



SLOVENSKI STANDARD

SIST EN 302 213 V1.1.2:2006

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Services and Protocols for Advanced Networks (SPAN); Bearer Independent Call Control
(BICC) Capability Set 2 (CS2); Protocol specification [ITU-T Recommendations
Q.1902.1, Q.1902.2, Q.1902.3, Q.1902.4, Q.1902.5, Q.1902.6, Q.765.5 Amendment 1,
Q.1912.1, Q.1912.2, Q.1912.3, Q.1912.4, Q.1922.2, Q.1950, Q.1970, Q.1990, Q.2150.0,
Q.2150.1, Q.2150.2, Q.2150.3, modified]

Ta slovenski standard je istoveten z: EN 302 213 Version 1.1.2

ICS:

33.040.35 Telefonska omrežja Telephone networks

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ETSI EN 302 213 V1.1.2 (2004-01)

European Standard (Telecommunications series)

Services and Protocols for Advanced Networks (SPAN); Bearer Independent Call Control (BICC) Capability Set 2 (CS2); Protocol specification

[ITU-T Recommendations Q.1902.1, Q.1902.2, Q.1902.3, Q.1902.4, Q.1902.5, Q.1902.6, Q.765.5 Amendment 1, Q.1912.1, Q.1912.2, Q.1912.3, Q.1912.4, Q.1922.2, Q.1950, Q.1970, Q.1990, Q.2150.0, Q.2150.1, Q.2150.2, Q.2150.3, modified]

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Reference

DEN/SPAN-130261

Keywords

APM, ATM, BICC, CS2, endorsement,
interworking, IP, ISDN, SS7

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

National transposition dates	
Date of adoption of this EN:	19 December 2003
Date of latest announcement of this EN (doa):	31 March 2004
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 September 2004
Date of withdrawal of any conflicting National Standard (dow):	30 September 2004

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1 Scope

The present document provides the ETSI endorsement of the ITU-T Bearer Independent Call Control (BICC) Capability Set 2 protocol Recommendations Q.1902.1 [1], Q.1902.2 [2], Q.1902.3 [3], Q.1902.4 [4], Q.1902.5 [5], Q.1902.6 [6], Q.765.5 [7] Amendment 1 [8], Q.1912.1 [9], Q.1912.2 [10], Q.1912.3 [11], Q.1912.4 [12], Q.1922.2 [13], Q.1950 [14], Q.1970 [15], Q.1990 [16], Q.2150.0 [17], Q.2150.1 [18], Q.2150.2 [19], Q.2150.3 [20].

Formats, codes and procedures marked for national use or as network option are included for informative purposes for the international interface specification. If these items so marked are supported within a national network and operator's network, then it is proposed that they shall be supported in this manner.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

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- [1] ITU-T Recommendation Q.1902.1: "Bearer Independent Call Control protocol (Capability Set 2): Functional description".
 - [2] ITU-T Recommendation Q.1902.2: "Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No. 7 ISDN user part: General functions of messages and parameters".
 - [3] ITU-T Recommendation Q.1902.3: "Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No. 7 ISDN user part: Formats and codes".
 - [4] ITU-T Recommendation Q.1902.4: "Bearer Independent Call Control protocol (Capability Set 2): Basic call procedures".
 - [5] ITU-T Recommendation Q.1902.5: "Bearer Independent Call Control protocol (Capability Set 2): Exceptions to the application transport mechanism in the context of BICC".
 - [6] ITU-T Recommendation Q.1902.6: "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".
 - [7] ITU-T Recommendation Q.765.5: "Signalling system No. 7 - Application transport mechanism: Bearer Independent Call Control (BICC)".
 - [8] ITU-T Recommendation Q.765.5 Amendment 1: "Bearer Independent Call Control Capability Set 2".
 - [9] ITU-T Recommendation Q.1912.1: "Interworking between Signalling System No. 7 ISDN user part and the Bearer Independent Call Control protocol".
 - [10] ITU-T Recommendation Q.1912.2: "Interworking between selected signalling systems (PSTN access, DSS1, C5, R1, R2, TUP) and the Bearer Independent Call Control protocol".
 - [11] ITU-T Recommendation Q.1912.3: "Interworking between H.323 and the Bearer Independent Call Control protocol".

- [12] ITU-T Recommendation Q.1912.4: "Interworking between Digital Subscriber Signalling System No. 2 and the Bearer Independent Call Control protocol".
- [13] ITU-T Recommendation Q.1922.2: "Interaction between the Intelligent Network application protocol Capability set 2 and the Bearer independent call control protocol".
- [14] ITU-T Recommendation Q.1950: "Bearer independent call bearer control protocol".
- [15] ITU-T Recommendation Q.1970: "BICC IP Bearer control protocol".
- [16] ITU-T Recommendation Q.1990: "BICC Bearer Control Tunnelling Protocol".
- [17] ITU-T Recommendation Q.2150.0: "Generic signalling transport service".
- [18] ITU-T Recommendation Q.2150.1: "Signalling Transport Converter on MTP3 and MTP3b".
- [19] ITU-T Recommendation Q.2150.2: "Signalling transport converter on SSCOP and SSCOPMCE".
- [20] ITU-T Recommendation Q.2150.3: "Signalling transport converter on SCTP".
- [21] ETSI EN 301 069-1: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP); Application transport mechanism; Part 1: Protocol specification [ITU-T Recommendation Q.765, modified]".
- [22] ETSI EN 300 485: "Integrated Services Digital Network (ISDN); Definition and usage of cause and location in Digital Subscriber Signalling System No. one (DSS1) and Signalling System No. 7 (SS7) ISDN User Part (ISUP) [ITU-T Recommendation Q.850 (1998) with addendum modified]".
- [23] ETSI EN 300 356-2: "Integrated Services Digital Network (ISDN); Signalling System No. 7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 2: ISDN supplementary service [ITU-T Recommendation Q.730 (1999) modified]".
- [24] ETSI EN 300 356-1: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1999) modified]".
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- [25] ETSI EN 302 097: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP); Enhancement for support of Number Portability (NP) [ITU-T Recommendation Q.769.1 (2000), modified]".
- [26] ETSI EN 301 848-1: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); Bearer Independent Call Control (BICC); Signalling procedures in an ATM/IP/. backbone network; Capability Set 1 (CS1); Part 1: Protocol specification [ITU-T Recommendations Q.1901 and Q.765.5, modified]".
- [27] ETSI EN 300 008-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.701, Q.702, Q.703, Q.704, Q.705, Q.706, Q.707 and Q.708 modified]".
- [28] ETSI EN 301 004-1: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; Message Transfer Part (MTP) level 3 functions and messages to support international interconnection; Part 1: Protocol specification [ITU-T Recommendation Q.2210 (1996), modified]".
- [29] ETSI EN 300 436-1: "Broadband Integrated Services Digital Network (B-ISDN); Signalling ATM Adaptation Layer (SAAL); Service Specific Connection Oriented Protocol (SSCOP); Part 1: Protocol specification [ITU-T Recommendation Q.2110, modified]".
- [30] ETSI EN 301 062-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Support of Virtual Private Network (VPN) applications with Private network Q reference point Signalling System number 1 (PSS1) information flows; Part 1: Protocol specification [ITU-T Recommendations Q.765.1 and Q.699.1, modified]".
- [31] ETSI EN 300 374-1: "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".

- [32] ETSI EN 301 140-1: "Intelligent Network (IN); Intelligent Network Application Protocol (INAP); Capability Set 2 (CS2); Part 1: Protocol specification".
- [33] ETSI ETS 300 656: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; B-ISDN User Part (B-ISUP) Capability Set 1 (CS1); Basic services [ITU-T Recommendations Q.2761 to Q.2764 (1995), modified]".
- [34] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [35] ETSI EN 300 403-2: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 2: Specification and Description Language (SDL) diagrams".
- [36] ETSI EN 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [37] ETSI EN 300 121: "Integrated Services Digital Network (ISDN); Application of the ISDN User Part (ISUP) of ITU-T Signalling System No. 7 (SS7) for international ISDN interconnections (ISUP version 1) Amendment 1: International Emergency Preference Scheme (IEPS) service [ITU-T Recommendation Q.767 Amendment 1 (2002), modified]".
- [38] ETSI EN 300 356 (all parts): "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface".
- [39] ETSI EN 301 850-1: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP); Application transport mechanism; Support of the generic addressing and transport protocol; Part 1: Protocol specification [ITU-T Recommendation Q.765.4, modified]".
- [40] ETSI EN 300 899-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Interworking between ISDN User Part (ISUP) version 2 and Digital Subscriber Signalling System No. one (DSS1); Part 1: Protocol specification [ITU-T Recommendation Q.699, modified]".
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- [41] ETSI TS 101 341: "Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON); Protocol Implementation Conformance Statement (PICS) proforma for the support of supplementary services in H.323; Support of H.450.2: Call transfer supplementary services for H.323".
- [42] ETSI TS 101 342: "Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON); Protocol Implementation Conformance Statement (PICS) proforma for the support of supplementary services in H.323; Support of H.450.3: Call diversion supplementary services for H.323".
- [43] ETSI ETS 300 495: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; Interworking between Broadband ISDN User Part (B-ISUP) and Digital Subscriber Signalling System No. two (DSS2) [ITU-T Recommendation Q.2650 (1995), modified]".
- [44] ETSI ETS 300 496: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; Interworking between Broadband ISDN User Part (B-ISUP) and narrowband ISDN User Part (ISUP) [ITU-T Recommendation Q.2660 (1995), modified]".
- [45] ETSI ETS 300 657: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; B-ISDN User Part (B-ISUP) Capability Set 1 (CS1); Supplementary services [ITU-T Recommendation Q.2730 (1995), modified]".
- [46] ETSI EN 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [47] ETSI ETS 300 796-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Generic functional protocol; Core aspects; Part 1: Protocol specification [ITU-T Recommendation Q.2932.1 (1996), modified]".

- [48] ETSI ETS 300 661-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Direct Dialling In (DDI) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 1 (1995), modified]".
- [49] ETSI ETS 300 662-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Multiple Subscriber Number (MSN) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 2 (1995), modified]".
- [50] ETSI ETS 300 663-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Calling Line Identification Presentation (CLIP) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 3 (1995), modified]".
- [51] ETSI ETS 300 664-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Calling Line Identification Restriction (CLIR) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 4 (1995), modified]".
- [52] ETSI ETS 300 665-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connected Line Identification Presentation (COLP) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 5 (1995), modified]".
- [53] ETSI ETS 300 666-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connected Line Identification Restriction (COLR) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 6 (1995), modified]".
- [54] ETSI ETS 300 667-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Subaddressing (SUB) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2951, clause 8 (1995), modified]".
- [55] ETSI EN 301 485-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Support of ATM end system addressing format by Number identification supplementary services; Part 1: Protocol specification [ITU-T Recommendation Q.2951.9 (1999) modified]".
- [56] ETSI ETS 300 668-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; User-to-User Signalling (UUS) supplementary service; Part 1: Protocol specification [ITU-T Recommendation Q.2957, clause 1 (1995), modified]".
- [57] ETSI EN 301 464: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 interactions with the Intelligent Network Application Part (INAP); Part 1: Protocol specification [ITU-T Recommendation Q.1601 (1999), modified]".
- [58] IETF RFC 2327: "SDP: Session Description Protocol".

3 Definitions and abbreviations

For the purposes of the present document, the terms, definitions and abbreviations given in the reference specifications [1] to [20] apply.

4 Endorsement notice

4.1 Q.1902.1

The elements of ITU-T Recommendation Q.1902.1 [1] apply, with the following modifications.

1) Replace references as shown below

Reference in ITU-T Recommendation Q.1902.1 [1]	Modified reference
ITU-T Recommendation Q.850	EN 300 485 [22]
ITU-T Recommendation Q.730	EN 300 356-2 [23]
ITU-T Recommendation Q.761	EN 300 356-1 [24]
ITU-T Recommendation Q.762	EN 300 356-1 [24]
ITU-T Recommendation Q.763	EN 300 356-1 [24]
ITU-T Recommendation Q.764	EN 300 356-1 [24]
ITU-T Recommendation Q.765	EN 301 069-1 [21]
ITU-T Recommendation Q.769.1	EN 302 097 [25]
ITU-T Recommendation Q.1901	EN 301 848-1 [26]
ITU-T Recommendation Q.1902.2	ITU-T Recommendation Q.1902.2 [2] as modified by the present document
ITU-T Recommendation Q.1902.3	ITU-T Recommendation Q.1902.3 [3] as modified by the present document
ITU-T Recommendation Q.1902.4	ITU-T Recommendation Q.1902.4 [4] as modified by the present document
ITU-T Recommendation Q.1902.5	ITU-T Recommendation Q.1902.5 [5] as modified by the present document
ITU-T Recommendation Q.1902.6	ITU-T Recommendation Q.1902.6 [6] as modified by the present document
ITU-T Recommendation Q.1912.1	ITU-T Recommendation Q.1912.1 [9] as modified by the present document
ITU-T Recommendation Q.701	EN 300 008-1 [27]
ITU-T Recommendation Q.704	EN 300 008-1 [27]
ITU-T Recommendation Q.2210	EN 301 004-1 [28]
ITU-T Recommendation Q.2110	EN 300 436-1 [29]
ITU-T Recommendation Q.2111	FFS (For Further Study) (SSCOPMCE)
ITU-T Recommendation Q.765.1	EN 301 062-1 [30]
ITU-T Recommendation Q.765.4	EN 301 850-1 [39] (APM user GAT)
ITU-T Recommendation Q.765.5	ITU-T Recommendation Q.765.5 [7] as modified by the present document
ITU-T Recommendation Q.765.5 Amd. 1	ITU-T Recommendation Q.765.5 Amendment 1 [8] as modified by the present document
ITU-T Recommendation Q.1218	ETS 300 374-1 [31]
ITU-T Recommendation Q.1228	EN 301 140-1 [32]
ITU-T Recommendation Q.2150.0	ITU-T Recommendation Q.2150.0 [17] as modified by the present document
ITU-T Recommendation E.412	FFS (For Further Study) (Network management controls)
ITU-T Recommendation Q.703	EN 300 008-1 [27]
ITU-T Recommendation Q.2763	ETS 300 656 [33]
ITU-T Recommendation G.711	FFS (For Further Study) (PCM)
ITU-T Recommendation Q.115	FFS (For Further Study) (Echo control logic)
ITU-T Recommendation Q.542	FFS (For Further Study) (Operations and maintenance)
ITU-T Recommendation Q.706	EN 300 008-1 [27]
ITU-T Recommendation Q.931	EN 300 403-1 [34] and EN 300 403-2 [35]
ITU-T Recommendation Q.932	EN 300 196-1 [36]
ITU-T Recommendation G.732	FFS (For Further Study) (Characteristics of 2 048 kbits/s PCM)
ITU-T Recommendation G.744	FFS (For Further Study) (Second order 8 448 kbit/s PCM)
ITU-T Recommendation Q.1950	ITU-T Recommendation Q.1950 [14] as modified by the present document
ITU-T Recommendation Q.1990	ITU-T Recommendation Q.1990 [16] as modified by the present document
ITU-T Recommendation Q.2150.1	ITU-T Recommendation Q.2150.1 [18] as modified by the present document