



**SLOVENSKI STANDARD**  
**PSIST EG 201 189:2000**  
**01-april-2000**

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8 [[ ]HJbc`ca fYy`Y`n`]bhY[ f]fUb]a ]`g]c]f]h]j Ua ]`f]G8 B!`Df]c]c`\_c`X]] ]HJbY`bU]c b]y`\_Y  
g]] bU]nUW`Y`yH`r`%fB GG`%L!`; `Uj b]gYnbUa `cX]f]b]`lc `\_]b`cVfU]c]j U]b]`j fYXbcg]h]

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

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*ETSI Guide*

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

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## Foreword

This ETSI Guide (EG) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

An ETSI Guide (EG) is an ETSI deliverable, containing informative elements, adopted for publication by the ETSI membership.

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# 1 Scope

The present document 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, protocol discriminator values, 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 specification, a reference is included in the table to indicate the ETSI specification where the particular codepoint is defined.

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

Clause 12 of the present document shows the relationship between messages and the information elements that each message may carry. Tables 13 to 16 only provide an overview of possible message contents but do 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).

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# 2 References

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

[PSIST EG 201 189:2000](https://standards.itech.ai/catalog/standards/sist/edc5a99a-7c61-4eb2-8bd5-091803cccd1b/psist-eg-201-189-2000)

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- 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, the latest version applies.
- 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 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 - references configurations".
- [4] ITU-T Recommendation X.25 (1993): "Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit".
- [5] ETS 300 007 (1991): "Integrated Services Digital Network (ISDN); Support of packet-mode terminal equipment by an ISDN".
- [6] EN 300 058-1 (V1.2): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [7] EN 300 097-1 (V1.2): "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

- [8] EN 300 130-1 (V1.2): "Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [9] EN 300 138-1 (V1.3): "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [10] EN 300 141-1 (V1.2): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [11] EN 300 182-1 (V1.2): "Integrated Services Digital Network (ISDN); Advice of Charge (AOC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [12] EN 300 185-1 (V1.2): "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] EN 300 188-1 (V1.2): "Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [14] EN 300 195-1 (V1.4): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [15] EN 300 196-1 (V1.2): "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] EN 300 207-1 (V1.2): "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [17] EN 300 210-1 (V1.2): "Integrated Services Digital Network (ISDN); Freephone (FPH) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [18] EN 300 286-1 (V1.2): "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] EN 300 324-1: "V interfaces at the digital Local Exchange (LE); V5.1 interface for the support of Access Network (AN); Part 1: V5.1 interface specification".
- [20] EN 300 347-1: "V interfaces at the digital Local Exchange (LE); V5.2 interface for the support of Access Network (AN); Part 1: V5.2 interface specification".
- [21] EN 300 359-1 (V1.2): "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".
- [22] EN 300 362 (V1.2): "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Call offer supplementary service [ISO/IEC-14843 (1996), modified]".
- [23] ETS 300 364 (1994): "Private Telecommunication Network (PTN); Inter-exchange signalling protocol; Do not disturb and do not disturb override ECMA-QSIG-DND(O) supplementary services".
- [24] EN 300 369-1 (V1.2): "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".



- [25] EN 300 403-1 (V1.2): "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]".
- [26] EN 300 426 (V1.2): "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Call intrusion supplementary service [ISO/IEC 14846 (1996), modified]".
- [27] EN 300 443-1 (V1.3): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2); B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995); modified]".
- [28] EN 300 745-1 (V1.2): "Integrated Services Digital Network (ISDN); Message Waiting Indication (MWI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [29] EN 301 001-1 (V1.2): "Integrated Services Digital Network (ISDN); Outgoing Call Barring (OCB) supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [30] EN 301 005-1 (V1.1): "V interfaces at the digital Service Node (SN); Interfaces at the VB5.1 reference point for the support of broadband or combined narrowband and broadband Access Networks (ANs); Part 1: Interface specification".
- [31] EN 301 060-1 (V1.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Basic call control: Enhancements at the "b" service entry point for Virtual Private Network (VPN) applications; Part 1: Protocol specification".
- [32] EN 301 061-1 (V1.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Generic functional protocol for the support of supplementary services for Virtual Private Network (VPN) applications: Part 1: Protocol specification".
- [33] EN 301 065-1 (V1.2): "Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [34] EN 301 142-1 (V1.1): "Integrated Services Digital Network (ISDN); User Signalling Bearer Service (USBS); Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [35] EN 301 144-1 (V1.1): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol and Signalling System No. 7 (SS7) protocol; Signalling application for the mobility management service on the alpha interface; Part 1: Protocol specification".
- [36] EN 302 094-1 (V1.1): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol and Signalling System No. seven (SS7) protocol; Call Forwarding on Not Reachable (CFNRc) supplementary service for Cordless Terminal Mobility (CTM) phase 1; Part 1: Protocol specification".

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

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

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

**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.

### 3.2 Abbreviations

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

3PTY	Three-Party
ASN.1	Abstract Syntax Notation one
BER	Basic Encoding Rules
CCBS	Completion of Calls to Busy Subscriber
CCNR	Completion of Calls on No Reply
CFNRc	Call Forwarding on Not Reachable
CONF	Conference call, add-on
CUG	Closed User Group
DSS1	Digital Subscriber Signalling System No. one
ECT	Explicit Call Transfer
FPH	Freephone
HOLD	Call Hold
ISDN	Integrated Services Digital Network
MWI	Message Waiting Indication
OCB	Outgoing Call Barring
SCF	Selective Call Forwarding
USBS	User Signalling Bearer Service
UUS	User-to-User Signalling

## 4 DSS1 message codepoints

The DSS1 messages and their associated codepoints are shown in table 1. The reference indicates the ETSI specification 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	EN 300 403-1 [25]
0	0	0	-	-	-	-	-	<b>Call establishment messages</b>	
			0	0	0	0	1	ALERTING	ETS 300 007 [5], EN 300 403-1 [25]
			0	0	0	1	0	CALL PROCEEDING	ETS 300 007 [5], EN 300 403-1 [25]
			0	0	0	1	1	PROGRESS	ETS 300 007 [5], EN 300 403-1 [25]
			0	0	1	0	1	SETUP	ETS 300 007 [5], EN 300 403-1 [25]
			0	0	1	1	1	CONNECT	ETS 300 007 [5], EN 300 403-1 [25]
			0	1	1	1	1	CONNECT ACKNOWLEDGE	ETS 300 007 [5], EN 300 403-1 [25]
			0	1	1	0	1	SETUP ACKNOWLEDGE	EN 300 403-1 [25]
0	0	1	-	-	-	-	-	<b>Call information phase messages</b>	
			0	0	0	0	0	USER INFORMATION	EN 300 286-1 [18]
			0	0	0	0	1	SUSPEND REJECT	EN 300 403-1 [25]
			0	0	0	1	0	RESUME REJECT	EN 300 403-1 [25]
			0	0	1	0	0	HOLD	EN 300 196-1 [15]
			0	0	1	0	1	SUSPEND	EN 300 403-1 [25]
			0	0	1	1	0	RESUME	EN 300 403-1 [25]
			0	1	0	0	0	HOLD ACKNOWLEDGE	EN 300 196-1 [15]
			0	1	1	0	1	SUSPEND ACKNOWLEDGE	EN 300 403-1 [25]
			0	1	1	1	0	RESUME ACKNOWLEDGE	EN 300 403-1 [25]
			1	0	0	0	0	HOLD REJECT	EN 300 196-1 [15]
			1	0	0	0	1	RETRIEVE	EN 300 196-1 [15]
			1	0	0	1	1	RETRIEVE ACKNOWLEDGE	EN 300 196-1 [15]
			1	0	1	1	1	RETRIEVE REJECT	EN 300 196-1 [15]
0	1	0	-	-	-	-	-	<b>Call clearing messages</b>	
			0	0	0	0	0	DETACH	(note)
			0	0	1	0	1	DISCONNECT	ETS 300 007 [5], EN 300 403-1 [25]
			0	0	1	1	0	RESTART	EN 300 403-1 [25]
			0	1	0	0	0	DETACH ACKNOWLEDGE	(note)
			0	1	1	0	1	RELEASE	ETS 300 007 [5], EN 300 196-1 [15], EN 300 403-1 [25]
			0	1	1	1	0	RESTART ACKNOWLEDGE	EN 300 403-1 [25]
			1	1	0	1	0	RELEASE COMPLETE	ETS 300 007 [5], EN 300 196-1 [15], EN 300 403-1 [25]

Message type								Message	Reference
8	7	6	5	4	3	2	1		
0	1	1	-	-	-	-	-	<b>Miscellaneous messages</b>	
			0	0	0	0	0	SEGMENT	EN 300 403-1 [25]
			0	0	0	1	0	FACILITY	EN 300 196-1 [15]
			0	0	1	0	0	REGISTER	EN 300 196-1 [15]
			0	1	1	1	0	NOTIFY	EN 300 196-1 [15], EN 300 403-1 [25]
			1	0	1	0	1	STATUS ENQUIRY	ETS 300 007 [5], EN 300 196-1 [15], EN 300 403-1 [25]
			1	1	0	0	1	CONGESTION CONTROL	EN 300 286-1 [18]
			1	1	0	1	1	INFORMATION	EN 300 403-1 [25]
			1	1	1	0	1	STATUS	ETS 300 007 [5], EN 300 196-1 [15], EN 300 403-1 [25]

NOTE: This message codepoint is obsolete, but the value is reserved for reasons of backwards compatibility.

## 5 DSS1 information element codepoints

### 5.1 Codeset 0

The DSS1 information elements and their associated codepoints which are defined in codeset 0 are shown in table 2. The reference indicates the ETSI specification that contains the information element definition.

Table 2: DSS1 information element codepoints

Information element identifier								Information element	Reference
8	7	6	5	4	3	2	1		
1	:	:	:	-	-	-	-	<b>Single octet information elements</b>	
	0	0	0	-	-	-	-	Reserved	EN 300 403-1 [25]
	0	0	1	-	-	-	-	Shift	EN 300 403-1 [25]
	0	1	0	0	0	0	0	More data	EN 300 286-1 [18]
	0	1	0	0	0	0	1	Sending complete	EN 300 403-1 [25]
	0	1	1	-	-	-	-	Congestion level	EN 300 286-1 [18]
	1	0	1	-	-	-	-	Repeat indicator	(note)
0	:	:	:	:	:	:	:	<b>Variable length information elements</b>	
	0	0	0	0	0	0	0	Segmented message	EN 300 403-1 [25]
	0	0	0	0	1	0	0	Bearer capability	EN 300 403-1 [25]
	0	0	0	0	1	0	1	VPN indicator	EN 301 060-1 [31]
	0	0	0	1	0	0	0	Cause	EN 300 403-1 [25]
	0	0	0	1	1	0	1	Extended facility	EN 300 196-1 [15]
	0	0	1	0	0	0	0	Call identity	EN 300 403-1 [25]
	0	0	1	0	1	0	0	Call state	EN 300 196-1 [15], EN 300 403-1 [25]
	0	0	1	1	0	0	0	Channel identification	EN 300 403-1 [25]
	0	0	1	1	1	0	0	Facility	EN 300 196-1 [15]
	0	0	1	1	1	1	0	Progress indicator	EN 300 403-1 [25]
	0	1	0	0	0	0	0	Network-specific facilities	EN 300 403-1 [25]
	0	1	0	0	1	1	1	Notification indicator	EN 300 196-1 [15], EN 300 403-1 [25]