

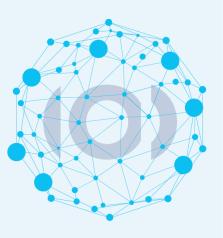
### Hybrid Radio at the EBU A quick look

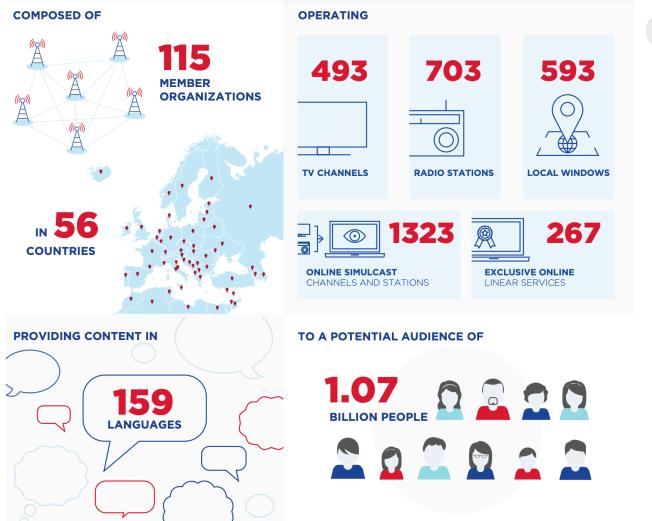
February 2021

Benjamin Poor

### THE EBU COMMUNITY IN NUMBERS

The European Broadcasting Union is the world's leading alliance of Public Service Media





## THE EBU AND RADIODNS

- > One of the founding members of RadioDNS
- Involved in the creation of the organisation, its standards and promotion to EBU members and beyond
- > Hosted the RadioDNS General Assemblies since the beginning
- Recommends the use of RadioDNS hybrid radio standards to its members
- Creates tools and services for EBU members to help support this recommendation
- Currently a part of the Steering board and Technical Group

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EBU OPERATING EUROVISION AND EURORADIO

R 138	
DIGITAL RADIO DEPLOYMENT IN EUROPE	
Version 2.0	
Recommendation Source: SP-RADIO	
Geneva	

November 2017

"Additional hybrid services be deployed alongside linear radio services to enable a seamless user experience, using RadioDNS (ETSI TS 103 270), the open solution for Hybrid Radio;"

## WHY OPEN STANDARDS?

- Open standards are important to our members and the wider industry in order to foster an interoperable and competitive market
- Proprietary interfaces may rapidly solve an immediate problem and be quicker to change, but they have a reliance on a limited set of vendors
- An open standard, managed in an open and transparent way by a crossindustry body and held by a standards body are more sustainable.
- > Long term sustainability in technology protects your investment
- Transparency and openness enables the standard to develop in a fair and balanced way
- Interoperability rewards innovation less resources needed to implement proprietary interfaces can be used to improve functionality or reduce cost

## **TOOLS AND SERVICES**

- Continuing investment in developing opensource tools for our members and the wider community
- > Public presence on **github.com/ebu**
- > Internal innersource repositories available for our members
- An ongoing plan to provide more opensource projects across different domains, of use to our members and beyond as part of a pipeline of projects



### **PROJECT LOGO LOGOS, ALL BEARERS**

### + APPS THAT USE THEM! + VOICE/MOBILE/CARS

- + SCHEDULES/VISUALS
- + ON-DEMAND/PODCASTS
- + GEOLOCATION
- + DYNAMIC ONAIR INFORMATION+ DEEP INTEGRATION+ TAGGING

## **RADIODNS MANAGER**



Benjamin 🗸

RADIODNS

My Stations

My Channels

My Clients

Service Provider

SERVICE & PROGRAM INFO

Logo Image Repository

Station Logos

Service following

Calendar & Schedule (EPG)

RADIOVIS SLIDESHOW

SlideShow Image Repository RadioVIS Channel Images

RG-RTS :: Stations					Check Stations Add a new station
					Search:
	Name	Service Provider	FQDN	Services	
monuni)	Couleur3	RTS	couleur3.chrts.radio.ebu.io	VIS chrts.vis.radio.ebu.io:61613 EPG chrts.epg.radio.ebu.io:80 SPI chrts.spi.radio.ebu.io:443	Details Edit Delete
mesmet2	Espace 2	RTS	espace2.chrts.radio.ebu.io	VIS chrts.vis.radio.ebu.io:61613 EPG chrts.epg.radio.ebu.io:80 SPI chrts.spi.radio.ebu.io:443	Details Edit Delete
- Cliffor	Option Musique	RTS	optionmusique.chrts.radio.ebu.io	VIS chrts.vis.radio.ebu.io:61613 EPG chrts.epg.radio.ebu.io:80 SPI chrts.spi.radio.ebu.io:443	Details Edit Delete
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### **FEATURES**



Fully supports RadioDNS Lookup, Service and Programme Information and RadioVIS text and visual feeds.



Deploy as a Docker container either locally or in the cloud. Allows for easy deployment, scaling and maintenance. Designed for 24/7 operation.

Supports multiple organisations running multiple services over multiple bearers (IP streaming, DAB/DAB+, FM, HD Radio).



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Supports responding with additional, data for clients that provide an identifier (API Key). Can be used for providing higher quality data to select partners and for analytics.



Intelligent handling of organisation and radio service branding. Automatic scaling of station logos, and publishing of logo and branding information.

### AT A GLANCE...

#### SERVICES



#### BRANDING



#### **SCHEDULES**



#### **PUBLISH DATA**



### Download and try for yourself at: github.com/ebu/radiodns-manager

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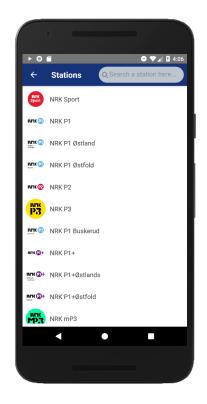
## **KEY FEATURES**

- Easily manage station details and schedules and publish SPI data
- Manage separate organisations
- Create and manage users and their authentication
- Logo management and automatic resizing
- Simple embedded RadioVIS service with logo sending, able to be used by an external slide content manager
- Client ID support supply additional responses based on predefined ID
- Available as a docker image, or compile and run from source
- New version to be released soon built upon more standard frameworks

### Available at: <u>https://github.com/ebu/radiodns-manager</u>

## **MOBILE APP DEMONSTRATOR**







### **KEY FEATURES**

- Simple mobile app to demonstrate the use of Openly-Standardized Hybrid Data. Developed in a week.
- Select an organization and listen online to any of their services on Android and iPhones.
- Works with Android Automotive
- Driven from data hosted within the EBU RadioDNS manager instance

Available at: <u>https://github.com/ebu/radiodns-mobile-demo</u>

## **OTHER WORK**

- Other projects relating to RadioVIS, used for creating and sending content relating to sports events
- Tools for integrating RadioDNS hybrid metadata with other systems and workflows
- Ongoing development possibilities for the RadioDNS manager and mobile application
- Long time use of the CPA specification (part of the proposed RadioTAG specification) as part of the EBU PEACH project

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