

ETSI TS 101 756 V2.3.1 (2019-11)



Digital Audio Broadcasting (DAB); Registered Tables

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Foreword

This Technical Specification (TS) has been produced by Joint Technical Committee (JTC) Broadcast of the European Broadcasting Union (EBU), Comité Européen de Normalisation ELECTrotechnique (CENELEC) and the European Telecommunications Standards Institute (ETSI).

NOTE 1: The EBU/ETSI JTC Broadcast was established in 1990 to co-ordinate the drafting of standards in the specific field of broadcasting and related fields. Since 1995 the JTC Broadcast became a tripartite body by including in the Memorandum of Understanding also CENELEC, which is responsible for the standardization of radio and television receivers. The EBU is a professional association of broadcasting organizations whose work includes the co-ordination of its members' activities in the technical, legal, programme-making and programme-exchange domains. The EBU has active members in about 60 countries in the European broadcasting area; its headquarters is in Geneva.

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The Eureka Project 147 was established in 1987, with funding from the European Commission, to develop a system for the broadcasting of audio and data to fixed, portable or mobile receivers. Their work resulted in the publication of European Standard, ETSI EN 300 401 [1], for DAB (see note 2) which now has worldwide acceptance.

NOTE 2: DAB is a registered trademark owned by one of the Eureka Project 147 partners.

The DAB family of standards is supported by WorldDAB, an organization with members drawn from broadcasting organizations and telecommunication providers together with companies from the professional and consumer electronics industry.

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document contains a number of tables for use in the implementation of the Digital Audio Broadcasting (DAB), system [1] and the related Multimedia Object Transfer (MOT) standard [2]. The tables in the present document are maintained by the WorldDAB Technical Committee.

The procedure for registering a new value in an existing table or the registration of a new table in the present document is described in clause 4.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference/>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] ETSI EN 300 401 (V2.1.1): "Radio broadcasting systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers".
- [2] ETSI EN 301 234: "Digital Audio Broadcasting (DAB); Multimedia Object Transfer (MOT) protocol".
- [3] ETSI TS 103 466: "Digital Audio Broadcasting (DAB); DAB audio coding (MPEG Layer II)".
- [4] ETSI TS 102 563: "Digital Audio Broadcasting (DAB); DAB+ audio coding (MPEG HE-AACv2)".
- [5] ETSI TS 101 759: "Digital Audio Broadcasting (DAB); Data Broadcasting - Transparent Data Channel (TDC)".
- [6] ETSI TS 102 427: "Digital Audio Broadcasting (DAB); Data Broadcasting - MPEG-2 TS streaming".
- [7] ETSI TS 101 499: "Hybrid Digital Radio (DAB, DRM, RadioDNS); SlideShow; User Application Specification".
- [8] ETSI TS 103 551: "Digital Audio Broadcasting (DAB); Transport of TPEG services".
- [9] ETSI TS 102 818: "Hybrid Digital Radio (DAB, DRM, RadioDNS); XML Specification for Service and Programme Information (SPI)".
- [10] ETSI TS 102 428: "Digital Audio Broadcasting (DAB); DMB video service; User Application Specification".
- [11] ETSI TS 103 177: "Digital Audio Broadcasting (DAB); Filecasting; User application specification".
- [12] ETSI TS 102 979: "Digital Audio Broadcasting (DAB); Journaline; User application specification".
- [13] ETSI TS 103 176: "Digital Audio Broadcasting (DAB); Rules of implementation; Service information features".

- [14] IEC 62106 (all parts): 2018: "Radio data system (RDS) - VHF/FM sound broadcasting in the frequency range from 64,0 MHz to 108,0 MHz".
- [15] ISO/IEC 10646: "Information technology - Universal Coded Character Set (UCS)".
- [16] IETF RFC 1866: "Hypertext Markup Language - 2.0".
- [17] ISO/IEC 8859-1: "Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1".
- [18] ISO 32000-1:2008: "Document management - Portable document format - Part 1: PDF 1.7".
- [19] ISO/IEC 10918 (all parts): "Information technology - Digital compression and coding of continuous-tone still images".
- [20] ISO/IEC 15948: "Information technology - Computer graphics and image processing - Portable Network Graphics (PNG): Functional specification".
- [21] ISO/IEC 11172-3: "Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s - Part 3: Audio".
- [22] ISO/IEC 13818-3: "Information technology - Generic coding of moving pictures and associated audio information - Part 3: Audio".
- [23] ISO/IEC 14496-3: "Information technology - Coding of audio-visual objects - Part 3: Audio".
- [24] ISO/IEC 14496-2: "Information technology - Coding of audio-visual objects - Part 2: Visual".
- [25] IETF RFC 1950: "ZLIB Compressed Data Format Specification version 3.3".
- [26] IETF RFC 1952: "GZIP file format specification version 4.3".
- [27] ETSI TS 103 689: "Digital Audio Broadcasting (DAB); Filtered Information Service (FIS); Application specification".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Definition of terms, symbols and abbreviations

3.1 Terms

Void.

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

| | |
|------------|--|
| AM | Amplitude Modulation |
| AMSS | Amplitude Modulation Signalling System |
| ASCII | American Standard Code for Information Interchange |
| CIF | Common Interleaved Frame |
| DAB | Digital Audio Broadcasting |
| DL | Dynamic Label |
| DMB | Digital Multimedia Broadcasting |
| DSCTy | Data Service Component Type |
| EBU | European Broadcasting Union |
| ECC | Extended Country Codes |
| FIB | Fast Information Block |
| FIC | Fast Information Channel |
| FIG | Fast Information Group |
| FIS | Filtered Information Service |
| FM | Frequency Modulation |
| HTML | Hyper Text Mark-up Language |
| ITU | International Telecommunications Union |
| JFIF | JPEG File Interchange Format |
| JPEG | Joint Photographic Experts Group |
| LTO | Local Time Offset |
| MCI | Multiplex Configuration Information |
| MOT | Multimedia Object Transfer |
| MPEG | Moving Pictures Expert Group |
| OE | Other Ensemble |
| PAD | Programme Associated Data |
| PNG | Portable Network Graphics |
| PTy | Programme Type |
| RDS | Radio Data System |
| <i>rfu</i> | reserved for future use |
| SI | Service Information |
| SPI | Service and Programme Information |
| tba | to be announced |
| TDC | Transparent Data Channel |
| TII | Transmitter Identification Information |
| TPEG | Transport Protocol Experts Group |
| UCS | Universal Character Set |
| UTF | Unicode Transformation Format |

4 Registration procedure

4.1 Registration authority

The content of the present document is maintained by the WorldDAB Technical Committee. Applications for the registration of a value in an existing table or registration of a new table are to be sent to the address below. Note that only applications which are in line with the rules described in the following clauses can be accepted by the registration authority.

Applications for registration should be sent to:

WorldDAB Project Office,
55 New Oxford Street,
LONDON,
WC1A 1BS,
England
Tel: +44 20 7010 0742
E-mail: worlddab-irc@worlddab.org

4.2 Registration of a value in an existing table

Applications for a new value to be defined in an **existing** table shall be sent to the WorldDAB Project Office. The requirement shall be clearly stated, including table to be considered, requirement and proposed number to be used. Support from other organizations for the request should be cited also.

The WorldDAB Project Office will confirm that no numbering conflicts occur at this stage and circulate the proposal to the WorldDAB Technical Committee members for a 30 day comment period. If there are no adverse comments, then the application, as amended by any helpful editorial suggestions will be accepted and published within 30 days on the WorldDAB website. If there are adverse comments, then the application will be considered by the WorldDAB Technical Committee at its next plenary meeting following the comment period. The applicant will be given an opportunity during the meeting to describe their proposal and reasons for it. The decision of the WorldDAB Technical Committee meeting will be final and if the application is accepted, as amended by any helpful editorial suggestions, it will be published within 30 days on the WorldDAB website.

4.3 Registration of a new table

Applications for a **new** table to be defined shall be sent to the WorldDAB Project Office. The requirement shall be clearly stated, including table function to be considered, requirement and proposed numbering system to be used. Support from other organizations for the request should be cited also.

The WorldDAB Project Office will prepare a briefing for the next WorldDAB Technical Committee plenary meeting and the applicant will be given an opportunity to describe their proposal and reasons for it. The decision of the WorldDAB Technical Committee meeting will be final and if the application is accepted, as amended by any helpful editorial suggestions, it will be published within 30 days on the WorldDAB website.

5 Registered tables in ETSI EN 300 401

5.1 General

The following tables provide enumeration of FIG data fields in ETSI EN 300 401 [1].

5.2 Character sets (Charset)

See clause 5.2.2.2 of ETSI EN 300 401 [1].

Table 1 contains all *presently* registered character sets and their bit values used in the FIG type 1 data field and dynamic labels. All the remaining values are reserved for future use. Usage details are provided in ETSI TS 103 176 [13], clause 8.

Table 1: Charset values

| b ₇ | b ₆ | b ₅ | b ₄ | Character set (Charset) |
|----------------|----------------|----------------|----------------|---|
| 0 | 0 | 0 | 0 | Complete EBU Latin based repertoire - see annex C |
| 0 | 1 | 1 | 0 | ISO/IEC 10646 [15] using UTF-16 transformation format, big endian byte order (see note) |
| 1 | 1 | 1 | 1 | ISO/IEC 10646 [15] using UTF-8 transformation format |

NOTE: UTF-16 is an extension of UCS-2; in DAB the code range is restricted to 2-byte characters (i.e. basic multilingual plane only).

5.3 Audio and Data Service Component Type (ASCTy/DSCTy)

See clause 6.3.1 of ETSI EN 300 401 [1].

Table 2a contains all *presently* registered Audio Service Component Types and their bit values. All the remaining values (not shown) are reserved for future use.

Table 2a: ASCTy types

| b ₁₃ | b ₁₂ | b ₁₁ | b ₁₀ | b ₉ | b ₈ | Dec | ASCTy types |
|-----------------|-----------------|-----------------|-----------------|----------------|----------------|-----|--------------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | DAB audio (see ETSI TS 103 466 [3]) |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | Not used |
| 0 | 0 | 0 | 0 | 1 | 0 | 2 | Not used |
| | | | | | | | <i>Rfu</i> |
| 1 | 1 | 1 | 1 | 1 | 1 | 63 | DAB+ audio (see ETSI TS 102 563 [4]) |

Table 2b contains all *presently* registered Data Service Component Types and their bit values. All the remaining values (not shown) are reserved for future use.

Table 2b: DSCTy types

| b ₁₃ | b ₁₂ | b ₁₁ | b ₁₀ | b ₉ | b ₈ | Dec | DSCTy types |
|-----------------|-----------------|-----------------|-----------------|----------------|----------------|-----|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | Not used |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | Not used |
| 0 | 0 | 0 | 0 | 1 | 0 | 2 | Not used |
| 0 | 0 | 0 | 0 | 1 | 1 | 3 | Not used |
| 0 | 0 | 0 | 1 | 0 | 0 | 4 | Not used |
| 0 | 0 | 0 | 1 | 0 | 1 | 5 | Transparent Data Channel (TDC), see ETSI TS 101 759 [5] |
| | | | | | | | <i>Rfu</i> |
| 0 | 1 | 1 | 0 | 0 | 0 | 24 | MPEG-2 Transport Stream, see ETSI TS 102 427 [6] |
| | | | | | | | <i>Rfu</i> |
| 1 | 1 | 1 | 0 | 1 | 1 | 59 | Not used |
| 1 | 1 | 1 | 1 | 0 | 0 | 60 | Multimedia Object Transfer (MOT), see ETSI EN 301 234 [2] |
| 1 | 1 | 1 | 1 | 0 | 1 | 61 | Proprietary service: no DSCTy signalled |
| 1 | 1 | 1 | 1 | 1 | 0 | 62 | Not used |
| 1 | 1 | 1 | 1 | 1 | 1 | 63 | Not used |

5.4 Country Id

See clause 6.3.1 of ETSI EN 300 401 [1].

Tables 3 to 7 are separated into International Telecommunications Union (ITU) regions for convenience only; they contain Country Identifiers (Country Id) and the Extended Country Codes (ECC), and, for information, the ITU code. The Country Id codes and ECC are shown in their binary-coded hexadecimal form. Country identifier code "0" (hex) is not used.

NOTE: Lower case characters have been used where there is no known ITU code.

Table 3: ITU Region 1 (European broadcasting area)

| Country | ITU code | ECC | Country Id | Country | ITU code | ECC | Country Id |
|--------------------|----------|-----|------------|--------------------|----------|-----|------------|
| Albania | ALB | E0 | 9 | Latvia | LVA | E3 | 9 |
| Algeria | ALG | E0 | 2 | Lebanon | LBN | E3 | A |
| Andorra | AND | E0 | 3 | Libya | LBY | E1 | D |
| Armenia | ARM | E4 | A | Liechtenstein | LIE | E2 | 9 |
| Austria | AUT | E0 | A | Lithuania | LTU | E2 | C |
| Azerbaijan | AZE | E3 | B | Luxembourg | LUX | E1 | 7 |
| Azores (Portugal) | AZR | E0 | 8 | Macedonia | MKD | E4 | 3 |
| Belgium | BEL | E0 | 6 | Madeira | MDR | E2 | 8 |
| Belarus | BLR | E3 | F | Malta | MLT | E0 | C |
| Bosnia Herzegovina | BIH | E4 | F | Moldova | MDA | E4 | 1 |
| Bulgaria | BUL | E1 | 8 | Monaco | MCO | E2 | B |
| Canaries (Spain) | CNR | E0 | E | Montenegro | MNE | E3 | 1 |
| Croatia | HRV | E3 | C | Morocco | MRC | E2 | 1 |
| Cyprus | CYP | E1 | 2 | Netherlands | HOL | E3 | 8 |
| Czech Republic | CZE | E2 | 2 | Norway | NOR | E2 | F |
| Denmark | DNK | E1 | 9 | Palestine | - | E0 | 8 |
| Egypt | EGY | E0 | F | Poland | POL | E2 | 3 |
| Estonia | EST | E4 | 2 | Portugal | POR | E4 | 8 |
| Faroe (Denmark) | DNK | E1 | 9 | Romania | ROU | E1 | E |
| Finland | FNL | E1 | 6 | Russian Federation | RUS | E0 | 7 |
| France | F | E1 | F | San Marino | SM | E1 | 3 |
| Georgia | GEO | E4 | C | Serbia | SRB | E2 | D |
| Germany | D | E0 | D, 1 | Slovakia | SVK | E2 | 5 |
| Gibraltar (UK) | GIB | E1 | A | Slovenia | SVN | E4 | 9 |
| Greece | GRC | E1 | 1 | Spain | E | E2 | E |
| Hungary | HNG | E0 | B | Sweden | S | E3 | E |
| Iceland | ISL | E2 | A | Switzerland | SUI | E1 | 4 |
| Iraq | IRQ | E1 | B | Syria | SYR | E2 | 6 |
| Ireland | IRL | E3 | 2 | Tajikistan | TJK | E3 | 5 |
| Israel | ISR | E0 | 4 | Tunisia | TUN | E2 | 7 |
| Italy | I | E0 | 5 | Turkey | TUR | E3 | 3 |
| Jordan | JOR | E1 | 5 | Turkmenistan | TKM | E4 | E |
| Kazakhstan | KAZ | E3 | D | Ukraine | UKR | E4 | 6 |
| Kosovo | - | E4 | 7 | United Kingdom | G | E1 | C |
| Kyrgyzstan | KGZ | E4 | 3 | Uzbekistan | UZB | E4 | B |
| | | | | Vatican | CVA | E2 | 4 |

Table 4: ITU Region 1 (African broadcasting area)

| Country | ITU code | ECC | Country Id | Country | ITU code | ECC | Country Id |
|--------------------------|----------|-----|------------|-----------------------|----------|-----|------------|
| Ascension Island | ASC | D1 | A | Mauritius | MAU | D3 | A |
| Angola | AGL | D0 | 6 | Madagascar | MDG | D0 | 4 |
| Algeria | ALG | E0 | 2 | Malawi | MWI | D0 | F |
| Burundi | BDI | D1 | 9 | Mali | MLI | D0 | 5 |
| Benin | BEN | D0 | E | Morocco | MRC | E2 | 1 |
| Burkina Faso | BFA | D0 | B | Mauritania | MTN | D1 | 4 |
| Botswana | BOT | D1 | B | Mozambique | MOZ | D2 | 3 |
| Cameroon | CME | D0 | 1 | Niger | NGR | D2 | 8 |
| Canary Islands | CNR | E0 | E | Nigeria | NIG | D1 | F |
| Central African Republic | CAF | D0 | 2 | Namibia | NMB | D1 | 1 |
| Chad | TCD | D2 | 9 | Rwanda | RRW | D3 | 5 |
| Congo | COG | D0 | C | Sao Tome and Principe | STP | D1 | 5 |
| Comoros | COM | D1 | C | Seychelles | SEY | D3 | 8 |
| Cape Verde | CPV | D1 | 6 | Senegal | SEN | D1 | 7 |
| Cote d'Ivoire | CTI | D2 | C | Sierra Leone | SRL | D2 | 1 |
| Djibouti | DJI | D0 | 3 | Somalia | SOM | D2 | 7 |
| Egypt | EGY | E0 | F | South Africa | AFS | D0 | A |
| Ethiopia | ETH | D1 | E | Sudan | SDN | D3 | C |
| Gabon | GAB | D0 | 8 | Swaziland | SWZ | D2 | 5 |
| Ghana | GHA | D1 | 3 | Togo | TGO | D0 | D |
| Gambia | GMB | D1 | 8 | Tunisia | TUN | E2 | 7 |
| Guinea-Bissau | GNB | D2 | A | Tanzania | TZA | D1 | D |
| Equatorial Guinea | GNE | D0 | 7 | Uganda | UGA | D2 | 4 |
| Republic of Guinea | GUI | D0 | 9 | Western Sahara | AOE | D3 | 3 |
| Kenya | KEN | D2 | 6 | Zaire | ZAI | D2 | B |
| Liberia | LBR | D1 | 2 | Zambia | ZMB | D2 | E |
| Libya | LBY | E1 | D | Zanzibar | ZAN | D2 | D |
| Lesotho | LSO | D3 | 6 | Zimbabwe | ZWE | D2 | 2 |

Table 5: Void

Table 6: ITU Region 2 (North and South Americas)

| Country | ITU code | ECC | Country Id | Country | ITU code | ECC | Country Id |
|---------------------|----------|-----|------------|--------------------------|----------|-----|-----------------------|
| Anguilla | AIA | A2 | 1 | Guyana | GUY | A3 | F |
| Antigua and Barbuda | ATG | A2 | 2 | Haiti | HTI | A4 | D |
| Argentina | ARG | A2 | A | Honduras | HND | A4 | 2 |
| Aruba | ABW | A4 | 3 | Jamaica | JMC | A3 | 3 |
| Bahamas | BAH | A2 | F | Martinique | MRT | A3 | 4 |
| Barbados | BRB | A2 | 5 | Mexico | MEX | A4 | F |
| Belize | BLZ | A2 | 6 | Montserrat | MSR | A4 | 5 |
| Bermuda | BER | A2 | C | Netherlands Antilles | ATN | A2 | D |
| Bolivia | BOL | A3 | 1 | Nicaragua | NCG | A3 | 7 |
| Brazil | B | A2 | B | Panama | PNR | A3 | 9 |
| Canada | CAN | A1 | C | Paraguay | PRG | A3 | 6 |
| Cayman Islands | CYM | A2 | 7 | Peru | PRU | A4 | 7 |
| Chile | CHL | A3 | C | Puerto Rico | PTR | A3 | 8 |
| Colombia | CLM | A3 | 2 | St. Kitts | SCN | A4 | A |
| Costa Rica | CTR | A2 | 8 | St. Lucia | LCA | A4 | B |
| Cuba | CUB | A2 | 9 | St. Pierre and Miquelon | SPM | A6 | F |
| Dominica | DMA | A3 | A | St. Vincent | VCT | A5 | C |
| Dominican Republic | DOM | A3 | B | Surinam | SUR | A4 | 8 |
| Equator | EQA | A2 | 3 | Trinidad and Tobago | TRD | A4 | 6 |
| El Salvador | SLV | A4 | C | Turks and Caicos islands | TCA | A3 | E |
| Falkland Islands | FLK | A2 | 4 | United States of America | USA | A0 | 1 to 9, A, B, D, E |
| Greenland | GRL | A1 | F | Uruguay | URG | A4 | 9 |
| Grenada | GRD | A3 | D | Venezuela | VEN | A4 | E |
| Guadeloupe | GDL | A2 | E | Virgin islands (British) | VRG | A5 | F |
| Guatemala | GTM | A4 | 1 | Virgin islands (USA) | VIR | A5 | F |

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