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SERIES D: GENERAL TARIFF PRINCIPLES

General tariff principles – Charging and accounting principles for international telecommunication services provided over the ISDN

International accounting for the use of the signal transfer point and/or signalling point for relay in Signalling System No. 7

Supplement 1 – Guidelines for international short message service (SMS) interconnection

Recommendation ITU-T D.211 – Supplement 1

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Recommendation ITU-T D.211

International accounting for the use of the signal transfer point and/or signalling point for relay in Signalling System No. 7

Supplement 1

Guidelines for international short message service (SMS) interconnection

Summary

Supplement 1 to Recommendation ITU-T D.211 discusses the question of interconnection for international short message service (SMS) delivered by signalling system No. 7 (SS7) and provides some suggestions.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T D.211	1988-11-25	
2.0	ITU-T D.211	1996-10-18	3
3.0	ITU-T D.211	1998-12-15	3
3.1	ITU-T D.211 Suppl.1	2010-05-21	3

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

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Recommendation ITU-T D.211

International accounting for the use of the signal transfer point and/or signalling point for relay in Signalling System No. 7

Supplement 1

Guidelines for international short message service (SMS) interconnection

1 Scope

This supplement discusses the question of interconnection for international short message service (SMS) delivered by signalling system No. 7 (SS7) and provides some suggestions.

2 References

- [ITU-T D.000] Recommendation ITU-T D.000 (2010), *Terms and definitions for the D-series Recommendations*.
- [ITU-T D.93] Recommendation ITU-T D.93 (2009), *Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)*.
- [[ITU-T D.140] Recommendation ITU-T D.140 (2002), *Accounting rate principles for the international telephone service*.
- [ITU-T D.211] Recommendation ITU-T D.211 (1998), *International accounting for the use of the signal transfer point and/or signalling point for relay in signalling system No. 7*.

3 Accounting, settlement and adherence to standards

Certain general principles may be followed in case of any SMS interconnection, whether bilateral or through hub.

3.1 Transparency

It should be incumbent upon the participating operators/networks to follow transparency on routing and charging. This means that operators' interconnection fees and the SMS transit charge should be visible to participants.

3.2 Transit charges

The transit charges for establishing SMS interconnection in case of hubbing should recognize the advantages of hubbing, in particular that fewer hops may be required between the originating and the terminating network.

3.3 General considerations

National regulators or operators may wish to review the SMS interconnection rates, in the light of evolution of the wholesale of SMS traffic as a business segment. The growing volume of SMS traffic has an impact on the signalling system No. 7 (SS7) network, and any resulting upgrade costs could be reflected, as appropriate, in the pricing of SMS services.

Whereas hubbing is a feasible option for facilitating interconnection between networks, it alone is not sufficient to ensure the cost-based orientation of termination charges.

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