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

Subscribers' lines and sets

Transmission performance of group audio terminals (GATs)

ITU-T Recommendation P.300

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Transmission standards	Series P.40
Objective measuring apparatus	Series P.50 P.500
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Measurements related to speech loudness	Series P.70
Methods for objective and subjective assessment of quality	Series P.80 P.800
Audiovisual quality in multimedia services	Series P.900

For further details, please refer to the list of ITU-T Recommendations.

Transmission performance of group audio terminals (GATs)

Summary

This Recommendation provides the speech transmission requirements for Group Audio Terminals (GATs). The associated test methods for verifying the specified performances are contained in Annex A. An *in-situ* procedure for checking and aligning GAT terminals in the field is provided in Appendix I.

Reference is made, as far as possible, to other Recommendations applicable to speech terminals for analogue and digital networks. Only terminal configurations not already covered by these Recommendations are addressed in detail.

Source

ITU-T Recommendation P.300 is a revision of ITU-T Rec. P.30 (1998). It was revised by ITU-T Study Group 12 (2001-2004) and approved under the WTSA Resolution 1 procedure on 29 November 2001.

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 Assembly (WTSA), 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 WTSA 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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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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CONTENTS

	Page
1 Scope.....	1
2 Normative references	1
3 Definitions and abbreviations	2
4 Group Audio Terminals types.....	2
5 Speech transmission characteristics.....	3
5.1 Handset mode	3
5.2 Headset mode.....	3
5.3 Hands-free mode (single-user facilities).....	3
5.4 Hands-free mode (multiple-users facility).....	3
5.4.1 Receiving volume control and sensitivity adjustments	4
5.4.2 Sensitivity-frequency responses	4
5.4.3 Loudness Rating	4
5.4.4 Echo path loss characteristics	5
5.4.5 Distortion	5
5.4.6 Out-of-band requirements.....	5
5.4.7 Noise	5
5.4.8 Delay.....	5
Annex A – Objective measurement methods for hands-free, multiple users GATs.....	6
A.1 Introduction.....	6
A.1.1 Testing arrangements.....	6
A.1.2 Test signals levels	7
A.2 Testing of transmission requirements	8
A.2.1 Sensitivity-frequency response.....	8
A.2.2 Loudness rating.....	9
A.2.3 Terminal Coupling Loss	9
Appendix I – Practical <i>in-situ</i> audio alignment procedure for multiple-users hands-free GATs.....	10
I.1 Introduction.....	10
I.2 Audio alignment and sensitivity-frequency characteristics	10
I.2.1 Sending	11
I.2.2 Receiving	11

ITU-T Recommendation P.300

Transmission performance of group audio terminals (GATs)

1 Scope

This Recommendation provides the audio performance requirements and test methods for Group Audio Terminals (GATs), i.e. terminals which are specifically designed for being used by several users at the same time.

GATs cover a wide range of products, ranging from the hands-free telephone set, when used by several users at the same time, to the teleconference audio terminals incorporating sophisticated echo control mechanisms. GATs can be designed to operate both on the analog POTS networks and on digital ISDN links. While the former can only offer telephone bandwidth performances, the latter can be designed to offer either narrow-band or wideband audio communication facilities.

This Recommendation addresses this whole range of devices by identifying, as far as possible, the already existing Recommendations applicable to each terminal type.

2 Normative references

The following ITU-T 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] ITU-T Recommendation P.310 (2000), *Transmission characteristics for telephone-band (300-3400 Hz) digital telephones*.
- [2] ITU-T Recommendation P.311 (1998), *Transmission characteristics for wideband (150-7000 Hz) digital handset telephones*.
- [3] ITU-T Recommendation P.57 (1996), *Artificial ears*.
- [4] ITU-T Recommendation P.10 (1998), *Vocabulary of terms on telephone transmission quality and telephone sets*.
- [5] ITU-T Recommendation P.340 (2000), *Transmission characteristics and speech quality parameters of hands-free telephones*.
- [6] ITU-T Recommendation P.342 (2000), *Transmission characteristics for telephone band (300-3400 Hz) digital loudspeaking and hands-free telephony terminals*.
- [7] ITU-T Recommendation P.341 (1998), *Transmission characteristics for wideband (150-7000 Hz) digital hands-free telephony terminals*.
- [8] ITU-T P-Series Recommendations – Supplement 16 (1988), *Guidelines for placement of microphones and loudspeakers in telephone conference rooms [1] and for Group Audio Terminals (GATs)*.
- [9] ITU-T Recommendation P.51 (1996), *Artificial mouth*.
- [10] ITU-T Recommendation P.79 (1999), *Calculation of loudness ratings for telephone sets*.
- [11] ISO 3:1973, *Preferred numbers – Series of preferred numbers*.