



SLOVENSKI STANDARD

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Digitalno omrežje z integriranimi storitvami (ISDN) - Protokol digitalne naročniške signalizacije št. 1 (DSS1) - Glavni seznam kodnih zapisov in operacijskih vrednosti

Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Master list of codepoints and operation values

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33.080

Digitalno omrežje z
integriranimi storitvami
(ISDN)

Integrated Services Digital
Network (ISDN)

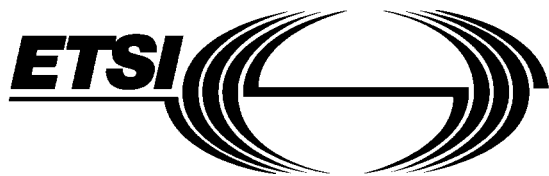
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Contents

Foreword	5
1 Scope	7
2 References	7
3 Definitions	9
4 Abbreviations	9
5 DSS1 message codepoints	10
6 DSS1 information element codepoints	12
6.1 Codeset 0	12
6.2 Codeset 5	14
7 Notifications	15
7.1 Notification indicator values	15
7.2 Notification indicators defined by global value	16
8 Progress indicator values	16
9 State values	17
10 Operations	18
10.1 Operations defined by local value	18
10.2 Operations defined by global value	20
11 Errors	22
11.1 Errors defined by local value	22
11.2 Errors defined by global value	24
12 Contents of messages	24
History	29

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Foreword

This ETSI Technical Report (ETR) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

ETRs are informative documents resulting from ETSI studies which are not appropriate for European Telecommunication Standard (ETS) or Interim European Telecommunication Standard (I-ETS) status. An ETR may be used to publish material which is either of an informative nature, relating to the use or the application of ETSs or I-ETSs, or which is immature and not yet suitable for formal adoption as an ETS or an I-ETS.

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1 Scope

This ETSI Technical Report (ETR) provides an overview of the codepoints used by the Digital Subscriber Signalling System No. one (DSS1) protocol for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [3]).

This overview is related to messages, information elements, notification indicator values, progress indicator values, state values, operation and error values which are used for basic call, packet mode call, and supplementary services specified so far by ETSI. In addition, the operations and errors identified by an ETSI object identifier is included in a separate table.

All codepoints currently specified either by ETSI or ITU-T are shown in the following tables. When a codepoint is specified for use in networks conforming to an ETSI standard, a reference is included in the table to indicate the ETS where the particular codepoint is defined.

Other codepoint values are indicated by the note: "Not applicable in networks conforming to ETSI standards". This note applies to values which are used in ITU-T Recommendations, but are not currently specified for use by ETSI in any ETS.

Clause 12 of this ETR shows the relationship between messages and the information elements that each message may carry. The purpose of tables 12 to 15 is only to provide an overview of possible message contents but it does not indicate which information element or combinations of information elements are present in a particular message for a specific purpose (e.g. basic call, a certain supplementary service).

2 References

This ETR incorporates by dated or undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETR only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [2] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [3] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - reference configurations".
- [4] ETS 300 007 (1990): "Integrated Services Digital Network (ISDN); Support of packet-mode terminal equipment by an ISDN".
- [5] ETS 300 058-1 (1991): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [6] ETS 300 097-1 (1992): "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [7] ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specification for basic call control".

- [8] ETS 300 130-1 (1992): "Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [9] ETS 300 138-1 (1992): "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [10] ETS 300 141-1 (1992): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [11] ETS 300 182-1 (1993): "Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [12] ETS 300 185-1 (1993): "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [13] ETS 300 188-1 (1993): "Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [14] ETS 300 195-1 (1995): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [15] ETS 300 196-1 (1993): "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [16] ETS 300 207-1 (1994): "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [17] ETS 300 210-1: "Integrated Services Digital Network (ISDN); Freephone (FPH) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [18] ETS 300 286-1: "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [19] ETS 300 359-1 (1995): "Integrated Services Digital Network (ISDN); Completion of Calls to Busy Subscriber (CCBS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [20] ETS 300 362 (1994): "Private Telecommunication Network (PTN); Inter-exchange signalling protocol; Call offer supplementary service".
- [21] ETS 300 364 (1994): "Private Telecommunication Network (PTN); Inter-exchange signalling protocol; Do not disturb and do not disturb override supplementary services".

- [22] ETS 300 369-1 (1995): "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [23] ETS 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [24] ETS 300 426 (1995): "Private Telecommunication Network (PTN); Inter-exchange signalling protocol; Call intrusion supplementary service".

3 Definitions

For the purposes of this ETR, the following definitions apply:

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [1], definition 308.

service; telecommunication service: See ITU-T Recommendation I.112 [1], definition 201.

supplementary service: See ITU-T Recommendation I.210 [2], subclause 2.4.

user: The DSS1 protocol entity at the user side of the user-network interface.

network: The DSS1 protocol entity at the network side of the user-network interface.

4 Abbreviations

For the purposes of this ETR, the following abbreviations apply:

3PTY	Three-Party
AOC	Advice of Charge
ASN.1	Abstract Syntax Notation One
BER	Basic Encoding Rules
CCBS	Completion of Calls to Busy Subscriber
COLP	Connected Line Identification Presentation
CONF	Conference call, add-on
CUG	Closed User Group
CW	Call Waiting
DSS1	Digital Subscriber Signalling System No. one
ECT	Explicit Call Transfer
FPH	Freephone
HOLD	Call Hold
ISDN	Integrated Services Digital Network
MCID	Malicious Call Identification
PSTN	Public Switched Telephone Network
UUS	User-to-User Signalling

5 DSS1 message codepoints

The DSS1 messages and their associated codepoints are shown in table 1. The reference indicates the ETS that contains the message definition.

Table 1: DSS1 message codepoints

Message type Bit								Message	Reference
8	7	6	5	4	3	2	1		
0	0	0	0	0	0	0	0	Escape to nationally specific message type	ETS 300 102-1 [7], ETS 300 403-1 [23]
0	0	0	-	-	-	-	-	<u>Call establishment messages</u>	
			0	0	0	0	1	ALERTING	ETS 300 102-1 [7], ETS 300 007 [4], ETS 300 403-1 [23]
			0	0	0	1	0	CALL PROCEEDING	ETS 300 102-1 [7], ETS 300 007 [4], ETS 300 403-1 [23]
			0	0	0	1	1	PROGRESS	ETS 300 102-1 [7], ETS 300 007 [4], ETS 300 403-1 [23]
			0	0	1	0	1	SETUP	ETS 300 102-1 [7], ETS 300 007 [4], ETS 300 403-1 [23]
			0	0	1	1	1	CONNECT	ETS 300 102-1 [7], ETS 300 007 [4], ETS 300 403-1 [23]
			0	1	1	1	1	CONNECT ACKNOWLEDGE	ETS 300 102-1 [7], ETS 300 007 [4], ETS 300 403-1 [23]
			0	1	1	0	1	SETUP ACKNOWLEDGE	ETS 300 102-1 [7], ETS 300 403-1 [23]
0	0	1	-	-	-	-	-	<u>Call information phase messages</u>	
			0	0	0	0	0	USER INFORMATION	ETS 300 102-1 [7], ETS 300 286-1 [18]
			0	0	0	0	1	SUSPEND REJECT	ETS 300 102-1 [7], ETS 300 403-1 [23]
			0	0	0	1	0	RESUME REJECT	ETS 300 102-1 [7], ETS 300 403-1 [23]
			0	0	1	0	0	HOLD	ETS 300 196-1 [15]
			0	0	1	0	1	SUSPEND	ETS 300 102-1 [7], ETS 300 403-1 [23]
			0	0	1	1	0	RESUME	ETS 300 102-1 [7], ETS 300 403-1 [23]
			0	1	0	0	0	HOLD ACKNOWLEDGE	ETS 300 196-1 [15]
			0	1	1	0	1	SUSPEND ACKNOWLEDGE	ETS 300 102-1 [7], ETS 300 403-1 [23]
			0	1	1	1	0	RESUME ACKNOWLEDGE	ETS 300 102-1 [7], ETS 300 403-1 [23]
			1	0	0	0	0	HOLD REJECT	ETS 300 196-1 [15]
			1	0	0	0	1	RETRIEVE	ETS 300 196-1 [15]
			1	0	0	1	1	RETRIEVE ACKNOWLEDGE	ETS 300 196-1 [15]
			1	0	1	1	1	RETRIEVE REJECT	ETS 300 196-1 [15]

(continued)