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SERIES D: GENERAL TARIFF PRINCIPLES

General tariff principles – Charging and accounting in the
mobile services

**Charging and accounting in the international
land mobile telephone service (provided via
cellular radio systems)**

Recommendation ITU-T D.93

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Recommendation ITU-T D.93

Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)

Summary

Recommendation ITU-T D.93 sets out the principles for charging, billing, international accounting and settlement for the international land mobile telephone service provided via cellular radio systems. It also covers the applications of charging and accounting principles for various call routing scenarios.

Source

Recommendation ITU-T D.93 was approved on 23 January 2009 by ITU-T Study Group 3 (2009-2012) under the WTSA Resolution 1 procedure.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). 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.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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Recommendation ITU-T D.93

Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)

1 General considerations

1.1 In the land mobile telephony service, the Home Public Land Mobile Network (HPLMN) will know the location of all operational mobile stations for which it is the home registered network, when the station is operating within its HPLMN or has roamed in accordance with the principles contained in ITU-T Recommendations of the Q.1000 series.

1.2 The Visited Public Land Mobile Network (VPLMN) will be able to access and record the necessary details of any mobile station which has roamed and registered with it, such that it can forward all necessary billing information to the HPLMN.

1.3 Mobile stations will only be able to roam to another Public Land Mobile Network (PLMN):

- upon the conclusion of a bilateral agreement between PLMNs;
- upon the granting by the HPLMN of the option to roam to the mobile station.

1.4 As part of the bilateral agreement, the HPLMN should undertake to pay the VPLMN the charges incurred by the HPLMN registered mobile subscribers.

1.5 Examples of the application of the charging and accounting principles, set out below, for various call routing scenarios are given in Annex A.

1.6 Definitions

1.6.1 home PLMN

The PLMN in which a mobile station is permanently registered.

1.6.2 home location register

The location register to which a mobile station is assigned for record purposes such as subscriber information

1.6.3 visited PLMN

The PLMN, other than the home PLMN, in which a roaming subscriber is currently located.

1.6.4 visitor location register

The location register, other than the home location register used by an MSC to retrieve information for, for instance, handling of calls to or from a roaming mobile station, currently located in its area.

1.6.5 mobile station roaming number

The network internal number used for routing of calls to the mobile station. See Recommendation ITU-T E.213.

2 Principles for charging

2.1 The charge structure and level in any country is a national matter.

2.2 HPLMN charging

2.2.1 The HPLMN is responsible for billing the mobile subscriber for all incurred charges.

2.2.2 Charging structures should be as simple as possible.