



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

D.140

(03/95)

**CHARGING AND ACCOUNTING
IN INTERNATIONAL TELECOMMUNICATION
SERVICES**

**ACCOUNTING RATE PRINCIPLES
FOR INTERNATIONAL TELEPHONE
SERVICES**

ITU-T Recommendation D.140

(Previously "CCITT Recommendation")

FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (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).

ITU-T Recommendation D.140 was revised by ITU-T Study Group 3 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 20th of March 1995.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

© ITU 1995

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.

CONTENTS

	<i>Page</i>
Annex A – Guidelines for the cost elements to be taken into account when determining accounting rates and accounting rate shares for the international telephone service.....	2
A.1 Network elements	2
A.2 Related costs	3
A.3 Other related costs	3
Annex B – Guidelines regarding the provision of information relating to accounting rates for the international automatic telephone service	3
Appendix I.....	4
Appendix II – Global accounting rate percentage movement	4
Annex C – Guidelines for bilateral negotiation of cost orientated telephone accounting rates.....	5

Recommendation D.140

ACCOUNTING RATE PRINCIPLES FOR INTERNATIONAL TELEPHONE SERVICES

(Geneva, 1992; revised in 1995)

The ITU-T,

bearing in mind

- (a) that the International Telecommunication Regulations indicate that Administrations shall by mutual agreement establish and revise accounting rates to be applied between them, taking into account the Recommendations of the ITU-T and trends in the cost of providing the telecommunication services;
- (b) that the costs incurred in providing telecommunication services, although based on the same components, may have a different impact depending on the country's development status which, in turn, may affect the quality of international services;
- (c) that one of the purposes of the ITU, is to foster collaboration among its Members with a view to the establishment of rates at levels as low as possible consistent with an efficient service,

considering

- (a) that Administrations should endeavour to lower the provisioning costs of international telephone services;
- (b) that Administrations should strive to offer customers high quality international telephone services at the lowest possible prices;
- (c) that too great a dissymmetry between the charges applicable in each direction of the same relation may contribute to the distortion of the balance of traffic and encourage the retention of high accounting rates;
- (d) that the remuneration for the use of telecommunication facilities made available to Administrations should cover the costs incurred in providing those facilities, such as:
 - network costs;
 - financial costs;
 - overheads;
- (e) that costs depend on many factors which vary by country;
- (f) that international telephone networks should be used in an efficient way;
- (g) that demand for international telephone services should be stimulated;
- (h) that some accounting rates have not kept pace with the recent cost trends and are therefore too high;
- (i) that accounting rates that are not cost-orientated may encourage inefficient routings;
- (j) that the existing accounting procedures contained in the D-Series Recommendations continue to provide Administrations with efficient and flexible processes,

recommends

that the following principles be applied when establishing or revising accounting rates for international telephone services:

- 1 accounting rates for international telephone services should be cost-orientated and should take into account relevant cost trends;
- 2 each Administration should apply the above principle to all relations on a non-discriminatory basis;

3 Administrations should seek to achieve cost-orientated accounting rates in an expeditious manner, recognizing that this may need to be implemented on a scheduled basis where the level of reduction required is significant. In the event of scheduling, Administrations should aim to agree staged reductions over a period normally of one to five years. However, the actual length of the period of implementation may depend on the extent of reductions agreed and/or the difference in the development of the countries concerned,

further recommends

4 that Administrations should periodically review accounting rates to ensure that they continue to reflect current cost trends;

5 that information relative to accounting rates for the international automatic telephone service should be made available on a voluntary basis to the Director of TSB in an aggregated format, in accordance with the guidelines set out in Annex B, to assist ITU-T studies into accounting rate movements.

Annex A contains guidelines for the cost elements to be taken into account when determining international telephone accounting rates (for further study).

Annex B contains guidelines concerning the provision of information relating to accounting rates for the international automatic telephone service.

Annex C contains guidelines for bilateral negotiation of cost orientated telephone accounting rates (for further study).

Annex A

Guidelines for the cost elements to be taken into account when determining accounting rates and accounting rate shares for the international telephone service

(This annex forms an integral part of this Recommendation)

Introduction

These guidelines identify the main cost elements to be used when establishing or revising cost-oriented accounting rates and accounting rate shares for the international telephone service.

A.1 Network elements

The network elements used to provide the international telephone services are generally classified as follows:

- international transmission facilities;
- international switching facilities;
- national extension.

A.1.1 International transmission facilities

The international transmission facilities consist of international terrestrial transmission or international submarine cables, or international satellite transmission or a combination of these.

These facilities include links between earth stations or cable landing stations and the international switching facilities.

A.1.2 International switching facilities

These facilities consist of international switching centres and their associated transmission and signalling equipment.

A.1.3 National extension

The national extension, used for international telephone traffic, consists of national exchanges, national transmission facilities and, if appropriate and identified under a bilateral or multilateral agreement, the local loop.

A.2 Related costs

The related costs are those identified in accordance with generally accepted accounting practices and are divided into:

- direct costs;
- indirect or common costs.

A.2.1 Direct costs

These are:

- investment costs, i.e. depreciation, interest expenses on loans and a reasonable return on equity;
- operation and maintenance costs;
- rental and lease costs of telecommunications facilities including direct transit leasing costs where applicable;
- switched transit costs where applicable;
- cost of access to national or local networks, if applicable;
- directly attributable research and development costs.

A.2.2 Indirect or common costs

These costs cannot be solely attributed to the international telephone service and thus must be allocated. They may be related to:

- general administration (e.g. head office expenses, overheads, training, etc.);
- management systems (e.g. accounting systems);
- other research and development;
- appropriate taxes (or equivalent).

A.3 Other related costs

Other costs may qualify for inclusion by bilateral agreement.

Annex B

Guidelines regarding the provision of information relating to accounting rates for the international automatic telephone service

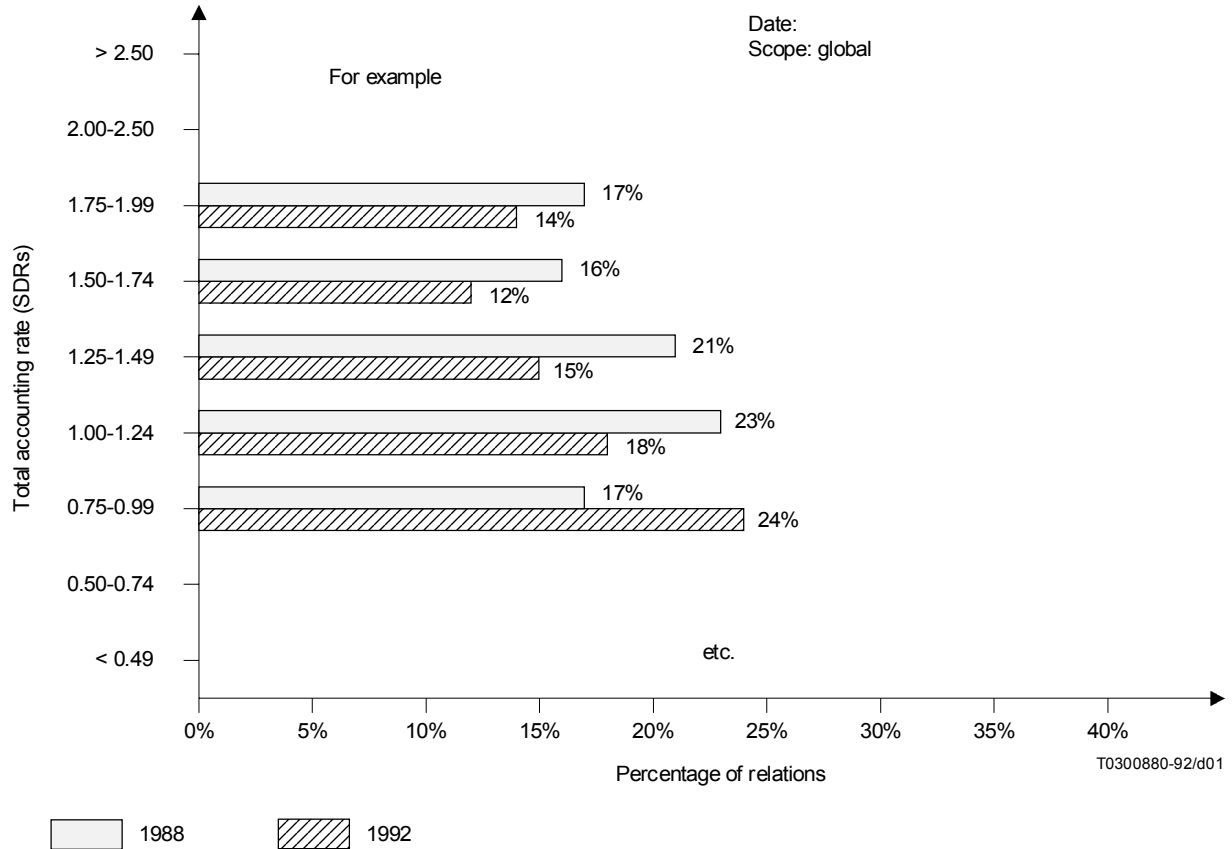
(This annex forms an integral part of this Recommendation)

B.1 Information relating to accounting rates for the international automatic telephone accounting rates will be requested from Administrations by means of a circular-letter sent by the TSB Director.

B.2 Administrations should provide on a voluntary basis the information requested to the TSB Director in the format in Appendix I for the reference dates January 1988 and 1992. The same information will subsequently be requested on an annual basis.

B.3 Alternatively, Administrations could provide the information to the Director of TSB as an average annual global accounting rate percentage movement on a yearly basis as illustrated in Appendix II, starting with year 1988.

Appendix I
(to Annex B of Recommendation D.140)



**Distribution and movement of automatic telephone accounting rates
(January 1988-January 1992)**

Appendix II
(to Annex B of Recommendation D.140)

Global accounting rate percentage movement

This information will be shown as an average annual accounting rate percentage movement.

This average percentage movement should be weighted by the traffic destined to each country on a global basis, starting with the year 1988.

Illustration of the formula to be used to calculate the average accounting rate percentage movement (var % t)

Example:

For example, if Administration has three relations

$$t = t_1 \times \frac{T_1}{T_t} + t_2 \times \frac{T_2}{T_t} + t_3 \times \frac{T_3}{T_t}$$

$$\text{var \% } t = \frac{t_{\text{period 1}} - t_{\text{period 0}}}{t_{\text{period 0}}}$$

where

- t is the weighted average accounting rates;
- t_1 is the accounting rates related to T_1 and so on;
- T_1 is the outgoing traffic related to Administration 1 and so on;
- T_t is the total outgoing traffic;
- var % t variation percentage.

Annex C

Guidelines for bilateral negotiation of cost orientated telephone accounting rates

(For further study)

