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Digitalno omrežje z integriranimi storitvami (ISDN) - Protokol digitalne naročniške signalizacije št. 1 (DSS1) - Medsebojno vplivanje dopolnilnih storitev - 1. del: Specifikacija protokola

Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 1 of a multi-part deliverable covering the Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol, as identified below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";

Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

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The present document is an extended and updated version of ETS 300 195-1 (1995) to cover the additional supplementary services Message Waiting Indication (MWI), Outgoing Call Barring (OCB), Completion of Calls on No Reply (CCNR) and Selective Call Forwarding (SCF).

National transposition dates	
Date of adoption of this EN:	8 June 2001
Date of latest announcement of this EN (doa):	30 September 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 2002
Date of withdrawal of any conflicting National Standard (dow):	31 March 2002

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1 Scope

The present document specifies the stage three of the supplementary service interactions 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 [32]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunication service (see ITU-T Recommendation I.130 [29]).

The present document specifies the interactions between the Advice of Charge (AOC), Completion of Calls to Busy Subscriber (CCBS), Completion of Calls on No Reply (CCNR), Call Deflection (CD), Call Forwarding Busy (CFB), Call Forwarding No Reply (CFNR), Call Forwarding Unconditional (CFU), Calling Line Identification Presentation (CLIP), Calling Line Identification Restriction (CLIR), Connected Line Identification Presentation (COLP), Connected Line Identification Restriction (COLR), Conference call, add-on (CONF), Explicit Call Transfer (ECT), Closed User Group (CUG), Call Waiting (CW), Direct Dialling In (DDI), Freephone (FPH), Call Hold (HOLD), Line Hunting, Malicious Call Identification (MCID), Multiple Subscriber Number (MSN), Message Waiting Indication (MWI), Outgoing Call Barring (OCB), Remote Control, Selective Call Forwarding (SCF), Sub-addressing (SUB), Terminal Portability (TP), User-to-User Signalling (UUS) and Three-Party (3PTY) supplementary services.

In addition, the present document specifies the protocol requirements at the T reference point where the supplementary services are provided to the user via a private ISDN.

The present document does not specify the additional protocol requirements where the supplementary services are provided to the user via a telecommunications network that is not an ISDN.

The protocol for individual supplementary services is specified in other ENs:

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AOC	EN 300 182-1 [13];
CCBS	EN 300 359-1 [20];
CCNR	EN 301 065-1 [26];
CLIP	EN 300 092-1 [6];
CLIR	EN 300 093-1 [7];
COLP	EN 300 097-1 [8];
COLR	EN 300 098-1 [9];
CONF	EN 300 185-1 [14];
ECT	EN 300 369-1 [21];
CUG	EN 300 138-1 [11];
CW	EN 300 058-1 [3];
DDI	EN 300 064-1 [5];
FPH	EN 300 210-1 [18];
HOLD	EN 300 141-1 [12];
LH	EN 301 484-1 [36];
MCID	EN 300 130-1 [10];
MSN	EN 300 052-1 [1];
MWI	EN 300 745-1 [24];
OCB	EN 301 001-1 [25];
RC	EN 301 799-1 [35];
SUB	EN 300 061-1 [4];
TP	EN 300 055-1 [2];
UUS	EN 300 286-1 [19];
3PTY	EN 300 188-1 [15].

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When two or more supplementary services are implemented, the protocol interactions are defined in the present document. These interactions are applicable to the telecommunication services as specified for the individual supplementary services.

The present document is applicable to equipment supporting supplementary services, to be attached at either side of the T reference point or coincident S and T reference point when used as an access to the public ISDN.

Further parts of the present document specify the method of testing required to identify conformance to the present document.