



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

E.180/Q.35

(03/98)

**SERIES E: OVERALL NETWORK OPERATION,
TELEPHONE SERVICE, SERVICE OPERATION AND
HUMAN FACTORS**

Operation, numbering, routing and mobile services –
International operation – Tones in national signalling
systems

SERIES Q: SWITCHING AND SIGNALLING

International automatic and semi-automatic working –
Tones for use in national signalling systems

Technical characteristics of tones for the telephone service

ITU-T Recommendation E.180/Q.35

(Previously CCITT Recommendation)

ITU-T E-SERIES RECOMMENDATIONS
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ITU-T RECOMMENDATION E.180/Q.35

TECHNICAL CHARACTERISTICS OF TONES FOR THE TELEPHONE SERVICE

Summary

This Recommendation sets the limits and recommended values of cadences, frequencies and levels for tones used in the telephone service. Those technical characteristics are relevant either for audible tones applied within the network or for those generated at the digital terminal equipment.

Source

ITU-T Recommendation E.180/Q.35 was revised by ITU-T Study Group 2 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 9th of March 1998.

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.

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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