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INTEGRATED SERVICES DIGITAL NETWORK (ISDN) SERVICE CAPABILITIES

TELEACTION STAGE ONE SERVICE DESCRIPTION

ITU-T Recommendation I.241.8

(Previously "CCITT Recommendation")

FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

ITU-T Recommendation I.241.8 was prepared by ITU-T Study Group 1 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 3rd of October 1995.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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SUMMARY

In accordance with Recommendation I.130 [1], the following three-level structure is used to describe the 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 Recommendation relates to stage 1 (overall service description) for the teleaction service in the ISDN.

Recommendation I.241.8**TELEACTION STAGE ONE SERVICE DESCRIPTION***(Geneva, 1995)***1 Scope**

This Recommendation defines the stage 1 of the teleaction service for the Integrated Services Digital Network (ISDN) as provided by the public telecommunication operators or recognized operating agencies. Stage 1 is an overall service description from the user's point of view (see Recommendation I.130 [1]), but does not deal with the details of the human interface itself.

This Recommendation defines the interworking requirements for teleaction services supported by networks other than ISDN with the teleaction services described in this Recommendation.

This Recommendation does not specify the additional requirements where the service is provided to the user via a telecommunications network that is not ISDN but does include interworking requirements of other networks with the public ISDN.

Charging principles are outside the scope of this Recommendation.

This Recommendation is applicable to the stage 2 and stage 3 Recommendations for the ISDN teleaction service. The terms "stage 2" and "stage 3" are defined in Recommendation I.130 [1]. Where the text indicates the status of a requirement (i.e. as strict command or prohibition, as authorization leaving freedom, or as a capability or possibility), this shall be reflected in the text of the relevant stage 2 and stage 3 Recommendations.

Furthermore, conformance to this Recommendation is met by conforming to the stage 3 Recommendation with the field of application appropriate to the equipment being implemented. Therefore, no method of testing is provided in this Recommendation.

2 Normative references

The following Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision: all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- [1] CCITT Recommendation I.130 (1988), *Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN*.
- [2] CCITT Recommendation I.112 (1988), *Vocabulary terms for ISDNs*.
- [3] CCITT Recommendation I.210 (1988), *Principles of telecommunication services supported by an ISDN and the means to describe them*.
- [4] CCITT Recommendation Q.9 (1988), *Vocabulary of switching and signalling terms*.
- [5] CCITT Recommendation X.2 (1988), *International data transmission services and optional non facilities in public data networks and ISDNs*.
- [6] CCITT Recommendation X.25 (1988), *Interface between Data Terminal Equipment (DTE) and Data circuit-terminating equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit*.
- [7] ITU-T Recommendation I.431 (1993), *Primary rate user-network interface – Layer 1 specification*.
- [8] ITU-T Recommendation I.430 (1993), *Basic user-network interface – Layer 1 Specification*.



- [9] ITU-T Recommendations Q.920/I.440 (1993), *Digital Subscriber Signalling System No. 1 (DSS 1) – ISDN user-network interface data link layer – General aspects* and Q.921/I.441 (1993), *ISDN user-network interface – data link layer specification*.
- [10] CCITT Recommendation I.450 (1988), *ISDN user-network interface layer 3 – General aspects*.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this Recommendation, the following definitions apply:

- 3.1.1 integrated services digital network (ISDN):** See 2.3/I.112 [2], definition 308.
- 3.1.2 service; telecommunication service:** See 2.2/I.112 [2], definition 201.
- 3.1.3 supplementary service:** See 2.4/I.210 [3].

3.2 Abbreviations

For the purposes of this Recommendation, the following abbreviations are used:

BNP	Basic Network Provider
CSPDN	Circuit Switched Public Data Network
DTN	Dedicated Teleaction Network
EU	End User
EUT	End User Terminal
PSPDN	Packet Switched Public Data Network
PSTN	Public Switched Telephone Network
ROA	Recognized Operating Agency
SP	Service Provider
SPT	Service Provider Terminal
TMF	Teleaction Management Function
TMFP	Teleaction Management Function Provider
USBS	User Signalling Bearer Service

4 Description and terminology

4.1 General description

Teleaction is a teleservice providing for reliable low volume data communication and allied processing service to the users. The teleaction service may be used for applications such as:

- monitoring;
- indicating;
- controlling;
- verifying,

of remote events, operations and measurements.

The teleaction teleservice allows the users to be provided with teleaction applications. The resulting communication can take place either between an EU and a SP, between EUs, or between SPs (see 4.2). A two-way simultaneous information transfer shall be continuously available during the information transfer phase. This shall apply also in such cases where only one-way information transfer is required by the application. The teleaction teleservice specified hereafter is based on the existence of a TMF in the network. Teleaction services using other telecommunication means are outside the scope of this Recommendation.