

HRADIO



HYBRID RADIO EVERYWHERE FOR EVERYONE

HRADIO

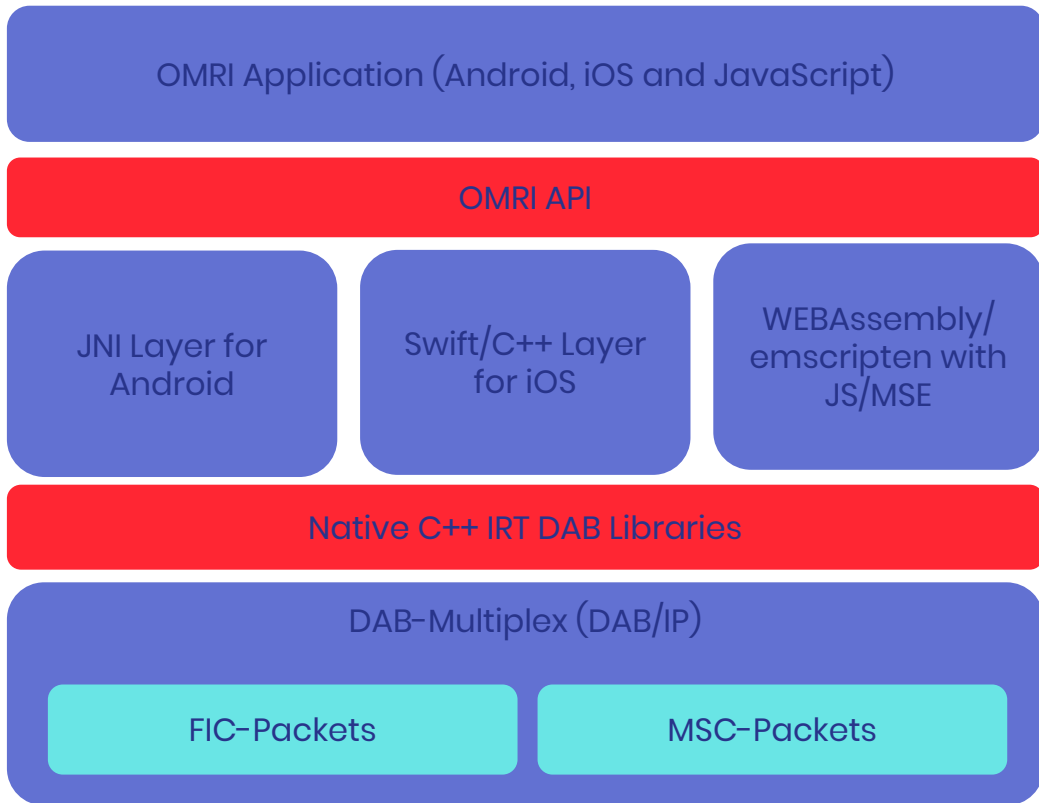
DAB-over-IP/Libraries

Alexander Erk (IRT)

Client libraries



- Open Mobile Radio Interface
- Java based API for radio centric applications
- Implementations:
 - Android : Ready
 - iOS: In work
 - HTML/JS: Prototype player is ready to test
- Technology agnostic
- High- and low-level access to radio data
- OMRI – ETSI TS 103632 V1.1.1

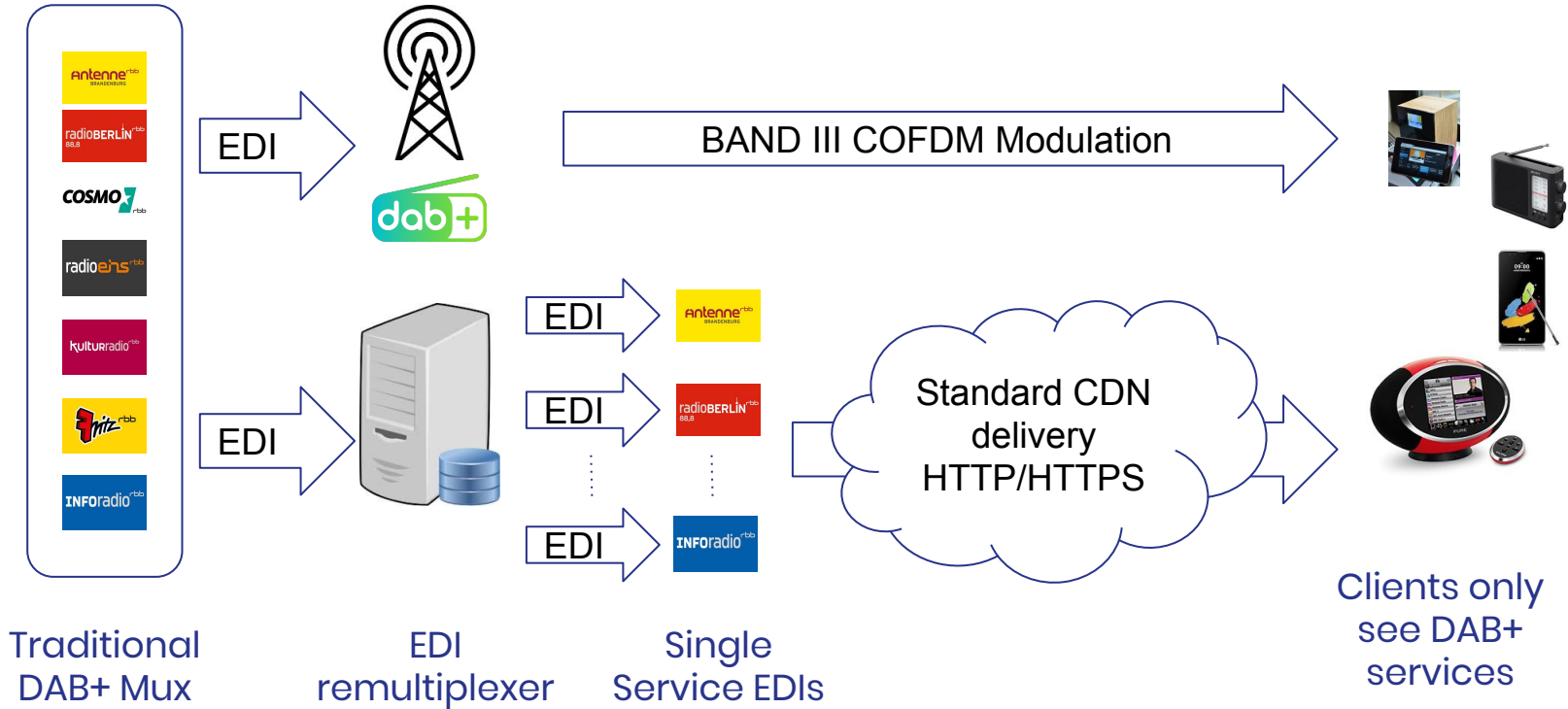


Why not use DAB+ as format for IP radio?

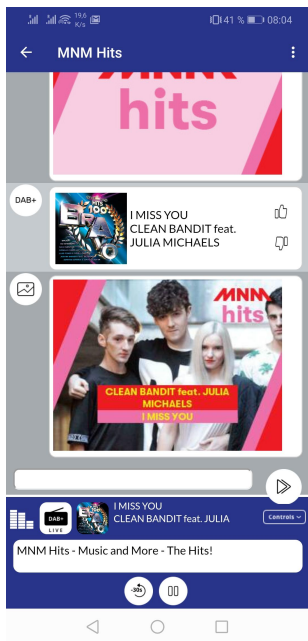


- DAB multiplexes contain all important audio and data services (not only MP3/AAC Audio)
- Completely self contained stream
- DynamicLabel+ is attached to the audio data (PAD) and perfectly in sync. esp. for the Item.running and Item.toggle information
- Slideshow is usually also attached to the audio data (PAD) and also perfectly in sync.
- Announcements/Warning/Traffic signalisation “in Band” with standardized means.
- Each single service is taken from the existing DAB+ multiplex of the broadcaster.
- Service following (DAB <-> IP) gets much more easier (no Audio processing/correlation)
- Application developers use DAB+ only

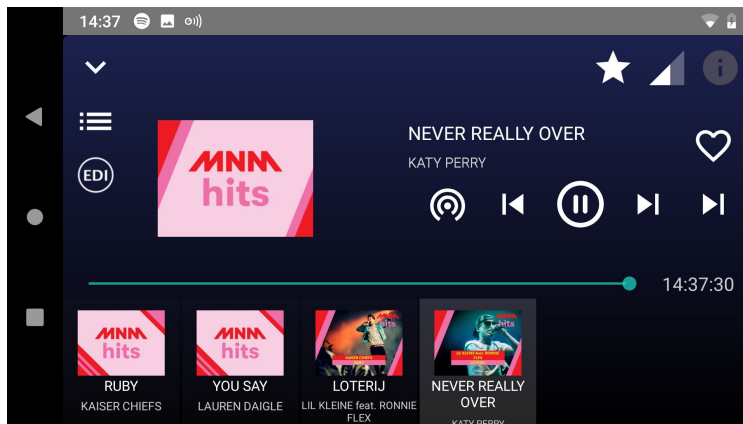
DAB+ EDI Splitter



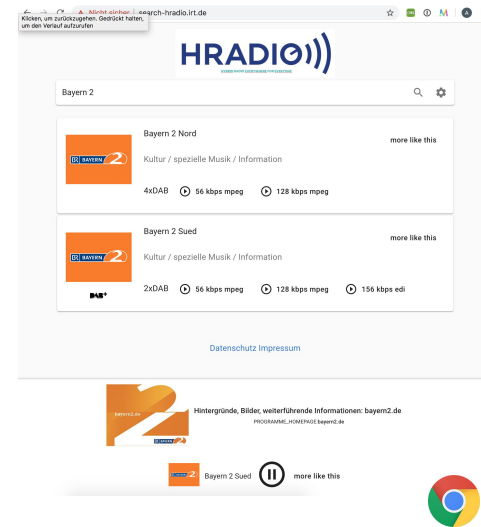
DAB over IP Web and Android applications



“Chat radio” pilot app



HRADIO Sample app



<http://search-hradio.irt.de/>

Upcoming...



- **github.com/hradio**
 - **the HRADIO Lab
Playout**
 - **a MP12 plugin for
Android**
 - **and more to come...**
- **Hackathon in November
in Munich.....**

stay tuned on .. **hradio.eu**

The screenshot shows the GitHub organization page for HRADIO. At the top, there's a navigation bar with links for 'Why GitHub?', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing'. A search bar and 'Sign in'/'Sign up' buttons are also present. Below the navigation, the organization name 'HRADIO' is displayed with a contact email 'CONTACT@HRADIO.EU'. The main content area features a 'Repositories' section with a 'Sign up' button and a 'Grow your team on GitHub' banner. Below this, there are search filters for 'Find a repository...', 'Type: All', and 'Language: All'. Two repositories are listed: 'hradio-lab-playout' (Docker based deployment of a complete OpenDigitalRadio based DAB/DAB+ playout for test and demo purposes) and 'omri-dabdecoder-plugin' (MPEG-1 Layer-2 Audio decoder plugin app). On the right side, there are panels for 'Top languages' (showing Dockerfile) and 'People' (indicating no public members).

THANK YOU FOR LISTENING

FIND OUT MORE: WWW.HRADIO.EU
GET IN TOUCH: CONTACT@HRADIO.EU
FOLLOW ON TWITTER: [@HRADIOPROJECT](https://twitter.com/HRADIOPROJECT)



This project received funding from the European Union's Horizon2020 research and innovation programme under grant agreement no. 761813