

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

D.233

(07/96)

SERIES D: GENERAL TARIFF PRINCIPLES

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

Charging and accounting principles to be applied to the reversed charge supplementary service

ITU-T Recommendation D.233

(Previously CCITT Recommendation)

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ITU-T RECOMMENDATION D.233

CHARGING AND ACCOUNTING PRINCIPLES TO BE APPLIED TO THE REVERSED CHARGE SUPPLEMENTARY SERVICE

Source

ITU-T Recommendation D.233 was prepared by ITU-T Study Group 3 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 1st of July 1996.

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. Some 179 member countries, 84 telecom operating entities, 145 scientific and industrial organizations and 38 international organizations participate in ITU-T which is the body which sets world telecommunications standards (Recommendations).

The approval of Recommendations by the Members of ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, 1993). In addition, the World Telecommunication Standardization Conference (WTSC), which meets every four years, approves Recommendations submitted to it and establishes the study programme for the following period.

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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Recommendation D.233

CHARGING AND ACCOUNTING PRINCIPLES TO BE APPLIED TO THE REVERSED CHARGE SUPPLEMENTARY SERVICE

(Geneva, 1996)

Preamble

This Recommendation sets out the general principles for charging and accounting to be applied by Administrations for the provision of the Reversed Charge Supplementary Service over the ISDN. This service is defined in Recommendation I.256.3

1 General

1.1 The Reversed Charge Supplementary Service for the ISDN requires no Operator involvement and is not restricted to telephony. The service is defined with four cases each of which applies the Reversed Charge function differently. All service cases are established on the basis of bilateral agreement. Table 1 summarizes the differences and highlights the functionality that has the most bearing on charging and accounting.

TABLE 1/D.233

Case A	Case B	Case C ^{a)}	Case D
Calling Party	Either	Called Party	Not Requested
Call Set-Up	During Call	During Call	N/A
	Calling Party	Calling Party Either	Calling Party Either Called Party

^{a)} Since the charge is to be reversed for the entire call, there is a need to retroactively adjust the status of the call.

2 Charging

- **2.1** Cases A through C all require the Called Party to accept and invoke the Reverse Charged Service. Therefore, an Invocation Charge would be applied to each of these cases.
- 2.2 Case D requires the setting up of the network mechanisms to accept the calls on a reverse charged basis. Charges for Case D should be on the basis of:
- a) a subscription or rental charge; or
- b) invocation charges; or
- c) a combination of a) and b) above.

3 Bearer service implications

3.1 By invoking the Reverse Charge Supplementary Service, the Called Party becomes responsible for the charges that are applicable to the related bearer service. For Cases A, C and D that responsibility applies to the entire call. For Case B the Calling Party has responsibility for the call charges up to the time of invocation. Beyond that time the charges are the responsibility of the Called Party. Table 2 describes those responsibilities:

TABLE 2/D.233

Function	Case A	Case B	Case C	Case D
Reverse Charge Requested By	Calling Party	Either	Called Party	Not Requested
Reverse Charge Requested At	Call Set-Up	During Call	During Call	N/A
Invocation Charge Paid By	Called Party	Called Party	Called Party	N/A ^{a)}
Bearer Usage until Invocation Paid By	N/A	Calling Party	Called Party	N/A ^{a)}
Bearer Usage after Invocation Paid By	Called Party	Called Party	Called Party	Called Party

^{a)} Case D requires no invocation and may therefore have no Invocation Charge. The Called Party for the entire call.

4 Accounting

- **4.1** Accounting is not required for the Invocation Charges.
- 4.2 Accounting for the bearer services as covered under Recommendation D.220 relates to calls set-up and paid for by the Calling Party. The Reverse Charge Supplementary service requires that bearer service charges for Cases A and D be treated as those for calls originated by the Called Party and accounted for accordingly. Case B requires that the call up to the time of invocation be treated as a normal sent paid call while the call beyond the time of invocation be treated as a call originated by the Called Party. Accounting may therefore appear as related to two separate calls. Case C should be accounted for as a single call originated by the Called Party.

5 Interworking implications

5.1 The principles defined above apply to the Reversed Charge Supplementary Service in a total ISDN environment. The requirements to start and stop billing, collect data in a different form, perhaps retroactively, may not be supported across interworking interfaces. This aspect of the Reversed Charge Supplementary Service as well as the possible interaction of other Supplementary services with the related bearer service is therefore left for further study.

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