

# ETSI TS 101 756 V1.6.1 (2014-05)



Technical Specification

## Digital Audio Broadcasting (DAB); Registered Tables

European Broadcasting Union



Union Européenne de Radio-Télévision

EBU-UER  
**DAB**  
*Digital Audio Broadcasting*

---

Reference

RTS/JTC-DAB-71

---

Keywords

audio, broadcast, broadcasting, DAB, digital,  
radio, registration

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

---

**Important notice**

The present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

[http://portal.etsi.org/chaicor/ETSI\\_support.asp](http://portal.etsi.org/chaicor/ETSI_support.asp)

---

**Copyright Notification**

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2014.

© European Broadcasting Union 2014.

All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

**3GPP™** and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

**GSM®** and the GSM logo are Trade Marks registered and owned by the GSM Association.

---

# Contents

Intellectual Property Rights .....	4
Foreword.....	4
1 Scope .....	5
2 References .....	5
2.1 Normative references .....	5
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 .....	8
5 Registered tables in EN 300 401 [1] .....	8
5.1 General .....	8
5.2 Character sets (Charset).....	9
5.3 Data Service Component Type (DSCTy).....	9
5.4 Country Id .....	10
5.5 X-PAD application types.....	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 (UAtype) .....	19
6 Registered tables in 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>
History .....	47

---

## Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://ipr.etsi.org>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

---

## 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.

European Broadcasting Union  
CH-1218 GRAND SACONNEX (Geneva)  
Switzerland  
Tel: +41 22 717 21 11  
Fax: +41 22 717 24 81

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, 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 World DMB, an organization with members drawn from broadcasting organizations and telecommunication providers together with companies from the professional and consumer electronics industry.

---

# 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 [4]. The tables in the present document are maintained by the WorldDAB Information and Registration Centre (WorldDAB IRC). The WorldDAB IRC apply an easy procedure for registering new values, to ensure that they may be used without the need to change the so-called "main DAB standard" EN 300 401 [1].

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

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 reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://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.

## 2.1 Normative references

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

- [1] ETSI EN 300 401 (V1.4.1): "Radio broadcasting systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers".
- [2] IEC EN 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".
- [3] ETSI ETS 300 250: "Television systems; Specification of the D2-MAC/Packet system".
- [4] ETSI EN 301 234: "Digital Audio Broadcasting (DAB); Multimedia Object Transfer (MOT) protocol".
- [5] IETF RFC 1521: "MIME (Multipurpose Internet Mail Extensions) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies".
- [6] IETF RFC 1945: "Hypertext Transfer Protocol - HTTP/1.0".
- [7] ISO/IEC 646: "Information technology - ISO 7-bit coded character set for information interchange".
- [8] ISO/IEC 8859-1: "Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1".
- [9] IETF RFC 1866: "Hypertext Markup Language - 2.0".
- [10] ISO/IEC 10918 (all parts): "Information technology - Digital compression and coding of continuous-tone still images".
- [11] 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".
- [12] ISO/IEC 13818-3: "Information technology - Generic coding of moving pictures and associated audio information - Part 3: Audio".

- [13] Recommendation ITU-T G.711: "Pulse Code Modulation (PCM) of voice frequencies".
- [14] ISO/IEC 14496-3: "Information technology - Coding of audio-visual objects - Part 3: Audio".
- [15] ISO/IEC 11172-2: "Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s Part 2: Video".
- [16] ISO/IEC 13818-2: "Information technology - Generic coding of moving pictures and associated audio information - Part 2: Video".

NOTE: It is also standardized by ITU-T as Recommendation H.262.

- [17] ISO/IEC 14496-2: "Information technology - Coding of audio-visual objects - Part 2: Visual".
- [18] Recommendation ITU-T H.263: "Video coding for low bit rate communication".
- [19] ISO/IEC 13522 (all parts): "Information technology - Coding of multimedia and hypermedia information".
- [20] ISO/IEC 15948: "Information technology - Computer graphics and image processing - Portable Network Graphics (PNG): Functional specification".
- [21] ETSI TS 101 498 (all parts): "Digital Audio Broadcasting (DAB); Broadcast website".
- [22] ETSI TS 101 499: "Digital Audio Broadcasting (DAB); MOT Slide Show User Application Specification".
- [23] ETSI TS 102 368: "Digital Audio Broadcasting (DAB); DAB-TMC (Traffic Message Channel)".
- [24] ETSI TS 102 818: "Digital Audio Broadcasting (DAB); Digital Radio Mondiale (DRM); XML Specification for Electronic Programme Guide (EPG)".
- [25] ETSI TS 101 993: "Digital Audio Broadcasting (DAB); A Virtual Machine for DAB: DAB Java Specification".
- [26] ISO/IEC 10646: "Information technology - Universal Coded Character Set (UCS)".
- [27] IETF RFC 1950: "ZLIB Compressed Data Format Specification version 3.3".
- [28] IETF RFC 1952: "GZIP file format specification version 4.3".
- [29] ETSI TS 102 427: "Digital Audio Broadcasting (DAB); Data Broadcasting - MPEG-2 TS streaming".
- [30] ETSI TS 102 428: "Digital Audio Broadcasting (DAB); DMB video service; User Application Specification".
- [31] ETSI TS 102 978: "Digital Audio Broadcasting (DAB); IPDC Services; Transport specification".
- [32] ETSI TS 102 632: "Digital Audio Broadcasting (DAB); Voice applications".
- [33] ETSI TS 102 635 (all parts): "Digital Audio Broadcasting (DAB); Middleware".
- [34] ETSI TS 102 979: "Digital Audio Broadcasting (DAB); Journaline; User application specification".
- [35] GIF: "Graphics Interchange Format (GIF) Version 89a (1990)", CompuServe Incorporated.
- [36] JAVA: "The JAVA™ Language Environment", Sun Microsystems Inc.
- [37] ATRAC: "Adaptive Transform Acoustic Coding for MiniDisc", Sony Corporation.
- [38] BMP: "Microsoft Windows Bitmap (BMP)" Microsoft Corporation.
- [39] AIFF: "Audio Interchange File Format (AIFF)", Apple Computer, Incorporated.
- [40] ETSI TS 103 177: "Digital Audio Broadcasting (DAB); Filecasting; User application specification".

[41] ISO 32000-1:2008: "Document management -- Portable document format -- Part 1: PDF 1.7".

## 2.2 Informative references

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:

ASCII	American Standard Code for Information Interchange
DAB	Digital Audio Broadcasting
DGPS	Differential Global Positioning System
DMB	Digital Multimedia Broadcasting
DSCTy	Data Service Component Type
EBU	European Broadcasting Union
ECC	Extended Country Codes
EPG	Electronic Programme Guide
ETS	European Telecommunication Standard
EWS	Emergency Warning System
FIG	Fast Information Group
HTML	Hyper Text Mark-up Language
IP	Internet Protocol
IPDC	Internet Protocol DataCasting
ITTS	Interactive Text Transmission System
ITU	International Telecommunications Union
JFIF	JPEG File Interchange Format
MHEG	Multimedia and Hypermedia Experts Group
MOT	Multimedia Object Transfer
MPEG	Moving Pictures Expert Group
PAD	Programme Associated Data
PNG	Portable Network Graphics
PTy	Programme Type
RBDS	Radio Broadcasting Data System
RDS	Radio Data System
<i>rfu</i>	reserved for future use
<i>tba</i>	to be announced
TDC	Transparent Data Channel
TMC	Traffic Message Channel
TPEG	Transport Protocol Experts Group
UAType	User Application type
UCS	Universal Character Set
UTF	Unicode Transformation Format
WorldDAB IRC	WorldDAB Information and Registration Centre
X-PAD	eXtended - Programme Associated Data

---

## 4 Registration procedure

### 4.1 Registration authority

The content of the present document is maintained by WorldDAB Information and Registration Centre (WorldDAB IRC). 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 Information and Registration Centre,  
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 Information and Registration Centre. 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 Information and Registration Centre will confirm that no numbering conflicts occur at this stage and circulate the proposal to 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 WorldDAB Technical Committee at its next plenary meeting following the comment period. WorldDAB Information and Registration Centre will prepare a briefing for that 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.

### 4.3 Registration of a new table

Applications for a **new** table to be defined shall be sent to the WorldDAB Information and Registration Centre. 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 Information and Registration Centre 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 EN 300 401

### 5.1 General

Each of the following tables is listed by order of appearance in EN 300 401 [1].



## 5.2 Character sets (Charset)

See clause 5.2.2.2 of 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 [26] using UCS-2 transformation format, big endian byte order
1	1	1	1	ISO/IEC 10646 [26] using UTF-8 transformation format

Receivers shall support the complete EBU Latin based repertoire (code 0000) and should also support the appropriate characters for the intended target markets from ISO/IEC 10646 [26] using both UCS-2 and UTF-8 transformations (codes 0110 and 1111).

## 5.3 Data Service Component Type (DSCTy)

See clause 6.3.1 of EN 300 401 [1].

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

**Table 2: 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	Unspecified data
0	0	0	0	0	1	1	Traffic Message Channel (TMC)
0	0	0	0	1	0	2	Emergency Warning System (EWS)
0	0	0	0	1	1	3	Interactive Text Transmission System (ITTS)
0	0	0	1	0	0	4	Paging
0	0	0	1	0	1	5	Transparent Data Channel (TDC)
							<i>Rfu</i>
0	1	1	0	0	0	24	MPEG-2 Transport Stream, see [29]
							<i>Rfu</i>
1	1	1	0	1	1	59	Embedded IP packets
1	1	1	1	0	0	60	Multimedia Object Transfer (MOT)
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 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) - see annexes D and N of EN 62106 [2], 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
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
Afghanistan	AFG	F0	A
Saudi Arabia	ARS	F0	9
Australia:	AUS		
Capital Cities (commercial and community broadcasters)	acc	F0	1
Regional New South Wales and ACT	arn	F0	2
Capital Cities (national broadcasters)	acn	F0	3
Regional Queensland	arq	F0	4
Regional South Australia and Northern Territory	arc	F0	5
Regional Western Australia	arw	F0	6
Regional Victoria and Tasmania	arv	F0	7
Regional (future)	arf	F0	8
Bangladesh	BGD	F1	3
Bahrain	BHR	F0	E
Myanmar (Burma)	BRM	F0	B
Brunei Darussalam	BRU	F1	B
Bhutan	BTN	F1	2
Cambodia	CBG	F2	3
China	CHN	F0	C
Sri Lanka	CLN	F1	C
Fiji	FJI	F1	5
Hong Kong	HKG	F1	F
India	IND	F2	5
Indonesia	INS	F2	C
Iran	IRN	F1	8
Iraq	IRQ	E1	B
Japan	J	F2	9
Kiribati	KIR	F1	1

Country	ITU code	ECC	Country Id
Korea (South)	KOR	F1	E
Korea (North)	KRE	F0	D
Kuwait	KWT	F2	1
Laos	LAO	F3	1
Macau	MAC	F2	6
Malaysia	MLA	F0	F
Maldives	MLD	F2	B
Micronesia	FSM	F3	E
Mongolia	MNG	F3	F
Nepal	NPL	F2	E
Nauru	NRU	F1	7
New Zealand	NZL	F1	9
Oman	OMA	F1	6
Pakistan	PAK	F1	4
Philippines	PHL	F2	8
Papua New Guinea	PNG	F3	9
Qatar	QAT	F2	2
Solomon Islands	SLM	F1	A
Western Samoa	SMO	F2	4
Singapore	SNG	F2	A
Taiwan	-	F1	D
Thailand	THA	F3	2
Tonga	TON	F3	3
United Arab Emirates	UAE	F2	D
Vietnam	VTN	F2	7
Vanuatu	VUT	F2	F
Yemen	YEM	F3	B

## 5.5 X-PAD application types

See clause 7.4.3 of EN 300 401 [1].

X-PAD application types are fixed or user defined from V1.4.1 of EN 300 401 [1].

Table 8: Void

## 5.6 Languages code tables

See clause 8.1 of EN 300 401 [1].

Tables 9 and 10 show the codes to be used when describing a number of different language parameters in a DAB service (e.g. service component language, language field in PTy, PTy downloading and PTy preview, etc.) - see also ETS 300 250 [3]. The Language codes are shown in their binary-coded hexadecimal form.

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

Table 10 contains other languages and their hexadecimal code.

Table 9: European languages

Language	Code (hex)
Unknown/not applicable	00
Albanian	01
Breton	02
Catalan	03
Croatian	04
Welsh	05
Czech	06
Danish	07
German	08
English	09
Spanish	0A
Esperanto	0B
Estonian	0C
Basque	0D
Faroese	0E
French	0F
Frisian	10
Irish	11
Gaelic	12
Galician	13
Icelandic	14
Italian	15
Lappish	16
Latin	17
Latvian	18

Language	Code (hex)
Luxembourgian	19
Lithuanian	1A
Hungarian	1B
Maltese	1C
Dutch	1D
Norwegian	1E
Occitan	1F
Polish	20
Portuguese	21
Romanian	22
Romansh	23
Serbian	24
Slovak	25
Slovene	26
Finnish	27
Swedish	28
Turkish	29
Flemish	2A
Walloon	2B
<i>rfu</i>	2C
<i>rfu</i>	2D
<i>rfu</i>	2E
<i>rfu</i>	2F
Reserved for national assignment	30 to 3F

Table 10: Other languages

Language	Code (hex)	Language	Code (hex)
Amharic	7F	Marathi	5F
Arabic	7E	Ndebele	5E
Armenian	7D	Nepali	5D
Assamese	7C	Oriya	5C
Azerbaijani	7B	Papiamentu	5B
Bambora	7A	Persian	5A
Belorussian	79	Punjabi	59
Bengali	78	Pushtu	58
Bulgarian	77	Quechua	57
Burmese	76	Russian	56
Chinese	75	Rusyn	55
Chuvash	74	Serbo-Croat	54
Dari	73	Shona	53
Fulani	72	Sinhalese	52
Georgian	71	Somali	51
Greek	70	Sranan Tongo	50
Gujurati	6F	Swahili	4F
Gurani	6E	Tadzhik	4E
Hausa	6D	Tamil	4D
Hebrew	6C	Tatar	4C
Hindi	6B	Telugu	4B
Indonesian	6A	Thai	4A
Japanese	69	Ukranian	49
Kannada	68	Urdu	48
Kazakh	67	Uzbek	47
Khmer	66	Vietnamese	46
Korean	65	Zulu	45
Laotian	64	<i>rfu</i>	44
Macedonian	63	<i>rfu</i>	43
Malagasay	62	<i>rfu</i>	42
Malaysian	61	<i>rfu</i>	41
Moldavian	60	Background sound/clean feed	40

## 5.7 International Table Identifiers

See clause 8.1.3.2 of EN 300 401 [1].

Table 11 contains *presently* registered International Table Identifiers and their bit values. All the remaining values (not shown) are reserved for future use.

Table 11: International Table Identifiers

b <sub>7</sub>	b <sub>6</sub>	b <sub>5</sub>	b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>	b <sub>0</sub>	International Table Identifiers
0	0	0	0	0	0	0	1	Comprises the use of an RDS PTY from table 12 and an Announcement type from table 14.
0	0	0	0	0	0	1	0	Comprises the use of an RBDS PTY from table 13 and an Announcement type from table 14.

## 5.8 Programme type

See clause 8.1.5 of EN 300 401 [1]. These tables contain Programme types, their numbers and bit values and abbreviations for display.

Table 12 is largely co-ordinated with the Programme Type codes used in RDS (except code 30 and 31) and specified in annex F of EN 62106 [2]. The 16-character and 8-character abbreviations are recommended for display on DAB products in the English language. Other language abbreviations are shown in annex A.

**Table 12: Programme type codes and abbreviations in the English language, applying to all countries, except for North America**

Decimal Number	Code					Programme type	16-character abbreviation	8-character abbreviation
	b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>	b <sub>0</sub>			
0	0	0	0	0	0	No programme type	None	None
1	0	0	0	0	1	News	News	News
2	0	0	0	1	0	Current Affairs	Current_Affairs	Affairs
3	0	0	0	1	1	Information	Information	Info
4	0	0	1	0	0	Sport	Sport	Sport
5	0	0	1	0	1	Education	Education	Educate
6	0	0	1	1	0	Drama	Drama	Drama
7	0	0	1	1	1	Culture	Arts	Arts
8	0	1	0	0	0	Science	Science	Science
9	0	1	0	0	1	Varied	Talk	Talk
10	0	1	0	1	0	Pop Music	Pop_Music	Pop
11	0	1	0	1	1	Rock Music	Rock_Music	Rock
12	0	1	1	0	0	Easy Listening Music	Easy_Listening	Easy
13	0	1	1	0	1	Light Classical	Light_Classical	Classics
14	0	1	1	1	0	Serious Classical	Classical_Music	Classics
15	0	1	1	1	1	Other Music	Other_Music	Other_M
16	1	0	0	0	0	Weather/meteorology	Weather	Weather
17	1	0	0	0	1	Finance/Business	Finance	Finance
18	1	0	0	1	0	Children's programmes	Children's	Children
19	1	0	0	1	1	Social Affairs	Factual	Factual
20	1	0	1	0	0	Religion	Religion	Religion
21	1	0	1	0	1	Phone In	Phone_In	Phone_In
22	1	0	1	1	0	Travel	Travel	Travel
23	1	0	1	1	0	Leisure	Leisure	Leisure
24	1	1	0	0	0	Jazz Music	Jazz_and_Blues	Jazz
25	1	1	0	0	1	Country Music	Country_Music	Country
26	1	1	0	1	0	National Music	National_Music	Nation_M
27	1	1	0	1	1	Oldies Music	Oldies_Music	Oldies
28	1	1	1	0	0	Folk Music	Folk_Music	Folk
29	1	1	1	0	1	Documentary	Documentary	Document
30	1	1	1	1	0	<i>Not used</i>		
31	1	1	1	1	1	<i>Not used</i>		

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table 13 is co-ordinated with the Program Type codes used in North America (except code 30 and 31) and specified in clause F.2 of EN 62106 [2]. The 16-character and 8-character abbreviations are recommended for display on DAB products for use in North America.



**Table 13: Programme type codes and abbreviations in the English language, applying to North America**

Decimal Number	Code					Program type	16-character abbreviation	8-character abbreviation
	b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>	b <sub>0</sub>			
0	0	0	0	0	0	No program type	None	None
1	0	0	0	0	1	News	News	News
2	0	0	0	1	0	Information	Information	Inform
3	0	0	0	1	1	Sports	Sports	Sports
4	0	0	1	0	0	Talk	Talk	Talk
5	0	0	1	0	1	Rock	Rock	Rock
6	0	0	1	1	0	Classic Rock	Classic_Rock	Clis_Rock
7	0	0	1	1	1	Adult Hits	Adult_Hits	Adlt_Hit
8	0	1	0	0	0	Soft Rock	Soft_Rock	Soft_Rck
9	0	1	0	0	1	Top 40	Top_40	Top_40
10	0	1	0	1	0	Country	Country	Country
11	0	1	0	1	1	Oldies	Oldies	Oldies
12	0	1	1	0	0	Soft	Soft	Soft
13	0	1	1	0	1	Nostalgia	Nostalgia	Nostalga
14	0	1	1	1	0	Jazz	Jazz	Jazz
15	0	1	1	1	1	Classical	Classical	Classicl
16	1	0	0	0	0	Rhythm and Blues	Rhythm_and_Blues	R & B
17	1	0	0	0	1	Soft Rhythm and Blues	Soft_R_&_B	Soft_R&B
18	1	0	0	1	0	Foreign Language	Foreign_Language	Language
19	1	0	0	1	1	Religious Music	Religious_Music	Rel_Musc
20	1	0	1	0	0	Religious Talk	Religious_Talk	Rel_Talk
21	1	0	1	0	1	Personality	Personality	Persnlty
22	1	0	1	1	0	Public	Public	Public
23	1	0	1	1	0	College	College	College
24	1	1	0	0	0	: rfu		
25	1	1	0	0	1	: rfu		
26	1	1	0	1	0	: rfu		
27	1	1	0	1	1	: rfu		
28	1	1	1	0	0	: rfu		
29	1	1	1	0	1	Weather	Weather	Weather
30	1	1	1	1	0	Not used		
31	1	1	1	1	1	Not used		

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0010/ (see clause 5.7) which references the PTy codes for North American DAB use.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

## 5.9 Announcements

See clause 8.1.6 of EN 300 401 [1]. Table 14 contains all *presently* registered announcement types, their descriptions and bit flags. This table forms part 2 of the International Table Identifiers /0000 0001/ and /0000 0010/ (see table 11). All the remaining values (not detailed) are reserved for future use.

**Table 14: Announcement types and their descriptions**

Bit flag	Announcement type	Description
b <sub>0</sub>	Alarm	Information about a serious or even life-threatening situation such as: nuclear fallout or war.
b <sub>1</sub>	Road Traffic flash	Information about problems on the road.
b <sub>2</sub>	Transport flash	Information concerning Public Transport, such as: schedules of buses, ferries, planes or trains.
b <sub>3</sub>	Warning/Service	Information about incidents of less importance than Alarm Announcements, such as: disruption of power or water supplies.
b <sub>4</sub>	News flash	News bulletin.
b <sub>5</sub>	Area weather flash	Weather bulletin.
b <sub>6</sub>	Event announcement	Information about commercial, cultural or public events.
b <sub>7</sub>	Special event	Information on unscheduled or previously unforeseen events.
b <sub>8</sub>	Programme Information	Information about current or future radio broadcasts or programmes.
b <sub>9</sub>	Sport report	Bulletin of news about sport.
b <sub>10</sub>	Financial report	Bulletin of news about finance or business.
b <sub>11</sub>	<i>Reserved for future definition</i>	tba
b <sub>12</sub>	<i>Reserved for future definition</i>	tba
b <sub>13</sub>	<i>Reserved for future definition</i>	tba
b <sub>14</sub>	<i>Reserved for future definition</i>	tba
b <sub>15</sub>	<i>Reserved for future definition</i>	tba

Table 15 shows the 16-character and 8-character abbreviations recommended for display on DAB products for the English language. Other languages abbreviations are detailed in annex B. All the remaining values (not detailed) are reserved for future use.

**Table 15: Announcement types and abbreviations in the English language**

Bit flag	Announcement type	16-character abbreviation	8-character abbreviation
b <sub>0</sub>	Alarm	Alarm	Alarm
b <sub>1</sub>	Road Traffic flash	Traffic_News	Traffic
b <sub>2</sub>	Transport flash	Transport_News	Travel
b <sub>3</sub>	Warning/Service	Warning	Warning
b <sub>4</sub>	News flash	News	News
b <sub>5</sub>	Area weather flash	Weather	Weather
b <sub>6</sub>	Event announcement	Event	Event
b <sub>7</sub>	Special event	Special_event	Special
b <sub>8</sub>	Programme Information	Radio_info	Rad_info
b <sub>9</sub>	Sport report	Sports_news	Sports
b <sub>10</sub>	Financial report	Financial_news	Finance
b <sub>11</sub>	<i>Reserved for future definition</i>	tba	tba
b <sub>12</sub>	<i>Reserved for future definition</i>	tba	tba
b <sub>13</sub>	<i>Reserved for future definition</i>	tba	tba
b <sub>14</sub>	<i>Reserved for future definition</i>	tba	tba
b <sub>15</sub>	<i>Reserved for future definition</i>	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

## 5.10 User Application type (UAtype)

See clause 8.1.20 of EN 300 401 [1].

Table 16 contains all *presently* registered User Application Types and the references to the appropriate specifications.

**Table 16: User Application types**

User Application type (hexadecimal)	User Application	Reference
0x000	Reserved for future definition	
0x001	Not used	
0x002	MOT Slideshow	TS 101 499 [22]
0x003	MOT Broadcast Web Site	TS 101 498 [21]
0x004	TPEG	
0x005	DGPS	
0x006	TMC	TS 102 368 [23]
0x007	EPG	TS 102 818 [24]
0x008	DAB Java	TS 101 993 [25]
0x009	DMB	TS 102 428 [30]
0x00a	IPDC services	TS 102 978 [31]
0x00b	Voice applications	TS 102 632 [32]
0x00c	Middleware	TS 102 635 [33]
0x00d	Filecasting	TS 103 177 [40]
0x00e to 0x449	Reserved for future definition	
0x44a	Journaline®	TS 102 979 [34]
0x44b to 0x7ff	Reserved for future definition	
NOTE: User Application Types marked "Reserved for future definition" are assigned by WorldDAB IRC for user applications whose definition is published by a recognized standards body (e.g. ETSI) or for user applications whose definition is not freely available. WorldDAB IRC retains details of all registrations.		

---

## 6 Registered tables in EN 301 234 (MOT)

### 6.1 Content type and content subtypes

See clause 6.1 of EN 301 234 [4].

Table 17 contains values for the MOT header parameters content type and content subtype.

Table 17: Content type and content subtypes

Content type b <sub>14</sub> b <sub>9</sub>	Interpretation	Content subtype b <sub>8</sub> b <sub>0</sub>	Interpretation
000000	general data	00000000	Object Transfer
		00000001	MIME/HTTP [5], [6]
000001	text	00000000	Text (US ASCII) [7]
		00000001	Text (ISO Latin 1) [8]
		00000010	HTML (default: ISO Latin 1) [9], [8]
		00000011	PDF [41]
000010	image	00000000	GIF [35]
		00000001	JFIF [10]
		00000010	BMP [38]
		00000011	PNG [20]
000011	audio	00000000	MPEG I audio Layer I [11]
		00000001	MPEG I audio Layer II [11]
		00000010	MPEG I audio Layer III [12]
		00000011	MPEG II audio Layer I [12]
		00000100	MPEG II audio Layer II [12]
		00000101	MPEG II audio Layer III [12]
		00000110	uncompressed PCM audio [13]
		00000111	AIFF [39]
		00001000	ATRAC [37]
		00001001	
		00001010	MPEG 4 audio [14]
000100	video	00000000	MPEG I video [15]
		00000001	MPEG II video [16]
		00000010	MPEG 4 video [17]
		00000011	H263 [18]
000101	MOT transport	00000000	Header update
		00000001	Header only
000110	system	00000000	MHEG [19]
		00000001	Java [36]
000111	Application	00000000 to 11111111	User application specific
111111	proprietary table	00000000 to 11111111	proprietary

## 6.2 Compressed data formats

See clause 6.2.2.1.3 of EN 301 234 [4].

Table 18 contains the registered values for the compressed data formats.

Table 18

CompressionId	Description	Specification reference
0x00	Reserved	
0x01	Gzip compressed data format (deflate)	RFC 1950 [27], RFC 1952 [28]
NOTE 1: The gzip file format potentially allows compression algorithms other than the "Deflate" algorithm to be used, although Deflate is currently the only algorithm specified for use with this format.		
NOTE 2: A software library to decode gzip files coded with the Deflate algorithm is freely available and may be obtained from: <a href="http://www.gzip.org">http://www.gzip.org</a> .		

## 6.3 Character set indicator

See clause 6.2.2.1.1 of EN 301 234 [4].

Table 19 contains values for coding the character set indicator for the MOT ContentName.

**Table 19**

<b>b<sub>7</sub></b>	<b>b<sub>6</sub></b>	<b>b<sub>5</sub></b>	<b>b<sub>4</sub></b>	<b>Description</b>
0	0	0	0	Complete EBU Latin based repertoire - see annex C
0	1	0	0	ISO Latin Alphabet No1 (see ISO/IEC 8859-1 [8])
1	1	1	1	ISO/IEC 10646 [26] using UTF-8 transformation format

## Annex A (informative): Programme type codes, translations

Tables are not shown in alphabetical order, because new tables may be added at the end of this annex in the future.

**Table A.1: Dutch Programme types and 16-character and 8-character abbreviations**

Decimal Number	Programme type (see table 12)	Dutch PTy	Dutch 16-character abbreviation	Dutch 8-character abbreviation
0	No programme type	niet gedefinieerd	niet_bepaald	geen
1	News	Nieuws	Nieuws	Nieuws
2	Current Affairs	Actualiteit	Actualiteit	Actueel
3	Information	Informatie	Informatie	Info
4	Sport	Sport	Sport	Sport
5	Education	Educatie	Educatie	Educat.
6	Drama	Drama	Drama	Drama
7	Culture	Cultuur	Cultuur	Cultuur
8	Science	Wetenschap	Wetenschap	Wetensch
9	Varied	Varia en gesprekken	Varia	Varia
10	Pop Music	Pop	Popmuziek	Pop
11	Rock Music	Rock	Rockmuziek	Rock
12	Easy Listening Music	Melodie: ontspanningsmuziek	Melodie	Melodie
13	Light Classical	Licht klassiek	Licht_klassiek	Licht_Kl
14	Serious Classical	Klassiek	Klassieke_muziek	Klassiek
15	Other Music	Overige muziek	Muziek	Muziek
16	Weather/meteorology	Weerbericht	Het weer	Het weer
17	Finance/Business	Economie	Economie	Economie
18	Children's programmes	Voor kinderen	Voor_kinderen	Kinderen
19	Social Affairs	Maatschappelijk	Maatschappelijk	Maatsch.
20	Religion	Religie	Religie	Religie
21	Phone In	Doe mee !	Doe_mee_!	Doe_mee
22	Travel	Reizen	Reizen	Reizen
23	Leisure	Vrije tijd	Vrije_tijd	Vrije_T.
24	Jazz Music	Jazz	Jazz	Jazz
25	Country Music	Country	Countrymuziek	Country
26	National Music	Nationale muziek	Nationale_muziek	Eigen_M
27	Oldies Music	Gouwe Ouwe	Gouwe_ouwe	Goud
28	Folk Music	Volksmuziek	Volksmuziek	Folk
29	Documentary	Documentaires	Documentaires	Document
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.2: French Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	French PTy	French 16-character abbreviation	French 8-character abbreviation
0	No programme type	Codification de programme non utilisée ou genre non défini	Non _ défini	Aucun
1	News	Informations	Informations	Infos
2	Current Affairs	Magazine	Magazine	Magazine
3	Information	Info-Service	Info-Service	Services
4	Sport	Sport	Sport	Sport
5	Education	Education	Educatif	Educatif
6	Drama	Dramatique	Fiction	Fiction
7	Culture	Culture	Culture	Culture
8	Science	Sciences	Sciences	Sciences
9	Varied	Divertissement	Divertissement	Divers
10	Pop Music	Pop	Musique_Pop	M_Pop
11	Rock Music	Rock	Musique_Rock	M_Rock
12	Easy Listening Music	Chansons	Chansons	Chansons
13	Light Classical	Classique Léger	Classique_Léger	M_Ci_Lég
14	Serious Classical	Musique Classique	MusiqueClassique	Classiq
15	Other Music	Autre Musique	Autre_Musique	Autre_M
16	Weather/meteorology	Météo	Météo	Météo
17	Finance/Business	Economie et Finances	Economie	Economie
18	Children's programmes	Programmes pour enfants	Enfants	Enfants
19	Social Affairs	Société	Société	Société
20	Religion	Religion	Religion	Religion
21	Phone In	Ligne ouverte et interactivité	Ligne_ouverte	Forum
22	Travel	Voyages	Voyages	Voyages
23	Leisure	Loisirs	Loisirs	Loisirs
24	Jazz Music	Musique de jazz	Jazz	Jazz
25	Country Music	Musique de country	Country	Country
26	National Music	Chansons du pays	Chanson_du_pays	Ch_pays
27	Oldies Music	Musique rétro	Musique_rétro	Rétro
28	Folk Music	Musique folklorique	Folklore	Folklore
29	Documentary	Documentaire	Documentaire	Document
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.3: German Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	German PTy	German 16-character abbreviation	German 8-character abbreviation
0	No programme type	Keine Programmartkennung	Kein_PTY	Kein_PTY
1	News	Nachrichtendienst	Nachrichten	Nachricht
2	Current Affairs	Politik und Zeitgeschehen	Aktuelle_Info	Aktuell
3	Information	Service Programm	Service_Programm	Service
4	Sport	Sport	Sport	Sport
5	Education	Lernen und Weiterbildung	Bildung	Bildung
6	Drama	Hörspiel und Literatur	Hörspiel_+_Lit	Hör+Lit
7	Culture	Kultur, Kirche und Gesellschaft	Kultur+Gesellsch	Kultur
8	Science	Wissenschaft	Wissenschaft	Wissen
9	Varied	Unterhaltendes Wort	Unterhaltung	Unterh
10	Pop Music	Popmusik	Pop_Musik	Pop
11	Rock Music	Rockmusik	Rock_Musik	Rock
12	Easy Listening Music	Unterhaltungsmusik	Unterhalt_Musik	U-Musik
13	Light Classical	Leichte klassische Musik	Leichte_Klassik	L-Musik
14	Serious Classical	Ernste klassische Musik	Ernste_Klassik	E-Musik
15	Other Music	Spezielle Musikprogramme	Spezielle_Musik	Musik
16	Weather/meteorology	Wetter	Wetter	Wetter
17	Finance/Business	Wirtschaft	Wirtschaft	Wirtsch
18	Children's programmes	Kinderprogramm	Kinderprogramm	Kinder
19	Social Affairs	Soziales	Soziales	Soziales
20	Religion	Religion	Religion	Religion
21	Phone In	Anrufsendung	Anrufsendung	Anruf
22	Travel	Reiseinformation	Reiseinformation	Reise
23	Leisure	Freizeit	Freizeit	Freizeit
24	Jazz Music	Jazz	Jazz	Jazz
25	Country Music	Countrymusik	Country_Musik	Country
26	National Music	Musik des Landes	Landesmusik	Landes_M
27	Oldies Music	Oldiemusik	Oldies_Musik	Oldies
28	Folk Music	Folklore	Folklore	Folklore
29	Documentary	Feature	Feature	Feature
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.



Table A.4: Norwegian Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Norwegian PTy	Norwegian 16-character abbreviation	Norwegian 8-character abbreviation
0	No programme type	Ingen programtype eller udefinert	Ikke_PTY	Ikke_PTY
1	News	Nyheter	Nyheter	Nyheter
2	Current Affairs	Aktuell reportasje	Aktuelt	Aktuelt
3	Information	Informasjon	Informasjon	Info
4	Sport	Sport	Sport	Sport
5	Education	Undervisning	Undervisning	Undervsn
6	Drama	Radioteater	Radioteater	Teater
7	Culture	Kultur	Kultur	Kultur
8	Science	Vitenskap	Vitenskap	Vitenskp
9	Varied	Underholdning	Underholdning	Underh
10	Pop Music	Pop musikk	Pop_musikk	Pop_mus
11	Rock Music	Rock musikk	Rock_musikk	Rock_mus
12	Easy Listening Music	Lett musikk	Lett_musikk	Lett_mus
13	Light Classical	Underholdningsmusikk	Lett_klassisk	Undh_mus
14	Serious Classical	Klassisk musikk	Klassisk_musikk	Klas_mus
15	Other Music	Diverse musikk	Diverse_musikk	Div_mus
16	Weather/meteorology	Værmelding	Værmelding	Vær
17	Finance/Business	Økonomi	Økonomi	Økonomi
18	Children's programmes	Barneprogram	Barneprogram	Barn
19	Social Affairs	Sosialprogram	Sosialprogram	Sosial
20	Religion	Religion	Religion	Religion
21	Phone In	Innringing	Ring_inn	Ring_inn
22	Travel	Reiseprogram	Reiseliv	Reise
23	Leisure	Fritidsprogram	Fritid	Fritid
24	Jazz Music	Jazz	Jazz_musikk	Jazz
25	Country Music	Countrymusikk	Countrymusikk	Country
26	National Music	Nasjonal musikk	Nasjonal_musikk	Nasj_mus
27	Oldies Music	Gammelpop	Gammelpop	Gml_pop
28	Folk Music	Folkemusikk	Folkemusikk	Folk_mus
29	Documentary	Dokumentar	Dokumentar	Dok
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.5: Portuguese Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Portuguese PTy	Portuguese 16-character abbreviation	Portuguese 8-character abbreviation
0	No programme type	Não definido	Não_definido	Não_def
1	News	Notícias	Notícias	Notícias
2	Current Affairs	Actualidade	Actualidade	Actual
3	Information	Informação	Informação	Info
4	Sport	Desporto	Desporto	Desporto
5	Education	Educação	Educação	Educação
6	Drama	Teatro Radiofónico	Rádio-Teatro	Teatro
7	Culture	Cultura	Cultura	Cultura
8	Science	Ciência	Ciência	Ciência
9	Varied	Variado	Variado	Variado
10	Pop Music	Música Pop	Música_Pop	Pop
11	Rock Music	Música Rock	Música_Rock	Rock
12	Easy Listening Music	Música Ligeira	Música_Ligeira	MLigeira
13	Light Classical	Clássica Ligeira	Clássica_Ligeira	ClassLig
14	Serious Classical	Música Clássica	Música_Clássica	Classica
15	Other Music	Outras Músicas	Outras_Músicas	Outras_M
16	Weather/meteorology	Meteorologia	Meteorologia	Meteo
17	Finance/Business	Economia	Economia	Economia
18	Children's programmes	Programa Infantil	Progr._Infantil	Infantil
19	Social Affairs	Acontec Sociais	Acontec._Social	A.Social
20	Religion	Religião	Religião	Religião
21	Phone In	Telefonemas dos ouvintes	Phone_In	Phone_In
22	Travel	Viagens	Viagens	Viagens
23	Leisure	Lazer	Lazer	Lazer
24	Jazz Music	Música de Jazz	Música_de_Jazz	Jazz
25	Country Music	Música Country	Música_Country	Country
26	National Music	Música Nacional	Música_Nacional	Nacional
27	Oldies Music	Música Antiga	Música_Antiga	M.Antiga
28	Folk Music	Música Folk	Música_Folk	Folclore
29	Documentary	Documentário	Documentário	Document
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.6: Spanish Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Spanish PTy	Spanish 16-character abbreviation	Spanish 8-character abbreviation
0	No programme type	No se indica el tipo programa	Ninguno	Ninguno
1	News	Noticias	Noticias	Noticias
2	Current Affairs	Magazin	Magazine	Magazine
3	Information	Información	Información	Info
4	Sport	Deportes	Deportes	Deportes
5	Education	Educación	Educación	Educa
6	Drama	Drama	Drama	Drama
7	Culture	Cultura	Cultura	Cultura
8	Science	Ciencia	Ciencia	Ciencia
9	Varied	Varios	Varios	Varios
10	Pop Music	Música Pop	Música_Pop	M_Pop
11	Rock Music	Música Rock	Música_Rock	M_Rock
12	Easy Listening Music	Grand éxitos	Grandes_éxitos	G_éxitos
13	Light Classical	Música Ligera	Música_Ligera	M_Ligera
14	Serious Classical	Música Clásica	Música_Clásica	Clásica
15	Other Music	Otra Música	Música_Varia	M_Varia
16	Weather/meteorology	Información Metereológica	Meteorología	Meteo
17	Finance/Business	Economía	Economía	Economía
18	Children's programmes	Infancia	Infancia	Infancia
19	Social Affairs	Sociedad	Sociedad	Sociedad
20	Religion	Religión	Religión	Religión
21	Phone In	Opinión	Opinión-Oyentes	Opinión
22	Travel	Viajes	Viajes	Viajes
23	Leisure	Ocio	Ocio	Ocio
24	Jazz Music	Música Jazz	Música_Jazz	M_Jazz
25	Country Music	Música Country	Música_Country	Country
26	National Music	Música Nacional	Música_Nacional	Nacional
27	Oldies Music	Música de ayer	Música_de_Ayer	M_Ayer
28	Folk Music	Música Folk	Música_Folk	M_Folk
29	Documentary	Documental	Documental	Docu
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.7: Swedish Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Swedish PTy	Swedish 16-character abbreviation	Swedish 8-character abbreviation
0	No programme type	Programtypen saknas eller är odefinierad	Pty_saknas	Pty_sakn
1	News	Korta nyheter	Nyheter	Nyheter
2	Current Affairs	Fördjupning av nyheter	Aktualiteter	Aktuellt
3	Information	Allmän information	Information	Info
4	Sport	Sport	Sport	Sport
5	Education	Utbildningsprogram	Utbildning	Utbildn
6	Drama	Teater och program om teater	Teater	Teater
7	Culture	Kultur i bred mening	Kultur	Kultur
8	Science	Vetenskapsprogram	Vetenskap	Vetenskap
9	Varied	Underhållningsprogram	Underhållning	Underh
10	Pop Music	Populärmusik	Popmusik	Pop
11	Rock Music	Rockmusik	Rockmusik	Rock
12	Easy Listening Music	Underhållningsmusik	Lättlyssnat	Lättlyss
13	Light Classical	Lätt klassisk musik(ej kompletta verk)	Lätt_klassiskt	L_klass
14	Serious Classical	Kompletta klassiska verk	Klassisk_musik	Klassisk
15	Other Music	Övrig Musik	Övrig_musik	Övrig_m
16	Weather/meteorology	Väderrapporter	Väder	Väder
17	Finance/Business	Ekonomiprogram	Ekonomi	Ekonomi
18	Children's programmes	Barnprogram	För_barn	För_barn
19	Social Affairs	Program om sociala frågor	Sociala_frågor	Socialt
20	Religion	Andliga frågor	Andliga_frågor	Andligt
21	Phone In	Telefonväkteri	Telefonväkteri	Telefon
22	Travel	Resor och semester	Resor_&_semester	Resor
23	Leisure	Fritid och hobby	Fritid_&_hobby	Fritid
24	Jazz Music	Jazzmusik	Jazzmusik	Jazz
25	Country Music	Countrymusik	Countrymusik	Country
26	National Music	Nationell musik	Nationell_musik	Nation_m
27	Oldies Music	Klassisk pop	Gamla_godingar	Oldies
28	Folk Music	Folkmusik	Folkmusik	Folkm
29	Documentary	Dokumentärer	Dokumentärer	Dokument
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.8: Finnish Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Finnish PTy	Finnish 16-character abbreviation	Finnish 8-character abbreviation
0	No programme type	Ei ohjelmatyyppeä	Ei_määritely	Ei_määr.
1	News	Uutiset	Uutiset	Uutiset
2	Current Affairs	Ajankohtaista	Ajankohtaista	Ajankoht
3	Information	Tiedotuksia	Tiedotuksia	Tiedoksi
4	Sport	Urheilu	Urheilu	Urheilu
5	Education	Opetus	Opetus	Opetus
6	Drama	Kuunnelma	Kuunnelma	Kuunn.
7	Culture	Kulttuuri	Kulttuuri	Kultt.
8	Science	Tiede	Tiede	Tiede
9	Varied	Puheviihde	Puheviihde	P-viihde
10	Pop Music	Pop-musiikki	Pop	Pop
11	Rock Music	Rock-musiikki	Rock	Rock
12	Easy Listening Music	Kevyt musiikki	Kevyt_musiikki	Kevyttä
13	Light Classical	Kevyt klassinen musiikki	Kevyt_klassinen	K._klass
14	Serious Classical	Klassinen musiikki	Klassinen	Klass.
15	Other Music	Muu musiikki	Muu_musiikki	Muu_mus.
16	Weather/meteorology	Sää tiedotus	Sää tiedotus	Sää
17	Finance/Business	Talousohjelma	Talousohjelma	Talous
18	Children's programmes	Lastenohjelma	Lastenohjelma	Lapsille
19	Social Affairs	Yhteiskunta	Yhteiskunta	Yhtkunta
20	Religion	Uskonto	Uskonto	Uskonto
21	Phone In	Yleisökontakti	Yleisökontakti	Kontakti
22	Travel	Matkailu	Matkailu	Matkailu
23	Leisure	Vapaa-aika	Vapaa-aika	Vap.aika
24	Jazz Music	Jazz-musiikki	Jazz	Jazz
25	Country Music	Country-musiikki	Country	Country
26	National Music	Kotimainen musiikki	Kotim._musiikki	Kotim.
27	Oldies Music	Aikuisten musiikki	Oldies	Oldies
28	Folk Music	Kansanmusiikki	Kansanmusiikki	Kansanm.
29	Documentary	Dokumentti	Dokumentti	Dokum.
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.9: Danish Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Danish PTy	Danish 16-character abbreviation	Danish 8-character abbreviation
0	No programme type	Ej defineret	PTY_mangler	PTYmangl
1	News	Nyheder	Korte_nyheder	Nyheder
2	Current Affairs	Aktuelt	Nyh._og_baggrund	Aktuelt
3	Information	Almen information	Almen_Info	Info
4	Sport	Sport	Sport	Sport
5	Education	Undervisning	Uddannelse	Udd.
6	Drama	Drama	Drama	Drama
7	Culture	Kultur	Kultur	Kultur
8	Science	Videnskab	Videnskab	Vid.skab
9	Varied	Varieret underholdning	Underholdning	Bl.Undh
10	Pop Music	Pop musik	PopMusik	Pop
11	Rock Music	Rock musik	Rockmusik	Rock
12	Easy Listening Music	Underholdnings musik	Uhld.Musik	Undh.Mus
13	Light Classical	Let Klassisk musik	Let_klassisk	LetKlass
14	Serious Classical	Klassisk musik	Klassisk	Klassisk
15	Other Music	Blandet musik	Blandet_Musik	Bla_Mus
16	Weather/meteorology	Vejrudsigt	Vejr	Vejr
17	Finance/Business	Økonomi & Erhverv	Økonomi&erhverv	Økonomi
18	Children's programmes	Børne programmer	Børneprogram	For_børn
19	Social Affairs	Program om sociale emner	Social_prg.	Social
20	Religion	Kirke & Tro	Kirke_&_Tro	Religion
21	Phone In	Telefon program	Tlf._Prg.	Tlf.prg
22	Travel	Rejser & Ferie	Rejser_og_ferie	Rejser
23	Leisure	Hobby & Fritid	Hobby_og_fritid	Fritid
24	Jazz Music	Jazz musik	Jazzmusik	Jazz
25	Country Music	Country musik	Countrymusik	Country
26	National Music	Dansktop musik	Dansktop_musik	Dansktop
27	Oldies Music	Gamle kendinge	Gamle_kendinge	Oldies
28	Folk Music	Folke musik	Folkemusik	FolkMus
29	Documentary	Dokumentar program	Dokumentar	Doku.prg
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.10: Italian Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Italian PTy	Italian 16-character abbreviation	Italian 8-character abbreviation
0	No programme type	Non trasmesso / non definito	Nessun_PTY	No_PTY
1	News	Ultime Notizie	Notiziario	Notizie
2	Current Affairs	Attualità, Magazine	Magazine	Magazine
3	Information	Informazioni	Informazioni	Info
4	Sport	Notizie Sportive	Sport	Sport
5	Education	Programmi Educativi	Educazione	Edu
6	Drama	Commedia e Teatro	Prosa	Prosa
7	Culture	Programmi Culturali	Cultura	Cultura
8	Science	Programmi Scientifici	Scienza	Scienza
9	Varied	Vari Generi	Vari_Generi	Vari
10	Pop Music	Musica Pop	Musica_Pop	Pop
11	Rock Music	Musica Rock	Musica_Rock	Rock
12	Easy Listening Music	Musica Leggera	Musica_Leggera	Leggera
13	Light Classical	Musica Classica Leggera	Classica_Leggera	Clas_Leg
14	Serious Classical	Musica Classica	Musica_Classica	Classica
15	Other Music	Altri Generi di Musica	Musica_Varia	Musica
16	Weather/meteorology	Previsioni del Tempo	Meteo	Meteo
17	Finance/Business	Economia e Finanza	Economia	Economia
18	Children's programmes	Programmi per Ragazzi	Ragazzi	Ragazzi
19	Social Affairs	Programmi Sociali	Societa'	Societa'
20	Religion	Programmi Religiosi	Religione	Relig
21	Phone In	Forum, Opinioni	Opinioni	Opinioni
22	Travel	Viaggi	Viaggi_e_Turismo	Viaggi
23	Leisure	Svago	Svago	Svago
24	Jazz Music	Musica Jazz	Musica_Jazz	Jazz
25	Country Music	Musica Country	Musica_Country	Country
26	National Music	Musica Italiana	Musica_Italiana	Italiana
27	Oldies Music	Vecchi Successi	Revival	Revival
28	Folk Music	Musica Popolare	Musica_Folk	Folk
29	Documentary	Documentari	Documentari	Document
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.11: Lithuanian Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Lithuanian PTy	Lithuanian 16-character abbreviation	Lithuanian 8-character abbreviation
0	No programme type	Programos tipas neapibrėžtas	Nenurodyta	Nenurodė
1	News	Žinios	Žinios	Žinios
2	Current Affairs	Aktualijos	Aktualijos	Aktualu
3	Information	Informacija	Informacija	Info
4	Sport	Sportas	Sportas	Sportas
5	Education	Šviečiamosios	Šviečiamosios	Šviečiam
6	Drama	Radijo teatras	Radijo_teatras	Teatras
7	Culture	Kultūra	Kultūra	Kultūra
8	Science	Mokslas	Mokslas	Mokslas
9	Varied	Įvairūs	Įvairūs	Įvairūs
10	Pop Music	Pop muzika	Popmuzika	Popmuz
11	Rock Music	Roko muzika	Roko_muzika	Rokas
12	Easy Listening Music	Lengvoji muzika	Lengvoji_muzika	Lengvoji
13	Light Classical	Populiarioji klasikinė muzika	Popul_klasika	Popul_kl
14	Serious Classical	Klasikinė muzika	Klasikinė muzika	Klasika
15	Other Music	Kitų žanrų muzika	Kt_žanrų muzika	Kita_muz
16	Weather/meteorology	Oras	Oras	Oras
17	Finance/Business	Finansai	Finansai	Finansai
18	Children's programmes	Laidos vaikams	Laidos vaikams	Vaikams
19	Social Affairs	Visuomeninės laidos	Visuomeninės_	Visuomen
20	Religion	Religinės laidos	Religinės_laidos	Religija
21	Phone In	Skambučiai į studiją	Skamb_į_studija	Skambink
22	Travel	Kelionės	Kelionės	Kelionės
23	Leisure	Laisvalaikis	Laisvalaikis	Laisval
24	Jazz Music	Džiazas	Džiazas	Džiazas
25	Country Music	Kantri	Kantri	Kantri
26	National Music	Liaudies muzika	Liaudies_muzika	Liaudies
27	Oldies Music	Seni hitai	Seni_hitai	Hitai
28	Folk Music	Folkloras	Folkloras	Folklor
29	Documentary	Dokumentika	Dokumentika	Dokument
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.



Table A.12: Polish Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Polish PTy	Polish 16-character abbreviation	Polish 8-character abbreviation
0	No programme type	Brak typu programu lub niezdefiniowany	Niezdefiniowany	Brak
1	News	Wiadomości	Wiadomosci	Wiadom.
2	Current Affairs	Wydarzenia Bieżące	Wydarze. Biezace	Biezace
3	Information	Informacje	Informacje	Inform.
4	Sport	Sport	Sport	Sport
5	Education	Edukacja	Edukacja	Edukacja
6	Drama	Dramat	Dramat	Dramat
7	Culture	Kultura	Kultura	Kultura
8	Science	Nauka	Nauka	Nauka
9	Varied	Różne	Rozne	Rozne
10	Pop Music	Muzyka Pop	Muzyka_Pop	Pop
11	Rock Music	Muzyka Rock	Muzyka_Rock	Rock
12	Easy Listening Music	Muzyka Łatwa	Muzyka_Lekka	M.Lekka
13	Light Classical	Muzyka Klasyczna Lekka	Muz. Klas._Lekka	Lek.Klas
14	Serious Classical	Muzyka Klasyczna Poważna	Muz. Klas. Pow.	Pow.Klas
15	Other Music	Muzyka Inna	Muzyka_Inna	Muz.Inna
16	Weather/meteorology	Pogoda	Pogoda	Pogoda
17	Finance/Business	Finanse	Finanse	Finanse
18	Children's programmes	Programy Dziecięce	Prog._Dzieciece	Dzieci
19	Social Affairs	Wydarzenia Społeczne	Wyd._Spoeczne	Spoeczno
20	Religion	Religia	Religia	Religia
21	Phone In	Audycja Z Telefonicznym Udziałem Słuchaczy	Telefon.Udzial.	Telefon
22	Travel	Podróż	Podruze	Podruze
23	Leisure	Czas Wolny	Czas_Wolny	CzasWol.
24	Jazz Music	Muzyka Jazzowa	Muzyka_Jazz	Jazz
25	Country Music	Muzyka Country	Muzyka_Country	Country
26	National Music	Muzyka Narodowa	Muzyka_Narodowa	M.Narod.
27	Oldies Music	Muzyka Archiwalna	Muz._Archiwalna	M._Arch.
28	Folk Music	Muzyka Ludowa	Muzyka_Ludowa	M.Ludowa
29	Documentary	Dokument	Dokument	Dokument
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.13: Romanian Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Romanian PTy	Romanian 16-character abbreviation	Romanian 8-character abbreviation
0	No programme type	Tip de program nedefinit	Nedefinit	Niciunul
1	News	Radiojurnal	Radiojurnal	Știri
2	Current Affairs	Actualități, magazin	Actualități	Magazin
3	Information	Informații	Informații	Info
4	Sport	Sport	Sport	Sport
5	Education	Program educativ	Educativ	Educativ
6	Drama	Teatru	Teatru	Teatru
7	Culture	Program cultural	Cultural	Cultural
8	Science	Program științific	Științific	Știință
9	Varied	Varietăți	Varietăți	Variat
10	Pop Music	Muzică pop	Muzică_pop	Pop
11	Rock Music	Muzică rock	Muzică_rock	Rock
12	Easy Listening Music	Muzică Ușoară	Muzică_ușoară	Melodii
13	Light Classical	Muzică clasică accesibilă	Clasic_Lejer	Clasic_L
14	Serious Classical	Muzică clasică	Muzică_Clasică	Clasic
15	Other Music	Altă muzică	Altă_Muzică	Altă_Muz
16	Weather/meteorology	Prognoza Meteo	Meteo	Meteo
17	Finance/Business	Finanțe și economie	Econ_Finanțe	Economie
18	Children's programmes	Programe pentru copii	Copii	Copii
19	Social Affairs	Actualități sociale	Social	Social
20	Religion	Religie	Religie	Religie
21	Phone In	Dialog cu ascultătorii	Phone_In	Phone_In
22	Travel	Călătorii	Călătorii	Turism
23	Leisure	Timp liber	Timp_Liber	Relaxare
24	Jazz Music	Muzică de jazz	Muzică_de_Jazz	Jazz
25	Country Music	Muzică country	Muzică_Country	Country
26	National Music	Muzică Românească	Muz_Roman	Muz_Ro
27	Oldies Music	Muzica retro	Muzica_Retro	M_Retro
28	Folk Music	Muzică Populară	Muzică_Populară	Populară
29	Documentary	Documentar	Documentar	Document
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

Table A.14: Slovenian Programme types and 16-character and 8-character abbreviations

Decimal Number	Programme type (see table 12)	Slovenian PTy	Slovenian 16-character abbreviation	Slovenian 8-character abbreviation
0	No programme type	Neopredeljeno	Neopredeljeno	Neoprede
1	News	Novice	Novice	Novice
2	Current Affairs	Aktualna dogajanja	Aktualna_dogajan	Aktualno
3	Information	Obvestila	Obvestila	Obvestil
4	Sport	Šport	Šport	Šport
5	Education	Izobraževanje	Izobraževanje	Izobraže
6	Drama	Dramatizirana zvočna predstava	Dramatizi.Predst	Drama
7	Culture	Kultura	Kultura	Kultura
8	Science	Znanost	Znanost	Znanost
9	Varied	Razno	Razno	Razno
10	Pop Music	Pop glasba	Pop_glasba	Pop
11	Rock Music	Rock glasba	Rock_glasba	Rock
12	Easy Listening Music	Razvedrilna glasba	Razvedril_glasb	Razvedri
13	Light Classical	Lahka klasična glasba	Lahka_klasična	Klasična
14	Serious Classical	Resna klasična glasba	Resna_klasična	Resna
15	Other Music	Druška glasba	Druška_glasba	Glasba
16	Weather/meteorology	Vreme	Vreme	Vreme
17	Finance/Business	Finance	Finance	Finance
18	Children's programmes	Otroški program	Otroški_program	Otroški
19	Social Affairs	Družba	Družba	Družba
20	Religion	Religija	Religija	Religija
21	Phone In	Pogovorna oddaja	Pogovorna_oddaja	Pogovorn
22	Travel	Potovanja	Potovanja	Potovanj
23	Leisure	Prosti čas	Prosti_čas	Prosti_Č
24	Jazz Music	Jazz glasba	Jazz_glasba	Jazz
25	Country Music	Country glasba	Country_glasba	Country
26	National Music	Domača glasba	Domača_glasba	Domača
27	Oldies Music	Stari hiti	Stari_hiti	Star_hit
28	Folk Music	Narodna glasba	Narodna_glasba	Narodna
29	Documentary	Dokumentarna oddaja	Dokumentar._odd.	Dokument
30	<i>Not used</i>			
31	<i>Not used</i>			

NOTE 1: This table forms part 1 of the International Table Identifier /0000 0001/ (see clause 5.7) which references the PTy codes for DAB use, **except** in North America.

NOTE 2: The notation \_ is used to indicate the use of the "space" character.

## Annex B (informative): Announcement type codes, translations

Tables are not shown in alphabetical order, because new tables may be added at the end of this annex in the future.

**Table B.1: Danish Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Danish 16-character abbreviation	Danish 8-character abbreviation
b <sub>0</sub>	Alarm	Alarm	Alarm
b <sub>1</sub>	Road Traffic flash	Trafik	Trafik
b <sub>2</sub>	Transport flash	Kollektiv_Trafik	Trafik
b <sub>3</sub>	Warning/Service	Advarsel	Advarsel
b <sub>4</sub>	News flash	Nyheder	Nyheder
b <sub>5</sub>	Area weather flash	Vejret	Vejret
b <sub>6</sub>	Event announcement	Arrangementer	Arrangementer
b <sub>7</sub>	Special event	Begivenhed	Begivenhed
b <sub>8</sub>	Programme Information	Radio_info	Radio_info
b <sub>9</sub>	Sport report	Sport	Sport
b <sub>10</sub>	Financial report	Økonomi	Økonomi
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.2: Dutch Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Dutch 16-character abbreviation	Dutch 8-character abbreviation
b <sub>0</sub>	Alarm	Alarm	Alarm
b <sub>1</sub>	Road Traffic flash	Verkeersinfo	Verkeer
b <sub>2</sub>	Transport flash	Openbaar_vervoer	Openb.V.
b <sub>3</sub>	Warning/Service	Waarschuwing	Opgelet
b <sub>4</sub>	News flash	Nieuwsbericht	Nieuws
b <sub>5</sub>	Area weather flash	Weerbericht	Het_weer
b <sub>6</sub>	Event announcement	Melding	Melding
b <sub>7</sub>	Special event	Speciaal bericht	Speciaal
b <sub>8</sub>	Programme Information	Radio-informatie	Radio_Inf
b <sub>9</sub>	Sport report	Sportbericht	Sport
b <sub>10</sub>	Financial report	Financieel	Financ.
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.3: French Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	French 16-character abbreviation	French 8-character abbreviation
b <sub>0</sub>	Alarm	Alerte_générale	Alerte
b <sub>1</sub>	Road Traffic flash	Trafic_routier	Trafic
b <sub>2</sub>	Transport flash	Transport/commun	Transpor
b <sub>3</sub>	Warning/Service	Incidents	Incident
b <sub>4</sub>	News flash	Les_actualités	Nouvelle
b <sub>5</sub>	Area weather flash	Flash_Météo	Météo
b <sub>6</sub>	Event announcement	Évènement	Flash
b <sub>7</sub>	Special event	Flash_spécial	Spécial
b <sub>8</sub>	Programme Information	Infos_radio	Info_rad
b <sub>9</sub>	Sport report	Infos_sport	Sport
b <sub>10</sub>	Financial report	Financier	Finances
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.4: German Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	German 16-character abbreviation	German 8-character abbreviation
b <sub>0</sub>	Alarm	Alarm	Alarm
b <sub>1</sub>	Road Traffic flash	Verkehr	Verkehr
b <sub>2</sub>	Transport flash	Reisen	Reisen
b <sub>3</sub>	Warning/Service	Warnung	Warnung
b <sub>4</sub>	News flash	Aktuelles	Aktuell
b <sub>5</sub>	Area weather flash	Wetter	Wetter
b <sub>6</sub>	Event announcement	Service	Service
b <sub>7</sub>	Special event	Eilmeldung	Eilmeld
b <sub>8</sub>	Programme Information	Programm_Info	Prog_Inf
b <sub>9</sub>	Sport report	Sport	Sport
b <sub>10</sub>	Financial report	Wirtschaft	Wirtsch
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.5: Norwegian Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Norwegian 16-character abbreviation	Norwegian 8-character abbreviation
b <sub>0</sub>	Alarm	ALARM	ALARM
b <sub>1</sub>	Road Traffic flash	Veitrafikk	Trafikk
b <sub>2</sub>	Transport flash	Rutetrafikk	Ruteinfo
b <sub>3</sub>	Warning/Service	Service	Service
b <sub>4</sub>	News flash	Nyheter	Nyheter
b <sub>5</sub>	Area weather flash	Vær	Vær
b <sub>6</sub>	Event announcement	Arrangementer	Arrangem
b <sub>7</sub>	Special event	I_dag	I_dag
b <sub>8</sub>	Programme Information	Programinfo	Proginfo
b <sub>9</sub>	Sport report	Sportsnytt	Sport
b <sub>10</sub>	Financial report	Økonominytt	Økonomi
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.6: Spanish Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type – see tables 14 and 15	Spanish 16-character abbreviation	Spanish 8-character abbreviation
b <sub>0</sub>	Alarm	Alarma	Alarma
b <sub>1</sub>	Road Traffic flash	Info_Tráfico	Tráfico
b <sub>2</sub>	Transport flash	Info_Viaje	Viaje
b <sub>3</sub>	Warning/Service	Aviso	Aviso
b <sub>4</sub>	News flash	Noticias	Noticias
b <sub>5</sub>	Area weather flash	Meteorología	Meteo
b <sub>6</sub>	Event announcement	Suceso	Suceso
b <sub>7</sub>	Special event	Suceso_Especial	Especial
b <sub>8</sub>	Programme Information	InformacionRadio	InfRadio
b <sub>9</sub>	Sport report	Deportes	Deportes
b <sub>10</sub>	Financial report	Economía	Economía
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.7: Slovenian Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Slovenian 16-character abbreviation	Slovenian 8-character abbreviation
b <sub>0</sub>	Alarm	Alarm	Alarm
b <sub>1</sub>	Road Traffic flash	Promet	Promet
b <sub>2</sub>	Transport flash	Javni_prevoz	Prevozi
b <sub>3</sub>	Warning/Service	Opozorilo	Pozor
b <sub>4</sub>	News flash	Vest	Vest
b <sub>5</sub>	Area weather flash	Vreme	Vreme
b <sub>6</sub>	Event announcement	Dogodek	Dogodek
b <sub>7</sub>	Special event	Izredni_dogodek	Nujno
b <sub>8</sub>	Programme Information	Radio_program	Radio
b <sub>9</sub>	Sport report	Sport	Sport
b <sub>10</sub>	Financial report	Finance	Finance
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.8: Swedish Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Swedish 16-character abbreviation	Swedish 8-character abbreviation
b <sub>0</sub>	Alarm	!!LARM!!	!!LARM!!
b <sub>1</sub>	Road Traffic flash	Vägtrafikinfo	Väginfo
b <sub>2</sub>	Transport flash	Kollektivtrafik	Koll.tra
b <sub>3</sub>	Warning/Service	Serviceinfo	Service
b <sub>4</sub>	News flash	Nyheter	Nyheter
b <sub>5</sub>	Area weather flash	Väder	Väder
b <sub>6</sub>	Event announcement	Evenemangsinfo	Evenema
b <sub>7</sub>	Special event	Extrasändning	Extra
b <sub>8</sub>	Programme Information	Programinfo	Prgminfo
b <sub>9</sub>	Sport report	Sportnyheter	Sportnyh
b <sub>10</sub>	Financial report	Ekonominyheter	Ekonomi
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.9: Finnish Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Finnish 16-character abbreviation	Finnish 8-character abbreviation
b <sub>0</sub>	Alarm	HÄLYTYS	HÄLYTYS
b <sub>1</sub>	Road Traffic flash	Liikennetiedote	Liikenne
b <sub>2</sub>	Transport flash	Joukkoliikenne	Joukkol.
b <sub>3</sub>	Warning/Service	Varoituksia	Varoitus
b <sub>4</sub>	News flash	Uutiset	Uutiset
b <sub>5</sub>	Area weather flash	Säätiedotus	Sää
b <sub>6</sub>	Alarm	Tapahtumatiedot	Tapahtuu
b <sub>7</sub>	Road Traffic flash	Erikoistiedote	Erikois
b <sub>8</sub>	Programme Information	Ohjelmatiedot	Ohjelmat
b <sub>9</sub>	Sport report	Urheilu-uutiset	Urheilu
b <sub>10</sub>	Financial report	Talousuutiset	Talous
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

**Table B.10: Italian Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Italian 16-character abbreviation	Italian 8-character abbreviation
b <sub>0</sub>	Alarm	Allarme	Allarme
b <sub>1</sub>	Road Traffic flash	Situaz._Traffico	Traffico
b <sub>2</sub>	Transport flash	Trasporti	Trasporti
b <sub>3</sub>	Warning/Service	Comun._Servizio	Servizio
b <sub>4</sub>	News flash	Notizie_flash	Notizie
b <sub>5</sub>	Area weather flash	Meteo_locale	Meteo
b <sub>6</sub>	Event announcement	Annuncio_evento	Evento
b <sub>7</sub>	Special event	Evento_speciale	Speciale
b <sub>8</sub>	Programme Information	Info_programma	ProgInfo
b <sub>9</sub>	Sport report	Notizie_sportive	Sport
b <sub>10</sub>	Financial report	Economia _ Finanza	Economia
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.



**Table B.11: Turkish Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Turkish 16-character abbreviation	Turkish 8-character abbreviation
b <sub>0</sub>	Alarm	Alarm	Alarm
b <sub>1</sub>	Road Traffic flash	Yol_Trafik	Trafik
b <sub>2</sub>	Transport flash	Ulaşım	Ulaşım
b <sub>3</sub>	Warning/Service	Uyarı	Uyarı
b <sub>4</sub>	News flash	Haberler	Haberler
b <sub>5</sub>	Area weather flash	Hava_durumu	Hava
b <sub>6</sub>	Event announcement	Etkinlik	Etkinlik
b <sub>7</sub>	Special event	Özel_olay	Özel
b <sub>8</sub>	Programme Information	Radyoda_bugün	Radyoda
b <sub>9</sub>	Sport report	Spor	Spor
b <sub>10</sub>	Financial report	Finans_haberleri	Finans
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE 1: The notation \_ is used to indicate the use of the "space" character.  
NOTE 2: The Turkish chracaters used in row b2 and b3 *are electronically correct*, but do NOT print correctly on all printers.

**Table B.12: Portuguese Announcement types, 16-character and 8-character abbreviations**

Bit Flag	Announcement type (see tables 14 and 15)	Portuguese 16-character abbreviation	Portuguese 8-character abbreviation
b <sub>0</sub>	Alarm	Alarme	Alarme
b <sub>1</sub>	Road Traffic flash	Trânsito	Trânsito
b <sub>2</sub>	Transport flash	Transportes	Transpor
b <sub>3</sub>	Warning/Service	Aviso	Aviso
b <sub>4</sub>	News flash	Notícias	Notícias
b <sub>5</sub>	Area weather flash	Meteorologia	Meteo
b <sub>6</sub>	Event announcement	Acontecimento	Acontece
b <sub>7</sub>	Special event	Especial	Especial
b <sub>8</sub>	Programme Information	Informação_Rádio	InfRadio
b <sub>9</sub>	Sport report	Desporto	Desporto
b <sub>10</sub>	Financial report	Economia	Economia
b <sub>11</sub>	Reserved for future definition	tba	tba
b <sub>12</sub>	Reserved for future definition	tba	tba
b <sub>13</sub>	Reserved for future definition	tba	tba
b <sub>14</sub>	Reserved for future definition	tba	tba
b <sub>15</sub>	Reserved for future definition	tba	tba

NOTE: The notation \_ is used to indicate the use of the "space" character.

## Annex C (normative): Complete EBU Latin based repertoire

This annex contains the glyphs and unicode character names and codes for each character of the complete EBU Latin based repertoire. The control codes 0x0A, 0x0B and 0x1F (used in the Dynamic Label application, see [1] clause 7.4.5.2) are also part of this character set. Code 0x1F shall be displayed as U+002D when required.

NOTE: This character set is identical to the Basic RDS character set, see [2] table E.1

**Table C.1: Complete EBU Latin based repertoire with unicode numbers**

Character code (hexadecimal)																
	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-A	-B	-C	-D	-E	-F
2-	0020	0021	0022	0023	00A4	0025	0026	0027	0028	0029	002A	002B	002C	002D	002E	002F
		!	"	#	¤	%	&	'	(	)	*	+	,	-	.	/
3-	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	003A	003B	003C	003D	003E	003F
	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4-	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	004A	004B	004C	004D	004E	004F
	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5-	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	005A	005B	005C	005D	2015	005F
	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	—	–
6-	2551	0061	0062	0063	0064	0065	0066	0067	0068	0069	006A	006B	006C	006D	006E	006F
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
7-	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	007A	007B	007C	007D	00AF	
	p	q	r	s	t	u	v	w	x	y	z	{		}	-	
8-	00E1	00E0	00E9	00E8	00ED	00EC	00F3	00F2	00FA	00F9	00D1	00C7	015E	00DF	00A1	0132
	á	à	é	è	í	ì	ó	ò	ú	ù	Ñ	Ç	Ş	ß	ı	İ
9-	00E2	00E4	00EA	00EB	00EE	00EF	00F4	00F6	00FB	00FC	00F1	00E7	015F	011F	0131	0133
	â	ä	ê	ë	î	ï	ô	ö	û	ü	ñ	ç	ş	ğ	ı	ij
A-	00AA	03B1	00A9	2030	011E	011B	0148	0151	03C0	20AC	00A3	0024	2190	2191	2192	2193
	a	α	©	‰	Ĝ	ě	ň	ő	π	€	£	\$	←	↑	→	↓
B-	00BA	00B9	00B2	00B3	00B1	0130	0144	0171	00B5	00BF	00F7	00B0	00BC	00BD	00BE	00A7
	o	1	2	3	±	ı	ń	ů	μ	¿	÷	°	¼	½	¾	§
C-	00C1	00C0	00C9	00C8	00CD	00CC	00D3	00D2	00DA	00D9	0158	010C	0160	017D	00D0	013F
	Á	À	É	È	Í	Ì	Ó	Ò	Ú	Ù	Ř	Č	Š	Ž	Đ	Ł
D-	00C2	00C4	00CA	00CB	00CE	00CF	00D4	00D6	00DB	00DC	0159	010D	0161	017E	0111	0140
	Â	Ä	Ê	Ë	Î	Ï	Ô	Ö	Û	Ü	ř	č	š	ž	đ	ł
E-	00C3	00C5	00C6	0152	0177	00DD	00D5	00D8	00DE	014A	0154	0106	015A	0179	0166	00F0
	Ã	Å	Æ	Œ	ÿ	Ý	Õ	Ø	Ɔ	Ɔ	Ř	Č	Š	Ž	Ʀ	đ
F-	00E3	00E5	00E6	0153	0175	00FD	00F5	00F8	00FE	014B	0155	0107	015B	017A	0167	
	ã	å	æ	œ	ŵ	ý	õ	ø	Ɔ	Ɔ	ř	č	š	ž	Ʀ	

Table C.2: Complete EBU Latin based repertoire with unicode numbers and names

Character graphic	Charset = 0000 character code	Unicode number	Unicode name
<space>	0x20	U+0020	SPACE
!	0x21	U+0021	EXCLAMATION MARK
"	0x22	U+0022	QUOTATION MARK
#	0x23	U+0023	NUMBER SIGN
¤	0x24	U+00A4	CURRENCY SIGN
%	0x25	U+0025	PERCENT SIGN
&	0x26	U+0026	AMPERSAND
'	0x27	U+0027	APOSTROPHE
(	0x28	U+0028	LEFT PARENTHESIS
)	0x29	U+0029	RIGHT PARENTHESIS
*	0x2A	U+002A	ASTERISK
+	0x2B	U+002B	PLUS SIGN
,	0x2C	U+002C	COMMA
-	0x2D	U+002D	HYPHEN-MINUS
.	0x2E	U+002E	FULL STOP
/	0x2F	U+002F	SOLIDUS
0	0x30	U+0030	DIGIT ZERO
1	0x31	U+0031	DIGIT ONE
2	0x32	U+0032	DIGIT TWO
3	0x33	U+0033	DIGIT THREE
4	0x34	U+0034	DIGIT FOUR
5	0x35	U+0035	DIGIT FIVE
6	0x36	U+0036	DIGIT SIX
7	0x37	U+0037	DIGIT SEVEN
8	0x38	U+0038	DIGIT EIGHT
9	0x39	U+0039	DIGIT NINE
:	0x3A	U+003A	COLON
;	0x3B	U+003B	SEMICOLON
<	0x3C	U+003C	LESS-THAN SIGN
=	0x3D	U+003D	EQUALS SIGN
>	0x3E	U+003E	GREATER-THAN SIGN
?	0x3F	U+003F	QUESTION MARK
@	0x40	U+0040	COMMERCIAL AT
A	0x41	U+0041	LATIN CAPITAL LETTER A
B	0x42	U+0042	LATIN CAPITAL LETTER B
C	0x43	U+0043	LATIN CAPITAL LETTER C
D	0x44	U+0044	LATIN CAPITAL LETTER D
E	0x45	U+0045	LATIN CAPITAL LETTER E
F	0x46	U+0046	LATIN CAPITAL LETTER F
G	0x47	U+0047	LATIN CAPITAL LETTER G
H	0x48	U+0048	LATIN CAPITAL LETTER H
I	0x49	U+0049	LATIN CAPITAL LETTER I
J	0x4A	U+004A	LATIN CAPITAL LETTER J
K	0x4B	U+004B	LATIN CAPITAL LETTER K
L	0x4C	U+004C	LATIN CAPITAL LETTER L
M	0x4D	U+004D	LATIN CAPITAL LETTER M
N	0x4E	U+004E	LATIN CAPITAL LETTER N
O	0x4F	U+004F	LATIN CAPITAL LETTER O
P	0x50	U+0050	LATIN CAPITAL LETTER P
Q	0x51	U+0051	LATIN CAPITAL LETTER Q
R	0x52	U+0052	LATIN CAPITAL LETTER R
S	0x53	U+0053	LATIN CAPITAL LETTER S
T	0x54	U+0054	LATIN CAPITAL LETTER T
U	0x55	U+0055	LATIN CAPITAL LETTER U
V	0x56	U+0056	LATIN CAPITAL LETTER V
W	0x57	U+0057	LATIN CAPITAL LETTER W
X	0x58	U+0058	LATIN CAPITAL LETTER X
Y	0x59	U+0059	LATIN CAPITAL LETTER Y
Z	0x5A	U+005A	LATIN CAPITAL LETTER Z
[	0x5B	U+005B	LEFT SQUARE BRACKET
\	0x5C	U+005C	REVERSE SOLIDUS

Character graphic	Charset = 0000 character code	Unicode number	Unicode name
]	0x5D	U+005D	RIGHT SQUARE BRACKET
—	<b>0x5E</b>	<b>U+2015</b>	<b>HORIZONTAL BAR</b>
—	0x5F	U+005F	LOW LINE
	<b>0x60</b>	<b>U+2551</b>	<b>BOX DRAWINGS DOUBLE VERTICAL</b>
a	0x61	U+0061	LATIN SMALL LETTER A
b	0x62	U+0062	LATIN SMALL LETTER B
c	0x63	U+0063	LATIN SMALL LETTER C
d	0x64	U+0064	LATIN SMALL LETTER D
e	0x65	U+0065	LATIN SMALL LETTER E
f	0x66	U+0066	LATIN SMALL LETTER F
g	0x67	U+0067	LATIN SMALL LETTER G
h	0x68	U+0068	LATIN SMALL LETTER H
i	0x69	U+0069	LATIN SMALL LETTER I
j	0x6A	U+006A	LATIN SMALL LETTER J
k	0x6B	U+006B	LATIN SMALL LETTER K
l	0x6C	U+006C	LATIN SMALL LETTER L
m	0x6D	U+006D	LATIN SMALL LETTER M
n	0x6E	U+006E	LATIN SMALL LETTER N
o	0x6F	U+006F	LATIN SMALL LETTER O
p	0x70	U+0070	LATIN SMALL LETTER P
q	0x71	U+0071	LATIN SMALL LETTER Q
r	0x72	U+0072	LATIN SMALL LETTER R
s	0x73	U+0073	LATIN SMALL LETTER S
t	0x74	U+0074	LATIN SMALL LETTER T
u	0x75	U+0075	LATIN SMALL LETTER U
v	0x76	U+0076	LATIN SMALL LETTER V
w	0x77	U+0077	LATIN SMALL LETTER W
x	0x78	U+0078	LATIN SMALL LETTER X
y	0x79	U+0079	LATIN SMALL LETTER Y
z	0x7A	U+007A	LATIN SMALL LETTER Z
{	0x7B	U+007B	LEFT CURLY BRACKET
	0x7C	U+007C	VERTICAL LINE
}	0x7D	U+007D	RIGHT CURLY BRACKET
-	<b>0x7E</b>	<b>U+00AF</b>	<b>MACRON</b>
	0x7F		
á	0x80	U+00E1	LATIN SMALL LETTER A WITH ACUTE
à	0x81	U+00E0	LATIN SMALL LETTER A WITH GRAVE
é	0x82	U+00E9	LATIN SMALL LETTER E WITH ACUTE
è	0x83	U+00E8	LATIN SMALL LETTER E WITH GRAVE
í	0x84	U+00ED	LATIN SMALL LETTER I WITH ACUTE
ì	0x85	U+00EC	LATIN SMALL LETTER I WITH GRAVE
ó	0x86	U+00F3	LATIN SMALL LETTER O WITH ACUTE
ò	0x87	U+00F2	LATIN SMALL LETTER O WITH GRAVE
ú	0x88	U+00FA	LATIN SMALL LETTER U WITH ACUTE
ù	0x89	U+00F9	LATIN SMALL LETTER U WITH GRAVE
Ñ	0x8A	U+00D1	LATIN CAPITAL LETTER N WITH TILDE
Ç	0x8B	U+00C7	LATIN CAPITAL LETTER C WITH CEDILLA
Ş	0x8C	U+015E	LATIN CAPITAL LETTER S WITH CEDILLA
ß	0x8D	U+00DF	LATIN SMALL LETTER SHARP S (German)
¡	0x8E	U+00A1	INVERTED EXCLAMATION MARK
IJ	0x8F	U+0132	LATIN CAPITAL LIGATURE IJ
â	0x90	U+00E2	LATIN SMALL LETTER A WITH CIRCUMFLEX
ä	0x91	U+00E4	LATIN SMALL LETTER A WITH DIAERESIS
ê	0x92	U+00EA	LATIN SMALL LETTER E WITH CIRCUMFLEX
ë	0x93	U+00EB	LATIN SMALL LETTER E WITH DIAERESIS
î	0x94	U+00EE	LATIN SMALL LETTER I WITH CIRCUMFLEX
ï	0x95	U+00EF	LATIN SMALL LETTER I WITH DIAERESIS
ô	0x96	U+00F4	LATIN SMALL LETTER O WITH CIRCUMFLEX
ö	0x97	U+00F6	LATIN SMALL LETTER O WITH DIAERESIS
û	0x98	U+00FB	LATIN SMALL LETTER U WITH CIRCUMFLEX
ü	0x99	U+00FC	LATIN SMALL LETTER U WITH DIAERESIS
ñ	0x9A	U+00F1	LATIN SMALL LETTER N WITH TILDE
ç	0x9B	U+00E7	LATIN SMALL LETTER C WITH CEDILLA

Character graphic	Charset = 0000 character code	Unicode number	Unicode name
š	0x9C	U+015F	LATIN SMALL LETTER S WITH CEDILLA
ğ	0x9D	U+011F	LATIN SMALL LETTER G WITH BREVE
ı	0x9E	U+0131	LATIN SMALL LETTER DOTLESS I
ij	0x9F	U+0133	LATIN SMALL LIGATURE IJ
ª	0xA0	U+00AA	FEMININE ORDINAL INDICATOR
α	0xA1	U+03B1	GREEK SMALL LETTER ALPHA
©	0xA2	U+00A9	COPYRIGHT SIGN
‰	0xA3	U+2030	PER MILLE SIGN
Ĝ	0xA4	U+011E	LATIN CAPITAL LETTER G WITH BREVE
é	0xA5	U+011B	LATIN SMALL LETTER E WITH CARON
ñ	0xA6	U+0148	LATIN SMALL LETTER N WITH CARON
ö	0xA7	U+0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE
π	0xA8	U+03C0	GREEK SMALL LETTER PI
€	0xA9	U+20AC	EURO SIGN
£	0xAA	U+00A3	POUND SIGN
\$	0xAB	U+0024	DOLLAR SIGN
←	0xAC	U+2190	LEFTWARDS ARROW
↑	0xAD	U+2191	UPWARDS ARROW
→	0xAE	U+2192	RIGHTWARDS ARROW
↓	0xAF	U+2193	DOWNWARDS ARROW
º	0xB0	U+00BA	MASCULINE ORDINAL INDICATOR
¹	0xB1	U+00B9	SUPERSCRIPT ONE
²	0xB2	U+00B2	SUPERSCRIPT TWO
³	0xB3	U+00B3	SUPERSCRIPT THREE
±	0xB4	U+00B1	PLUS-MINUS SIGN
İ	0xB5	U+0130	LATIN CAPITAL LETTER I WITH DOT ABOVE
ń	0xB6	U+0144	LATIN SMALL LETTER N WITH ACUTE
ú	0xB7	U+0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE
μ	0xB8	U+00B5	MIKRO SIGN
¿	0xB9	U+00BF	INVERTED QUESTION MARK
÷	0xBA	U+00F7	DIVISION SIGN
°	0xBB	U+00B0	DEGREE SIGN
¼	0xBC	U+00BC	VULGAR FRACTION ONE QUARTER
½	0xBD	U+00BD	VULGAR FRACTION ONE HALF
¾	0xBE	U+00BE	VULGAR FRACTION THREE QUARTERS
§	0xBF	U+00A7	SECTION SIGN
Á	0xC0	U+00C1	LATIN CAPITAL LETTER A WITH ACUTE
À	0xC1	U+00C0	LATIN CAPITAL LETTER A WITH GRAVE
É	0xC2	U+00C9	LATIN CAPITAL LETTER E WITH ACUTE
È	0xC3	U+00C8	LATIN CAPITAL LETTER E WITH GRAVE
Í	0xC4	U+00CD	LATIN CAPITAL LETTER I WITH ACUTE
Ì	0xC5	U+00CC	LATIN CAPITAL LETTER I WITH GRAVE
Ó	0xC6	U+00D3	LATIN CAPITAL LETTER O WITH ACUTE
Ò	0xC7	U+00D2	LATIN CAPITAL LETTER O WITH GRAVE
Ú	0xC8	U+00DA	LATIN CAPITAL LETTER U WITH ACUTE
Ù	0xC9	U+00D9	LATIN CAPITAL LETTER U WITH GRAVE
Ř	0xCA	U+0158	LATIN CAPITAL LETTER R WITH CARON
Č	0xCB	U+010C	LATIN CAPITAL LETTER C WITH CARON
Š	0xCC	U+0160	LATIN CAPITAL LETTER S WITH CARON
Ž	0xCD	U+017D	LATIN CAPITAL LETTER Z WITH CARON
Ð	0xCE	U+00D0	LATIN CAPITAL LETTER ETH
Ł	0xCF	U+013F	LATIN CAPITAL LETTER L WITH MIDDLE DOT
Ā	0xD0	U+00C2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
Ă	0xD1	U+00C4	LATIN CAPITAL LETTER A WITH DIAERESIS
Ê	0xD2	U+00CA	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
Ĕ	0xD3	U+00CB	LATIN CAPITAL LETTER A WITH DIAERESIS
Ī	0xD4	U+00CE	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
Ĭ	0xD5	U+00CF	LATIN CAPITAL LETTER I WITH DIAERESIS
Ō	0xD6	U+00D4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
Ȫ	0xD7	U+00D6	LATIN CAPITAL LETTER O WITH DIAERESIS
Û	0xD8	U+00DB	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
Ü	0xD9	U+00DC	LATIN CAPITAL LETTER U WITH DIAERESIS
ř	0xDA	U+0159	LATIN SMALL LETTER R WITH CARON

Character graphic	Charset = 0000 character code	Unicode number	Unicode name
č	0xDB	U+010D	LATIN SMALL LETTER C WITH CARON
š	0xDC	U+0161	LATIN SMALL LETTER S WITH CARON
ž	0xDD	U+017E	LATIN SMALL LETTER Z WITH CARON
đ	0xDE	U+0111	LATIN SMALL LETTER D WITH STROKE
ł	0xDF	U+0140	LATIN SMALL LETTER L WITH MIDDLE DOT
Ā	0xE0	U+00C3	LATIN CAPITAL LETTER A WITH TILDE
Ā	0xE1	U+00C5	LATIN CAPITAL LETTER A WITH RING ABOVE
Æ	0xE2	U+00C6	LATIN CAPITAL LETTER AE
Œ	0xE3	U+0152	LATIN CAPITAL LIGATURE OE
ÿ	0xE4	U+0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX
Ÿ	0xE5	U+00DD	LATIN CAPITAL LETTER Y WITH ACUTE
Ō	0xE6	U+00D5	LATIN CAPITAL LETTER O WITH TILDE
Ø	0xE7	U+00D8	LATIN CAPITAL LETTER O WITH STROKE
Þ	0xE8	U+00DE	LATIN CAPITAL LETTER THORN
Ð	0xE9	U+014A	LATIN CAPITAL LETTER ENG
Ř	0xEA	U+0154	LATIN CAPITAL LETTER R WITH ACUTE
Č	0xEB	U+0106	LATIN CAPITAL LETTER C WITH ACUTE
Š	0xEC	U+015A	LATIN CAPITAL LETTER S WITH ACUTE
Ž	0xED	U+0179	LATIN CAPITAL LETTER Z WITH ACUTE
Ŧ	0xEE	U+0166	LATIN CAPITAL LETTER T WITH STROKE
ð	0xEF	U+00F0	LATIN SMALL LETTER ETH
ã	0xF0	U+00E3	LATIN SMALL LETTER A WITH TILDE
å	0xF1	U+00E5	LATIN SMALL LETTER A WITH RING
æ	0xF2	U+00E6	LATIN SMALL LETTER AE
œ	0xF3	U+0153	LATIN SMALL LIGATURE OE
ŵ	0xF4	U+0175	LATIN SMALL LETTER W WITH CIRCUMFLEX
ý	0xF5	U+00FD	LATIN SMALL LETTER Y WITH ACUTE
õ	0xF6	U+00F5	LATIN SMALL LETTER O WITH TILDE
ø	0xF7	U+00F8	LATIN SMALL LETTER O WITH STROKE
þ	0xF8	U+00FE	LATIN SMALL LETTER THORN
ŋ	0xF9	U+014B	LATIN SMALL LETTER ENG
ř	0xFA	U+0155	LATIN SMALL LETTER R WITH ACUTE
č	0xFB	U+0107	LATIN SMALL LETTER C WITH ACUTE
š	0xFC	U+015B	LATIN SMALL LETTER S WITH ACUTE
ž	0xFD	U+017A	LATIN SMALL LETTER Z WITH ACUTE
ŧ	0xFE	U+0167	LATIN SMALL LETTER T WITH STROKE
	0xFF		

NOTE 1: Bold indicates non-ASCII characters in the first half of the table  
NOTE 2: Codes 0x7F and 0xFF have no display character

---

## History

<b>Document history</b>		
V1.1.1	October 2000	Publication
V1.2.1	January 2005	Publication
V1.3.1	February 2006	Publication
V1.4.1	July 2009	Publication
V1.5.1	August 2013	Publication
V1.6.1	May 2014	Publication