

DAB+ standards update

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Topics

- Receiver testing
- Text handling
- Hybrid radio

Receiver testing

- For DAB receivers, the ETSI standard TS 103 461 has become the basis of most receiver testing
- But developments to the standards, a new EU directive, and DAB expansion beyond Europe meant that an update was needed
- World DAB TC completed the process to revise the standard and the new version was published in October 2020



Receiver testing

- Changes have been made to the requirements and to product and core technology testing:
 - The regional text profiles concept is integrated into the text
 - As DAB in vehicles is now mandated by the EU in member states through the EECC, the All Europe regional profile is specifically mentioned
 - All receivers are tested for correct reaction to emergency alarm announcements
 - Extra service following tests with the Extended Country Code (ECC) are added
- The extra core technology tests ensure that the chip sets and modules used in products will be able to deliver non-Latin text to suitable displays

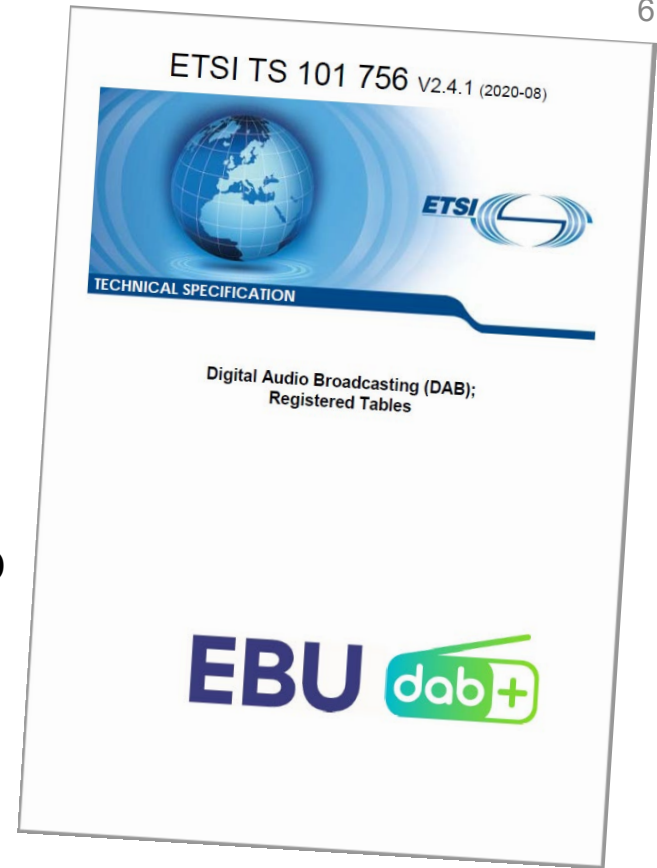
Text handling

- The new signalling to improve the presentation of non-Latin scripts is fully specified
 - A new version of ETSI TS 103 176 was published in August 2020
- This ETSI specification defines the framework for using non-Latin text
 - An additional signalling field to provide key complexity indicators and allow receivers to implement an intelligent presentation scheme
 - The regional profiles concept to define scope and limits for particular markets so that broadcasters provide text that can be displayed correctly by receivers



Text handling

- The DAB registered tables specification has been updated to include all the regional text profiles previously contained in TS 103 176 and with increased clarity
 - Four profiles
 - EBU Latin abcdef
 - All Europe abcdef αβγδεζ ЖЦЙЯЮ
 - ASBU 3i rë8 abcdef
 - Thai ÄË¼Ê→abcdef
 - Also provided are starburst display glyphs for the Greek and Cyrillic characters in the All Europe regional profile
- Published August 2020



Hybrid radio

- The Hybrid radio Service and Programme Information (SPI) specification ETSI TS 102 818 has been updated to expand the geolocation capability for IP bearers
 - It permits broadcasters to specify if IP streaming is allowed or disallowed within a specified area
 - Deals with rights issues, preferences for broadcast over IP, etc.
 - The areas can be nested
- Published August 2020



Thank you

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