



TELENOR

SPECIFICATION

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Specification of the network side of the user-network interface for ISDN Basic Access (BA) – data link layer (layer 2)

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Abstract : Public ISDN of Telenor, basic access and primary rate access description of the data link layer

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1 Scope

This specification describes the network implementation of the Data link layer (layer 2) protocol, in Telenor's ISDN. In addition to ISDN Basic Access (BA) at the S/T reference point, this specification is also valid for the ISDN Primary Rate Access (PRA) at the T reference point.

The specification covers both the point-to-point and point-to-multipoint configuration at the Basic Access user-network interface and the point-to-point configuration at the Primary Rate Access user-network interface.

This document is applicable to Ericsson AXE AS20 and Alcatel S12 NP5.

Other aspects of the network implementation of the ISDN Basic Access interface and Primary Rate Access are described in the Telenor Nett Specifications A41 [1] and A42 [2].

In no event shall Telenor be liable to other parties for any direct, indirect, special, incidental, or consequential damages resulting from errors or defects in these specifications.

2 References

- [1] Telenor Nett Specification A41, "Specification of the network side of the user-network interface for ISDN Basic Access (BA)".
- [2] Telenor Nett Specification A42, "Specification of the network side of the user-network interface for ISDN Primary Rate Access (PRA)".
- [3] ETS 300 402-2 (November 1995), "Integrated Service Digital Network (ISDN); Digital Subscriber Signalling System No. One (DSS1) protocol; Data link Layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".

3 Definitions and abbreviations

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.
AXE:	Exchange system produced by Ericsson.
DSS1:	Digital Subscriber Signalling System No. One.
ETS:	European Telecommunication Standard, issued by ETSI.
ETSI:	European Telecommunication Standards Institute.
ISDN:	Integrated Services Digital Network.
S12:	Exchange system produced by Alcatel (System 12).

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4 Data link layer (layer 2) implementation

In Telenor's ISDN, the data link layer at the Basic Access user-network interface and the Primary Rate Access user-network interface is implemented in accordance with the ETSI standard ETS 300 402-2 [3]. Deviations from this ETS are described in clause 4.1, 4.2 and 4.3 below.

4.1 Deviations in Ericsson AXE AS20 and Alcatel System 12 NP5

AXE AS20 and System 12 NP5 **do not** support:

- SAPI value 12, reference: 3.3.3
- Unacknowledged information transfer service in a point-to-point data link (using a TEI value other than 127) , reference: 5.5, 5.2.1

For each system parameter default values are defined.

4.2 Deviations in Ericsson AXE AS20

AXE AS20 **does not** support:

- Transmission of a frame of type FRMR response, reference: 3.6.11, 5, 5.8.6
- For the Primary Rate Access configurations: Use of more than one Terminal Endpoint Identifier (TEI), reference: Annex A

4.3 Deviation in Alcatel System 12 N5

System 12 NP5 **does not** support:

- XID command/response, reference: 5

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5 HISTORY

Edition	Published	Comments
1.0	26.03.1990	First stable version
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