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8 [[]HJbc`ca fYy`Y`n`]bH[f]fUb]a]gHcf]h] Ua]fEG8 BL`E`G][bU]nUWY`U`yH`+`E` ; `Uj b] gYnbUa `cX]fb] `lc _

Integrated Services Digital Network (ISDN); Signalling System No.7; Master list of codepoints

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ETSI Guide

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Foreword

This ETSI Guide (EG) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

Introduction

The tables are intended to record all known assigned addressing codes. Where a particular ETSI member is shown to have assigned a code or codes this should not be taken to mean that the codes are unavailable for standardization, but to allow a reasoned choice to be made before assigning codes for new services. In future all newly assigned codes will be recorded in the present document rather than the relevant ETSI MTP and SCCP specifications. Thus if referenced by these specifications then the information shall be considered normative.

Some of the SCCP material in the present document is based on ITU-T Recommendation Q.715 [1] which is a very valuable source of additional information and should be considered as a complement to the present document.

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1 Scope

The present document is intended for use by designers of MTP/SCCP applications as well as by network operators configuring those applications to help facilitate MTP/SCCP interconnect between ETSI member networks.

In addition to information of an advisory nature, all known standardized SCCP message address codes and MTP SI codes are also listed.

2 References

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, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, subsequent revisions do apply.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- [1] ITU-T Recommendation Q.715: "Signalling connection control part user guide".
- [2] ITU-T Recommendation Q.713: "Signalling Connection Control Part formats and codes".
- [3] ETSI GSM 03.03: "Digital cellular telecommunications system (Phase 2+); Numbering, addressing and identification (GSM 03.03)".
- [4] ETSI GSM 08.06: "Digital cellular telecommunications system (Phase 2+); Signalling transport mechanism specification for the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.06 version 5.3.0 Release 1996)".
- [5] ETSI GSM 03.66: "Digital cellular telecommunications system (Phase 2+); Support of Mobile Number Portability (MNP); Stage 2 (GSM 03.66 version 7.1.0 Release 1998)".
- [6] ITU-T Recommendation Q.704: "Signalling network functions and messages".
- [7] ITU-T Recommendation Q.701: "Functional description of the message transfer part (MTP) of Signalling System No. 7".
- [8] ITU-T Recommendation Q.703: "Signalling link".
- [9] ITU-T Recommendation Q.2210: "Message transfer part level 3 functions and messages using the services of ITU-T Recommendation Q.2140".
- [10] ITU-T Recommendation E.210: "Ship station identification for VHF/UHF and maritime mobile-satellite services".
- [11] ITU-T Recommendation E.211: "Selection procedures for VHF/UHF maritime mobile services".
- [12] ITU-T Recommendation E.212: "The international identification plan for mobile terminals and mobile users".
- [13] ITU-T Recommendation E.214: "Structure of the land mobile global title for the signalling connection control part (SCCP)".
- [14] ITU-T Recommendation E.733: "Methods for dimensioning resources in Signalling System No. 7 networks".

- [15] ITU-T Recommendation F.69: "The international telex service – Service and operational provisions of telex destination codes and telex network identification codes".
- [16] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
- [17] ITU-T Recommendation X.121: "International numbering plan for public data networks".

3 Definitions and abbreviations

3.1 Definitions

The definitions of the MTP/SCCP recommendations referenced in clause 2 apply.

3.2 Abbreviations

DPC	Destination Point Code
GT	Global Title
MTP	Message Transfer Part
RI	Routing Indicator
SCCP	Signalling Connection Control Part
SI	Service Indicator
SSN	Sub System Number
TC	Transaction Capability
UDTS	Unit Data Service
UHF	Ultra-High Frequency
VHF	Very High Frequency

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4 SCCP address code allocations

In general the rules of ITU-T Recommendation Q.713 [2] should apply to ensure ease of interworking SCCP between both ETSI and non-ETSI-member networks. Addressing codes not standardized within ITU-T may be exchanged subject to agreement of all concerned operators. Address codes for the support of services not standardized in ITU-T but agreed within ETSI are recorded in the present document in a similar way to ITU-T Recommendation Q.713 [2], annex B, where appropriate.

4.1 SSN

Table 1

Decimal Value	Bits 8 7 6 5 4 3 2 1	Meaning	Assignment	
0	0 0 0 0 0 0 0 0	SSN not known/not used	ITU-T	
1	0 0 0 0 0 0 0 1	SCCP management	ITU-T	
2	0 0 0 0 0 0 1 0	reserved for ITU-T-T allocation	ITU-T	
3	0 0 0 0 0 0 1 1	ISDN user part	ITU-T	
4	0 0 0 0 0 1 0 0	OMAP	ITU-T	
5	0 0 0 0 0 1 0 1	MAP (mobile application part)	ITU-T	
6	0 0 0 0 0 1 1 0	HLR (home location register)	ITU-T	
7	0 0 0 0 0 1 1 1	VLR (visitor location register)	ITU-T	
8	0 0 0 0 1 0 0 0	MSC (mobile switching centre)	ITU-T	
9	0 0 0 0 1 0 0 1	EIC (equipment identifier centre)	ITU-T	
10	0 0 0 0 1 0 1 0	AUC (authentication centre)	ITU-T	
11	0 0 0 0 1 0 1 1	ISDN supplementary services	ITU-T	
12	0 0 0 0 1 1 0 0	INAP	ETSI	
13	0 0 0 0 1 1 0 1	broadband ISDN edge-to-edge	ITU-T	
14	0 0 0 0 1 1 1 0	TC test responder	ITU-T	
15	0 0 0 0 1 1 1 1	} Reserved for international use	ITU-T	
31	0 0 0 1 1 1 1 1			
32	0 0 1 0 0 0 0 0	} Reserved for ETSI allocation	GSM	
147	1 0 0 1 0 0 1 1			ETSI GSM 03.03 [3]
148	1 0 0 1 0 1 0 0			ETSI GSM 03.03 [3]
149	1 0 0 1 0 1 0 1			ETSI GSM 03.03 [3]
150	1 0 0 1 0 1 1 0			ETSI GSM 03.03 [3]
151	1 0 0 1 0 1 1 1	} Reserved for national network use	ETSI	
252	1 1 1 1 1 1 0 0			
253	1 1 1 1 1 1 0 1	O&M(BSS)	ETSI GSM 08.06 [4]	
254	1 1 1 1 1 1 1 0	BSSAP	ETSI GSM 08.06 [4]	
255	1 1 1 1 1 1 1 1	Reserved for expansion	ITU-T	

NOTE 1: Network specific subsystem numbers should be assigned in descending order starting with "11111110".

NOTE 2: Code values 32 to 254 inclusive are "reserved for national networks" by ITU-T.

4.2 Translation type

Table 2

Decimal value	Encoding Bits 8 7 6 5 4 3 2 1	Meaning	Assignment
0	0 0 0 0 0 0 0 0	Unknown	ITU-T
1	0 0 0 0 0 0 0 1	ITCC Service	ITU-T
2	0 0 0 0 0 0 1 0	"Generic" Numbering Plan	ITU-T
3	0 0 0 0 0 0 1 1	Broad-Band Edge-to-Edge	ITU-T
4	0 0 0 0 0 1 0 0	} Reserved for international services	ITU-T
16	to 0 0 0 1 0 0 0 0		
17	0 0 0 1 0 0 0 1	CCBS Supplementary Service	ITU-T
18	0 0 0 1 0 0 1 0	} Reserved for international services	ITU-T
63	to 0 0 1 1 1 1 1 1		
64	0 1 0 0 0 0 0 0	} Spare	ITU-T
127	to 0 1 1 1 1 1 1 1		
128	1 0 0 0 0 0 0 0	Mobile number portability "call related" message (tbc)	ETSI GSM 03.66 [5]
150	to 1 0 0 1 0 1 1 0	} Reserved for ETSI allocation	ETSI
151	1 0 0 1 0 1 1 1	} Reserved for national network use	ETSI
254	to 1 1 1 1 1 1 1 0		
255	1 1 1 1 1 1 1 1	Reserved for expansion	ITU-T
NOTE:	Code values 128 to 254 inclusive are "national network specific" - ITU-T.		

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4.3 Numbering Plan

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Table 3

Decimal value	Encoding Bits 4 3 2 1	Meaning	Assignment
0	0 0 0 0	unknown	ITU-T
1	0 0 0 1	ISDN/telephony numbering plan (ITU-T Recommendation E.164 [16])	ITU-T
2	0 0 1 0	generic numbering plan	ITU-T
3	0 0 1 1	data numbering plan (ITU-T Recommendation X.121 [17])	ITU-T
4	0 1 0 0	telex numbering plan (ITU-T Recommendation F.69 [15])	ITU-T
5	0 1 0 1	maritime mobile numbering plan (ITU-T Recommendations E.210 [10] and E.211 [11])	ITU-T
6	0 1 1 0	land mobile numbering plan (ITU-T Recommendation E.212 [12])	ITU-T
7	0 1 1 1	ISDN/mobile numbering plan (ITU-T Recommendation E.214 [13])	ITU-T
8	1 0 0 0	spare	
9	1 0 0 1	spare	
10	1 0 1 0	in use	UK
11	1 0 1 1	in use	UK
12	1 1 0 0	spare	
13	1 1 0 1	spare	
14	1 1 1 0	private network or network-specific numbering plan	ITU-T
15	1 1 1 1	reserved	ITU-T

4.4 Encoding scheme

Table 4

Decimal value	Encoding Bits 4 3 2 1	Meaning	Assignment
0	0 0 0 0	unknown	ITU-T
1	0 0 0 1	BCD, odd number of digits	ITU-T
2	0 0 1 0	BCD, even number of digits	ITU-T
3	0 0 1 1	national specific	ITU-T
4	0 1 0 0	} spare	
14	1 1 1 0		
15	1 1 1 1	reserved	ITU-T

4.5 Nature of Address Indicator

Table 5

Decimal value	Encoding Bits 7 6 5 4 3 2 1	Meaning	Assignment
0	0 0 0 0 0 0 0	Unknown	ITU-T
1	0 0 0 0 0 0 1	Subscriber Number	ITU-T
2	0 0 0 0 0 1 0	Reserved for national use	ITU-T
3	0 0 0 0 0 1 1	National Significant Number	ITU-T
4	0 0 0 0 1 0 0	International Number	ITU-T
5	0 0 0 0 1 0 1	} spare	
111	1 1 0 1 1 1 1		
112	1 1 1 0 0 0 0	Reserved for ETSI allocation	ETSI
120	1 1 1 1 0 0 0	} Reserved for national network use	ETSI
121	1 1 1 1 0 0 1		
125	1 1 1 1 1 0 1		
126	1 1 1 1 1 1 0		
127	1 1 1 1 1 1 1	UK Specific Address	UK (provisional)
		reserved	ITU-T
NOTE:	Code values 112 to 126 inclusive are "national network specific" - ITU-T.		