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**Network Aspects (NA);
Connectionless Broadband Data Service (CBDS)
Part 3: Definition of supplementary services**

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

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Foreword

This part of European Telecommunication Standard (ETS) 300 217 has been prepared by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

According to CCITT Recommendation I.130, the following three level structure is used to describe the characterisation of telecommunication services:

- 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;
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

This ETS details the stage 1 aspects for the Connectionless Broadband Data Service (CBDS).

This part constitutes Part 3 of the 4 part ETS on the CBDS, and defines supplementary services.

A list of informative references, used within this document, is given in Annex A.

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1 Scope

This part of European Telecommunication Standard (ETS) 300 217 on the Connectionless Broadband Data Service (CBDS), is a recommended set of supplementary services to be used in association with basic bearer services, which is defined in Part 2 of this ETS, ETS 300 217-2 [2]. These definitions form the basis for detailed description as given in Part 4 of this ETS, ETS 300 217-4 [3].

2 Normative references

This ETS incorporates, by dated or 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.

- [1] ETS 300 217-1 (1992): "Network Aspects (NA); Connectionless Broadband Data Service (CBDS) Part 1: Overview".
- [2] ETS 300 217-2 (1992): "Network Aspects (NA); Connectionless Broadband Data Service (CBDS) Part 2: Basic bearer service definition".
- [3] ETS 300 217-4 (1992): "Network Aspects (NA); Connectionless Broadband Data Service (CBDS) Part 4: Address screening supplementary service".

3 Definitions and abbreviations

3.1 Definitions

The definitions used in this ETS are given in ETS 300 217-1 [1], subclause 3.1.

3.2 Abbreviations

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

ATM	Asynchronous Transfer Mode
CBDS	Connectionless Broadband Data Service
CUG	Closed User Group
MAN	Metropolitan Area Network
PDU	Protocol Data Unit

4 List of supplementary services

The following set of supplementary services is currently identified and more may be identified in the future:

- Closed User Group (CUG) supplementary service (for further study);
- address screening supplementary service (see ETS 300 217-4 [3]).

5 Association of supplementary services to bearer services

Figure 1 shows the association of supplementary services to the bearer services. Their provision in a particular network is a service provider option.

supplementary services	bearer services
	CBDS
CUG	X
address screening	X

Figure 1: Association of supplementary services to the bearer services

6 Definition of supplementary services

6.1 Closed user group supplementary service

In the field of data communication there is a strong demand for guaranteeing privacy and security. The CUG supplementary service enables users to form groups (e.g. virtual private networks) to and from which access is restricted. This enhances the basic security features of the network. A user may be a member of one or more CUGs. Members of a specific CUG can communicate among themselves but not, in general, with users outside the group.

6.2 Address screening supplementary service

Address screening allows restrictions to be enforced on the delivery of Protocol Data Units (PDUs) in Metropolitan Area Networks (MANs) and an Asynchronous Transfer Mode (ATM) based network from particular sources and the transmission of data to particular destinations.

Annex A (informative): Bibliography

The following reference appears for information purposes within the text of this part of ETS 300 217.

- [A1] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

History

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