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SPECIFICATIONS OF SIGNALLING SYSTEM No. 7

STAGE 3 DESCRIPTION FOR CHARGING SUPPLEMENTARY SERVICES USING SIGNALLING SYSTEM No. 7

Clause 1 – International Telecommunication Charge Card (ITCC)

ITU-T Recommendation Q.736

(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 Q.736, clause 1 was prepared by ITU-T Study Group 11 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 17th of October 1995.

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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SUMMARY

This Recommendation defines the essential functions, procedures and messages required for the validation of the International Telecommunication Charge Cards. The signalling provides for the validation and call completion information between a service control point and a service data point during a charge card call.

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Recommendation Q.736

STAGE 3 DESCRIPTION FOR CHARGING SUPPLEMENTARY SERVICES USING SIGNALLING SYSTEM No. 7

(Geneva, 1995)

1 International Telecommunication Charge Card (ITCC)

1.1 Introduction

1.1.1 Scope

The International Telecommunication Charge Card (ITCC) Service allows the holders of a telecommunication charge card to make use of a variety of telecommunications services provided by the card acceptor and have the charges billed to the customers account by the card issuer.

1.1.2 References

The following Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision: all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- [1] ITU-T Recommendation E.113 (1993), *Validation procedures for the international telecommunications charge card service.*
- [2] CCITT Recommendation E.116 (1992), *International telecommunication charge card service.*
- [3] CCITT Recommendation E.118 (1992), *The International telecommunication charge card.*
- [4] ITU-T Recommendation clause 7/Q.86 (1995), *Stage 2 description for charging supplementary services – International Telecommunication Charge Card (ITCC).*
- [5] ITU-T Recommendation Q.711 (1993), *Signalling System No. 7 – Functional description of the signalling connection control part.*
- [6] ITU-T Recommendation Q.712 (1993), *Signalling System No. 7 – Definition and function of SCCP messages.*
- [7] ITU-T Recommendation Q.713 (1993), *Signalling System No. 7 – SCCP formats and codes.*
- [8] ITU-T Recommendation Q.714 (1993), *Signalling System No. 7 – Signalling Connection Control Part procedures.*
- [9] ITU-T Recommendation Q.763 (1993), *Formats and codes of the ISDN user part of Signalling System No. 7.*
- [10] ITU-T Recommendation Q.771 (1993), *Signalling System No. 7 – Functional description of transaction capabilities.*
- [11] ITU-T Recommendation Q.772 (1993), *Signalling System No. 7 – Transaction capabilities information element definitions.*
- [12] ITU-T Recommendation Q.773 (1993), *Signalling System No. 7 – SCCP formats and codes.*
- [13] ITU-T Recommendation Q.774 (1993), *Signalling System No. 7 – Transaction capabilities procedures.*



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- [14] ITU-T Recommendation Q.775 (1993), *Signalling System No. 7 – Guidelines for using Transaction Capabilities*.
- [15] CCITT Recommendation X.208 (1988), *Specification of Abstract Syntax Notation One (ASN.1)*.
- [16] ITU-T Recommendation X.680 (1994)/Amendment 1 (1995), *Information technology – Abstract Syntax Notation One (ASN.1) – Specification of basic notation – Amendment 1: Rules of extensibility*.

1.1.3 Definition of terms

For the purposes of this Recommendation, the following definitions apply.

1.1.3.1 card issuer: The network operator that issues the charge card. The card issuer is responsible for the collection charges from the card holder and for making the appropriate payments for the service concerned to the card acceptor.

1.1.3.2 card acceptor: The network operator that accepts the use of the charge card as payment for the provision of certain telecommunication services.

1.1.3.3 primary account number: The Primary Account Number is the number assigned to a charge card. Its numbering system is specified in Recommendation E.118. It is obtained from the card or the user when the user attempts to make a charge card call. The issuer identification number, which is a subpart of the Primary account number, can be used by the card acceptor to identify the card issuer.

1.1.3.4 personal identification number: The Personal Identification Number is used by the card issuer to validate a charge card user. It is obtained from the charge card or the user when the user attempts to make a charge card call.

1.1.3.5 called party number: The full international called party number should be included in the request for the charge card validation. This information is necessary for some network operators to manage the restricted use of some cards as well as for card issuers to ensure that proper agreements exist to bill, collect and settle the call. It is also used in the detection of the fraud.

1.1.3.6 calling party number: The full international calling party number, where available, should be included in the request for the charge card validation. As an alternative, the ITU country code may be provided where the calling party number is not available. The use of this information is subject to agreements between network operators. This information may be used by some network operators to manage the restricted use of some cards as well as for card issuers to ensure that proper agreements exist to bill, collect and settle the call. It is also used in the detection of fraud.

1.1.3.7 card acceptor identifier: The Card Acceptor Identifier is used by the card issuer to identify the network operator accepting the telecommunication charge card. It contains the issuer identification number of the card acceptor network operator.

1.1.3.8 response code: The Response Code shows a positive result of a charge card validation.

1.1.3.9 service denied: The Service Denied shows a negative result of a charge card validation. This is returned when the result denies the requested call connection for service specific errors.

1.1.3.10 input error: Input Error shows a negative result of a charge card validation. This is returned when any format error in a validation request is found at the card issuer.

1.1.3.11 service denied cause: The Service Denied Cause shows detailed information of a service specific error.

1.1.3.12 input error cause: The Input Error Cause shows detailed information of message format error found in a charge validation request.