

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Q.1902.3

Amendment 5

(10/2009)

SERIES Q: SWITCHING AND SIGNALLING

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

Bearer Independent Call Control protocol
(Capability Set 2) and Signalling System No. 7
ISDN user part: Formats and codes

**Amendment 5: Support for the customized
alerting tone (CAT) service**

Recommendation ITU-T Q.1902.3 (2001) –
Amendment 5

ITU-T Q-SERIES RECOMMENDATIONS
SWITCHING AND SIGNALLING

SIGNALLING IN THE INTERNATIONAL MANUAL SERVICE	Q.1–Q.3
INTERNATIONAL AUTOMATIC AND SEMI-AUTOMATIC WORKING	Q.4–Q.59
FUNCTIONS AND INFORMATION FLOWS FOR SERVICES IN THE ISDN	Q.60–Q.99
CLAUSES APPLICABLE TO ITU-T STANDARD SYSTEMS	Q.100–Q.119
SPECIFICATIONS OF SIGNALLING SYSTEMS No. 4, 5, 6, R1 AND R2	Q.120–Q.499
DIGITAL EXCHANGES	Q.500–Q.599
INTERWORKING OF SIGNALLING SYSTEMS	Q.600–Q.699
SPECIFICATIONS OF SIGNALLING SYSTEM No. 7	Q.700–Q.799
Q3 INTERFACE	Q.800–Q.849
DIGITAL SUBSCRIBER SIGNALLING SYSTEM No. 1	Q.850–Q.999
PUBLIC LAND MOBILE NETWORK	Q.1000–Q.1099
INTERWORKING WITH SATELLITE MOBILE SYSTEMS	Q.1100–Q.1199
INTELLIGENT NETWORK	Q.1200–Q.1699
SIGNALLING REQUIREMENTS AND PROTOCOLS FOR IMT-2000	Q.1700–Q.1799
SPECIFICATIONS OF SIGNALLING RELATED TO BEARER INDEPENDENT CALL CONTROL (BICC)	Q.1900–Q.1999
BROADBAND ISDN	Q.2000–Q.2999
SIGNALLING REQUIREMENTS AND PROTOCOLS FOR THE NGN	Q.3000–Q.3999

For further details, please refer to the list of ITU-T Recommendations.

Recommendation ITU-T Q.1902.3

Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No. 7 ISDN user part: Formats and codes

Amendment 5

Support for the customized alerting tone (CAT) service

Summary

Amendment 5 to Recommendation ITU-T Q.1902.3 was produced to meet the need for the implementation of the customized alerting tone (CAT) service as specified in ETSI TS 123.205 (2009). This amendment contains the modifications to Recommendation ITU-T Q.1902.3 (2001) in order to accommodate these needs. This amendment should be read in connection with the related amendments to Recommendations ITU-T Q.1902.1 and ITU-T Q.1902.2.

Source

Amendment 5 to Recommendation ITU-T Q.1902.3 (2001) was approved on 29 October 2009 by ITU-T Study Group 11 (2009-2012) under Recommendation ITU-T A.8 procedures.

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

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure e.g. interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

INTELLECTUAL PROPERTY RIGHTS

ITU draws attention to the possibility that the practice or implementation of this Recommendation may involve the use of a claimed Intellectual Property Right. ITU takes no position concerning the evidence, validity or applicability of claimed Intellectual Property Rights, whether asserted by ITU members or others outside of the Recommendation development process.

As of the date of approval of this Recommendation, ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

© ITU 2010

All rights reserved. No part of this publication may be reproduced, by any means whatsoever, without the prior written permission of ITU.

CONTENTS

	Page
1) Clause 2 – References.....	1
2) Clause 4 – Abbreviations.....	1
3) Table 2.....	1
4) Table 18.....	1
5) Table 22.....	2
6) Table 38.....	2
7) Table 46.....	2
8) New clause 6.110 – Forward customized alerting tone indicators.....	2
9) New clause 6.111 – Backward customized alerting tone indicators.....	3

Recommendation ITU-T Q.1902.3

Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No. 7 ISDN user part: Formats and codes

Amendment 5

Support for the customized alerting tone (CAT) service

1) Clause 2 – References

Add the following reference:

[2] ETSI TS 123.205 (2009), *Bearer-independent circuit-switched core network; Stage 2.*

2) Clause 4 – Abbreviations

Add the following abbreviation in alphabetical order:

CAT Customized Alerting Tone

3) Table 2

Modify Table 2 in order to introduce the following new forward CAT indicators (6.110) and new backward CAT indicators (6.111):

Table 2 – Parameter name codes

Parameter name	Reference (clause)	Code	Note
Forward CAT indicators	6.110	1 0 0 0 1 1 1 0	
Backward CAT indicators	6.111	1 0 0 0 1 1 1 1	

4) Table 18

Modify Table 18 to include the backward CAT indicators parameter in the ACM message.

Table 18

Message type: Address Complete			
Parameter	Reference (clause)	Type	Length (octets)
Backward CAT indicators	6.111	O	1

5) **Table 22**

Modify Table 22 to include the backward CAT indicators parameter in the CPG message.

Table 22

Message type: Call progress			
Parameter	Reference (clause)	Type	Length (octets)
Backward CAT indicators	6.111	O	1

6) **Table 38**

Modify Table 38 to include the forward CAT indicators parameter in the IAM message.

Table 38

Message type: Initial Address			
Parameter	Reference (clause)	Type	Length (octets)
Forward CAT indicators	6.110	O	3

7) **Table 46**

Modify Table 46 to include the forward CAT indicators parameter or backward CAT indicators parameter in the SEG message.

Table 46

Message type: Segmentation			
Parameter	Reference (clause)	Type	Length (octets)
Forward CAT indicators	6.110	O	3
Backward CAT indicators	6.111	O	1

8) **New clause 6.110 – Forward customized alerting tone indicators**

Add new clause 6.110 defining the forward CAT indicators parameter as follows:

6.110 Forward customized alerting tone indicators

The format of the forward customized alerting tone indicators parameter field is shown in Figure 127.

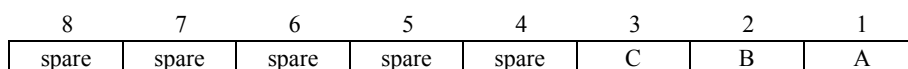


Figure 127 – Forward customized alerting tone indicators parameter field

The following codes are used in the forward CAT indicators parameter field:

- Bit A *Multimedia CAT capability indicator*
 - 0 No indication
 - 1 CAT supported
- Bits C B *CAT Priority indicator*
 - 0 0 no indication
 - 0 1 Priority given to Calling party (CAT-A)
 - 1 0 Priority given to Called party (CAT-B)
 - 1 1 Spare

See ETSI TS 123.205 [2] for a description of the related service and procedures.

9) New clause 6.111 – Backward customized alerting tone indicators

Add new clause 6.111 defining the backward CAT indicators parameter as follows:

6.111 Backward customized alerting tone indicators

The format of the backward customized alerting tone indicators parameter field is shown in Figure 128.

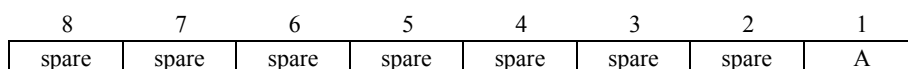


Figure 128 – Backward Customized Alerting Tone parameter field

The following codes are used in the backward CAT indicators parameter field:

- Bit A *CAT content indicator*
 - 0 No indication
 - 1 Inband media content available

See ETSI TS 123.205 [2] for a description of the related service and procedures.

SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of ITU-T
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Cable networks and transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	Telecommunication management, including TMN and network maintenance
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Terminals and subjective and objective assessment methods
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks, open system communications and security
Series Y	Global information infrastructure, Internet protocol aspects and next-generation networks
Series Z	Languages and general software aspects for telecommunication systems