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SERIES Q: SWITCHING AND SIGNALLING

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

BICC IP bearer control protocol

ITU-T Recommendation Q.1970



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BICC IP bearer control protocol

Summary

This Recommendation defines BICC IP bearer control protocol. BICC IP bearer control protocol (IPBCP) is used for the exchange of media stream characteristics, port numbers and IP addresses of the source and sink of a media stream to establish and allow the modification of IP bearers. The information exchanged with IPBCP is done during BICC call establishment. In addition it may be exchanged after a call has been established. IPBCP uses the Session Description Protocol (SDP) defined in RFC 4566 to encode this information.

Source

ITU-T Recommendation Q.1970 was approved on 13 September 2006 by ITU-T Study Group 11 (2005-2008) under the ITU-T Recommendation A.8 procedure.

FOREWORD

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ITU-T Recommendation Q.1970

BICC IP bearer control protocol

1 Scope

This Recommendation defines IP bearer control protocol (IPBCP), which is suitable for use in IP network environments where the Bearer Independent Call Control (BICC) protocol is deployed. IPBCP can be used also in other environments. BICC IPBCP is used for the exchange of media stream characteristics, port numbers and IP addresses of the source and sink of a media stream to establish and allow the modification of IP bearers. The exchange of information with IPBCP is done during BICC call establishment and after a call has been established. IPBCP uses the Session Description Protocol (SDP) defined in RFC 4566 [10] to encode this information.

2 References

The following ITU-T 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; 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. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- [1] ITU-T Recommendation Q.1901 (2000), *Bearer Independent Call Control protocol*.
- [2] ITU-T Recommendation Q.1902.1 (2001), *Bearer Independent Call Control protocol (Capability Set 2): Functional description*.
- [3] ITU-T Recommendation Q.1902.2 (2001), *Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No. 7 ISDN User Part: General functions of messages and parameters*.
- [4] ITU-T Recommendation Q.1902.3 (2001), *Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No. 7 ISDN User Part: Formats and codes*.
- [5] ITU-T Recommendation Q.1902.4 (2001), *Bearer Independent Call Control protocol (Capability Set 2): Basic call procedures*.
- [6] ITU-T Recommendation Q.1902.5 (2001), *Bearer Independent Call Control protocol (Capability Set 2): Exceptions to the Application transport mechanism in the context of BICC*.
- [7] ITU-T Recommendation Q.1902.6 (2001), *Bearer Independent Call Control protocol (Capability Set 2): Generic signalling procedures for the support of the ISDN User Part supplementary services and for bearer redirection*.
- [8] IETF RFC 791 (1981), *Internet Protocol*.
- [9] IETF RFC 3550 (2003), *RTP: A Transport Protocol for Real-Time Applications*.
- [10] IETF RFC 4566 (2006), *SDP: Session Description Protocol*.
- [11] IETF RFC 2460 (1998), *Internet Protocol, Version 6 (IPv6) Specification*.
- [12] IETF RFC 2833 (2000), *RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals*.
- [13] IETF RFC 3388 (2002), *Grouping of Media Lines in the Session Description Protocol (SDP)*.