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SERIES P: TELEPHONE TRANSMISSION QUALITY,
TELEPHONE INSTALLATIONS, LOCAL LINE
NETWORKS

Audiovisual quality in multimedia services

Interactive test methods for audiovisual communications

ITU-T Recommendation P.920

(Formerly CCITT Recommendation)

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ITU-T Recommendation P.920

Interactive test methods for audiovisual communications

Summary

This ITU-T Recommendation is intended to define interactive evaluation methods for quantifying the impact of terminal and communication link performance on point-to-point or multipoint audiovisual communications. This methodology is based upon conversation opinion tests, and can be considered to be an extension of the methods defined in Annex A/P.800.

Source

ITU-T Recommendation P.920 was prepared by ITU-T Study Group 12 (1997-2000) and approved under the WTSC Resolution 1 procedure on 18 May 2000.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. 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 turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSC Resolution 1.

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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Introduction

The audiovisual interactive test methods described in this ITU-T Recommendation are intended for quantifying the impact of terminal and communication link performance, that may affect the ability to conduct an interactive audiovisual communication.

The efficacy of these tests strongly depends on the ability to reproduce in laboratory environments the conditions that are very close to the real situations. In this regard, particular care must be taken in choosing the tasks proposed to the subjects. In general, those tasks used in conversation tests for telephony assessment are not suited for audiovisual assessment because they often distract the subject's attention from the video screen. Therefore new tasks have been developed following the criteria illustrated in this ITU-T Recommendation.

Substantial work has been done in this area, although all aspects of audiovisual quality are not yet completely understood.

This ITU-T Recommendation reflects the current status of research on interactive audiovisual testing.

As progress on this work continues, understanding of these interactive test methods will no doubt improve. As new knowledge is attained, this ITU-T Recommendation will be revised.