# ETSITS 101 756 V1.2.1 (2005-01)

Technical Specification

# Digital Audio Broadcasting (DAB); Registered Tables





#### Reference

#### RTS/JTC-DAB-32

#### Keywords

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

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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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#### Digital Audio Broadcasting (DAB) Eureka Project 147

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) which now has worldwide acceptance. The members of the Eureka Project 147 are drawn from broadcasting organizations and telecommunication providers together with companies from the professional and consumer electronics industry.

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

## 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), 7 Swallow Place, London, W1B 2AG, England. 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

[14]

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

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

[1]	ETSI EN 300 401: "Radio broadcasting systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers".
[2]	CENELEC EN 62106 (2001): "Specification of the radio data system (RDS) for VHF/FM sound broadcasting in the frequency range from 87,5 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 (1993): "MIME (Multipurpose Internet Mail Extensions) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies".
[6]	IETF RFC 1945 (1996): "Hypertext Transfer Protocol - HTTP/1.0".
[7]	ISO/IEC 646 (1991): "Information Technology ISO 7-bit coded character set for information interchange".
[8]	ISO/IEC 8859-1: "Information processing - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1".
[9]	IETF RFC 1866 (1995): "Hypertext Markup Language - 2.0".
[10]	ISO 10918 (all parts): "Information technology - Digital compression and coding of continuoustone still images".
[11]	ISO/IEC 11172-3 (1993): "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 (1998): "Information technology - Generic coding of moving pictures and associated audio information - Part 3: Audio".
[13]	ITU-T Recommendation G.711: "Pulse Code Modulation (PCM) of voice frequencies".

ISO/IEC 14496-3: "Information technology - Coding of audio-visual objects - Part 3: Audio".

[15]	ISO/IEC 11172-2 (1993): "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: Video". 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]	ITU-T Recommendation H.263: "Video coding for low bit rate communication".
[19]	ISO/IEC 13522 (all parts): "Information technology - Coding of multimedia and hypermedia information".
[20]	IEC 62106 (2000): "Specification of the Radio Data System (RDS) for VHF/FM sound broadcasting in the frequency 87,5 to 108,0 MHz".
[21]	ISO/IEC 15948: "Information technology - Computer graphics and image processing - Portable Network Graphics (PNG): Functional specification".
[22]	ETSI TS 101 498 (all parts): "Digital Audio Broadcasting (DAB); Broadcast Website".
[23]	ETSI TS 101 499: "Digital Audio Broadcasting (DAB);MOT Slide Show User Application Specification".
[24]	ETSI TS 102 368: "Digital Audio Broadcasting (DAB); DAB-TMC (Traffic Message Channel)".
[25]	ETSI TS 102 818: "Digital Audio Broadcasting (DAB); XML Specification for DAB Electronic Programme Guide (EPG)".
[26]	ETSI TS 101 993: "Digital Audio Broadcasting (DAB); A Virtual Machine for DAB: DAB Java Specification".
[27]	ISO/IEC 10646: "Information technology - Universal Multiple - Octet Coded Character Set (UCS)".
[28]	IETF RFC 1950 (1996): "ZLIB Compressed Data Format Specification version 3.3".
[29]	IETF RFC 1952 (1996): "GZIP file format specification version 4.3".
[30]	ISO/IEC 8859-2: "Information technology - 8-bit single-byte coded graphic character sets - Part 2: Latin alphabet No. 2".

# 3 Abbreviations

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

DAB	Digital Audio Broadcasting
DSCTy	Data Service Component Type
EBU	European Broadcasting Union
ETS	European Telecommunication Standard
EWS	Emergency Warning System
FIG	Fast Information Group
ITTS	Interactive Text Transmission System
ITU	International Telecommunications Union
MOT	Multimedia Object Transfer
MPEG	Moving Pictures Expert Group
PAD	Programme Associated Data
PNG	Portable Network Graphics
РТу	Programme Type
RDS	Radio Data System
rfu	reserved for future use
tba	to be announced
TMC	Traffic Message Channel

UAtype User Application type

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, 7 Swallow Place, LONDON W1B 2AG, England Tel: +44 20 7288 4640

Fax: +44 20 7288 4643

E-mail: worlddab-irc@worlddab.org

### 4.2 Registration of a value in an existing table

Applications for a new value to be defined in an **existing** table shall be sent to the WorldDAB 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 table following is listed in clause number 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 [2]
0	0	0	1	EBU Latin based common core, Cyrillic, Greek [2]
0	0	1	0	EBU Latin based core, Arabic, Hebrew, Cyrillic and Greek [2]
0	0	1	1	ISO Latin Alphabet No 2 [30]
1	1	1	1	ISO/IEC 10646 [27] using UTF-8 transformation format

## 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)		
							rfu		
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	Proprietary service: DSCTy from the service-specific extension table		
1	1	1	1	1	1	63	EMMF from general extension table		

## 5.4 Country Id

See clause 6.3.1 of EN 300 401 [1].

The following tables 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
Albania	ALB	E0	9
Algeria	ALG	E0	9 2
Andorra	AND	E0	3
Austria	AUT	E0	А
Azores (Portugal)	AZR	E0	8
Belgium	BEL	E0	6
Belarus (ex USSR)	BLR	E3	F
Bosnia i Hercegovina	bih	E4	F
Bulgaria	BUL	E1	8
Canaries (Spain)	CNR	E0	Е
Croatia	HRV	E3	С
Cyprus	CYP	E1	2
Czech Republic	czr	E2	2
Denmark	DNK	E1	9 F
Egypt	EGY	E0	
Estonia (ex USSR)	EST	E4	2
Faroe (Denmark)	DNK	E1	9
Finland	FNL	E1	6
France	F	E1	F
Germany	D	E0	D
		E0	1
Gibralatar (UK)	GIB	E1	А
Greece	GRC	E1	1
Hungary	HNG	E0	В
Iceland	ISL	E2	Α
Iraq	IRQ	E1	В
Ireland	IRL	E3	2
Israel	ISR	E0	4
Italy	İ	E0	5
Jordan	JOR	E1	5
Latvia (ex USSR)	LVA	E3	9

Country	ITU code	ECC	Country Id
Lebanon	LBN	E3	Α
Libya	LBY	E1	D
Leichtenstein	LIE	E2	9 C
Lithuania (ex USSR)	LTU	E2	
Luxembourg	LUX	E1	7
Macedonia	mkd	E4	3
Madeira	MDR	E2	8
Malta	MLT	E0	С
Marocco	MRC	E2	1
Moldova	MDA	E4	1
Monaco	MCO	E2	В
Montenegro	men	E3	1
Netherlands	HOL	E3	8
Norway	NOR	E2	F
Poland	POL	E2	3
Portugal	POR	E4	8
Roumania	ROU	E1	E
Russian Federation	RUS	E0	7
San Marino	SM	E1	3
Serbia	srb	E2	D
Slovenia	SVN	E4	9
Slovak Replublic	slr	E2	5
Spain	Е	E2	E
Sweden	S	E3	Е
Switzerland	SUI	E1	4
Syria	SYR	E2	6
Tunisia	TUN	E2	7
Turkey	TUR	E3	3
Ukraine	UKR	E4	6
United Kingdom	G	E1	С
Vatican	CVA	E2	4

Table 4: ITU Region 1 (African broadcasting area)

Country	ITU code	ECC	Country Id
Ascension island	ASC	D1	Α
Angola	AGL	D0	6
Algeria	ALG	E0	2
Burindi	BDI	D1	9
Benin	BEN	D0	E
Burkina Faso	BFA	D0	В
Botswana	BOT	D1	В
Cabinda	cba	D3	4
Cameroon	CME	D0	1
Canary Islands	CNR	E0	E
Central African Republic	CAF	D0	2
Chad	TCD	D2	9
Congo	COG	D0	С
Comoros	COM	D1	С
Cape Verde	CPV	D1	6
Cote d'Ivoire	CTI	D2	С
Djibouti	DJI	D0	3 F
Egypt	EGY	E0	F
Ethiopia	ETH	D1	Е
Gabon	GAB	D0	8
Ghana	GHA	D1	3
Gambia	GMB	D1	8
Guinea-Bissau	GNB	D2	Α
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	Α
Madagascar	MDG	D0	4
Malawi	MWI	D0	F
Mali	MLI	D0	5
Marocco	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	Α
Sudan	SDN	D3	С
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	В
Zambia	ZMB	D2	E
Zanzibar	ZAN	D2	D
Zimbabwe	ZWE	D2	2

Table 5: ITU Region 1 (Former Soviet Union broadcasting area)

Country	ITU code	ECC	Country Id
Armenia	ARM	E4	Α
Azerbaijan	AZE	E3	В
Belarus	BLR	E3	F
Estonia	EST	E4	2
Georgia	GEO	E4	С
Kazakhstan	KAZ	E3	D
Kyrghyzstan	KGZ	E4	3
Latvia	LVA	E3	9

Country	ITU code	ECC	Country Id
Lithuania	LTU	E2	С
Moldova	MDA	E4	1
Russian Federation	RUS	E0	7
Tajikistan	TJK	E3	5
Turkmenistan	TKM	E4	Е
Ukraine	UKR	E4	6
Uzbekistan	UZB	E4	В

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	Α
Aruba	ABW	A4	3 F
Bahamas	BAH	A2	
Barbados	BRB	A2	5 6
Belize	BLZ	A2	6
Bermuda	BER	A2	С
Bolivia	BOL	A3	1
Brazil	В	A2	В
Canada	CAN	A1	C 7
Cayman Islands	CYM	A2	7
Chile	CHL	A3	C 2 8
Colombia	CLM	A3	2
Costa Rica	CTR	A2	
Cuba	CUB	A2	9
Dominica	DMA	A3	Α
Dominican Republic	DOM	A3	В
Equador	EQA	A2	3 C
El Salvador	SLV	A4	С
Falkland Islands	FLK	A2	4
Greenland	GRL	A1	F
Grenada	GRD	A3	D
Guadeloupe	GDL	A2	Е
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	Α
St. Lucia	LCA	A4	В
St. Pierre and Michelon	SPM	A6	F
St. Vincent	VCT	A5	С
Surinam	SUR	A4	8
Trinidad and Tobago	TRD	A4	6
Turks and Caicos islands	TCA	A3	Е
United States of America	USA	A0	1 to 9,
			A, B, D, E
Uruguay	URG	A4	9
Venezuela	VEN	A4	9 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
Afganistan	AFG	F0	Α
Saudi Arabia	ARS	F0	9
Australia:			
Capital Territory	act	F0	1
New South Wales	ans	F0	2
Victoria	avi	F0	3
Queensland	aqu	F0	4
South Australia	asa	F0	5
Western Australia	awa	F0	6
Tasmania	ata	F0	7
Northern Territory	ant	F0	8
Bangladesh	BGD	F1	3
Bahrain	BHR	F0	E
Myanmar (Burma)	BRM	F0	В
Brunei Darussalam	BRU	F1	В
Bhutan	BTN	F1	2
Cambodia	CBG	F2	3 C C
China	CHN	F0	С
Sri Lanka	CLN	F1	
Fiji	FJI	F1	5
Hong Kong	HKG	F1	F
India	IND	F2	5
Indonesia	INS	F2	С
Iran	IRN	F0	8
Iraq	IRQ	E1	В
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	В
Micronesia	mic	F3	Е
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	Α
Western Samoa	SMO	F2	4
Singapore	SNG	F2	Α
Taiwan	twn	F1	D
Thailand	THA	F3	2 3
Tonga	TON	F3	3
United Arab Emirates	UAE	F2	D
Vietnam	VTN	F2	7
Vanuatu	VUT	F2	F
Yemen	YEM	F3	В

## 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].

The following tables 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: European languages

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

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
rfu	2C
rfu	2D
rfu	2E
rfu	2F
Reserved for national assigment	30 to 3F

**Table 10: Other languages** 

Code (hex)
7F 7E 7D
7E
7D
7C
7B
7A
79
78
77
76
75
74
73
72
71
70
6F
6E
6D
6C
6B
6A
69
68
67
66
65
64
63
62
61
60

Language	Code (hex)
Marathi	5F
Ndebele	5E
Nepali	5D
Oriya	5C
Papamiento	5B
Persian	5A
Punjabi	59
Pushtu	58
Quechua	57
Russian	56
Ruthenian	55
Serbo-Croat	54
Shona	53
Sinhalese	52
Somali	51
Sranan Tongo	50
Swahili	4F
Tadzhik	4E
Tamil	4D
Tatar	4C
Telugu	4B
Thai	4A
Ukranian	49
Urdu	48
Uzbek	47
Vietnamese	46
Zulu	45
rfu	44
rfu	43
rfu	42
rfu	41
Background sound/clean feed	40

## 5.7 International Table Identifiers

See clause 8.1.3.2 of EN 300 401 [1].

This table 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>	$b_3$	b <sub>2</sub>	b <sub>1</sub>	b <sub>0</sub>	International Table Identifiers
0	0	0	0	0	0	0		Comprises the use of a PTY from table 12 and an Announcement type from table 14.
0	0	0	0	0	0	1		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	Code				Programme type	16-character abbreviation	8-character	
Number	b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>	b <sub>0</sub>			abbreviation
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	Not used		
31	1	1	1	1	1	Not used		

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.

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 IEC 62106 [20]. The 16-character and 8-character abbreviations are recommended for display on DAB products for use in North America.

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

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

Decimal	Code		Program type	16-character	8-character			
Number	b <sub>4</sub>	b <sub>3</sub>	b <sub>2</sub>	b <sub>1</sub>	b <sub>0</sub>	]	abbreviation	abbreviation
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	Cls _ 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.

### 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.

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

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>	Reserved for future definition	tba
b <sub>12</sub>	Reserved for future definition	tba
b <sub>13</sub>	Reserved for future definition	tba
b <sub>14</sub>	Reserved for future definition	tba
b <sub>15</sub>	Reserved for future definition	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>	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
	The notation _ is used to indicate t	he use of the "space" chara	acter.

## 5.10 User Application type (UAtype)

See clause 8.1.20 of EN 300 401 [1].

Table 16 contains all *presently* registered User Appplication 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 [23]
0x003	MOT Broadacst Web Site	TS 101 498 [22]
0x004	TPEG	
0x005	DGPS	
0x006	TMC	TS 102 368 [24]
0x007	EPG	TS 102 818 [25]
0x008	DAB Java	TS 101 993 [26]
0x009 to 0x3ff	Reserved for future definition	
0x400 to 0x449	Reserved for proprietary	
	applications	
0x44a	Journaline®	Fraunhofer IIS
0x44b to 0x7ff	Reserved for proprietary	
	applications	

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). User Application Types marked "Reserved for proprietary applications" are assigned by WorldDAB IRC 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	000000000	Object Transfer
		00000001	MIME/HTTP [5], [6]
000001	text	000000000	Text (US ASCII) [7]
		00000001	Text (ISO Latin 1) [8]
		00000010	HTML (default: ISO Latin 1) [9], [8]
000010	image	000000000	GIF (see Bibliography)
		00000001	JFIF [10]
		00000010	BMP (see Bibliography)
		00000011	PNG [21]
000011	audio	000000000	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]
		000000100	MPEG II audio Layer II [12]
		000000101	MPEG II audio Layer III [12]
		000000110	uncompressed PCM audio [13]
		000000111	AIFF (see Bibliography)
		000001000	ATRAC (see Bibliography)
		000001001	ATRAC II (see Bibliography)
		000001010	MPEG 4 audio [14]
000100	video	000000000	MPEG I video [15]
		00000001	MPEG II video [16]
		00000010	MPEG 4 video [17]
		00000011	H263 [18]
000101	MOT transport	000000000	Header update
000110	system	000000000	MHEG [19]
		00000001	Java (see Bibliography)
000111	Application	000000000	User application specific
		to	
		111111111	
111111	proprietary table	000000000	proprietary
		to	
		111111111	

## 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 [28], RFC 1952 [29]

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

b7 b4	Description
0000	Complete EBU Latin based repertoire [2]
0001	EBU Latin based common core, Cyrillic, Greek [2]
0010	EBU Latin based core, Arabic, Hebrew, Cyrillic, Greek [2]
0011	ISO Latin Alphabet No2 (see ISO-8859-2 [30])
0100	ISO Latin Alphabet No1 (see ISO-8859-1 [8])
1111	ISO/IEC 10646 [27] (UTF-8 encoding) (see ISO/IEC 10646 [27])

# 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 _ KI
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	Not used			
31	Not used			

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 _ Cl _ 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	Not used			
31	Not used			

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	Nachrich
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	Not used			
31	Not used			

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	Not used			
31	Not used			
l				

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	Not used			
31	Not used			

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

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         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 Pop         M_Pop           11         Rock Music         Música Ligera         Música Ligera         M_Ligera           12         Easy Listening Music         Grand éxitos         Grandes _éxitos         G_éxitos           13	Decimal Number	Programme type (see table 12)	Spanish PTy	Spanish 16-character abbreviation	Spanish 8-character abbreviation
2       Current Affairs       Magazin       Magazine       Magazine         3       Information       Información       Info         4       Sport       Deportes       Deportes       Deportes         5       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 Pop       M_Pop         11       Rock Music       Música Rock       Música Ligera       M_Sock         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 Ligera       M_Ligera         14       Serious Classical       Música Clásica       Música Ligera       M_Ligera         15	0	No programme type		Ninguno	Ninguno
Information   Información   Educación   Varios   Malecación   Educación   Ed	1	News	Noticias	Noticias	Noticias
4 Sport Deportes Deportes Deportes 5 Education Educación Educación Educación 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 Musica Rock Musica Rock Musica Ligera Musica Ligera Musica Clásica 13 Light Classical Música Clásica Música Clásica Clásica 15 Other Music Otra Música Música Musica Ligera Musica Clásica Clásica 16 Weather/meteorology Información Meteorología Meteo Meterológica 17 Finance/Business Economia Economía Infancia 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 Viajes 23 Leisure Ocio Ocio Ocio 24 Jazz Music Música Pop Música Pop Musica Pop Musica Jocuntry Musica Pop Music	2	Current Affairs	Magazin	Magazine	Magazine
5 Education Educación Educación Educación Educación 6 Drama Drama Drama Drama Drama 7 Culture Cultura Cultura Cultura 8 Science Ciencia Ciencia Ciencia Ciencia 9 Varios Varios Varios Varios 10 Pop Music Música Pop Música Pop M Pop 11 Rock Music Música Rock Música Rock Música Rock M Rock 12 Easy Listening Music Grand éxitos Grandes éxitos G éxitos 13 Light Classical Música Ligera Música Ligera Música Clásica 15 Other Music Otra Música Música Música Clásica Música Clásica 16 Weather/meteorology Información Meteorología Meteo 17 Finance/Business Economia 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 Viajes 23 Leisure Ocio Música Pop Música Pop Mario Pop Mario Pop Másica Pop Música Jazz Música Jazz Música Ligera Música Jazz Música Country Música Country Country 26 National Music Música Documental Documental Documentary Documental Documental Documental Not used	3	Information	Información	Información	Info
6         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_Pop           11         Rock Music         Grand éxitos         Grandes_éxitos         G_éxitos           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_Ligera         M_Ligera           14         Serious Classical         Música Clásica         Música_Varia         M_Ligera           15         Other Music         Otra Música         Música_Varia         M_Ligera           16         Weather/meteorology         Información         Meteorología         Meteorología           17         Finance/Business         Economía         Economía </td <td>4</td> <td>Sport</td> <td>Deportes</td> <td>Deportes</td> <td>Deportes</td>	4	Sport	Deportes	Deportes	Deportes
7 Culture Cultura Cultura Cultura 8 Science Ciencia Ciencia Ciencia Ciencia 9 Varied Varios Varios Varios 10 Pop Music Música Pop Música Pop Música Pop Musica Rock M_R Pop 11 Rock Music Música Rock Música Rock M_Sciaa_Rock M_R 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 Música_Varia M_Varia 16 Weather/meteorology Información 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 Dazz Música Lourty Música Country 26 National Music Música Hosica Pocu	5	Education	Educación	Educación	Educa
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 Meteorología       Meteorología       Meteo         17       Finance/Business       Economía       Economía       Economía         18       Children's programmes       Infancia       Infancia       Infancia         19       Social Affairs       Sociedad       Sociedad       Sociedad         20       Religión       Religión       Religión         21       Phone In       Opinión       Opinión-Oyentes       Opinión         22       Travel	6	Drama	Drama	Drama	Drama
9 Varied Varios Varios Varios 10 Pop Music Música Pop Música Pop Musica Pop Musica Pop 11 Rock Music Música Rock Música Rock Musica Ligera Musica Ligera Musica Ligera Musica Clásica Clásica Clásica Clásica Other Music Otra Musica Musica Rock Rock Rock Musica Rock Rock Musica Rock Rock Rock Rock Rock Rock Rock Rock	7	Culture	Cultura	Cultura	Cultura
10	8	Science	Ciencia	Ciencia	Ciencia
11 Rock Music Música Rock Música_Rock MRock 12 Easy Listening Music Grand éxitos Grandes_éxitos Géxitos 13 Light Classical Música Ligera Música_Ligera MLigera 14 Serious Classical Música Clásica Música_Clásica Clásica 15 Other Music Otra Música Música_Varia MVaria 16 Weather/meteorology Información Meteorología Meteo 17 Finance/Business Economía Economía Infancia 18 Children's programmes Infancia Infancia Infancia 19 Social Affairs Sociedad Sociedad Sociedad 20 Religión Religión Religión Religión 21 Phone In Opinión Opinión-Oyentes Opinión 22 Travel Viajes Viajes Viajes 23 Leisure Ocio Ocio Ocio Ocio 24 Jazz Music Música Jazz Música_Jazz MJazz 25 Country Music Música Country Música_Country Country 26 National Music Música Nacional Música_Nacional Nacional 27 Oldies Music Música Folk Música_Folk MFolk 29 Documentary Documental Documental Docu 30 Not used 31 Not used	9	Varied	Varios	Varios	Varios
12       Easy Listening Music       Grand éxitos       Grandes _ éxitos       G _ éxitos         13       Light Classical       Música Ligera       Música _ Ligera       M _ Ligera         14       Serious Classical       Música Clásica       Clásica       Clásica         15       Other Music       Otra Música       Música _ Varia       M _ Varia         16       Weather/meteorology       Información Meteorología       Meteorología       Meteo         17       Finance/Business       Economía       Economía       Economía         18       Children's programmes       Infancia       Infancia       Infancia         19       Social Affairs       Sociedad       Sociedad       Sociedad         20       Religión       Religión       Religión         21       Phone In       Opinión       Opinión-Oyentes       Opinión         22       Travel       Viajes       Viajes       Viajes         23       Leisure       Ocio       Ocio       Ocio       Ocio         24       Jazz Music       Música Jazz       Música _ Jazz       M _ Jazz         25       Country Music       Música Nacional       Música _ Nacional       Nacional         27	10	Pop Music	Música Pop	Música _ Pop	M _ Pop
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 Meteorología Meteo 17 Finance/Business Economia 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 Music Música Country Música _ Country 26 National Music Música Nacional Música _ Relogion Música _ Relogion 27 Oldies Music Música de ayer Música _ Folk Musica 28 Folk Music Música Folk Música Folk Documental Docu 30 Not used 31 Not used	11	Rock Music	Música Rock	Música _ Rock	M _ Rock
14       Serious Classical       Música Clásica       Música _ Clásica       Clásica         15       Other Music       Otra Música       Música _ Varia       M _ Varia         16       Weather/meteorology       Información Meteorología       Meteo         17       Finance/Business       Economía       Economía       Economía         18       Children's programmes       Infancia       Infancia       Infancia         19       Social Affairs       Sociedad       Sociedad       Sociedad         20       Religión       Religión       Religión       Religión         21       Phone In       Opinión       Opinión-Oyentes       Opinión         22       Travel       Viajes       Viajes       Viajes         23       Leisure       Ocio       Ocio       Ocio       Ocio         24       Jazz Music       Música Jazz       Música _ Jazz       M _ Jazz         25       Country Music       Música Country       Música _ Nacional       Nacional         27       Oldies Music       Música de ayer       Música _ de _ Ayer       M _ Ayer         28       Folk Music       Música Folk       Música _ Folk       M _ Folk         29       Documenta	12	Easy Listening Music	Grand éxitos	Grandes _ éxitos	G _ éxitos
15 Other Music Otra Música Música_Varia M_Varia 16 Weather/meteorology Información Meteorología Meteo 17 Finance/Business Economia Economía Economía 18 Children's programmes Infancia Infancia Infancia 19 Social Affairs Sociedad Sociedad Sociedad 20 Religión Religión Religión Religión 21 Phone In Opinión Opinión-Oyentes Opinión 22 Travel Viajes Viajes Viajes 23 Leisure Ocio 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 27 Oldies Music Música Folk Música _ Folk M_ Folk 29 Documentary Documental Documental 30 Not used  17 Meteorología Musica Leconomía Meteorología Meteorología Misica _ Varia Meteorología Met	13	Light Classical	Música Ligera	Música _ Ligera	M _ Ligera
Meteorologia   Meteorologia   Meteorologia   Meteorologia   Meteorologia	14	Serious Classical	Música Clásica	Música _ Clásica	Clásica
Metereológica  17 Finance/Business Economia Economía Economía  18 Children's programmes Infancia Infancia Infancia  19 Social Affairs Sociedad Sociedad Sociedad  20 Religion Religión 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  26 National Music Música Nacional Música _ Nacional  27 Oldies Music Música de ayer Música _ G _ Ayer M_ Ayer  28 Folk Music Música Folk Música _ Folk M_ Folk  29 Documentary Documental Documental Docu  30 Not used	15	Other Music	Otra Música	Música _ Varia	M _ Varia
18Children's programmesInfanciaInfanciaInfancia19Social AffairsSociedadSociedadSociedad20ReligiónReligiónReligiónReligión21Phone InOpiniónOpinión-OyentesOpinión22TravelViajesViajesViajes23LeisureOcioOcioOcioOcio24Jazz MusicMúsica JazzMúsica _ JazzM Jazz25Country MusicMúsica CountryMúsica _ CountryCountry26National MusicMúsica NacionalMúsica _ NacionalNacional27Oldies MusicMúsica de ayerMúsica _ de _ AyerM _ Ayer28Folk MusicMúsica FolkMúsica _ FolkM _ Folk29DocumentaryDocumentalDocumentalDocu30Not usedNot usedDocumentalDocumental	16	Weather/meteorology		Meteorología	Meteo
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 Music 25 Country Music Música Country Música _ Country 26 National Music Música Nacional Música _ Nacional Nacional 27 Oldies Music Música de ayer Música _ Folk Music 29 Documentary Documental Documental Docu 30 Not used 31 Not used	17	Finance/Business	Economia	Economía	Economía
20ReligionReligiónReligiónReligión21Phone InOpiniónOpinión-OyentesOpinión22TravelViajesViajesViajes23LeisureOcioOcioOcio24Jazz MusicMúsica JazzMúsica _ JazzM_ Jazz25Country MusicMúsica CountryMúsica _ CountryCountry26National MusicMúsica NacionalMúsica _ NacionalNacional27Oldies MusicMúsica de ayerMúsica _ de _ AyerM _ Ayer28Folk MusicMúsica FolkMúsica _ FolkM _ Folk29DocumentaryDocumentalDocumentalDocu30Not usedJocumentalDocumentalDocumental31Not usedJocumentalDocumental	18	Children's programmes	Infancia	Infancia	Infancia
21       Phone In       Opinión       Opinión-Oyentes       Opinión         22       Travel       Viajes       Viajes       Viajes         23       Leisure       Ocio       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       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       Documental         30       Not used         31       Not used	19	Social Affairs	Sociedad	Sociedad	Sociedad
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     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     Not used     Not used       31     Not used	20	Religion	Religión	Religión	Religión
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       Not used       31       Not used	21	Phone In	Opinión	Opinión-Oyentes	Opinión
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     Documental       30     Not used     Not used	22	Travel	Viajes	Viajes	Viajes
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 Musica _ Folk Documentary Documental Documental Docu 30 Not used 31 Not used	23	Leisure	Ocio	Ocio	Ocio
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     Documental       30     Not used       31     Not used	24	Jazz Music	Música Jazz	Música _ Jazz	M _ Jazz
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 Not used  31 Not used	25	Country Music	Música Country	Música _ Country	Country
28     Folk Music     Música Folk     Música _ Folk     M _ Folk       29     Documentary     Documental     Documental     Documental       30     Not used     31     Not used	26	National Music	Música Nacional	Música _ Nacional	Nacional
29     Documentary     Documental     Documental       30     Not used       31     Not used	27	Oldies Music	Música de ayer	Música _ de _ Ayer	M _ Ayer
30 Not used 31 Not used 31	28	Folk Music	Música Folk	Música _ Folk	M _ Folk
31 Not used	29	Documentary	Documental	Documental	Docu
	30	Not used			
NOTE 4 TI: 4 II 6 4 4 60 I 4 6 1 TI II II 60 10000 0004// I F EN II 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	Vetenskp
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	Väderraporter	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	Not used			
31	Not used			

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 _ määritelty	Ei _ määr.
1	News		Uutiset	Uutiset
2	Current Affairs		Ajankohtaista	Ajankoht
3	Information		Tiedotuksia	Tiedoksi
4	Sport		Urheilu	Urheilu
5	Education		Opetus	Opetus
6	Drama		Kuunnelma	Kuunn.
7	Culture		Kulttuuri	Kultt.
8	Science		Tiede	Tiede
9	Varied		Puheviihde	P-viihde
10	Pop Music		Pop	Рор
11	Rock Music		Rock	Rock
12	Easy Listening Music		Kevyt _ musiikki	Kevyttä
13	Light Classical		Kevyt _ klassinen	K klass
14	Serious Classical		Klassinen	Klass.
15	Other Music		Muu _ musiikki	Muu _ mus.
16	Weather/meteorology		Säätiedotus	Sää
17	Finance/Business		Talousohjelma	Talous
18	Children's programmes		Lastenohjelma	Lapsille
19	Social Affairs		Yhteiskunta	Yhtkunta
20	Religion		Uskonto	Uskonto
21	Phone In		Yleisökontakti	Kontakti
22	Travel		Matkailu	Matkailu
23	Leisure		Vapaa-aika	Vap.aika
24	Jazz Music		Jazz	Jazz
25	Country Music		Country	Country
26	National Music		Kotim musiikki	Kotim.
27	Oldies Music		Oldies	Oldies
28	Folk Music		Kansanmusiikki	Kansanm.
29	Documentary		Dokumentti	Dokum.
30	Not used			
31	Not used			

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
	The notation _ is used to indicate the	use of the "space" characte	<u>.</u> r.

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

Announcement type  – see tables 14 and 15	Spanish 16-character abbreviation	Spanish 8-character abbreviation
Alarm	Alarma	Alarma
Road Traffic flash	Info _ Tráfico	Tráfico
Transport flash	Info _ Viaje	Viaje
Warning/Service	Aviso	Aviso
News flash	Noticias	Noticias
Area weather flash	Meteorología	Meteo
Event announcement	Suceso	Suceso
Special event	Suceso _ Especial	Especial
Programme Information	InformacionRadio	InfRadio
Sport report	Deportes	Deportes
Financial report	Economía	Economía
Reserved for future definition	tba	tba
Reserved for future definition	tba	tba
Reserved for future definition	tba	tba
Reserved for future definition	tba	tba
Reserved for future definition	tba	tba
	- see tables 14 and 15  Alarm  Road Traffic flash  Transport flash  Warning/Service  News flash  Area weather flash  Event announcement  Special event  Programme Information  Sport report  Financial report  Reserved for future definition  Reserved for future definition  Reserved for future definition	- see tables 14 and 15  Alarm  Road Traffic flash  Transport flash  Warning/Service  News flash  Area weather flash  Event announcement  Special event  Programme Information  Sport report  Financial report  Reserved for future definition  Reserved for future definition  Alarma  Aviso  Noticias  Noticias  Area weather flash  Meteorología  Event Suceso  Especial  InformacionRadio  Sport report  Deportes  Financial report  Economía  Reserved for future definition  tba  Reserved for future definition

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

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>		HÄLYTYS	HÄLYTYS
b <sub>1</sub>		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:						

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 2: 1	NOTE 1: The notation _ is used to indicate the use of the "space" character.				

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

# Annex C (informative): Bibliography

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