



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.

---

## 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.

© ITU 1993

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the ITU.

# Recommendation E.701

## REFERENCE CONNECTIONS FOR TRAFFIC ENGINEERING

(revised 1992)

### 1 General

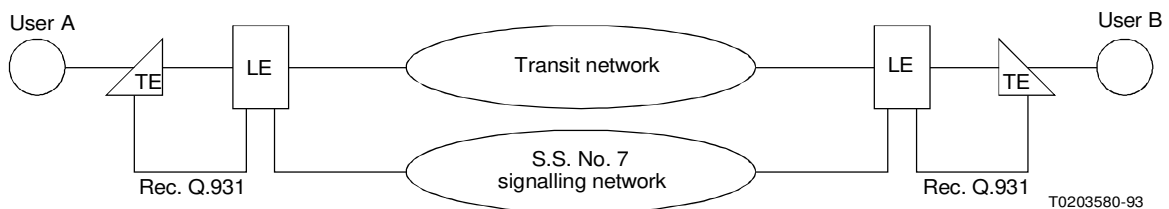
The goal of this Recommendation is to give the E.700-Series Recommendations a base to define ISDN Grade of Service (GOS) and traffic parameters.

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