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**Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
Direct Dialling In (DDI) supplementary service;
Part 1: Protocol specification**

[ITU-T Recommendation Q.2951.1 (1995), modified]

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS is part 1 of a multi-part standard covering the Digital Subscriber Signalling System No. two (DSS2) protocol specification for the Broadband Integrated Services Digital Network (B-ISDN) Direct Dialling In (DDI) supplementary service, as described 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: "TSS&TP specification for the network";
- Part 6: "ATS and partial PIXIT proforma specification for the network".

NOTE: The final structure of the parts containing the test specifications is currently under study.

In accordance with CCITT Recommendation I.130, the following three level structure is used to describe the supplementary telecommunication services as provided by European public telecommunications operators under the pan-European B-ISDN:

- Stage 1: is an overall service description, from the user's standpoint;
- Stage 2: identifies the functional capabilities and information flows needed to support the service described in stage 1; and
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

This ETS details the stage 3 aspects (signalling system protocols and switching functions) needed to support the DDI supplementary service. The stage 1 and stage 2 aspects are detailed in ETS 300 062 and ETS 300 063, respectively.

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

Endorsement notice

The text of ITU-T Recommendation Q.2951.1 (1995) is proposed by ETSI as an ETS with agreed modifications as given below.

NOTE: New or modified text is indicated using sidebars. In addition, underlining and/or strike-out are used to highlight detailed modifications where necessary.

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

subclause 1.1

Replace subclause 1.1 by:

1.1 Scope

This first part of ETS 300 661 specifies the stage three of the Direct Dialling In (DDI) supplementary service for the pan-European Broadband Integrated Services Digital Network (B-ISDN) as provided by European public telecommunications operators at the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [1]) by means of the Digital Subscriber Signalling System No. two (DSS2) protocol. Stage three identifies the protocol and procedures and switching functions needed to support a telecommunication service (see ITU-T Recommendation I.130 [2]).

In addition, this ETS specifies the protocol requirements at the T_B reference point where the service is provided to the user via a private B-ISDN.

This ETS does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not a B-ISDN.

The DDI supplementary service enables a user to call directly via a public B-ISDN a user on a private B-ISDN by using the public ISDN numbering plan.

The DDI supplementary service is applicable to all telecommunication services.

Further parts of this ETS specify the method of testing required to identify conformance to this ETS.

This ETS is applicable to equipment, supporting the DDI supplementary service, to be attached at either side of a T_B reference point or coincident S_B and T_B reference point when used as an access to the public B-ISDN.

subclause 1.2, first paragraph

Replace the first paragraph of subclause 1.2 by:

This ETS incorporates by dated and undated reference, provisions from other publications. These normative 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 ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

subclause 1.2

Insert the following references at the end of subclause 1.2:

- [7] ETS 300 062 (1991): "Integrated Services Digital Network (ISDN); Direct Dialling In (DDI) supplementary service; Service description".
- [8] ETS 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [9] ETS 300 669-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Supplementary service interactions; Part 1: Protocol specification".

Throughout the text of ITU-T Recommendation Q.2951.1

Replace references as shown in the following table.

Reference in ITU-T Recommendation Q.2951.1	Modified reference
ITU-T Recommendation I.251.1 [6]	ETS 300 062 [7]
ITU-T Recommendation Q.2931 [3]	ITU-T Recommendation Q.2931 as modified by ETS 300 443-1 [8]

subclause 1.3

Insert the following note after the definition of the "DDI number":

NOTE: National or international prefixes cannot form part of the DDI number.

subclause 1.5, first paragraph

Replace the first paragraph by:

The DDI supplementary service shall be based on the use of the ISDN number and shall not include subaddressing.

subclause 1.5, second paragraph

Change the second paragraph to a note.

subclause 1.10.1.2

Insert the following note after the first paragraph:

NOTE: As an alternative to clearing the call when incomplete or invalid digits are received, the user may accept the call. This has no impact on the protocol at the user-network access. The procedures at the user (DSS2 protocol entity in a private network) where correct ISDN numbers received within the Called party number information element do not match a destination in a private network are outside the scope of this ETS.

subclause 1.12

Replace subclause 1.12 and all of its subclauses by:

The interaction of the DDI supplementary service with other supplementary services shall be as specified in ETS 300 669-1 [9].

appendix I

Appendix I has the status of an informative annex.

History

Document history	
September 1995	Public Enquiry PE 92: 1995-09-25 to 1996-01-19
May 1996	Converted into Adobe Acrobat Portable Document Format (PDF)