5G Broadcast
Hybrid Services

Member's work in more detail...

5G Broadcast
Overview of the work, outcomes, Execution Plan and Technical Resources

What is this project about?

Ability to **deliver content** to 3GPP-based devices **without** the need of a **SIM-card nor uplink** capabilities and by using **broadcast and/or cellular infrastructure**.

- Integration of broadcast reception into **3GPP-based** user equipment
- Delivery of **TV and Radio streaming services** over broadcast
- Integration within **OTT applications** and **smart devices**
- Broadcasting of **emergency alerts** alongside media services


```
User
Equipment
(Client)   ←   5G Broadcast
               Network        ↔   Application
                                  Provider
```

WHERE TO LOOK AT?

Check the Execution Plan
All the Technical Resources
Information on Standards
Reference Tools available:
  - **Project: 5G Broadcast Hybrid Services**
  - **Project: Emergency Alerts over 5G Broadcast**

5G Broadcast
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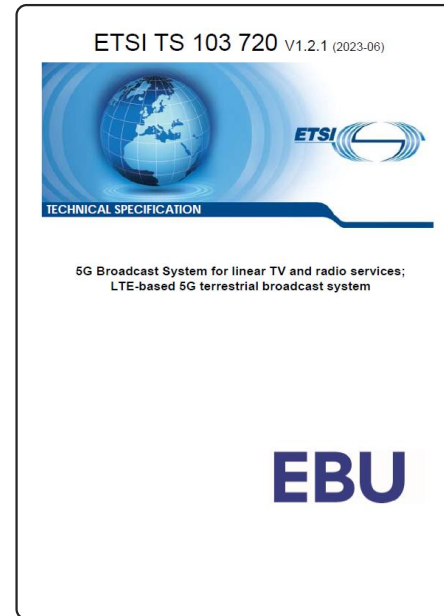
What are the members doing?

Standards

- Documentation on LTE-based 5G Broadcast for TV, Radio and Emergency Alerts
- Updates and maintenance of ETSI TS 103 720 "5G Broadcast System for TV and Radio" specification
- Study of hardware-friendly approaches to Time-Frequency Interleaving
- 3GPP Standardization tracker and relevant Work Items
- Support to standards with feedback from implementation

Software

- Implementation of end-to-end 5G Broadcast delivery chain for SDR-based hardware and Android smartphones
- Implementation of transmitter for emergency alerts based on Cell Broadcast alerts over 5G Broadcast

ETSI TS 103 720 V1.2.1 (2023-06)

TECHNICAL SPECIFICATION

5G Broadcast System for linear TV and radio services;
LTE-based 5G terrestrial broadcast system

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