

I n t e r n a t i o n a l T e l e c o m m u n i c a t i o n U n i o n

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**Q.1950**  
**Amendment 1**  
(01/2006)

SERIES Q: SWITCHING AND SIGNALLING

Specifications of signalling related to Bearer Independent  
Call Control (BICC)

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Bearer independent call bearer control protocol

**Amendment 1: New Annex G – Call bearer  
control – International Emergency Preference  
Scheme**

ITU-T Recommendation Q.1950 (2002) – Amendment 1



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# **ITU-T Recommendation Q.1950**

## **Bearer independent call bearer control protocol**

### **Amendment 1**

#### **New Annex G – Call bearer control – International Emergency Preference Scheme**

##### **Summary**

This amendment contains the procedures, formats and codes with regard to the Call Bearer Control function to support the International Emergency Preference Scheme (IEPS), which is specified in ITU-T Rec. E.106, in Bearer Independent Call Control (BICC) based networks.

##### **Source**

Amendment 1 to ITU-T Recommendation Q.1950 (2002) was approved on 27 January 2006 by ITU-T Study Group 11 (2005-2008) under the WTSA Resolution 1 procedure.

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# ITU-T Recommendation Q.1950

## Bearer independent call bearer control protocol

### Amendment 1

#### New Annex G – Call bearer control – International Emergency Preference Scheme

##### G.1 Introduction

This annex describes the enhancements to the Q.1950 Call Bearer Control interface enabling the CSF to indicate to a BIWF that a particular context/call is being used for the International Emergency Preference Scheme.

##### G.2 References

###### G.2.1 Normative References

- ITU-T Recommendation E.106 (2003), *International Emergency Preference Scheme (IEPS) for disaster relief operations*.
- ITU-T Recommendation H.248.1 (2005), *Gateway control protocol: Version 3*.

###### G.2.2 Informative References

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##### G.3 Definitions

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##### G.4 Abbreviations

IEPS International Emergency Preference Scheme

##### G.5 Definition of signalling flow objects

The following object is the signalling object to be carried by the commands in the transactions.

- 1) **IEPS indicator:** Indicates that the terminations and bearer connections in the specified context are associated with the features and techniques of ITU-T Rec. E.106 to be achieved.

##### G.6 Emergency service capability set

As per clause 6.

##### G.7 CBC procedures – Call-related

This clause contains the Call-Related procedures for IEPS when used in conjunction with Q.1950.

###### G.7.1 CSM transactions

The following transaction is used to indicate that a procedure is to be initiated by the CSM. The transaction leads to commands being sent across the CBC interface. See Table G.1.

**Table G.1/Q.1950 – Call-related CSM originated transactions on the CBC interface**

Transaction	Description
IEPS_Indication	This transaction is used to indicate to the BIWF that the IEPS service is used and IEPS handling should apply to the applicable context.

### G.7.1.1 IEPS\_Indication

When the transaction "IEPS\_Indication" is required the following procedure is initiated.

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An ADD.req, MOD.req or MOV.req command is sent with the following information.

<b>1</b> <b>ADD.req/MOD.req/MOV.req (... IEPS_Indication)</b>	<b>CSM to BIWF</b>
<u><b>Address Information</b></u> As per flow (1) 7.1.1/Q.1950 Prepare_BNC_Notify <u>or</u> As per flow (1) 7.1.2/Q.1950 Establish_BNC_Notify	<u><b>Control information</b></u> As per flow (1) 7.1.1/Q.1950 Prepare_BNC_Notify  With the following additions: <u>If Context Requested &amp; IEPS Call:</u> IEPS Indicator  OR:  As per flow (1) 7.1.2/Q.1950 Establish_BNC_Notify  With the following additions: <u>If Context is NOT provided &amp; IEPS Call:</u> IEPS Indicator

Upon reception of the command, the BIWF shall:

- If the IEPS Indicator is present, apply preferential handling according to E.106, with respect to all resources associated with the specified context. Mapping to any priority values present in the relevant bearer control protocol, including the application of pre-emption, is out of scope of this Recommendation.
- Apply the procedures of 7.1.1/Q.1950 Prepare\_BNC\_Notify or 7.1.2/Q.1950 Establish\_BNC\_Notify as applicable.

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Upon completion of processing command (1) an ADD.resp, MOD.resp or MOV.resp command (2) is sent.

<b>2</b> <b>ADD.resp/MOD.resp/MOV.resp</b>	<b>BIWF to CSM</b>
<u><b>Address Information</b></u> As per flow (1) 7.1.1/Q.1950 Prepare_BNC_Notify <u>or</u> As per flow (1) 7.1.2/Q.1950 Establish_BNC_Notify	<u><b>Control information</b></u> As per flow (1) 7.1.1/Q.1950 Prepare_BNC_Notify <u>or</u> As per flow (1) 7.1.2/Q.1950 Establish_BNC_Notify

### G.7.2 BIWF transactions

### G.8 Formats and codes

This clause outlines the encoding of the IEPS when used with the CBC protocol.



### **G.8.1 Formats and codes – General**

As per 10.1.

### **G.8.2 Formats and codes – Commands**

As per 10.2.

### **G.8.3 Formats and codes – Signalling objects**

See Table G.2.

**Table G.2/Q.1950 – CBC signalling object to H.248.1 coding mapping table**

<b>CBC signalling object</b>	<b>H.248.1 descriptor</b>	<b>H.248.1 coding</b>
IEPS Indicator	NA	6.1.1/H.248.1 IEPS Indicator encoded as per Annexes A/H.248.1 (IEPS Call Ind) or B/H.248.1 (IEPS Value) context attribute.





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