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Digitalno omrežje z integriranimi storitvami (ISDN) – Preskušanje znotrajpasovne signalizacije pri avdiovizualnih storitvah – 3. del: Izjava o skladnosti izvedbe protokola (PICS) – Proforma specifikacije

Integrated Services Digital Network (ISDN); Audiovisual services in-band signalling testing; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification

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33.160.60	Veļ predstavni (multimedijski) sistemi in oprema za telekonference	Multimedia systems and teleconferencing equipment

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Integrated Services Digital Network (ISDN); Audiovisual services in-band signalling testing; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification

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Foreword

This Interim European Telecommunication Standard (I-ETS) has been produced by the Terminal Equipment (TE) Technical Committee and approved by Multimedia Terminals and Applications (MTA) Project of the European Telecommunications Standards Institute (ETSI).

An ETSI standard may be given I-ETS status either because it is regarded as a provisional solution ahead of a more advanced standard, or because it is immature and requires a "trial period". The life of an I-ETS is limited to three years after which it can be converted into an ETS, have its life extended for a further two years, be replaced by a new version, or be withdrawn.

This I-ETS is part 3 of a multipart standard covering "Integrated Services Digital Network (ISDN); audiovisual services in-band signalling testing" as described below:

Part 1: "Test Suite Structure and Test Purpose (TSS&TP)";

Part 2: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma";

Part 3: "Protocol Implementation Conformance Statement (PICS) proforma specification".

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1 Scope

This Interim European Telecommunication Standard (I-ETS) is part 3 of a three part I-ETS dealing with conformance testing of Integrated Services Digital Network (ISDN) Videotelephony terminals. Part 1 contains the Test Suite Structure and Test Purposes (TSS&TP) while part 2 contains the Abstract Test Suite (ATS) in Tree and Tabular Combined Notation (TTCN) and the partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma. Part 3 provides the Protocol Implementation Conformance Statement (PICS) proforma for the inband signalling aspects of an ISDN Videotelephony terminal which uses one or two B channels, and which implements the frame structure and associated syntax as specified in ETS 300 144 [2] and the inband signalling procedures as specified in ETS 300 143 [1], in accordance with the relevant guidance given in ISO/IEC 9646-7 [6].

The supplier of an implementation of a Videophone that is claimed to conform to ETS 300 143 [1] and ETS 300 144 [2] is required to complete a copy of the I-ETS Protocol ICS proforma provided in annex A.

2 Normative references

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

[1] ETS 300 143 (1994): "Integrated Services Digital Network (ISDN); Audiovisual services, Inband signalling procedures for audiovisual terminals using digital channels up to 2 048 kbit/s".

[2] ETS 300 144 (1994): "Integrated Services Digital Network (ISDN); Audiovisual services, Frame structure for a 64 kbit/s to 1 920 kbit/s channel and associated syntax for inband signalling".

[3] ETS 300 145 (1994): "Integrated Services Digital Network (ISDN); Audiovisual services, Videotelephone systems and terminal equipment operating on one or two 64 kbit/s channels".

[4] ETS 300 144 (1996): "Integrated Services Digital Network (ISDN); Audiovisual services, Frame structure for a 64 kbit/s to 1 920 kbit/s channel and associated syntax for inband signalling".

[5] ISO/IEC 9646-1 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[6] ISO/IEC 9646-7 (1994): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[7] CCITT Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".

[8] CCITT Recommendation G.722 (1988): "7 KHz audio-coding within 64 kbit/s".

[9] CCITT Recommendation G.728 (1988): "Coding of speech at 16 kbit/s using low-delay code excited linear prediction".

[10] ITU-T Recommendation H.261 (1993): "Video codec for audiovisual services at p x 64 kbit/s".

3 Definitions

For the purposes of this I-ETS, the following definitions apply:

NOTE: In addition to the terms defined in this clause, the terms defined in ETS 300 143 [1], ETS 300 144 [2] and ETS 300 145 [3], ISO/IEC 9646-1 [5] and in ISO/IEC 9646-7 [6] also apply.

additional channel: The second or subsequent channel established in a videophone call.

Audio Indicate Muted (AIM): This symbol is used to indicate that the content of the audio channel does not represent a normal audio signal. The audio encoder may be without audio input or an electronically-generated tone may have been substituted.

Audio Indicate Active (AIA): Complementary to AIM.

bit-rate allocation signal: Bit position within the frame structure to transmit commands, control and indication signals, capabilities.

capability marker, cap marker: The first code in a capability set.

capability set, cap set: A sequence of capability codes started by the capability marker code.

ECS channel: Optional 800 kbit/s channel for use in encryption.

ICS proforma: A document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

initial channel: The first channel established in a videophone call.

Implementation Conformance Statement (ICS): A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

mode 0F: Transmission mode in which the initial channel contains framing, and 7-bit CCITT Recommendation G.711 [7] audio signal is being transmitted.

mode 0U: Transmission mode in which the initial channel does not contain framing, and 8-bit CCITT Recommendation G.711 [7] audio is being transmitted.

Multipoint Command Visualization-Forcing (MCV): Transmitted by a terminal to force an associated MCU to broadcast its video signal. (Used to transmit the picture of a chairman or VIP, alternatively to hold a picture source during the transmission of graphics).

Multipoint Indication Visualization (MIV): Transmitted by an MCU to indicate to a terminal that its video signal is being seen by other terminals (otherwise known as "On-air" indication).

Multipoint Command Conference (MCC): Transmitted by an MCU to a terminal. The terminal receiving MCC shall make its outgoing transfer rate equal to its incoming transfer rate, and its outgoing audio rate equal to its incoming audio rate.

Multipoint Command Symmetrical (MCS) data-transmission: Transmitted by an MCU when setting up data broadcasting. On receipt, a terminal shall prepare itself for data reception and ensure, by mode change if necessary, that its outgoing data channel occupies the same capacity as its incoming data channel. A terminal in receipt of MCS cannot initiate data broadcasting

Multipoint Indication Secondary-Status (MIS): Transmitted by an MCU to a terminal for information, with the meaning that since other terminals of higher capability are participating in the conference-call, this terminal does not necessarily receive all the signals that are sent to those other terminals (see annex B).

Multipoint Indication Zero-Communication (MIZ): Transmitted by an MCU to a terminal for information, with the meaning that no other terminals are yet connected to the MCU.

Protocol ICS (PICS): An ICS for an implementation or system claimed to conform to a given protocol specification.

remote terminal: The terminal with which the IUT is communicating, i.e. the test tool.

Video Indicate Suppressed (VIS): This symbol is used to indicate that the content of the video channel does not represent a normal camera image. The video encoder may be without video input or an electronically-generated pattern may have been substituted.

Video Indicate Active (VIA): Complementary to VIS. The video source is the only one, or, in the case that more video sources are to be distinguished, it is that designated "video No. 1".

VIA2: Equivalent to VIA, but designating "video No. 2" as the source.

VIA3: Equivalent to VIA, but designating "video No. 3" as the source.

Video Indicate Ready-To-Activate (VIR): This symbol is transmitted by a terminal whose user has decided not to send video unless video from the other end will also be received.

4 Abbreviations

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

NOTE: In addition to the abbreviations in clause 4, the abbreviations in ETS 300 143 [1], ETS 300 144 [2], ETS 300 145 [3] and ISO/IEC 9646-1 [5] also apply.

ATS	Abstract Test Suite
BAS	Bit rate Allocation Signal
C&I	Control and Indication
CIF	Common Intermediate Format (picture format defined in ITU-T Recommendation H.261 [10])
ECS	Encryption Control Signal
FAS	Frame Alignment Signal
FAW	Frame Alignment Word
H-MLP	High speed Multi Layer Protocol
HSD	High Speed Data
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
LCA	Loopback Command "Audio loop request"
LCD	Loopback Command "Digital loop request"
LCO	Loopback Command "Loop Off request"
LCV	Loopback Command "Video loop request"
LSD	Low Speed Data
MBE	Multiple Byte Extension
MCC	Multipoint Command Conference
MCS	Multipoint Command Symmetrical
MCV	Multipoint Command Visualization-Forcing
MIS	Multipoint Indication Secondary-Status
MIZ	Multipoint Indication Zero-Communication
MLP	Multi Layer Protocol
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
QCIF	Quarter Common Intermediate Format (picture format defined in ITU-T Recommendation H.261 [10])
SBE	Single Byte Extension
SUT	System Under Test
TSS&TP	Test Suite Structure and Test Purpose