

# *Radio* DNS<sup>®</sup>

HYBRID RADIO



## Twelfth General Assembly

12th February 2018  
EBU, Geneva

SSID: RadioWeek  
WiFi Code: RadioActive

# General Assembly

14:00 - 17:00

<https://radiodns.org/organisation/general-assembly/ga-feb-18/general-assembly/>

SSID: RadioWeek  
WiFi Code: RadioActive

# Introductions

Walter Huijten, Chair

SSID: RadioWeek  
WiFi Code: RadioActive

# Welcome New Member

**HYUNDAI**

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**MOTOR GROUP**

SSID: RadioWeek  
WiFi Code: RadioActive

**Radio**<sup>®</sup>**DNS**  
HYBRID RADIO

# Agenda

**Members' Business**

**2017 Review and Discussion**

*Coffee*

**2018 Plans & Discussion**

<https://radiodns.org/organisation/general-assembly/ga-feb-18/general-assembly/>

SSID: RadioWeek  
WiFi Code: RadioActive

# Meeting Format

Round table / open-line

Interactive presentation / discussion

Honest, open, engaged

**You are the “shareholders” of RadioDNS**

SSID: RadioWeek  
WiFi Code: RadioActive



# Members' Business

Ben Poor, Secretary

# Voting

For each vote we will ask

- All those who agree say "yes"
- All those who disagree say "no"



# Vote

Do you approve the minutes of the [Eleventh](#)  
[General Assembly?](#)

**VOTE NOW**

# RadioDNS Accounts

Our accounts are **reviewed** each year by an independent chartered account.

As a small organisation we are exempt from **audit**, which would be disproportionately expensive.

View the accounts in full at

<https://radiodns.org/organisation/general-assembly/ga-feb-18/general-assembly/>



# Accounts 2017

|                     | <b>2017</b>   | 2016     |
|---------------------|---------------|----------|
| Income              | <b>78,000</b> | 68,991   |
| Costs               | <b>66,725</b> | 84,960   |
| Surplus / (Deficit) | <b>11,275</b> | (15,923) |

**GBP 1.00 =**

EUR 1.12      USD 1.38

AUD 1.77      NOK 11.01

CHF 1.29

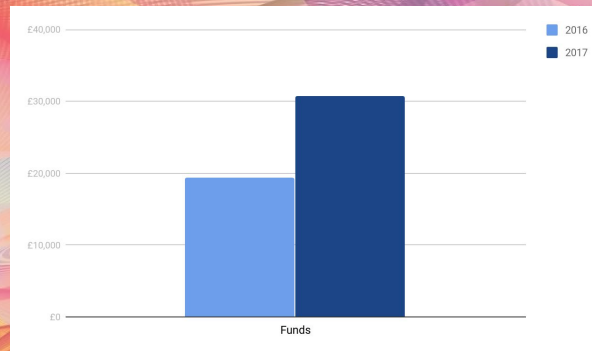


# 2017 v 2016

|  |       |   |              |
|--|-------|---|--------------|
| Additional Members<br>(Three New Members)              | +£9k  | <b>Income Increase</b>  | <b>+£9k</b>  |
| Cost of Staff<br>(First full year of Project Director) | +£4k  | Marketing, Education Costs<br>(Reduced presence at RadioDays) | -£6k         |
| Travel<br>(More trips to USA)                          | +£6k  | Software Development<br>(2017 spend deferred to 2018)         | -£8k         |
| Legal Costs<br>(End of trademark applications)         | -£14k | <b>Expenditure decrease</b>                                   | <b>-£18k</b> |
| <b>Total Change 2017 v 2016</b>                        |       |   | <b>+£27k</b> |

# Balance Sheet

|                      |                |
|----------------------|----------------|
| Opening Balance 2017 | <b>£19,443</b> |
| Surplus 2017         | <b>£11,275</b> |
| Closing Balance 2017 | <b>£30,718</b> |



RadioDNS Limited is registered as a not-for-profit organisation, so does not pay tax on its normal activities, but cannot distribute its surplus to members.

In the event of RadioDNS being wound up, its assets must be transferred to an organisation pursuing the same aims as RadioDNS.

# Vote

Do you approve the 2017 Accounts?

**VOTE NOW**

# Steering Board Election

Travis Baxter (Bauer Media) resigned 18th Oct 2017

Steering Board decided to appoint a new member through election

**Nomination period:** 2nd - 30th January 2018

**Election period:** 31st January - 7th February 2018

# Nominations

A **member** can nominate any individual to be a Steering Board member

That individual must act in the **best interests of the members of RadioDNS**

Legal requirements for a UK Company Director



# Steering Board Election

One candidate:

**Nacho Seirul-Lo, NXP Semiconductor**

*Nominated by: EBU*

Sufficient votes received from members

Nacho is appointed to the RadioDNS Steering Board

# Steering Board 2017

Review of Actions and Decisions

# Steering Board Members 2017

|   |                                     |   |
|---|-------------------------------------|---|
| <b>Walter Huijten</b> (Chair)<br>NPO              | <b>Ben Poor</b> (Secretary)<br>EBU  |   |
| <b>Travis Baxter</b> (until 18/10)<br>Bauer Media | <b>Nicolas Bresou</b><br>ma.radio   | <b>Kath Brown</b><br>Commercial Radio Australia |
| <b>Joe D'Angelo</b><br>Xperi Inc.                 | <b>Alexander Erk</b><br>IRT for ARD | <b>John Farrell</b><br>Frontier Silicon         |
| <b>David Layer</b><br>NAB                         | <b>Sean O'Halpin</b><br>BBC         | <b>Christian Winter</b><br>Audi                 |

# Steering Board Meetings 2017

The board met 5 times:

|                                   |                    |
|-----------------------------------|--------------------|
| <b>SB25</b>                       | 28th March 2017    |
| <b>SB26</b>                       | 6th July 2017      |
| <b>SB27</b>                       | 2nd October 2017   |
| <b>SBx3</b> (Extraordinary Board) | 13th November 2017 |
| <b>SB28</b>                       | 18th December 2017 |

<https://radiodns.org/organisation/steering-board/steering-board-2017/steering-board-meetings-2017/>

# Activities 2017



**Technology**  
**Education**  
**Organisation**

# Technology

# RadioDNS Technology

Technology Standards

Operating the DNS service

Providing Technical Support



# Technical Standards

## “Durable”

No changes to standards published in 2017

Wider implementation of standards has not exposed any significant problems

Changes to the SPI (RadioEPG) and Visual Slideshow (RadioVIS) standards are done in consultation with WorldDAB Technical Committee

Changes to the Lookup and SPI standards are awaiting publication

# Technical Standards

List of requests to investigate technical standards

Renewed interest in formalising the **RadioTAG** standard

**NPR** (US, National Public Radio) have adopted SPI (TS 102 818) as their in-house metadata exchange standard

**Technology Group now manages standards - Ben will report later**

# Operating the DNS service

Multiple cloud instances globally

99.99% uptime in 2017

- 3 hours outage on one server

Typical response time <50ms (same region)

Investigating performance, scaling and management improvements

Also operating [hbbtnet.org](https://hbbtnet.org/dns) using DNSSEC

# Operating the DNS service

All requests are validated

Change requests (switching DNS records from one service provider to another) are validated with the incoming service provider and broadcaster

>90% of valid change requests processed within 1 working day

Preferring registration requests by submitting URL to SI.xml

# Technical Support

One-on-one support for members

Helping with implementation and policy questions

Documentation (including HOWTO documents)

Ideas and hints - e.g. generating FM & DAB test signals

Identifying and fixing problems with implementations

# Support Tools

SI Generator / Editor - [si.radiodns.org](http://si.radiodns.org)

Test signals - audio streams and live DAB ETI streams for bench testing

Service testing tools - quick debugging

Utilities and library code - open source

Device testing platform - prerequisite for certification

# Education

# Education

Broadcasters

Manufacturers

Technology and Service Providers





**Durable**  
**Interoperable**

# Broadcasters

“Publishing your content using our standards will give you the widest coverage of devices, and give you the freedom to switch between service providers

**Require RadioDNS compliance from your service provider”**

# Manufacturers

“RadioDNS standards are durable, and interoperable, which means they will operate through the lifetime of your vehicles, and have no single point of failure”

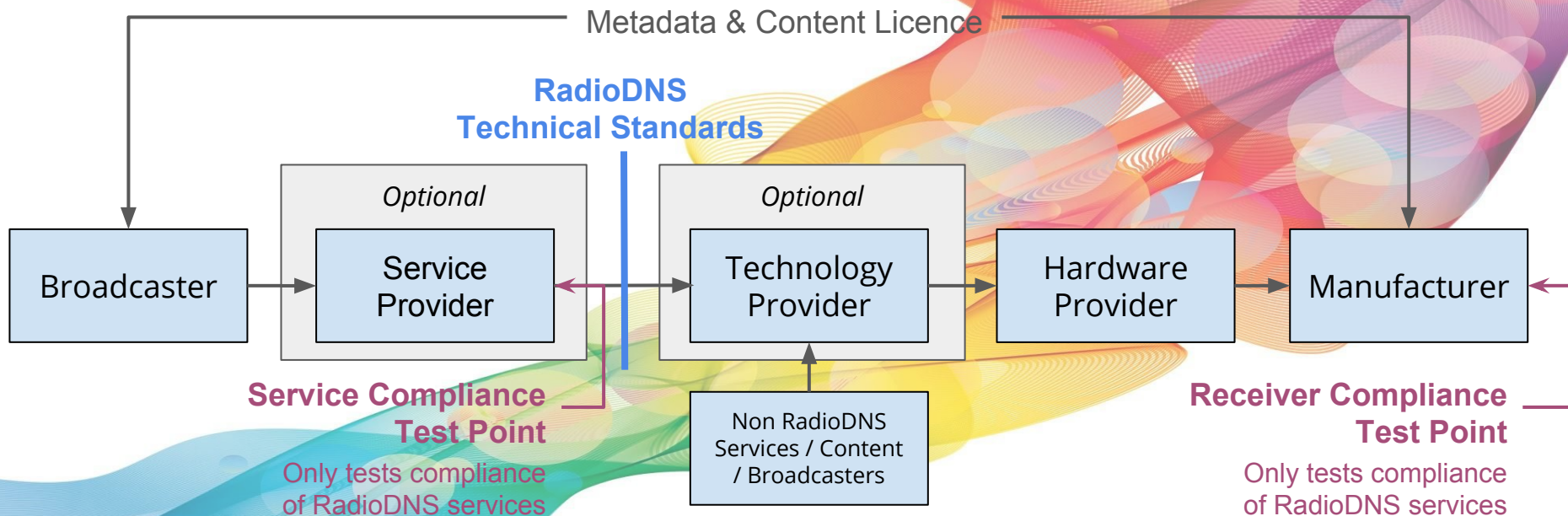
**Require RadioDNS compliance from your technology provider(s)”.**

# Service and Technology Providers

“Supporting RadioDNS standards does not preclude you offering or acquiring content using other methods.

**RadioDNS compliance testing only validates your implementation of RadioDNS”**

# RadioDNS in the chain





# Shows and Conferences

Education in Person

# RadioDNS In Real Life

Making the vision real and tangible

Showing devices, services

Interactive discussion

addressing business specific questions

Making new contacts





# 2017 Tour

|   |   |  |
|---|---|--|
| <b>NPR Metadata Summit</b><br>Washington, February  | <b>EBU Digital Radio Summit</b><br>Geneva, February | <b>ABU Digital Broadcast Summit</b><br>Kuala Lumpur, March |
| <b>RadioDays Europe</b><br>Amsterdam, March         | <b>NAB Show</b><br>Las Vegas, April                 | <b>Radioplayer Deutschland</b><br>Hamburg, May             |
| <b>RDS Forum</b><br>Montreux, June                  | <b>IBC</b><br>Amsterdam, September                  | <b>RadioAlive!</b><br>Melbourne, October                   |
| <b>WorldDAB General Assembly</b><br>Paris, November | <b>CES</b><br>Las Vegas, January                    |  |

# Organisation

# Organisational Activity

1 Steering Board member resigned

1 Steering Board member elected

Technical Group established

Continued working closely with WorldDAB

Automotive User Experience Working Group

HRadio Project - supervisory role

# Strategy Day 2017

## Vision

“RadioDNS is the global standard for enhancing the experience of radio with additional functionality delivered using internet connectivity.”

# Strategy Day 2017

## Five Year Goal

“RadioDNS is adopted as the standard for hybrid radio combining broadcast and IP in the majority of new connected cars in Europe and North America”

# Strategy Day 2017

## Objectives / Deliverables

Services delivered for the majority of radio listening in key countries, which are broader & better quality than those delivered by broadcast or IP alone.

Good quality implementations in the majority of (connected) vehicles, which offer a broader & better user experience than that delivered by broadcast or IP alone.

A variety of service & technology providers profitably supporting RadioDNS

Demonstrable value to all parts of the ecosystem, from broadcaster to listener.

To keep other market opportunities under regular review.

# Strategy

## Continuing discussion

Continue focus on Project Logo - a recognisable problem / solution

“Pivot” from a technology-led pitch to a commercial / strategic pitch

Improve our demonstration capabilities

Improve our support and testing tools



# Growth



# Membership

|                              |           |
|------------------------------|-----------|
| <b>Members at start 2017</b> | <b>25</b> |
| Members resigned             | 0         |
| Members removed              | 1         |
| Members joined               | 1         |
| <b>Members at start 2018</b> | <b>25</b> |

Membership drive for 2018 planned - list of prospects has been drawn up

# Coverage Growth

United States

Australia (Commercial Radio expanded)

Belgium (Commercial Radio added)

Ireland (Commercial Radio added)

Austria (Commercial Radio added)

# DNS Entries

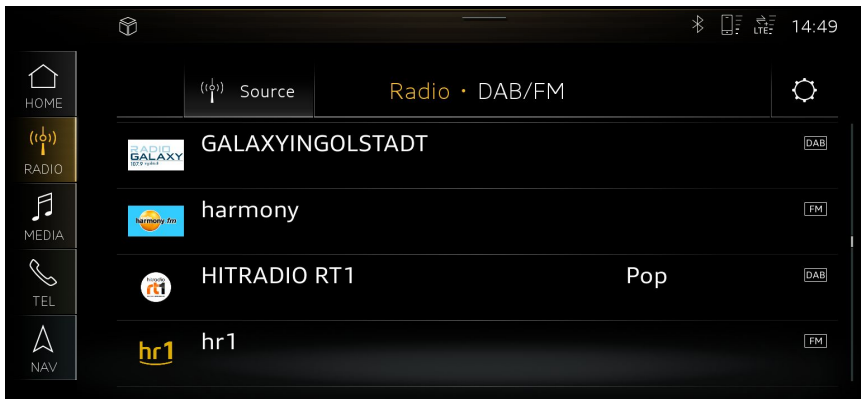
**43% increase** in FM radio stations

**10% increase** in DAB/DAB+ radio stations

A close-up, low-angle shot of the rear of a dark-colored Audi A8. The car is mostly in shadow, but a prominent horizontal red light bar is illuminated across the rear. Below it, four distinct red light signatures are visible, likely part of the Audi's signature lighting system. The background is a dark, gradient grey.

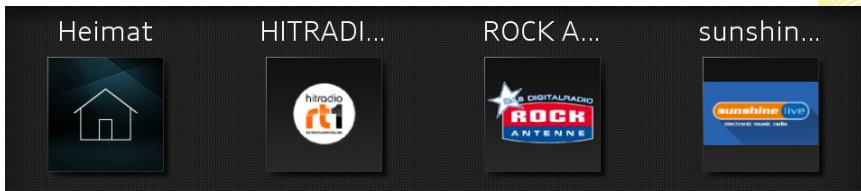
# The New Audi A8

The first production vehicle in the world to  
feature integrated RadioDNS functionality



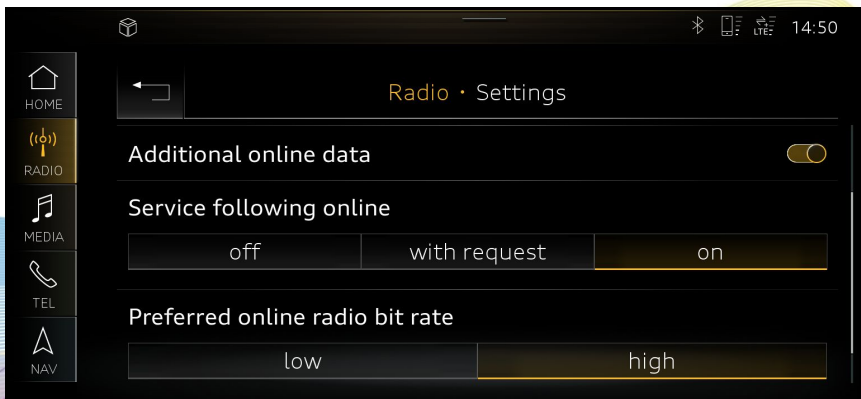
**Single station list navigation with accurate station logos**

Automatically chooses the best way to listen



**Single push presets**

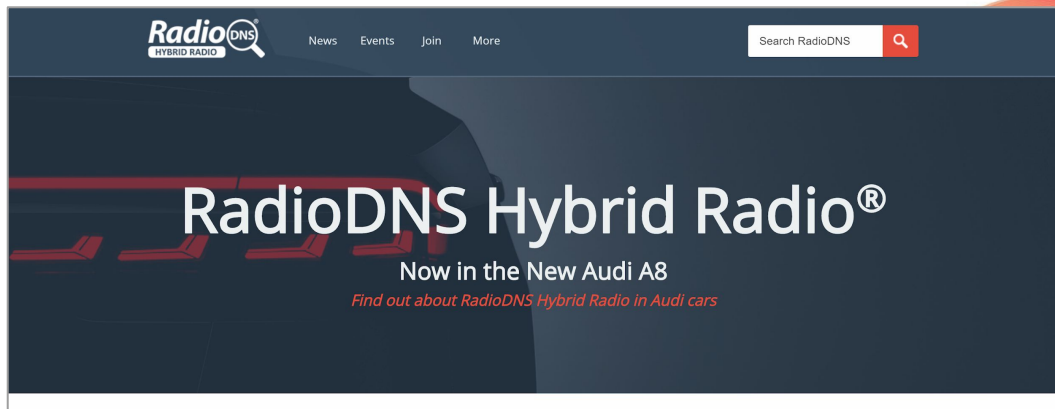
Always finds the station you want



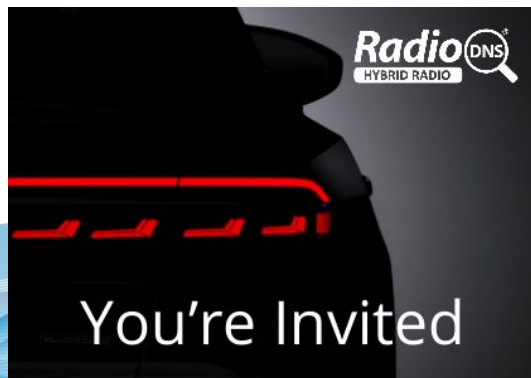
**Automatic switching between broadcast radio and IP streaming**

Continuous listening

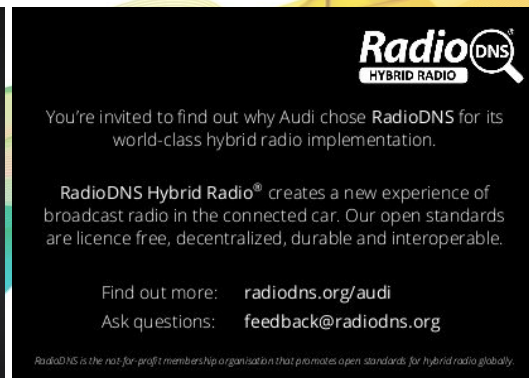
# Dedicated Marketing



The screenshot shows the RadioDNS Hybrid Radio website. At the top left is the RadioDNS Hybrid Radio logo. To its right are navigation links for News, Events, Join, and More. A search bar with the text "Search RadioDNS" and a magnifying glass icon is on the right. The main content area features a large heading "RadioDNS Hybrid Radio®" and a sub-heading "Now in the New Audi A8". Below this is a link: "Find out about RadioDNS Hybrid Radio in Audi cars".



This block features the RadioDNS Hybrid Radio logo at the top. Below it, the text "You're Invited" is displayed in a large, white, sans-serif font against a dark background.



This block contains the RadioDNS Hybrid Radio logo at the top. Below it, the text reads: "You're invited to find out why Audi chose RadioDNS for its world-class hybrid radio implementation." followed by "RadioDNS Hybrid Radio® creates a new experience of broadcast radio in the connected car. Our open standards are licence free, decentralized, durable and interoperable." At the bottom, it provides contact information: "Find out more: [radiodns.org/audi](http://radiodns.org/audi)" and "Ask questions: [feedback@radiodns.org](mailto:feedback@radiodns.org)".

RadioDNS is the not-for-profit membership organisation that promotes open standards for hybrid radio globally.



## The new Audi A8

features integrated RadioDNS Hybrid Radio

## Open Standards for Hybrid Radio

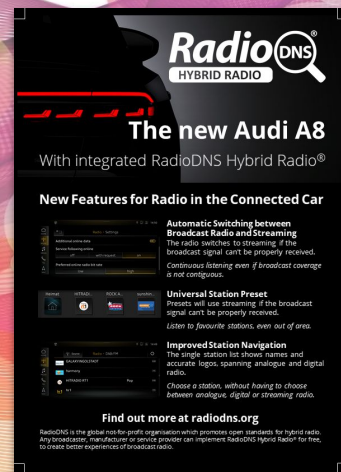
Interoperable and durable

Perfectly aligned with DAB+

Enhanced visuals, metadata, interactivity

Automotive, Mobile, Home

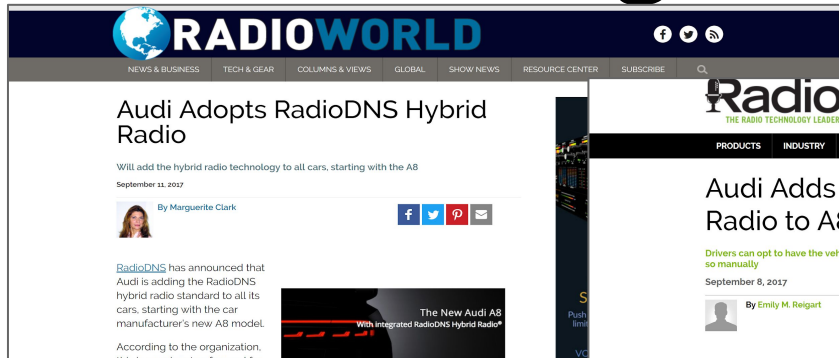
[radiodns.org](http://radiodns.org)



The screenshot shows the Audi A8 infotainment screen displaying the RadioDNS Hybrid Radio interface. At the top is the RadioDNS Hybrid Radio logo. Below it, the text "The new Audi A8" and "With integrated RadioDNS Hybrid Radio®" is shown. The screen lists "New Features for Radio in the Connected Car" with three sections: "Automatic Switching between Broadcast Radio and Streaming", "Universal Station Preset", and "Improved Station Navigation". At the bottom, it says "Find out more at radiodns.org".



# Press Coverage



**RADIOWORLD**  
NEWS & BUSINESS | TECH & GEAR | COLUMNS & VIEWS | GLOBAL | SHOW NEWS | RESOURCE CENTER | SUBSCRIBE

## Audi Adopts RadioDNS Hybrid Radio

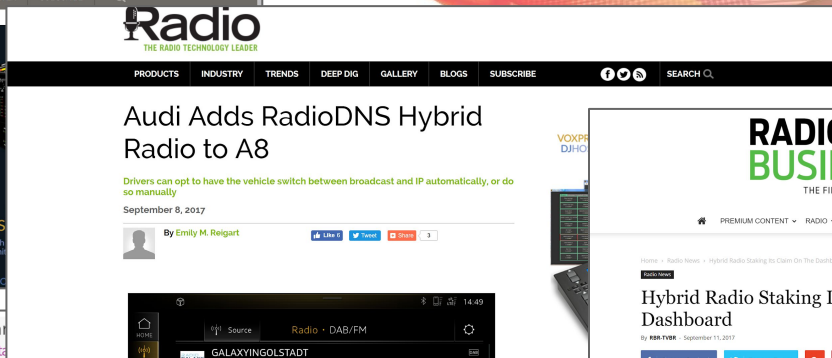
Will add the hybrid radio technology to all cars, starting with the A8

September 11, 2017

By Marguerite Clark

RadioDNS has announced that Audi is adding the RadioDNS hybrid radio standard to all its cars, starting with the car manufacturer's new A8 model.

The New Audi A8 With integrated RadioDNS Hybrid Radio®



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## Audi Adds RadioDNS Hybrid Radio to A8

Drivers can opt to have the vehicle switch between broadcast and IP automatically, or do so manually

September 8, 2017

By Emily M. Reigart

VOXPRO MAKES YOU THE BEST DJ/HOST/ENGINEER/PRODUCER YOU CAN BE



**RADIO+TELEVISION BUSINESS REPORT**  
THE FINANCIAL + REGULATORY VOICE OF ELECTRONIC MEDIA

PREMIUM CONTENT | RADIO | TV/DIGITAL | SUBSCRIBE | CLASSIFIEDS | DIRECTORY | ADVERTISE

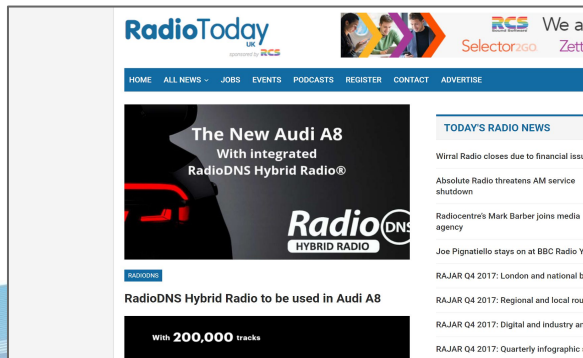
## Hybrid Radio Staking Its Claim On The Dashboard

By RBR TVR - September 11, 2017

Radio has long been "king of the dashboard." But that's been changing for some time with the evolution of streaming services and new technologies competing for drivers' interest. So it's noteworthy that carmaker Audi is going in big for hybrid radio. A recent press release from RadioDNS outlined this

**Your Account**  
Login  
Register  
Edit Your Profile  
Logout

**Broadcast's Most Popular Newsletter**  
Sign up for free to get: The Daily Intelligence Report delivered to



**RadioToday**  
UK

HOME | ALL NEWS | JOBS | EVENTS | PODCASTS | REGISTER | CONTACT | ADVERTISE

## The New Audi A8 With integrated RadioDNS Hybrid Radio®

With **200,000** tracks

TODAY'S RADIO NEWS

Wiral Radio closes due to financial issues

Absolute Radio threatens AM service shutdown

RadioCentre's Mark Barber joins media agency

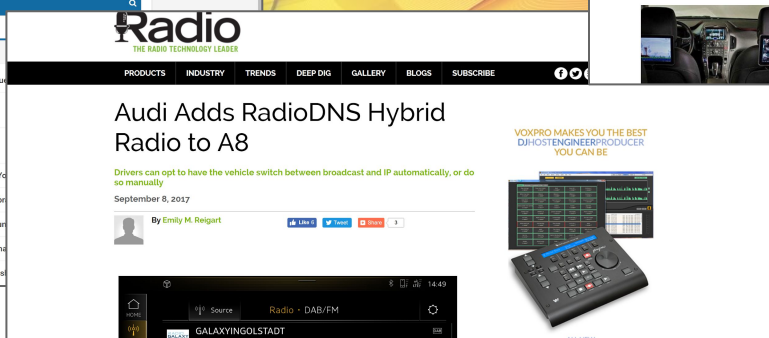
Joe Pignatiello stays on at BBC Radio York

RAJAR Q4 2017: London and national broadcast

RAJAR Q4 2017: Regional and local radio

RAJAR Q4 2017: Digital and industry analysis

RAJAR Q4 2017: Quarterly infographic series



**Radio**  
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# Discussion

2017 Activities



# Steering Board Decisions 2017

1. Signed agreement to provide DNS services to HbbTV
2. Created the Technical Group
3. Agreed to elect a new Director to the board
4. Removed one member due to unpaid fees
5. Agreed 2018 Plan and Budget
6. Renewed Project Director contract to January 2019

# Voting

Do you approve the decisions of the **Steering Board** in 2017?

**VOTE NOW**

# Coffee Break

20 Minutes

SSID: RadioWeek  
WiFi Code: RadioActive

# Plan for 2018

Strategy, Plan and Budget

SSID: RadioWeek  
WiFi Code: RadioActive

# 2018 Actions

Clearer **communication**

Focus on Automotive

Improve our **presentation**

Redesign / restructure website

Explain the benefit of RadioDNS Membership

More unique member benefits

Recruit new members

# 2018 Actions

## Project Logo

Making it a radio and automotive industry **standard**

Launch **Standard Licence**

Launch **Service Compliance Testing and Fault Reporting**

## Technology group

Publish changes to **Lookup** and **SPI** standards

Investigate new requirements

## Grow Membership

# Project Logo

Wider implementation in 2018

# Project Logo

**Specific requirement** for more accurate radio station logos in the dashboard

Easy to explain to broadcasters and manufacturers

Easy to implement

Working in conjunction with WorldDAB





# Implementation

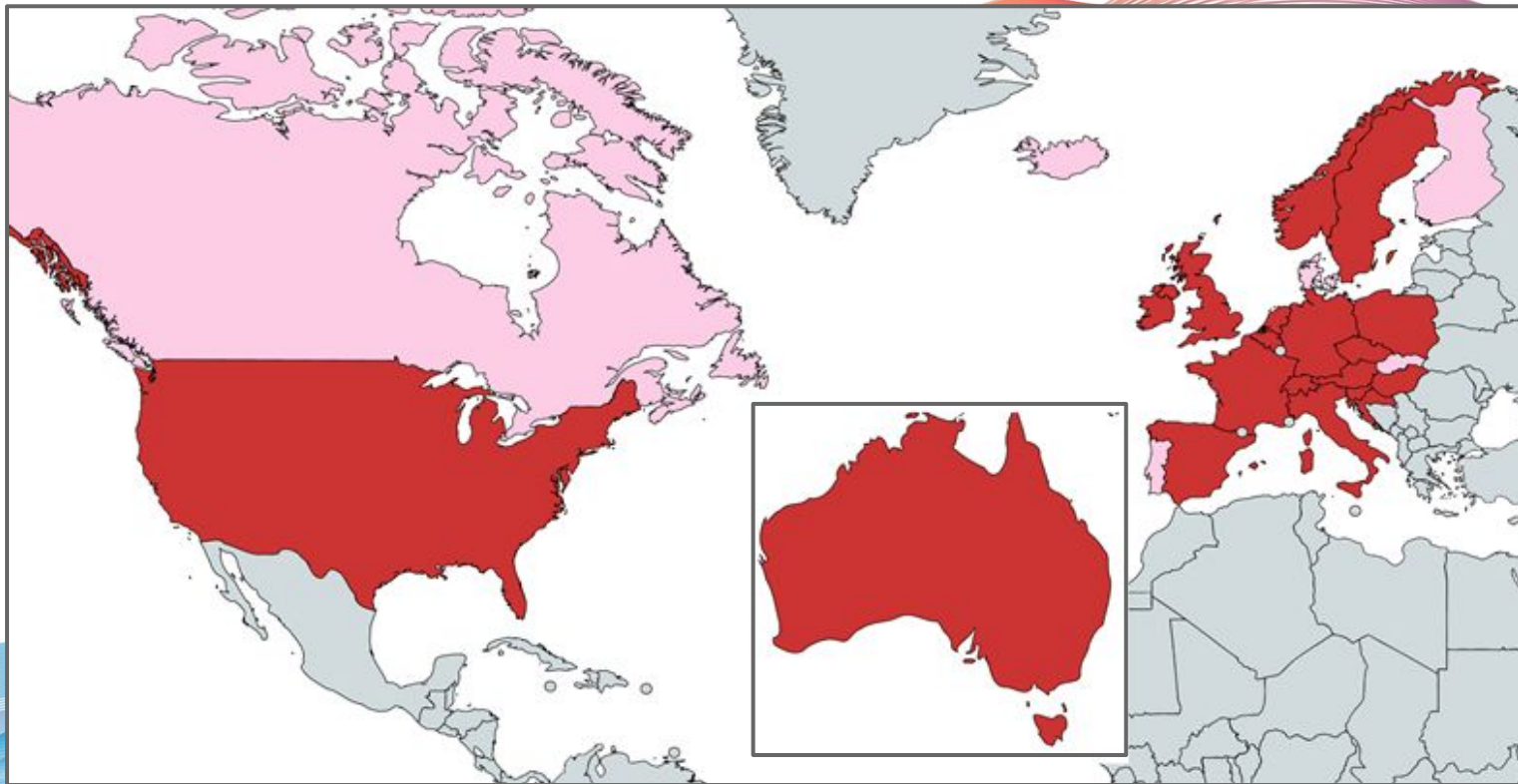
Sufficient **coverage** to be viable

- Using RadioDNS does not prevent “fallback approaches” where RadioDNS / DAB SPI is not available

Logos (metadata) need to be **licensed**

Implementations (Service Providers and Technology Providers) need to be **compliant**

# Coverage



# Proposal to Industry

## **RadioDNS, EBU, WorldDAB will**

provide practical support to allow all broadcasters to participate

## **Automotive Industry will**

work with their technology suppliers to become Project Logo compliant (RadioDNS and / or DAB SPI)

Meetings with manufacturers and ACEA (European Automotive Manufacturers Association)



# Standard Licence

Clarity for broadcasters and manufacturers

# Principles

Licence enforces **technical compliance** and **implementation compliance**

**Broadcasters** provide metadata for free

**Manufacturers** must use it correctly, as defined in the **Implementation Guidelines**

Licence agreement is **implicit** by use

Broadcasters must include a **link to the licence** in their SI file

Broadcasters can use a **bespoke licence** but manufacturers may not want to incur costs to review / sign if the content isn't of sufficient value

# Standard Licence

RadioDNS will create the a **standard licence** and make it publicly available on a permanent URL on our website


Similar in style to a **Creative Commons** licence

RadioDNS will **not be a party** to the licence

Our drafting of the licence is being informed by real-world discussions with broadcasters and manufacturers.

# Creative Commons

## “Human Readable” and “Legal Text” versions



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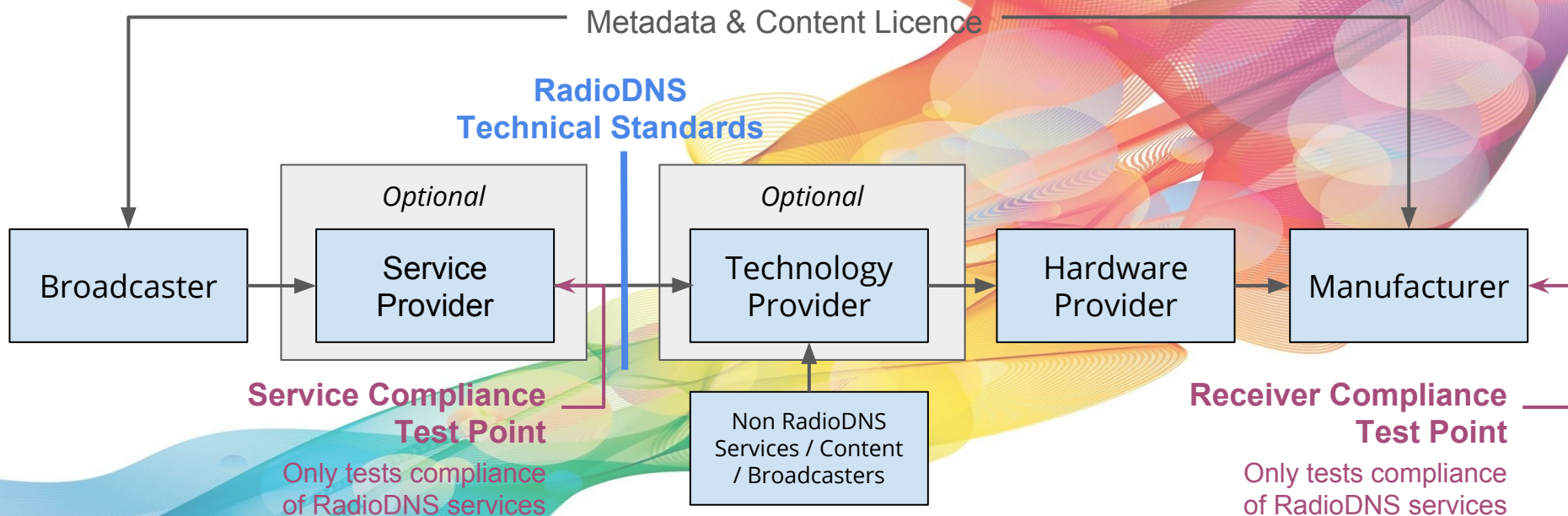
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# Compliance and Certification

Verifying RadioDNS Implementations



# RadioDNS in the chain



# Compliance Testing

Operational **now:**

**Technology** testing (Core, Visuals, EPG)

In **2018:**

**Service** testing

**Fault** reporting

## Test and Development Platform

Current Client ([change](#))  
Revo PiXiS RS (NP Test) (0.01)

Passes 62  
Failures 1  
Incomplete 1

## RadioDNS Core

### CORE-1A

DNS CNAME resolution based on received PI code

pass

[Perform Test](#)

### CORE-1B

DNS CNAME resolution based on received ECC matching a previously calculated value

pass

[Perform Test](#)

### CORE-1C

DNS CNAME resolution based on received ECC not matching a previously calculated value

pass

[Perform Test](#)

### CORE-2

Repeating DNS CNAME resolution when PI code changes

pass

[Perform Test](#)

### CORE-3A

DNS SRV resolution for RadioVIS application (HTTP transport)

pass

[Perform Test](#)

### CORE-3B

untested

[Perform Test](#)

# Technology Certification

Tests validate the **end-experience**, the intermediate processes are not investigated

Issued to a **specific** (device + firmware) version

Only tests compliance with **RadioDNS** functionality

If a radio station is providing **RadioDNS** services, they must be presented to the end-user in accordance with the specifications, the guidelines and the licence.

# Service Certification

Launching in 2018, similar approach to Technology certification

Tests validate the **service presentation** for compliance with the standards

Issued to a **specific** platform version

Only tests compliance with **RadioDNS** functionality

# Fault Reporting

Additional functionality to Service testing

Allows a **manufacturer/technology provider** to investigate why something is wrong

If it's a service provision failure, report it **directly** to the service provider

**Saving time and money chasing problems**

# Trademarks

We will issue **Trademark Licenses** to organisations

**Trademark Licence** will allow use only on products holding a validation certificate

Currently only **members** can use the Test and Demonstration platform, and therefore use trademarks

**We are telling broadcasters and manufacturers to look for RadioDNS compliance**

# Membership

Growing in 2018



# Membership

We are **entirely** funded by our members

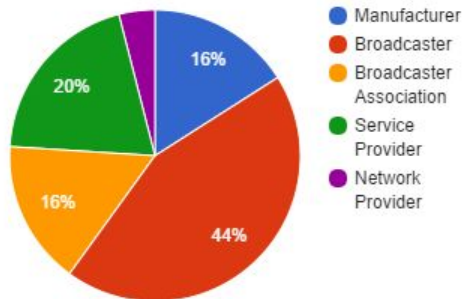
Currently (2018)

**25 Members**

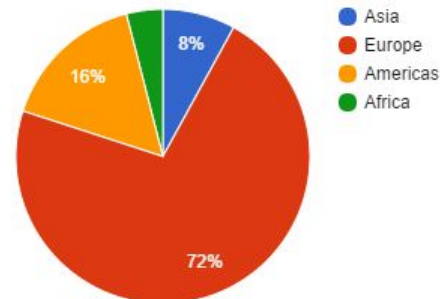
Target (start 2019)

**27 Members**

Members by Activity



Members by Continent



# Unique Member Benefits

Project Office support will be prioritised to members

The Technical Group will only be accessible to members.

Testing tools will only available to members

The fault checking and reporting service

Certification and trademark licensing

We will charge for non-members to attend our events (except in exceptional circumstances)

# Staying Open

Technical standards

The SI construction tool, and a basic “monitoring” tool

HOWTO documents on technical implementation

Presentations materials that we have used publicly

Minutes of Steering Board and General Assembly meetings

Code under recognised open source licences

Market data about the rollout of RadioDNS services

# 2018 Tour

|   |  |  |
|---|--|--|
| <b>EBU Digital Radio Summit</b><br>Geneva, February | <b>ABU Digital Broadcast Summit</b><br>Kuala Lumpur, March | <b>RadioDays Europe</b><br>Vienna, March |
| <b>NAB Show</b><br>Las Vegas, April                 | <b>RDS Forum</b><br>Montreux, June                         | <b>IBC</b><br>Amsterdam, September       |
| <b>WorldDAB General Assembly</b><br>November        | <b>CES</b><br>Las Vegas, January 2019                      |  |

(Events to be confirmed)

# Budget 2018

Funding our Plans

# Budget 2018

**No change** in membership fee in 2018

Increase our spend on **education / marketing**

Significant investment in **developing testing tools**

Option to add **project administration** support

# Budget 2018

|                              |                |
|------------------------------|----------------|
| <b>Opening Bank Account</b>  | £30,734        |
| <b>Memberships (27)</b>      | £79,000        |
| <b>HbbTV Revenue + other</b> | £6,000         |
| <b>Income</b>                | <b>£87,000</b> |
|                              |                |
| <b>Project Office</b>        | £38,000        |
| <b>Web Hosting</b>           | £ 500          |
| <b>DNS Hosting and Admin</b> | £ 2,900        |

|                                |           |
|--------------------------------|-----------|
| <b>Bank / Financial</b>        | £ 1,500   |
| <b>Bad Debts / Unpaid Fees</b> | £ 3,000   |
| <b>Events and Marketing</b>    | £ 27,300  |
| <b>Test and Demo Platform</b>  | £ 16,000  |
| <b>Legal</b>                   | £ 8,500   |
|                                |           |
| <b>Deficit 2017</b>            | (£10,700) |
| <b>Closing Bank Account</b>    | £20,034   |

# 2018 Budget v 2017 Actual

|                                 | 2018 Budget | 2017 Actual |
|---------------------------------|-------------|-------------|
| <b>Income</b>                   | £87,000     | £78,000     |
| <b>Operations</b>               | £43,000     | £37,538     |
| <b>Hosting &amp; Technology</b> | £2,900      | £2,285      |
| <b>Marketing</b>                | £27,300     | £22,272     |
| <b>Legal</b>                    | £8,500      | £2,041      |
| <b>Projects</b>                 | £16,000     | -           |
| <b>Surplus / (Deficit)</b>      | (£10,700)   | £13,655     |



# Technical Group

RadioDNS General Assembly 2018

Ben Poor, TG Chair

# Overview

## New group within RadioDNS

Formed from within RadioDNS membership, but can invite external observers/experts

Successor to **Application Teams**, which have successfully developed and pushed standards work

Responsible for all technical development of standards, and related work.

Not responsible for technical operational matters, e.g. running DNS servers

**“Creating an open and transparent process for technical standards”**

# Terms of Reference

## Defined by the Steering Board (SB)

1. Creating and defining the terms of reference of Project Teams (PT);
2. Overseeing the work of the PTs to ensure they adhere to the processes and their terms of reference;
3. Managing the relevant standards based on outputs from PTs.
4. Promoting and facilitating communication on project progress and other technical matters between members, PTs and the SB.
5. Increasing member engagement on technical matters and their involvement in technical developments.

# Project Teams

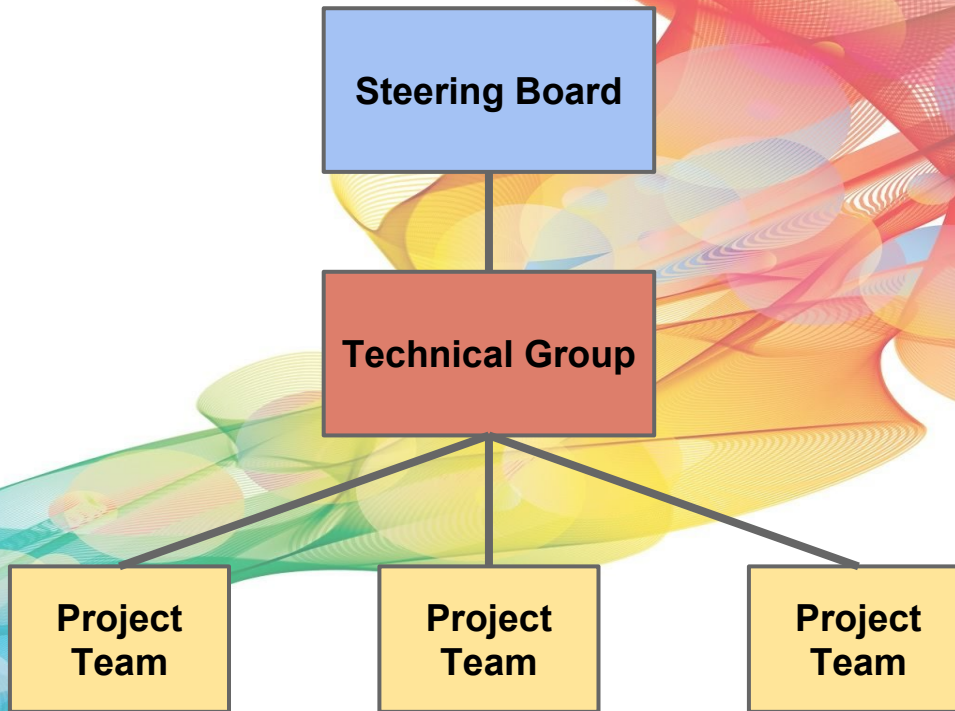
Created by the Technical Group to undertake **specific** packages of work

Timebound, defined, deliverables - not ongoing discussion groups

Vehicles for the delivery of technical and standards work within RadioDNS

Reports back to the Technical Group

# Relationships



# Objectives

## **Transparency, Predictability, Visibility**

A view of past, current and proposed work

Timetable of activities for the next 12 months

A public page giving details of the technical activities of the TG

Regular meetings

## **Clear separation between the Steering Board and the Technical Group**

# Formation

**October 2017:** Proposal made to the SB (SB26/6b)

**November 2017:** Approved by the SB (EBM)

**December 2017:** Call for participants, Election for Chair/Vice-Chair, Chair approved by SB, Vice-Chair left absent for 2018

**January 2018:** First meeting of the TG

# Current Membership





# Current Activities

2018

# Workplan Development

| Item | Specification (if applicable)             | Proposer          | Title   | Summary   | Priority | Complexity | Assigned                                     | Proposed Delivery |
|------|---|-------------------|---|---|----------|------------|--|-------------------|
| 1    | ETSI TS 102 818 (Hybrid SPI)              | RadioDNS          | GeoRSS XSD Fixes  | Previous versions of the specification incorrectly linked to the 1.1 GeoRSS XSD URL, using the 1.0 namespace. This was fixed at publication time as this pointed to the 1.0 XSD. However, they have since restructured their website and have now corrected this, causing some validation errors in some parsers.<br><br>A fix would be to ensure that the 1.0 namespace is using the 1.0 XSD. Future updates would take this to 1.1. | HIGH     | LOW        | Andy Buckingham<br>Ben Poor                  | April 2015        |
| 2    | ETSI TS 102 818 (Hybrid SPI)              | NPR               | Contributors and Creators   | Define production, contribution, creation tags against individual programmes for data exchange purposes   | LOW      | MEDIUM     |  |                   |
| 3    | ETSI TS 102 818 (Hybrid SPI)              | Audi              | Phonemes  | Define metadata for phonemes and graphemes in various languages and phonetic schema.  | HIGH     | MEDIUM     | Andy Buckingham                              | June 2015         |
| 4    | ETSI TS 102 818 (Hybrid SPI)              | TBC               | Service Language  | Add language indicators for a service, to indicate that a service is either wholly in one language or has a mix of main languages. This should indicate the general service language, and can be overridden by individual programmes.   | LOW      | LOW        |  |                   |
| 5    | ETSI TS XXX.XXX (Tagging and Bookmarking) | RadioDNS          | Bookmarking and Tagging specification                               | Complete and publish the specification document for bookmarking and tagging a radio service.<br><br>A mature draft is in circulation, with some detailed comments from members of the Steering Board that will need to be addressed. This is linked to the CPA specification (ETSI TS 103 427) that defines the methods of authentication on devices.   | MEDIUM   | HIGH       | Daisuke Ozaki<br>Andy Buckingham<br>Ben Poor | June 2015         |
| 6    | ETSI TS 103 427 (CPA)                     | TBC               | CPA for Voice Control devices                                       | Extensions to the specification to allow for CPA on voice control only devices, or more detailed guidance on pairing a visual console (e.g. smartphone) with such a device to allow CPA to work.  | DESCOPEd |            |  |                   |
| 7    | ETSI TS 103 270 (RadioDNS Lookup)         | RadioDNS          | Client API Key  | Guidance on providing an authorization key for RadioDNS services in order to authenticate the response. Particularly applicable for the implementation of "trusted" relationships for SPI data.   | HIGH     | LOW        | Ben Poor                                     | April 2015        |
| 8    | NA  | TG                | Technical Group working platform                                    | Define and implement a working platform for the group that would assist the communication and implementation of technical projects.<br><br>This should include workspace for documentation, forum for discussions, SCM for code and working documents, calendar for meetings, issue tracking and collation<br><br>Open to members of the TG only.   | MEDIUM   | MEDIUM     | Ben Poor                                     | September 2015    |
| 9    | ETSI TS 101 499 (Hybrid Slideflow)        | TBC               | Clarification on Category/D Slide/D                                 | Clarification is required on the format of Category/D and Slide/D for visible over IP, carrying this information in HTTP or Slomp headers   | LOW      | LOW        |  |                   |
| 10   | ETSI TS 102 818 (Hybrid SPI)              | EBU<br>joo@ebu.ch | Hybrid Data Platform  | Participation in an open source collaborative reference platform for hybrid SPI, alongside EBU, IRT and others.   | DESCOPEd |            |  |                   |
| 11   | ETSI TS 102 818 (Hybrid SPI)              | TBC               | Multiple term declarations  | Clarification and definition on how multiple terms and licenses can be carried within the SPI data and how these should be interpreted by clients.  | MEDIUM   | LOW        |  |                   |
| 12   | ETSI TS 103 270 (RadioDNS Lookup)         | TBC               | Bearer definitions for HD to support multicast channels (e.g. HD-Q) | Extension of the bearer definitions for the HD radio platform to support multicast channels.  | LOW      | LOW        |  |                   |
| 13   | ETSI TS 102 818 (Hybrid SPI)              | RadioDNS          | Cascading term declarations   | Adding the ability to define a term override on a per-device level, to cope with individual services having more restrictive licensing that the service provider.   | MEDIUM   | LOW        |  |                   |
| 14   | ETSI TS 102 818 (Hybrid SPI)              | RadioDNS TG       | SPI extensibility   | An investigation into the current extensibility of the SPI, and whether additional functionality can be easily added to the document. Should assess how further extension can maintain usability, and how different use cases can be accommodated.  | HIGH     | HIGH       | Ben Poor                                     | October 2015      |

16 existing tasks

2 descoped

Rest classified:

- PRIORITY
- COMPLEXITY

# Priorities

**XSD Schema Fixes (SPI)**

**Client API Key (RadioDNS Lookup)**

**Phoneme Support (SPI)**

Work for these is largely done, but needs to be verified and tested

Proposals for Project Teams received, Suggested delivery dates April - June 2018

# Additional Tasks

## Tagging and Bookmarking Specification

Recent updated draft document, needs review and verification

## Technical Group Working Platform

A simple platform for TG collaboration (issue management, document management, workspace)

# Next Steps

1. Project Team Kickoff
2. Workplan Completed
3. Calendar of activities established
4. Standards work submitted

# Get Involved!

We would welcome additional members

Open to suggestions for additional work, projects,  
ideas

**Your chance to shape the technical work that  
RadioDNS does**

# Discussion

2018 Plans

# Any Other Business

Discussion



# Close of the Twelfth General Assembly

Drinks and Networking