INTERNATIONAL TELECOMMUNICATION UNION

# CCITT

THE INTERNATIONAL
TELEGRAPH AND TELEPHONE
CONSULTATIVE COMMITTEE

**E.701**

(10/92)

## TELEPHONE NETWORK AND ISDN

## QUALITY OF SERVICE, NETWORK MANAGEMENT AND TRAFFIC ENGINEERING

# REFERENCE CONNECTIONS FOR TRAFFIC ENGINEERING

**Recommendation E.701**

## FOREWORD

The CCITT (the International Telegraph and Telephone Consultative Committee) is a permanent organ of the International Telecommunication Union (ITU). CCITT 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 Plenary Assembly of CCITT which meets every four years, establishes the topics for study and approves Recommendations prepared by its Study Groups. The approval of Recommendations by the members of CCITT between Plenary Assemblies is covered by the procedure laid down in CCITT Resolution No. 2 (Melbourne, 1988).

Recommendation E.701 was revised by Study Group II and was approved under the Resolution No. 2 procedure on the 30th October 1992.

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CCITT NOTES

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

2) A list of abbreviations used in this Recommendation can be found in Annex A.

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**Recommendation E.701**

**REFERENCE CONNECTIONS FOR TRAFFIC ENGINEERING**

*(revised 1992)*

## 1 General

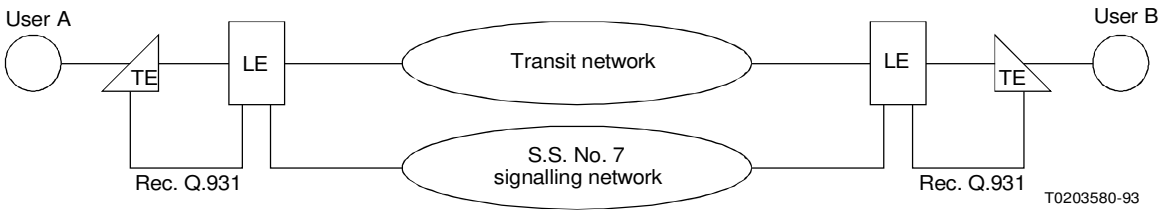
The goal of this Recommendation is to give the E.700-Series Recommendations a base to define ISDN Grade of Service (GOS) and traffic parameters.

In § 2, two reference connections are defined. Definition of other reference connections is for further study.

## 2 Reference connections

### 2.1 *Reference connection for point-to-point circuit switched services*

See Figure 1/E.701.




User A Originating user
User B Terminating user
TE Terminal equipment
LE Local exchange

*Note 1* – The transit network may contain zero, one, or more transit exchanges, which may or may not be dedicated ISDN exchanges.

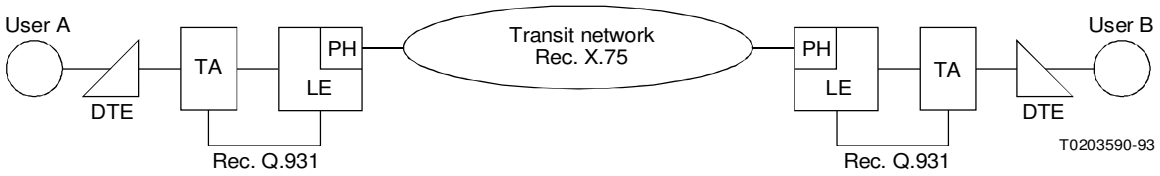
*Note 2* – The signalling network may contain zero, one, or more signalling transfer points.

*Note 3* – The topology of the signalling network may differ significantly from that of the transit network.

FIGURE 1/E.701
**Reference connection for point-to-point circuit switched services**

2.2 *Reference connection for point-to-point packet switched services*

See Figure 2/E.701. For more details, see Recommendation E.712.




User A Originating user
User B Terminating user
DTE Data terminal equipment
TA Terminal adaptor
LE Local exchange
PH Packet handler

*Note 1* – The transit network may contain zero, one, or more transit exchanges.

*Note 2* – Current CCITT Recommendations support X.25 DTEs using X.31 TAs.

*Note 3* – The packet handler may be located outside the local exchange.

FIGURE 2/E.701

**Reference connection for point-to-point packet switched services**

ANNEX A

(to Recommendation E.701)

## Alphabetical list of abbreviations used in this Recommendation

| | |
|---|---|
| DTE | Data terminal equipment |
| GOS | Grade of service |
| LE | Local exchange |
| PH | Packet handler |
| TA | Terminal adaptor |
| TE | Terminal equipment |