

# ETSI TS 101 756 V2.2.1 (2017-08)



## Digital Audio Broadcasting (DAB); Registered Tables

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**Reference**

RTS/JTC-DAB-87

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# Contents

Intellectual Property Rights .....	5
Foreword.....	5
Modal verbs terminology.....	5
1 Scope .....	6
2 References .....	6
2.1 Normative references .....	6
2.2 Informative references.....	7
3 Abbreviations .....	7
4 Registration procedure .....	8
4.1 Registration authority .....	8
4.2 Registration of a value in an existing table.....	8
4.3 Registration of a new table .....	9
5 Registered tables in ETSI EN 300 401.....	9
5.1 General .....	9
5.2 Character sets (Charset).....	9
5.3 Audio and Data Service Component Type (ASCTy/DSCTy) .....	9
5.4 Country Id .....	11
5.5 Void.....	13
5.6 Languages code tables.....	13
5.7 International Table Identifiers .....	15
5.8 Programme type .....	15
5.9 Announcements.....	17
5.10 User Application Type .....	19
6 Registered tables in ETSI EN 301 234 (MOT) .....	19
6.1 Content type and content subtypes .....	19
6.2 Compressed data formats .....	20
6.3 Character set indicator.....	21
<b>Annex A (informative): Programme type codes, translations .....</b>	<b>22</b>
<b>Annex B (informative): Announcement type codes, translations.....</b>	<b>36</b>
<b>Annex C (normative): Complete EBU Latin based repertoire .....</b>	<b>42</b>
<b>Annex D (normative): Transition arrangements for DAB encoding equipment.....</b>	<b>49</b>
D.1 Introduction .....	49
D.2 Essential encoding requirements .....	49
D.2.1 Multiplex Configuration Information (MCI).....	49
D.2.2 Service Information (SI).....	50
D.3 Requirements for optional features .....	50
D.3.1 Service Information (SI).....	50
D.3.1.1 Introduction.....	50
D.3.1.2 FIG 0/6 (Service linking).....	50
D.3.1.3 FIG 0/9 (ECC and LTO).....	50
D.3.1.4 FIG 0/10 (date and time).....	50
D.3.1.5 FIG 0/17 (Programme Type) .....	50
D.3.1.6 FIG 0/18 (Announcement Support) .....	50
D.3.1.7 FIG 0/19 (Announcement Switching).....	50
D.3.1.8 FIG 0/21 (Frequency information).....	51
D.3.1.9 FIG 0/25 (OE Announcement Support) and FIG 0/26 (OE Announcement Switching).....	51
D.3.2 Dynamic Label .....	51
D.3.3 Deprecated FIGs.....	51

D.3.4	Reserved FIGs .....	51
D.4	Receiver considerations .....	51
D.4.1	Introduction .....	51
D.4.2	Part-time services .....	52
D.4.3	Announcements .....	52
D.4.3.1	Alarm announcements .....	52
D.4.3.2	OE announcements .....	52
History	.....	53

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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.

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# 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: "Specification of the Radio Data System (RDS) for VHF/FM sound broadcasting in the frequency range from 87,5 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".

## 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 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
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](mailto: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.

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## 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. All the remaining values are reserved for future use.

**Table 1: Charset values**

b <sub>7</sub>	b <sub>6</sub>	b <sub>5</sub>	b <sub>4</sub>	Character set (Charset)
0	0	0	0	Complete EBU Latin based repertoire - see annex C
0	1	1	0	ISO/IEC 10646 [15] using UCS-2 transformation format, big endian byte order
1	1	1	1	ISO/IEC 10646 [15] using UTF-8 transformation format

### 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 <sub>13</sub>	b <sub>12</sub>	b <sub>11</sub>	b <sub>10</sub>	b <sub>9</sub>	b <sub>8</sub>	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 <sub>13</sub>	b <sub>12</sub>	b <sub>11</sub>	b <sub>10</sub>	b <sub>9</sub>	b <sub>8</sub>	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

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## 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
Ascension Island	ASC	D1	A
Angola	AGL	D0	6
Algeria	ALG	E0	2
Burundi	BDI	D1	9
Benin	BEN	D0	E
Burkina Faso	BFA	D0	B
Botswana	BOT	D1	B
Cameroon	CME	D0	1
Canary Islands	CNR	E0	E
Central African Republic	CAF	D0	2
Chad	TCD	D2	9
Congo	COG	D0	C
Comoros	COM	D1	C
Cape Verde	CPV	D1	6
Cote d'Ivoire	CTI	D2	C
Djibouti	DJI	D0	3
Egypt	EGY	E0	F
Ethiopia	ETH	D1	E
Gabon	GAB	D0	8
Ghana	GHA	D1	3
Gambia	GMB	D1	8
Guinea-Bissau	GNB	D2	A
Equatorial Guinea	GNE	D0	7
Republic of Guinea	GUI	D0	9
Kenya	KEN	D2	6
Liberia	LBR	D1	2
Libya	LBY	E1	D
Lesotho	LSO	D3	6

Country	ITU code	ECC	Country Id
Mauritius	MAU	D3	A
Madagascar	MDG	D0	4
Malawi	MWI	D0	F
Mali	MLI	D0	5
Morocco	MRC	E2	1
Mauritania	MTN	D1	4
Mozambique	MOZ	D2	3
Niger	NGR	D2	8
Nigeria	NIG	D1	F
Namibia	NMB	D1	1
Rwanda	RRW	D3	5
Sao Tome and Principe	STP	D1	5
Seychelles	SEY	D3	8
Senegal	SEN	D1	7
Sierra Leone	SRL	D2	1
Somalia	SOM	D2	7
South Africa	AFS	D0	A
Sudan	SDN	D3	C
Swaziland	SWZ	D2	5
Togo	TGO	D0	D
Tunisia	TUN	E2	7
Tanzania	TZA	D1	D
Uganda	UGA	D2	4
Western Sahara	AOE	D3	3
Zaire	ZAI	D2	B
Zambia	ZMB	D2	E
Zanzibar	ZAN	D2	D
Zimbabwe	ZWE	D2	2

Table 5: Void

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

Country	ITU code	ECC	Country Id
Anguilla	AIA	A2	1
Antigua and Barbuda	ATG	A2	2
Argentina	ARG	A2	A
Aruba	ABW	A4	3
Bahamas	BAH	A2	F
Barbados	BRB	A2	5
Belize	BLZ	A2	6
Bermuda	BER	A2	C
Bolivia	BOL	A3	1
Brazil	B	A2	B
Canada	CAN	A1	C
Cayman Islands	CYM	A2	7
Chile	CHL	A3	C
Colombia	CLM	A3	2
Costa Rica	CTR	A2	8
Cuba	CUB	A2	9
Dominica	DMA	A3	A
Dominican Republic	DOM	A3	B
Equator	EQA	A2	3
El Salvador	SLV	A4	C
Falkland Islands	FLK	A2	4
Greenland	GRL	A1	F
Grenada	GRD	A3	D
Guadeloupe	GDL	A2	E
Guatemala	GTM	A4	1

Country	ITU code	ECC	Country Id
Guyana	GUY	A3	F
Haiti	HTI	A4	D
Honduras	HND	A4	2
Jamaica	JMC	A3	3
Martinique	MRT	A3	4
Mexico	MEX	A4	F
Montserrat	MSR	A4	5
Netherlands Antilles	ATN	A2	D
Nicaragua	NCG	A3	7
Panama	PNR	A3	9
Paraguay	PRG	A3	6
Peru	PRU	A4	7
Puerto Rico	PTR	A3	8
St. Kitts	SCN	A4	A
St. Lucia	LCA	A4	B
St. Pierre and Miquelon	SPM	A6	F
St. Vincent	VCT	A5	C
Surinam	SUR	A4	8
Trinidad and Tobago	TRD	A4	6
Turks and Caicos islands	TCA	A3	E
United States of America	USA	A0	1 to 9, A, B, D, E
Uruguay	URG	A4	9
Venezuela	VEN	A4	E
Virgin islands (British)	VRG	A5	F
Virgin islands (USA)	VIR	A5	F

Table 7: ITU Region 3 (Asia and Pacific)

Country	ITU code	ECC	Country Id	Country	ITU code	ECC	Country Id
Afghanistan	AFG	F0	A	Korea (South)	KOR	F1	E
Saudi Arabia	ARS	F0	9	Korea (North)	KRE	F0	D
Australia:	AUS			Kuwait	KWT	F2	1
Capital Cities (commercial and community broadcasters)	acc	F0	1	Laos	LAO	F3	1
Regional New South Wales and ACT	arn	F0	2	Macau	MAC	F2	6
Capital Cities (national broadcasters)	acn	F0	3	Malaysia	MLA	F0	F
Regional Queensland	arq	F0	4	Maldives	MLD	F2	B
Regional South Australia and Northern Territory	arc	F0	5	Micronesia	FSM	F3	E
Regional Western Australia	arw	F0	6	Mongolia	MNG	F3	F
Regional Victoria and Tasmania	arv	F0	7	Nepal	NPL	F2	E
Regional (future)	arf	F0	8	Nauru	NRU	F1	7
Bangladesh	BGD	F1	3	New Zealand	NZL	F1	9
Bahrain	BHR	F0	E	Oman	OMA	F1	6
Myanmar (Burma)	BRM	F0	B	Pakistan	PAK	F1	4
Brunei Darussalam	BRU	F1	B	Philippines	PHL	F2	8
Bhutan	BTN	F1	2	Papua New Guinea	PNG	F3	9
Cambodia	CBG	F2	3	Qatar	QAT	F2	2
China	CHN	F0	C	Solomon Islands	SLM	F1	A
Sri Lanka	CLN	F1	C	Western Samoa	SMO	F2	4
Fiji	FJI	F1	5	Singapore	SNG	F2	A
Hong Kong	HKG	F1	F	Taiwan	-	F1	D
India	IND	F2	5	Thailand	THA	F3	2
Indonesia	INS	F2	C	Tonga	TON	F3	3
Iran	IRN	F1	8	United Arab Emirates	UAE	F2	D
Iraq	IRQ	E1	B	Vietnam	VTN	F2	7
Japan	J	F2	9	Vanuatu	VUT	F2	F
Kiribati	KIR	F1	1	Yemen	YEM	F3	B

## 5.5 Void

Table 8: Void

## 5.6 Languages code tables

See clause 8.1.2 of ETSI EN 300 401 [1].

Table 9 contains the European languages written with "Latin-based" alphabets and their hexadecimal code.

Table 10 contains other languages and their hexadecimal code.