

# General Assembly 2019

5-6 November  
Brussels



Event partner sponsors

#wdab19





world **dab**  
General Assembly 2019  
in Brussels



in Belgium is a reality and is fully supported and promoted by  
the whole radio industry, gathered in 2 bodies:



for the Belgian Dutch speaking market

and



for the Belgian French speaking market.



are united proud sponsors of the 2019 WorldDAB General  
Assembly in Brussels.

More information: [www.dabplus.be](http://www.dabplus.be)





## Welcome letter

### Dear colleagues

Welcome to Brussels and WorldDAB's 2019 General Assembly.

The last 12 months have been an exciting period for DAB radio. At the end of last year, the European Union adopted the European Electronic Communications Code, which will require all new car radios in the EU to be capable of receiving digital terrestrial radio. Shortly afterwards France confirmed the launch of national DAB+ with the support of all major broadcasters.

During 2019, progress has continued. In May, Austria launched national DAB+ services; and, in the summer, Sweden saw the launch of national commercial DAB+.

More established markets have maintained their momentum. Following Norway's switch-off in 2017, Switzerland has confirmed the switch-off of FM by the end of 2024; Germany and the Netherlands continue to make strong progress and the UK is seeing record levels of digital listening.

I am also pleased to see high levels of activity in our host country, Belgium – where the Flemish and French speaking regions are both driving forward with DAB+.

A further important development in Europe is the introduction of regulation requiring consumer receivers to include DAB+. Such laws come into force in Italy and France in 2020 – and a similar law has just been passed in Germany, coming into effect

in Dec 2020. It is a priority for WorldDAB to encourage the adoption of such rules in other markets.

Outside of Europe, we are also seeing interesting developments. Numerous markets are pursuing trials, but two markets stand out. The first is Australia which is now seeing its highest ever levels of DAB+ radio being fitted in new cars. The second is Tunisia, which has launched the first regular services in North Africa. Tunisia is a potential gateway to the wider Arabic speaking region.

Against this positive background, it is increasingly clear that broadcasters and policy makers are concerned about the growing power of the tech giants in relation to national, regional and local content providers. This is likely to be a key theme of this year's General Assembly. For WorldDAB, our focus will be on highlighting the contribution which DAB+ radio makes towards promoting and protecting the interests of national and local radio broadcasters.

In concluding, I want to offer my sincere thanks to Bernie and the Project Office team for all their hard work in organising this year's event – and for their efforts throughout the year. Without their contribution we would not be here today.

I hope you all enjoy the occasion.

Best wishes

**Patrick Hannon, President, WorldDAB**

# Speakers



**Ron Schiffelers**  
Senior Director Program  
Management,  
NXP Semiconductors



**Patrick Hannon**  
President, WorldDAB  
VP – Corporate  
Development,  
Frontier Smart



**Lindsay Cornell**  
Principal Systems  
Architect,  
BBC



**Hanns Wolter,**  
Technical Director,  
DAB Italia



**Joan Warner**  
CEO,  
Commercial Radio  
Australia



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



**Stefano Ciccotti**  
Chief Technology  
Officer,  
Rai



**Jonathan Wall**  
Controller,  
BBC Sounds



**Ladina Heimgartner**  
Deputy Director  
General,  
SRG SSR



**Antonio Arcidiacono**  
Director of Technology  
and Innovation,  
EBU



**Jean-Paul Philippot**  
Chief Executive,  
RTBF



**Paul Lembrechts**  
CEO,  
VRT



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



**Heike Raab**  
State Secretary,  
Rhineland-Palatinate,  
Germany



**Christer Modig**  
VP Radio,  
NENT



**Eleanore Bamber**  
Strategy and  
Development,  
Wireless Group



**An Caers**  
Director of Radio,  
DPG Media



**Ford Ennals**  
Chief Executive,  
Digital Radio UK



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



**Caroline Grazé**  
Managing Director,  
Radioplayer Germany

# Speakers



**Nik Goodman**  
Music and Radio  
Consultant,  
Bounce, UK



**Jan Lorbach**  
Regional Senior Market  
Insights Manager,  
GfK



**Ole Jorgen Torvmark**  
CEO,  
Norsk Radio



**Paul Hide**  
Director,  
Tech UK



**Karel Zyka**  
Technical and  
Administration Director,  
Czech Radio



**Krystyna Roslan-Kuhn**  
Expert,  
KRRIT



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



**Thierry Boitel**  
Director of TME  
Electronics,  
Toyota Motor Europe



**Steven Nagels**  
Research Coordinator,  
JATO



**Laurence Harrison**  
Automotive  
Partnerships Director,  
Radioplayer



**Gregor Pötzsch**  
Infotainment  
Development,  
Audi



**Igor Funa**  
Broadcast Expert,  
AKOS



**Matthias Gerwinat**  
Managing Director,  
Digitalradio Austria



**Jean-Marc Dubreuil**  
Programme Manager,  
WorldDAB France



**Carsten Zorger**  
Director,  
Digitalradio Büro  
Deutschland



**Francis Goffin**  
Managing Director,  
maRadio.be



**Rosemary Smith**  
Project Manager,  
WorldDAB



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



**François-Xavier Bergot**  
Deputy Head of Radio  
Directorate,  
CSA, France




**Peter Blampied**  
Country Manager  
France and Benelux,  
Roberts Radio



**Kamel Haj Ammar**  
General Engineer and  
Director of Commercial  
Affairs, ONT Tunisia

# Programme – Day 1

11:00	Registration
11:30 – 12:30	<b>WorldDAB General Assembly (member only session)</b> <b>Moderator:</b> Ron Schiffelers, Treasurer WorldDAB Committee updates: Steering Board – Patrick Hannon, President Finance Committee – Ron Schiffelers, Treasurer Technical Committee – Lindsay Cornell, Chair Spectrum and Network Implementation Committee – Hanns Wolter, Chair Asia Pacific Committee – Joan Warner, Chair WorldDAB election results WorldDAB Award for Outstanding Service
12:30 – 13:30	<b>LUNCH – Sponsored by Xperi</b> 

## Session 1 – Europe-wide digital radio

13:30 – 14:40	<b>Moderator:</b> Joan Warner, Commercial Radio Australia <b>WorldDAB world view</b> Patrick Hannon, President, WorldDAB <b>France – the platform for radio</b> Nicolas Curien, Board Member, Conseil Supérieur de l'Audiovisuel <b>Italy – positive steps to digital</b> Stefano Ciccotti, CTO, Rai <b>United Kingdom – diversity of content</b> Jonathan Wall, Controller, BBC Sounds <b>Switzerland – working together toward DSO</b> Ladina Heimgartner, Deputy Director General, SRG SSR
14:40 – 15:15	<b>COFFEE – Sponsored by Paneda</b> 

## Session 2 – global broadcasters' vision for digital radio

15:15 – 16:30	<b>Moderator:</b> Patrick Hannon, President, WorldDAB <b>Keynote: Europe public broadcasters now and the future</b> Antonio Arcidiacono, Director of Technology and Innovation, EBU <b>Conference home country – moving forward with DAB+</b> Jean-Paul Philippot, Chief Executive, RTBF Paul Lembrechts, CEO, VRT <b>Asia Pacific – trials, trends &amp; new opportunities with DAB+</b> Joan Warner, CEO, Commercial Radio Australia <b>MENA – opening up new DAB+ markets</b> Kamel Haj Ammar, General Engineer and Director of Commercial Affairs, ONT Tunisia <b>Panel Discussion and Q&amp;A</b>
19:00 – 22:30	<b>Networking drinks and Gala Dinner</b> Comic Book Museum Rue des Sables 20 1000 Brussels

# Networking Drinks + Gala Dinner



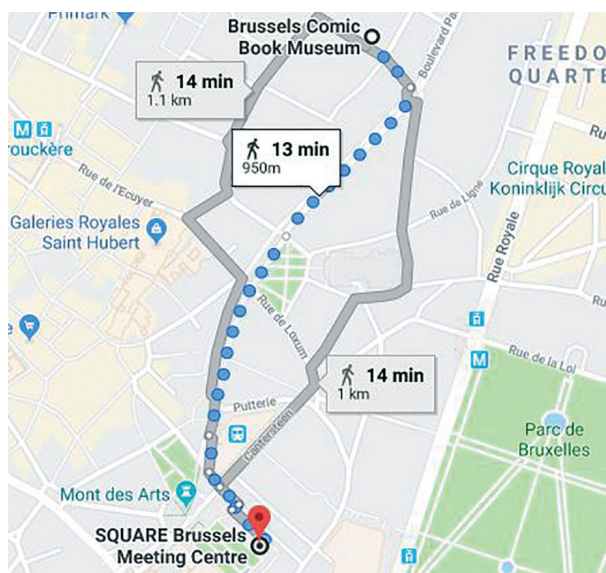
## Comic Book Museum: Tuesday 19:00 – 22:30

Enhanced by an exceptional Art Nouveau home designed by Victor Horta, the Comic Book Museum is just as much a tribute to the pioneers as a glimpse of contemporary comic art.

**Address:** Comic Book Museum, Rue des Sables 20, 1000

**Networking drinks:** 19:00 – 19:45 – Sponsored by GatesAir 

**Gala Dinner:** 19:45 – 22:30



## Directions

The Comic Book Museum is a **15 minute walk** from the SQUARE Conference Centre and 5 minutes by public transport using the S1 train service from Brussel-Centraal station to Bru.-Congres / Brux.-Congres station.

# Programme – Day 2

## Session 3 – reaching new audiences with DAB+

09:00 – 10:00

**Moderator:** Jacqueline Bierhorst, Digital Radio NL

**Keynote: Securing radio in the new audio landscape**

Heike Raab, State Secretary, Rhineland-Palatinate, Germany

**Securing a future for DAB+ in Sweden**

Christer Modig, VP Radio, NENT

**Putting listeners at the heart of digital radio**

Eleanore Bamber, Strategy and Development, Wireless Group

**New audiences with DAB+**

An Caers, Director of Radio, DPG Media

**Panel Discussion and Q&A**

**Country updates**

United Kingdom: Ford Ennals, Chief Executive, Digital Radio UK

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

10:00 – 10:30

**COFFEE – Sponsored by Paneda**



## Session 4 – how the digital radio listening experience is evolving

10:30 – 11:30

**Moderator:** Caroline Graze, Radioplayer

**Keynote: Content is king on smart devices across Europe**

Nik Goodman, Music and Radio Consultant, Bounce, UK

**Receiver sales – what the data tells us**

Jan Lorbach, Regional Senior Market Insights Manager, GfK

**Smart speakers, voice control and hybrid**

Ole Jorgen Torvmark, CEO, Norsk Radio

**Manufacturers' view on device regulation**

Paul Hide, Director, Tech UK

**Panel Discussion and Q&A**

**Country updates**

Czech Republic: Karel Zyka, Technical and Administration Director, Czech Radio

Poland: Krystyna Roslan-Kuhn, Expert, KRRIT

## Session 5 – The automotive sector and digital

11:30 – 12:30

**Moderator:** Lindsey Mack, BBC

**Keynote:**

Thierry Boitel, General Manager R&D Electronics, Toyota Motor Europe



# Programme – Day 2

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**Automotive DAB overview**

Steven Nagels, Research Coordinator, JATO

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**Collaboration between broadcasters and the auto sector**

Laurence Harrison, Automotive Partnerships Director, Radioplayer

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**The importance of metadata for the car**

Gregor Pötzsch, Infotainment Development, Audi

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**Panel Discussion and Q&A**

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**Country updates**

Slovenia: Igor Funa, Broadcast Expert, AKOS

Austria: Matthias Gerwinat, Managing Director, Digitalradio Austria

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12:30 – 13:30

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**LUNCH – Sponsored by Xperi** 

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## Session 6: DAB – marketing, advertising and retailers

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13:30 – 14:30

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**Moderator:** Jean-Marc Dubreuil, WorldDAB France

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**Marketing and advertising DAB+ Germany**

Carsten Zorger, Director, Digital Radio Büro Deutschland

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**Raising awareness of DAB+**

Jacqueline Bierhorst, Project Director, Digital Radio NL

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**Belgium – communicating for DAB+**

Francis Goffin, Managing Director, maRadio.be and Flanders representative

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**Working with the retail sector**

Ford Ennals, Chief Executive, Digital Radio UK in conversation with:  
Peter Blampied, Country Manager France and Benelux, Roberts Radio

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**Panel Discussion and Q&A**

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## Session 7 – DAB networks and the multiplatform landscape

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14:30 – 15:30

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**Moderator:** Rosemary Smith, WorldDAB

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**Keynote: 5G a complement not a replacement**

Helwin Lesch, Head of Distribution and Controlling, Bayerischer Rundfunk

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**France – planning for DAB+ road coverage**

François-Xavier Bergot, Director of Studies, CSA

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**Small-scale DAB**

Lindsay Cornell, Principal Systems Architect, BBC

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**Optimising DAB+ networks**

Hanns Wolter, Technical Director, DAB Italia

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**Panel Discussion and Q&A**

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15.30

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**Closing remarks: Patrick Hannon, WorldDAB President**  
**Networking Coffee**

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## Powering Visual Radio

Rapid is the most popular visual radio publishing tool in the world, and used by major broadcasters across the globe for their DAB broadcasts



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





# EXPANDING OUR FAMILY

## EXPERTS PRODUCTS SERVICE



### Maxiva™ MultiD

Super-compact Multichannel  
**DAB/DAB+** Transmitter  
(3 channels in 1RU)



### Flexiva™ FAX

Air-Cooled **FM** Analog/  
Digital Transmitter/Exciter,  
Low Power - **50 W to 3.5 kW**



### Maxiva™ XTE

Software-defined Exciter for All TV  
and **DAB/DAB+** Radio Standards,  
Integrated EDI IP Connectivity



### Maxiva™ VAX/VLX-OP

Band III Transmitters for  
**DAB/DAB+** Liquid & Air-Cooled,  
Broadband, Lowest TCO,  
Low Maintenance

# 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.

## 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.

## 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.

## Digital Switchover Group

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

## Finance Committee

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

## 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.

## Spectrum and Network Implementation Committee

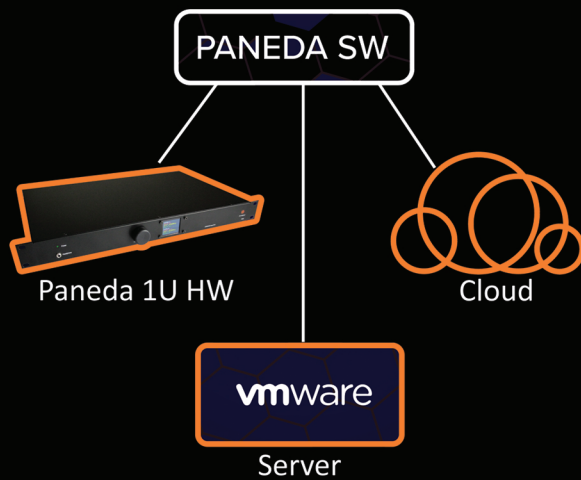
Provides guidance on the advantages of different regulatory approaches needed in countries with varying regulatory needs.

## International Marketing Coordination Group

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



# 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 enabling a higher level of redundancy.
- ☞ Virtual providers allowing broadcasters to share a multiplexer platform but still capable to operate independent within their capacity range.
- ☞ Unique audio source redundancy with seamless switching between different audio sources on failures.
- ☞ Highest level of security, using SSL, trusted certificates and 2 factor authentication ensuring that the complete system is secured.
- ☞ Easy integration of metadata.

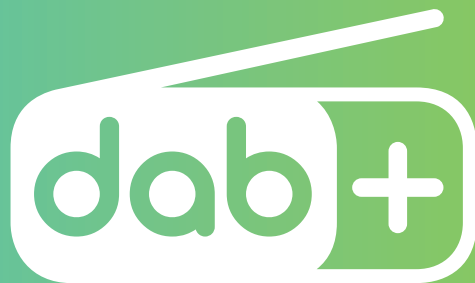
The system is often installed in a server platform in the customers' existing environment or provided as turnkey system by Paneda.

A Paneda system can also be realized as a cloud service, without any hardware.

The system suits professional broadcasters as well as small scale DAB operators due to its flexibility and scalability.

About the Paneda Group:

Paneda develops and sells DAB+ related equipment on an international market. Up to this date Paneda has delivered over 200 tunnel systems with DAB+ in Norway. Paneda also operates its own digital TV network (DVB-T2) in Norway having over 165 transmitter sites. Paneda continue to expand its market shares on the international arena with its DAB+ Head-End range of components, currently having over 70 DAB multiplexers in operation world-wide. Paneda has also developed emergency warnings systems over DAB+ and offers complete solutions for different kind of such applications.



# The DAB+ logo

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

+  
Unser Wellness-Programm.  
Hört sich gut an: mit DAB+.

Jetzt zu  
**DAB+**  
wechseln



Genießen Sie den Radiostandard von heute –  
mehr Klangqualität, mehr Programmvielfalt.  
Weitere Informationen auf [dabplus.de](http://dabplus.de)

**dab+**  
mehr radio



## Event partner sponsor

**Digitale Radio Vlaanderen** is a collaboration between the three biggest media companies in Flanders: DPG Media, VRT, Mediahuis and operator Norkring, with the support of the Flemish government. Our mission is to make digital radio, including DAB+ and Radioplayer.be, successful in the Flemish speaking part of Belgium. Our mission is to make digital radio, including DAB+, successful in Belgium.

[www.dabplus.be/nl](http://www.dabplus.be/nl)



## Event partner sponsor

**maRadio.be** is a collaboration within the radio industry as a whole (public, commercial, independent and community radio stations) in French speaking Belgium, with the support of the Government of Brussels and Wallonia. Our mission is to make the digital radio migration, thanks to DAB+ and Radioplayer.be, successful in the French speaking part of Belgium..

[www.dabplus.be/fr](http://www.dabplus.be/fr)



## Lunch 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.

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



## Networking drinks sponsor

**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)



## Coffee break 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)



## Lanyard sponsor

**Bmt** is the competence center 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)



## Delegate bag sponsor

**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)



**Jampro Antennas, Inc. & AlanDick Broadcast** – Your Partner for Complete Broadcast Solutions are Global Leaders in the Broadcast Industry. Offering completely integrated RF broadcast systems. FM, UHF, and VHF antennas, combiners, filters, patch panels, complete line of rigid transmission line, towers, and field services.

[www.alandickbroadcast.com](http://www.alandickbroadcast.com) [www.jampro.com](http://www.jampro.com)



**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 "onfield" services. Operators and authorities worldwide are using EMLAB software for antenna design/controlling.

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



Antenna Technology Bad Blankenburg

With its German innovative design and high-quality production of multifunctional antennas for the automotive industry, **ATBB** provides critical communications services, radios and smart meter applications for the energy sector and 4.0 industry. ATBB is certified according to automotive requirements and standards and is famous for its top quality DAB antennas and splitters.

[www.atbb.eu](http://www.atbb.eu)



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



**DAC System** manufactures unique, smart and innovative monitoring systems for radio and TV antennas/stations. Our systems monitor remotely, in real time, and cover outdoor and indoor antennas, and RF behaviour, providing an increase in reliability increase for broadcast towers and a significant reduction of maintenance costs.

[www.dacsystem.ch](http://www.dacsystem.ch)



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[www.dabplus.be/nl](http://www.dabplus.be/nl)



**Elenos GROUP** provides state-of-the-art radio and DTV transmitters, with a focus on DAB+ and specialise in digital migration, combining the experience of: Elenos, compact and high-power FM transmitters; Itelco, DAB+ and DTV networks, including head-end solutions; Protelevision, designer of advanced DTV/DAB+ applications; Broadcast Electronics, US FM/AM radio transmitter industry.

[www.itelco.tv/products/dab](http://www.itelco.tv/products/dab)



**ENENSYS Technologies** designs and manufactures innovative professional equipment and software enabling Efficient Video Delivery over Terrestrial, Satellite & Telecom Networks. We also provide test and monitoring equipment with the TestTree brand. We have the solutions and the experience to optimise, secure and monetise any type of Media Delivery Networks.

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



**Factum Radioscape** is featuring its market-leading smart DAB+ broadcast system, ENMUXA, at the WorldDAB GA 2019. The ENMUXA system is adaptable to national, regional and local DAB markets. The OBSERVA monitoring range, the world's most comprehensive DAB+ monitoring tools for broadcasters, transmission networks and the automotive industry, will also be available for demo.

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





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



**Gsertel** specialises in measurement and monitoring equipment for the broadcasting sector. Gsertel products are working worldwide. 17 years' experience in R&D&i and full control of the manufacturing process shows the quality and reliability of our products. Gsertel belongs to the Televes Corporation.

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



**KATHREIN Broadcast** – Reliable performance: With operation lifetimes of more than 30 years, our products show robustness, stability and value for money. Unique experience: with more than 65 years' experience and over 7800 installations in more than 140 countries we have an unmatched track record. Individual solutions: our experienced project engineers develop the optimal electrical performance.

[www.kathrein-bca.com](http://www.kathrein-bca.com)



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[www.dabplus.be/fr](http://www.dabplus.be/fr)



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



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



**Pluxbox** is the company behind Metadata.radio, a place to maintain your metadata from your radio. Our goal is to be an access point for your information about your radio station and to distribute it through various channels and directories such as DAB, RadioDNS and HDRadio.

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



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



**Syes** has been successfully manufacturing transmitters, systems and solutions for broadcasters for over 30 years. Syes operates worldwide with its technology all developed in house thanks to a powerful R&D. Together with multiple-standard high-efficiency broadcasting transmitters (air/liquid cooled) and antenna systems, Syes has proudly developed and released a complete line of DAB+ transmitters successfully sold to happy customers worldwide.

[www.syes.eu](http://www.syes.eu)

**Antennentechnik Bad Blankenburg GmbH**

In der Buttergrube 3-7, 99428 Weimar – Germany · Tel. +49 3643 4771 100 · Fax +49 3643 4774 190  
info@atbb.eu

# We engineer coverage in



Antennentechnik Bad Blankenburg GmbH is an innovative German technology company with an international reputation that designs and builds intelligent multifunctional antennas for the automotive industry, critical communications services, infotainment systems and smart meter applications for the energy sector and industry 4.0.

The key to a crystal-clear DAB+ sound is a sensitive antenna with carefully selected cables and connectors, that as a total deliver high quality reception performance in critical and weak signal situations.

ATBB ensures antennas and accessories that lead to excellent reception coverage through its technological expertise and its certified manufacturing and supply chain processes.

ATBB also provides, in a very short lead time, customized antenna solutions for AM/FM/DAB+, LTE, TETRA, UMTS, GNSS, GSM, Bluetooth, WIFI and even more applications for Industry 4.0 based on 5G.

With many decades of market experience, in-House R&D and an automotive certified manufacturing plant in Germany, ATBB makes the difference in enjoying seamless DAB+ experience.

Join the experts and the experience of the DAB+ crystal-clear sound!



THE FIRST  
DIGITALRADIO DAB+  
NATIONAL  
OPERATOR  
IN ITALY

**19** NATIONAL PROGRAMMES TOTAL

**8** DAB+ SIMULCAST

**11** DAB+ EXCLUSIVE

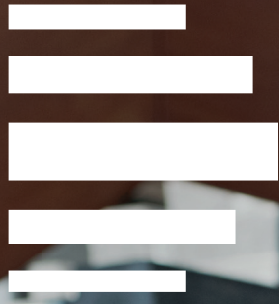
**81%** OF POPULATION ► OUTDOOR MOBILE COVERAGE

**55%** OF POPULATION ► INDOOR COVERAGE

**5.000 KM** OF HIGHWAYS COVERED



DAB ITALIA s.c.p.a.



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# „Mein Universum der Stimmen.“

Bénédicte Savoy, Kunsthistorikerin

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Unabhängig. Unverzichtbar.  
Für 50 Cent Ihres Rundfunkbeitrags.



# FlexiDAB by DiGiDiA

Intelligent digital communications

## DAB/DAB+ Software Suite

for simple and enhanced DAB/DAB+Head-End system

- Hardware independant (customer hardware or DIGIDIA hardware)
- On Virtual Machine or not

High level of **SECURITY**  
High level of **RELIABILITY**  
High level of **SCALABILITY**  
High level of **FLEXIBILITY**

Field proven **SOLUTION**  
Technology **DRIVEN COMPANY**  
Digital Radio **EXPERT COMPANY** DAB/DAB+/DRM/DRM+

**FlexiDAB**  
by **DiGiDiA**  
Intelligent digital communications

100% **IP** BASED

- **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

### 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.

# RadioDNS

HYBRID RADIO

The future of  
radio in the  
connected car



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

**Our open technology standards combine broadcast radio and IP, and they're perfectly aligned with DAB Digital Radio.**

Find out how hybrid can help you source logos, descriptions, genres, programme schedules, streaming information and other metadata to enhance your radio experience. [radiodns.org](http://radiodns.org)



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.

[www.radiodns.org](http://www.radiodns.org) | [@RadioDNS](https://twitter.com/RadioDNS) | +44 1600 888335 | +1 850 888 8335 | [feedback@radiodns.org](mailto:feedback@radiodns.org)

Join the only global industry forum bringing the broadcast and automotive industries together

100+  
Members



1,250+  
Industry Experts

30  
Countries

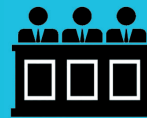
WorldDAB is the global industry forum responsible for defining and promoting DAB digital radio. By bringing together radio industry professionals, WorldDAB provides knowledge and expertise that helps countries successfully adopt and implement broadcast digital radio.



MINISTRIES OF  
TELECOMS



REGULATORS



BROADCAST  
ASSOCIATIONS



BROADCASTERS



NETWORK  
OPERATORS



END-TO-END  
MANUFACTURERS



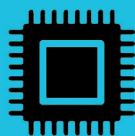
DEVICE  
MANUFACTURERS



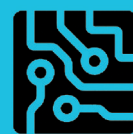
AUTOMOTIVE  
MANUFACTURERS



RESEARCH &  
DEVELOPMENT



CHIP  
MANUFACTURERS



SOLUTION  
PROVIDERS



MONITORING  
EQUIPMENT  
MANUFACTURERS

# WorldDAB Members

