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SERIES E: TELEPHONE NETWORK AND ISDN

Quality of service, network management and traffic
engineering – Traffic engineering – Mobile network traffic
engineering

**Network grade of service parameters and target
values for circuit-switched public land mobile
services**

ITU-T Recommendation E.771

(Previously CCITT Recommendation)

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ITU-T RECOMMENDATION E.771**NETWORK GRADE OF SERVICE PARAMETERS AND TARGET VALUES FOR
CIRCUIT-SWITCHED PUBLIC LAND MOBILE SERVICES****Summary**

This Recommendation proposes network Grade of Service (GOS) parameters for current and evolving land mobile services. These parameters are defined, and their target values specified, assuming that the network and the network components are operating in their normal mode (i.e. are fully operational). Further, the parameters and their target values assume normal (as opposed to distress or emergency) traffic.

Source

ITU-T Recommendation E.771 was revised by ITU-T Study Group 2 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 8th of October 1996.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the 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).

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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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Recommendation E.771**NETWORK GRADE OF SERVICE PARAMETERS AND TARGET VALUES FOR
CIRCUIT-SWITCHED PUBLIC LAND MOBILE SERVICES***(revised in 1996)***1 Scope**

This Recommendation proposes network Grade of Service (GOS) parameters for current and evolving land mobile services. These parameters are defined, and their target values specified, assuming that the network and the network components are operating in their normal mode (i.e. are fully operational). Further, the parameters and their target values assume normal (as opposed to distress or emergency) traffic.

The target values specified in this Recommendation apply primarily to second generation digital mobile systems. They should generally be considered as minimum requirements for evolving third generation systems, i.e. the target GOS for third generation systems should be equal to, if not more stringent than, the targets specified in this Recommendation.

2 Related Recommendations

The following Recommendations are the ones applicable at the time of publication of this Recommendation.

- CCITT Recommendation E.720 (1988), *ISDN grade of service concept*.
- CCITT Recommendation E.721 (1991), *Network grade of service parameters and target values for circuit-switched services in the evolving ISDN*.
- CCITT Recommendation E.723 (1992), *Grade of service parameters for Signalling System No. 7 networks*.
- ITU-T Recommendation E.751 (1996), *Reference connections for traffic engineering of land mobile networks*.
- ITU-T Recommendation I.352 (1993), *Network performance objectives for connection processing delays in an ISDN*.
- ITU-T Recommendation E.800 (1994), *Terms and definitions related to quality of service and network performance including dependability*.
- CCITT Recommendation Q.1001 (1988), *General aspects of public land mobile networks*.
- CCITT Recommendation Q.1002 (1988), *Network functions*.
- CCITT Recommendation Q.1003 (1988), *Location registration procedures*.
- ITU-R M.817 (1994), *Future Public Land Mobile Telecommunication Systems (FPLMTS)*.
- ITU-R M.1079 (1994), *Speech and voiceband data performance requirements for Future Public Land Mobile Telecommunication Systems (FPLMTS)*.

3 Abbreviations

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

AC Authentication Centre



Documents

Document Sharing Hub

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