



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.2764

Amendment 1
(12/2002)

SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for the
network signalling

Signalling System No. 7 B-ISDN User Part (B-ISUP)
– Basic call procedures

**Amendment 1: Support for the International
Emergency Preference Scheme**

ITU-T Recommendation Q.2764 (1999) – Amendment 1

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ITU-T Recommendation Q.2764

Signalling System No. 7 B-ISDN User Part (B-ISUP) – Basic call procedures

Amendment 1

Support for the International Emergency Preference Scheme

Summary

This amendment was produced to meet the urgent need for the implementation of the International Emergency Preference Scheme (IEPS) as specified in ITU-T Rec. E.106. This amendment contains the modifications to ITU-T Rec. Q.2764 (12/99) in order to accommodate these needs. This amendment should be read in connection with the related amendments to ITU-T Recs Q.2761, Q.2762, and Q.2763.

Source

Amendment 1 to ITU-T Recommendation Q.2764 (1999) was prepared by ITU-T Study Group 11 (2001-2004) and approved under the WTSA Resolution 1 procedure on 29 December 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.

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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.

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ITU-T Recommendation Q.2764

Signalling System No. 7 B-ISDN User Part (B-ISUP) – Basic call procedures

Amendment 1

Support for the International Emergency Preference Scheme

1) Clause 1.4 – Abbreviations

Add the following new abbreviation alphabetically:

IEPS International Emergency Preference Scheme

2) Clause 2.2.1.3.2 – Other actions at the exchange

Add the following:

e) *International Emergency Preference Scheme*

If an outgoing international exchange receives information from the national network that the call is to be treated as an IEPS call (e.g. CPC value of IEPS), call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

3) Clause 2.2.1.4.2 – Other actions at the exchange

Add the following:

e) *International Emergency Preference Scheme*

If an intermediate international exchange receives a call with CPC set to IEPS, the call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

4) **Clause 2.2.1.5.2 – Other actions at the exchange**

Add the following:

e) *International Emergency Preference Scheme*

If an incoming international exchange receives a call with CPC set to IEPS, the call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking or national specific information for IEPS call treatment in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

5) **Clause 2.2.2.3.2 – Other actions at the exchange**

Add the following:

e) *International Emergency Preference Scheme*

If an outgoing international exchange receives information from the national network that the call is to be treated as an IEPS call (e.g. CPC value of IEPS), call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

6) **Clause 2.2.2.4.2 – Other actions at the exchange**

Add the following:

e) *International Emergency Preference Scheme*

If an intermediate international exchange receives a call with CPC set to IEPS, the call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

7) Clause 2.2.2.5.2 – Other actions at the exchange

Add the following:

e) *International Emergency Preference Scheme*

If an incoming international exchange receives a call with CPC set to IEPS, the call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking or national specific information for IEPS call treatment in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

8) Clause 2.2.3.3.2 – Other actions at the exchange

Add the following:

e) *International Emergency Preference Scheme*

If an outgoing international exchange receives information from the national network that the call is to be treated as an IEPS call (e.g. CPC value of IEPS), call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

9) Clause 2.2.3.4.2 – Other actions at the exchange

Add the following:

e) *International Emergency Preference Scheme*

If an intermediate international exchange receives a call with CPC set to IEPS, the call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

10) Clause 2.2.3.5.2 – Other actions at the exchange

Add the following:

e) *International Emergency Preference Scheme*

If an incoming international exchange receives a call with CPC set to IEPS, the call establishment proceeds with priority. The call is established with the CPC set as IEPS call marking or national specific information for IEPS call treatment in the *Set_Up request primitive*. Restrictive network management controls (e.g. Automatic Call Gapping, B-ISUP Signalling Congestion Control, Automatic Congestion Control, Hard-to-Reach procedure) are not applied to this call.

If routing procedures fail to establish an outgoing call, the call is queued and shall take precedence over any other normal call attempts.

Optionally, if queuing occurs, an early ACM (called party status set to "no indication") with the inclusion of the generic notification parameter set to "call completion delay" may be returned to the originating exchange.

11) Clause 2.3.1 – Lack of resources at the incoming side

Add the following paragraph at the end of the clause:

Lack of resources at the incoming side may prevent the determination by the exchange that this is an IEPS call attempt. Therefore, the call attempt would be released in the same manner as any other call attempt. Once the call attempt has been determined to be an IEPS call attempt, then it will be given preferential treatment.

12) Clause 2.3.2 – Lack of resources at the outgoing side

Add the following paragraph at the end of the clause:

If, however, the outgoing call/connection is associated with an international emergency preference call/connection and queuing is not successful, the call and the connection are released as specified in 2.4.

13) Clause 2.8.1 – Lack of resources

Add the following paragraph at the end of the clause:

Regardless of the option, if, however, the call/connection is associated with an international emergency preference call/connection, the actions at the exchange are for further study.

14) Clause 2.15 – Primitive contents

Add a new parameter at the end of Table 2-2/Q.2764 as follows:

Table 2-2/Q.2764 – Parameters for Set_Up Request/Indication primitive

Set_Up Request/Indication		
Parameter	B-ISDN	N-ISDN
International Emergency Preference Scheme Information	O	O

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