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Digitalno omrežje z integriranimi storitvami (ISDN) – Storitvene zahteve za faksimilne naprave skupine 4

Integrated Services Digital Network (ISDN); Service requirements for telefax group 4

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Foreword

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

This ETS sets out arrangements for the international operation of the telefax group 4 teleservice within the Integrated Services Digital Network (ISDN). The ISDN telefax group 4 teleservice will use standardised group 4 facsimile terminals, the requirements for which are set out in relevant CCITT Recommendations, which are referenced within this ETS (see Clause 2 and Annex A).

This ETS covers group 4 - class I facsimile terminals.

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1 Scope

The telefax group 4 teleservice within the Integrated Services Digital Network (ISDN) is an international service, offered by service providers, enabling subscribers to exchange correspondence either manually or automatically via telecommunication networks.

Subscribers can communicate by means of group 4 facsimile terminals standardised in accordance with the appropriate CCITT Recommendations on an international level.

The basic element of the correspondence between people using the service is the page, as the smallest unit of text treated as an entity. No restrictions shall exist so far as the operator procedures for generation of the text or the positioning of text within the reproducible area on a page are concerned.

As defined in the appropriate CCITT Recommendations (see Clause 2), there are three classes of group 4 facsimile terminals:

Class I: the minimum requirement for class I is a terminal which is able to send and receive documents containing facsimile encoded information (in accordance with CCITT Recommendations T.6 [13], T.503 [1], T.563 [2] and T.400 [10] series).

Class II: the minimum requirement for class II is a terminal which is able to transmit documents that are facsimile encoded (in accordance with CCITT Recommendations T.6 [13], T.503 [1] and T.400 [10] series). In addition, the terminal shall be capable of receiving documents which are facsimile coded (in accordance with CCITT Recommendations T.6 [13], T.503 [1] and T.400 [10] series), teletex coded (in accordance with the basic coded character repertoire as defined in CCITT Recommendation T.61 [9]), and also mixed-mode documents (in accordance with CCITT Recommendations T.501 [11] and T.400 [10] series).

Class III: the minimum requirement for class III is a terminal which is capable of generating, transmitting and receiving facsimile coded documents (in accordance with CCITT Recommendations T.6 [13], T.503 [1] and T.400 [10] series), teletex coded documents (in accordance with the basic coded character repertoire as defined in CCITT Recommendation T.61 [9]) and mixed-mode documents (in accordance with CCITT Recommendations T.501 [11] and T.400 [10] series).

Service requirements contained in this standard take into account group 4 - class I facsimile terminals.

2 Normative references

This standard 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 standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]   CCITT Recommendation T.503 (1988): "A document application profile for the interchange of group 4 facsimile documents".

[2]   CCITT Recommendation T.563 (1988): "Terminal characteristics for Group 4 facsimile apparatus".

[3]   ETS 300 080 (1992): "Integrated Services Digital Network (ISDN); ISDN lower layer protocols for telematic terminals".

[4]   ETS 300 087 (1991): "Integrated Services Digital Network (ISDN); Facsimile group 4 class 1 equipment on the ISDN; Functional specification of the equipment".

[5]   ETS 300 102: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".

[6]   ETS 300 112 (1990): "Integrated Services Digital Network (ISDN); Facsimile group 4 class 1 equipment on the ISDN; End-to-end protocols".

[7]   ETS 300 125: "Integrated Services Digital Network (ISDN); User-network interface data link layer specification; Application of CCITT Recommendations Q.920/I.440 and Q.921/I.441".

[8]   CCITT Recommendation E.164 (1988): "Numbering plan for the ISDN era".

[9]   CCITT Recommendation T.61 (1988): "Character repertoire and coded character sets for the international teletex service".

[10]   CCITT Recommendation T.400 Series (1988): "(Fascicle VII.6) Terminal equipment and protocols for telematic services".

[11]   CCITT Recommendation T.501 (1988): "A document application profile MM for the interchange of formatted mixed mode document".

[12]   CCITT Recommendation F.200 (1988): "Teletex service".

[13]   CCITT Recommendation T.6 (1988): "Facsimile coding schemes and coding control functions for group 4 facsimile apparatus".

3 Symbols and abbreviations

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

CIL	Call Identification Line
LAN	Local Area Network
ISDN	Integrated Services Digital Network
PABX	Private Automatic Branch eXchange
PC	Personal Computer
TID	Terminal IDentification

4 Telefax group 4 service profile

4.1 General

The telefax group 4 service profile takes account of a number of different types of terminals:

- dedicated facsimile terminals;

- non-dedicated facsimile terminals (e.g. personal computer-based multi-service terminal);

- multi-user system or multi-access systems (e.g. telefax Private Automatic Branch eXchange (PABX), Local Area Network (LAN)).

A basic level of compatibility is provided between any two terminals, both nationally and internationally, so that they may communicate image-coded information to each other. This is achieved by requiring that terminals comply with ETSs 300 080 [3], 300 087 [4] and 300 112 [6].

It is recognised that some subscribers may need to use their group 4 facsimile terminals to communicate nationally and internationally using service features that are not included in the basic requirements. Therefore a number of options, recommended by CCITT, are defined. However, the number of standardised options is restricted, as shown in subclause 4.2, to those features for which a clear international need can be foreseen.

The sending terminal shall ensure the transmission of documents using only those options that have been indicated as being available at the receiving terminal.

4.2   Description

Group 4 facsimile terminals shall provide standardised facsimile transmission with a scanning and printing device:

-     the printer is optional and its provision depends on user needs. However, a telefax group 4 facsimile terminal shall be able to output a received document to a printer;

-     in addition to other conformance testing specifications laid down elsewhere in this standard, since only the physical presence of the printer is optional, the ability to output a received document to a printer shall be capable of verification;

-     while the scanner is optional, the terminal shall be able to accept input either from a physical scanner, or from a wire plug-in interface, floppy disc, or LAN, etc.

Concurrent output while receiving is not mandatory. In the case of standardised mode communication, and provided the printer is available, the terminal shall print out at least the first page of the document as soon as possible. Additional facilities may be provided on an optional or private mode basis, e.g. to enable the document to be received into memory and retrieved by use of a password, or re-routed to another terminal.

In principle, telefax group 4 facsimile terminals for which call numbers are published in directories shall be continuously available to accept calls.

Secured page-oriented end to end transmission via telematic protocols shall be provided.

Alarm indicators (visual and/or audible) shall be provided in the terminals, to inform users about conditions that could have an adverse effect on the quality of service.

Where appropriate, the following indicators shall be provided:

a)   terminals unable to transmit (e.g. paper jam at transmitting end);

b)   terminals unable or soon unable to receive (e.g. paper jam or receiving memory nearly full);

c)   operator assistance required;

d)   message received in store.

The terminals shall transmit at 64 kbit/s within the ISDN.

The reproduction of the receiving page shall be identical with the original in content, format and layout.

The paper format shall be as provided by CCITT Recommendation T.563 [2], Chapter III.