



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**D.140**

**Supplement 1**  
(06/2002)

SERIES D: GENERAL TARIFF PRINCIPLES

General tariff principles – Charging and accounting in the  
international telephone service

---

Accounting rate principles for the international  
telephone service

**Supplement 1: Updated teledensities and  
indicative target settlement rates**

ITU-T Recommendation D.140 – Supplement 1

---

ITU-T D-SERIES RECOMMENDATIONS  
GENERAL TARIFF PRINCIPLES

TERMS AND DEFINITIONS	D.0
GENERAL TARIFF PRINCIPLES	
Private leased telecommunication facilities	D.1–D.9
Tariff principles applying to data communication services over dedicated public data networks	D.10–D.39
Charging and accounting in the international public telegram service	D.40–D.44
Charging and accounting in the international teletext service	D.45–D.49
Principles applicable to GII-Internet	D.50–D.59
Charging and accounting in the international telex service	D.60–D.69
Charging and accounting in the international facsimile service	D.70–D.75
Charging and accounting in the international videotex service	D.76–D.79
Charging and accounting in the international phototelegraph service	D.80–D.89
Charging and accounting in the mobile services	D.90–D.99
<b>Charging and accounting in the international telephone service</b>	<b>D.100–D.159</b>
Drawing up and exchange of international telephone and telex accounts	D.160–D.179
International sound- and television-programme transmissions	D.180–D.184
Charging and accounting for international satellite services	D.185–D.189
Transmission of monthly international accounting information	D.190–D.191
Service and privilege telecommunications	D.192–D.195
Settlement of international telecommunication balances of accounts	D.196–D.209
Charging and accounting principles for international telecommunication services provided over the ISDN	D.210–D.279
Charging and accounting principles for universal personal telecommunication	D.280–D.284
Charging and accounting principles for intelligent network supported services	D.285–D.299
RECOMMENDATIONS FOR REGIONAL APPLICATION	
Recommendations applicable in Europe and the Mediterranean Basin	D.300–D.399
Recommendations applicable in Latin America	D.400–D.499
Recommendations applicable in Asia and Oceania	D.500–D.599
Recommendations applicable to the African Region	D.600–D.699

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

# **ITU-T Recommendation D.140**

## **Accounting rate principles for the international telephone service**

### **Supplement 1**

#### **Updated teledensities and indicative target settlement rates**

#### **Source**

Supplement 1 to ITU-T Recommendation D.140 was prepared by ITU-T Study Group 3 (2001-2004) and approved under ITU-T Recommendation A.13 (10/2000) procedure on 14 June 2002.

## 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.

## INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

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.

© ITU 2002

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

## CONTENTS

	<b>Page</b>
1 Introduction .....	1
2 Updated table of countries/territories according to their teledensity.....	1
3 Updated indicative target rates .....	1
Appendix I – Updated table of Groups of countries/territories (2002).....	2

# ITU-T Recommendation D.140

## Accounting rate principles for the international telephone service

### Supplement 1

#### Updated teledensities and indicative target settlement rates

##### 1 Introduction

ITU-T Study Group 3 had continued its study on the issue of accounting rate reform through the previous study period and succeeded in compiling Annex E to ITU-T Rec. D.140, which provided guidelines for bilateral negotiations of transitional arrangements towards cost-orientation. Furthermore WTSA instructs Study Group 3 to "publish updated indicative target rates calculated on the basis of the latest data as a supplement to ITU-T Rec. D.140" on the consideration that "the indicative target rates in Annex E to ITU-T Rec. D.140 were calculated using 1998 data".

Pursuant to this instruction, Study Group 3, at its meeting in December 2001, decided to publish updated indicative target rates calculated on the basis of the latest data annually.

##### 2 Updated table of countries/territories according to their teledensity

The updated table of countries/territories according to their teledensity as of 1 January 2002 can be found in Appendix I.

##### 3 Updated indicative target rates

Updated indicative target rates calculated on the basis of the year 2002 data is as follows.

Teledensity	T < 1	1 < T < 5	5 < T < 10	10 < T < 20	20 < T < 35	35 < T < 50	50 < T
Indicative target rate	0.137	0.130	0.128	0.117	0.107	0.081	0.025

For small island-states, which are defined as having a population of less than 300 000 inhabitants, distant from a continental mainland, off the main cable routes and therefore reliant on satellite communications, the indicative target rate of 0.112 SDR per minute may be used. The countries/territories within this category may choose to adhere to this target or to the one relevant to its teledensity.

For the Least Developed Countries, which are recognized by the United Nations, the indicative target rate of 0.129 SDR per minute may be used. The countries/territories within this category may choose to adhere to this target or to the one relevant to its teledensity.

This Supplement is published for information purposes only and does not replace the target rates in Annex E to ITU-T Rec. D.140.

## Appendix I

### Updated table of Groups of countries/territories (2002)

T ≤ 1 (Group A)	1 < T ≤ 5 (B)	5 < T ≤ 10 (C)	10 < T ≤ 20 (D)	20 < T ≤ 35 (E)	35 < T ≤ 50 (F)	T > 50 (G)
Afghanistan*	Albania	Algeria	Armenia	Argentina	Andorra	Anguilla+
Angola*	Bhutan*	Bolivia	Azerbaijan	Bahrain	Antigua & Barbuda+	Australia
Bangladesh*	Comoros*	Botswana	Belize	Belarus	Aruba	Bermuda
Benin*	Côte d'Ivoire	Cuba	Bosnia	Brazil	Ascension+	British Virgin Islands+
Burkina Faso*	D.P.R. Korea	El Salvador	Cape Verde*	Brunei Darussalam	Austria	Canada
Burundi*	Djibouti*	Guatemala	China	Chile	Bahamas+	Cayman Islands+
Cambodia*	Equatorial Guinea*	Guyana	Colombia	Cook Islands+	Barbados+	Cyprus
Cameroon	Gabon	Kyrgyzstan	Dominican Rep.	Costa Rica	Belgium	Denmark
Central African Rep.*	Gambia*	Marshall Islands+	Ecuador	Dominica+	Bulgaria	Falkland Islands (Malvinas)+
Chad*	Ghana	Mayotte+	Egypt	French Guyana	Croatia	Faroe Islands
Congo	Honduras	Micronesia+	Fiji	French Polynesia+	Czech Republic	Finland
DPR Congo*	India	Namibia*	Georgia	Grenada+	Estonia	France
Eritrea*	Indonesia	Oman	Iran (I.R.)	Kuwait	Greenland	Germany
Ethiopia*	Iraq	Paraguay	Jamaica	Latvia	Guadeloupe	Gibraltar
Guinea*	Kenya	Peru	Jordan	Lithuania	Guam	Greece
Guinea-Bissau*	Kiribati*+	Samoa*+	Kazakhstan	Mauritius	Hungary	Guernsey
Haiti*	Lesotho*	Thailand	Lebanon	New Caledonia+	Ireland	Hong Kong, China
Lao P.D.R.*	Mongolia	Tonga+	Libya	Poland	Israel	Iceland+
Liberia*	Morocco	Turkmenistan	Malaysia	Puerto Rico	Italy	Japan
Madagascar*	Nepal*	Tuvalu*+	Maldives*+	Qatar	Korea (Rep.)	Jersey
Malawi*	Nicaragua*	Uzbekistan	Mexico	Russia	Macao, China	Liechtenstein
Mali*	Pakistan	West Bank and Gaza	Moldova	Seychelles+	Martinique	Luxembourg
Mauritania*	Papua New Guinea		Nauru+	Slovak Republic	Neth. Antilles+	Malta
Mozambique*	Philippines		Panama	St. Helena+	New Zealand	Monaco
Myanmar*	S.Tomé and Príncipe*+		Romania	St. Lucia+	Portugal	Montserrat+
Niger*	Senegal*		Saudi Arabia	St. Vincent+	Reunion	Niue+
Nigeria	Solomon Islands*		South Africa	TFYR Macedonia	Singapore	Netherlands
Rwanda*	Sri Lanka		Suriname	Trinidad & Tobago	Slovenia	Northern Mariana Islands+
Sierra Leone*	Sudan*		Syria	Turkey	Spain	Norway
Somalia*	Swaziland		Tunisia	Turks & Caicos+	United Arab Emirates	San Marino
Tanzania*	Tajikistan		Venezuela	Ukraine		St. Kitts and Nevis+
Uganda*	Togo*		Wallis and Futuna+	Uruguay		St. Pierre and Miquelon
Zambia*	Vanuatu*+			Yugoslavia F.R.		Sweden
	Viet Nam					Switzerland
	Yemen*					Taiwan, China
	Zimbabwe					United Kingdom
						United States
						Virgin Islands (US)

\* (LDC) Least Developed Country and "as if LDC"

+ Small island state

NOTE – Teledensity: As of 1 January 2002.

### Summary of settlement rates and indicative target rates, for different teledensity groups

Expressed in SDRs per minute. Teledensity (T) is telephone lines per 100 inhabitants

	Group A	Group B	Group C	Group D	Group E	Group F	Group G
Definition	Teledensity $T \leq 1$	Teledensity $1 < T \leq 5$	Teledensity $5 < T \leq 10$	Teledensity $10 < T \leq 20$	Teledensity $20 < T \leq 35$	Teledensity $T \leq 1$	Teledensity $T > 50$
No. of countries/territories	33	36	22	32	33	30	38
Number of replies from countries/territories	6	3	5	5	3	3	4
Average settlement rate (Target rates)	<b>0.137</b>	<b>0.130</b>	<b>0.128</b>	<b>0.117</b>	<b>0.107</b>	<b>0.081</b>	<b>0.025</b>
Minimum settlement rate in countries/territories	A: 0.16 B: 0.13 C: 0.18 D: 0.16 E: 0.0882 F: 0.105	A: 0.175 B: 0.07 C: 0.15	A: 0.09 B: 0.133 C: 0.15 D: 0.14 E: 0.125	A: 0.157 B: 0.115 C: 0.148 D: 0.09 E: 0.075	A: 0.10 B: 0.07 C: 0.15	A: 0.055 B: 0.1 C: 0.089	A: 0.015 B: 0.02 C: 0.03 D: 0.025
<b>Average</b>	<b>0.1372</b>	<b>0.132</b>	<b>0.1276</b>	<b>0.117</b>	<b>0.107</b>	<b>0.0813</b>	<b>0.025</b>
NOTE 1 – Target rates are based on the average of the minimum settlement rates collected in each category.							
NOTE 2 – The data used to define teledensity groups is valid for 1 January 2002.							
NOTE 3 – Each country/territory is treated as a single data item. Where there are multiple operators, the average is taken.							
NOTE 4 – For small island states and Least Developed Countries, separate categories are proposed.							



## SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of ITU-T
Series B	Means of expression: definitions, symbols, classification
Series C	General telecommunication statistics
<b>Series D</b>	<b>General tariff principles</b>
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Cable networks and transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks and open system communications
Series Y	Global information infrastructure and Internet protocol aspects
Series Z	Languages and general software aspects for telecommunication systems