenna industry, famous for top-quality DAB antennas and splitters.

[www.antennensysteme.de](http://www.antennensysteme.de)



**AVT** is a manufacturer of DAB system components such as audio encoders, multiplexers, redundancy switches, ETI/EDI converters and monitoring decoders. Thanks to many years of project experience, AVT offers small-scale solutions up to complete redundant DAB head-ends.

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



Together with the DAB specialist **IB-Mulka**, the tunnel break-in system MAGIC-TBR and the DABRF test receiver with integrated modulator were developed as a first cooperation between both German companies.

[www.ib-mulka.de](http://www.ib-mulka.de)



**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 TPEG (Transport Protocol Expert Group) services. This includes both consulting services and products like TPEG ON AIR, TPEG Analyser, TPEG Editor and TPEG Library.

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



**Broadcast Partners** provides broadcast technology and radio solutions in several countries. Broadcast Partners manages over 700 FM transmitters and 7 DAB+ networks. Besides network operation, we develop innovative software-based radio solutions. SmartRadio, a full cloud and web-based "radio as-a-service" platform and the aXemble DAB+ head-end are the newest products.

[www.broadcastpartners.nl](http://www.broadcastpartners.nl)



**Factum Radioscape** is the market leader for digital radio broadcast systems worldwide, deploying thousands of services on over 180 ensembles to millions of listeners. Our experience and proven expertise allow us to tailor solutions to meet our customers' needs, as well as providing friendly and efficient after-sales support.

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



**GatesAir** provides the industry's most energy-efficient radio (including DAB) and TV transmitters, supporting all standards with low total cost of ownership, helping broadcasters to optimise their services. With nearly 100 years of experience in broadcast equipment manufacturing, servicing and support, GatesAir stands ready to provide guidance to assist its customers.

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



**Gsertel** specialises in measurement and monitoring equipment for the broadcasting sector. With 17 years' experience in research and development, our history of pursuing innovation is shown in the quality of our products, of which we have full control of the manufacturing process. Gsertel belongs to the Televes Corporation and relies on its fully robotised production factory.

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



With 18,000 products, **Hama** is one of the leading accessory companies. Founded in 1923 with its headquarters in Monheim, Germany, Hama specialises in the fields of consumer electronics, mobile communication, photography and computers, and now employs about 2,500 people around the world.

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



Thanks to its products, **Innovationszentrum für Telekommunikationstechnik GmbH IZT** ensures that broadcasting is a part of our daily life. The product range includes signal generators, receivers, broadcast systems and channel simulators. Applications are multiplexing and monitoring systems for DAB head-ends and powerful set-ups for the analysis of broadcast signals and for development of radio receivers.

[www.izt-labs.de](http://www.izt-labs.de)



**Plisch** – The Transmitter Company is a leading manufacturer of DTV and DAB transmitter systems, founded in 1955 and located in Viernheim, Germany. We deliver innovative products and services to the broadcasting equipment industry – using our scientific and technological expertise – to give a clear technical and economic advantage to our customers.

[www.plisch.de](http://www.plisch.de)



**metadata.radio**

**Pluxbox** wants to simplify your professional radio broadcast and reuse of programs so listeners can experience an up-to-date seamless omni media Radio Broadcast. Pluxbox wants makers to feel comfortable about technique so they focus on producing attractive content. metadata.radio is all about radio, regardless of the location, time or device people use to listen to your station. All your radio-related metadata is centralised, complete and always up to date.

<https://metadata.radio/>



DAB+ solutions for your car

**Sahaga** is the owner of the POP brand, representing the widest range of DAB+ radios in Norway. We offer in-car solutions, personal protection equipment with DAB+ and radios for in the home and on the move. Sahaga is looking for partners all over Europe for launches in 2018/19.

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



**PROMAX ELECTRONICA SL** is a leading European manufacturer of test and measurement equipment and monitoring solutions. Our product lines include analysers for broadcast, DAB, cable TV, satellite TV, wireless and fibre optics applications. We have more than 55 years of experience in developing, manufacturing and marketing electronic T&M products.

[www.promax.es](http://www.promax.es)



As the world's leading digital radio brand, **Pure** wants to redefine radio for the modern day. Based at state-of-the art engineering facilities just outside of London, Pure aims to bridge the worlds of music and radio through a combination of beautifully crafted design, stunning audio quality and seamless connectivity.

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



**Sony Corporation** is a leading manufacturer of audio, video, imaging, game, communications, key device and information technology products for the consumer and professional markets. With its music, pictures, computer entertainment and online businesses, Sony is uniquely positioned to be the leading electronics and entertainment company in the world.

[www.sony.net](http://www.sony.net)



**Xperi** and its brands – DTS and All In Media – are dedicated to creating innovative technology solutions for broadcasters and their listeners. DTS and All In Media are focused on delivering leading radio experiences in the vehicle, on mobile devices, and on connected devices for the home.

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

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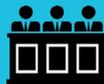
WorldDAB is the global industry forum responsible for defining and promoting DAB digital radio. By bringing together radio industry professionals, WorldDAB provides knowledge and expertise that helps countries successfully adopt and implement broadcast digital radio.



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