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SERIES Q: SWITCHING AND SIGNALLING

**Broadband ISDN – Common aspects of B-ISDN
application protocols for access signalling and network
signalling and interworking**

**Interworking between signalling system No. 7
broadband ISDN user part (B-ISUP) and digital
subscriber signalling system No. 2 (DSS2)**

ITU-T Recommendation Q.2650

(Formerly CCITT Recommendation)



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ITU-T Recommendation Q.2650

Interworking between signalling system No. 7 broadband ISDN user part (B-ISUP) and digital subscriber signalling system No. 2 (DSS2)

Summary

This Recommendation describes the interworking between the DSS2 access interface protocol and the Broadband ISDN User Part protocol. It is part of a set of interlocking B-ISDN service and signalling Recommendations that comprise Broadband signalling capabilities. This Recommendation describes the mapping tables and diagrams which support interworking between the two protocols for call set-up and clear down.

Source

ITU-T Recommendation Q.2650 was revised by ITU-T Study Group 11 (1997-2000) and approved under the WTSA Resolution 1 procedure on 3 December 1999.

FOREWORD

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ITU-T Recommendation Q.2650

Interworking between signalling system No. 7 broadband ISDN user part (B-ISUP) and digital subscriber signalling system No. 2 (DSS2)

1 Scope

This ITU-T Recommendation defines the interworking relationship between the layer 3 functions and protocol of the B-ISDN DSS2 Access Interface and the B-ISDN User Part functions and protocol of Signalling System No. 7. For the purpose of this interworking, B-ISUP is defined in ITU-T Recommendations Q.2761-4 and Q.2730. For the purpose of this interworking, DSS2 is defined in ITU-T Recommendations Q.2931, Q.2933, Q.2961.1-6, Q.2962, Q.2963.1-3, Q.2951, Q.2951.9 and Q.2957.

The interworking between the above two signalling protocols typically may occur in a B-ISDN local exchange and is specified in the context of a typical call in a pure B-ISDN environment. Support of 64 kbit/s narrow-band emulation services is included.

The objective of this ITU-T Recommendation is to specify the interworking between the Broadband ISDN User Part protocol and the DSS2 protocol.

Interworking is shown as message arrow diagrams. Due to the multiplicity of optional possibilities in both the B-ISDN User Part and the DSS2 protocol, not all possible cases are shown in arrow diagrams. The diagrams included represent a sample of typical situations. Mapping tables are provided to define the relationship between DSS2 protocol messages and information elements, on the one hand, and B-ISDN User Part messages and parameters on the other hand.

Tables are provided for each DSS2 protocol message that maps onto a B-ISDN User Part message. These tables also specify the mapping of elements of information which are carried by the concerned messages.

The elements of information that are of local significance only, i.e. are not mapped onto elements of information in the other signalling system, are not shown.

The arrow diagrams used in this Recommendation show the message movement for interworking the call control protocols of DSS2 and B-ISUP. The working inside of the exchanges will not be shown, but rather the external stimulus to the exchange only.

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; all 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.

- [1] ITU-T Recommendation E.164 (1997), *The international public telecommunication numbering plan*.
- [2] ITU-T Recommendation E.191 (2000), *B-ISDN addressing*.
- [3] ITU-T Recommendation Q.2931 (1995), *Digital Subscriber Signalling System No. 2 (DSS 2) – User-Network Interface (UNI) – Layer 3 specification for basic call/connection control*.

- [4] ITU-T Recommendation Q.2763 (1999), *Signalling System No. 7 B-ISDN User Part (B-ISUP) – Formats and Codes.*
- [5] ITU-T Recommendation Q.2764 (1999), *Signalling System No. 7 B-ISDN User Part (B-ISUP) – Basic Call Procedures.*
- [6] ITU-T Recommendation I.371 (2000), *Traffic control and congestion control in B-ISDN.*
- [7] ITU-T Recommendation I.356 (2000), *B-ISDN ATM layer cell transfer performance.*
- [8] ITU-T Recommendation X.213 (1995) | ISO/IEC 8348:1996, *Information Technology – Open Systems Interconnection – Network service definition.*
- [9] ITU-T Recommendation Q.2761 (1999), *Functional description of the B-ISDN user part (B-ISUP) of signalling system No. 7.*
- [10] ITU-T Recommendation Q.2762 (1999), *General functions of messages and signals of the B-ISDN user part (B-ISUP) of signalling system No. 7.*
- [11] ITU-T Recommendation Q.2730 (1999), *Signalling system No. 7 B-ISDN user part (B-ISUP) – Supplementary services.*
- [12] ITU-T Recommendation Q.2933 (1996), *Digital subscriber signalling system No. 2 – Signalling specification for frame relay service.*
- [13] ITU-T Recommendation Q.2961.1 (1995), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Additional signalling capabilities to support traffic parameters for the tagging option and the sustainable cell rate parameter set.*
- [14] ITU-T Recommendation Q.2961.2 (1997), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Support of ATM transfer capability in the broadband bearer capability information element.*
- [15] ITU-T Recommendation Q.2961.3 (1997), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Signalling capabilities to support traffic parameters for the available bit rate (ABR) ATM transfer capability.*
- [16] ITU-T Recommendation Q.2961.4 (1997), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Signalling capabilities to support traffic parameters for the ATM Block Transfer (ABT) ATM transfer capability.*
- [17] ITU-T Recommendation Q.2961.5 (1999), *Digital subscriber signalling system No. 2 – Additional traffic parameters for cell delay variation tolerance indication.*
- [18] ITU-T Recommendation Q.2961.6 (1998), *Digital subscriber signalling system No. 2 – Additional traffic parameters: Additional signalling procedures for the support of the SBR2 and SBR3 ATM transfer capabilities.*
- [19] ITU-T Recommendation Q.2962 (1998), *Digital subscriber signalling system No. 2 – Connection characteristics negotiation during call/connection establishment phase.*
- [20] ITU-T Recommendation Q.2963.1 (1999), *Digital subscriber signalling system No. 2 – Connection modification: Peak cell rate modification by the connection owner.*
- [21] ITU-T Recommendation Q.2963.2 (1997), *Digital subscriber signalling system No. 2 – Connection modification: Modification procedures for sustainable cell rate parameters.*
- [22] ITU-T Recommendation Q.2963.3 (1998), *Digital subscriber signalling system No. 2 – Connection modification: ATM traffic descriptor modification with negotiation by the connection owner.*

- [23] ITU-T Recommendation Q.2951 (1995), *Stage 3 description for number identification supplementary services using B-ISDN Digital Subscriber Signalling System No. 2 (DSS2) – Basic Call.*
- [24] ITU-T Recommendation Q.2951.9 (1999), *Stage 3 description for number identification supplementary services using B-ISDN Digital Subscriber Signalling System No. 2 (DSS2) – Basic Cell: Support of ATM end system addressing format by number identification supplementary services.*
- [25] ITU-T Recommendation Q.2957.1 (1995), *Stage 3 description for additional information transfer supplementary services using B-ISDN Digital Subscriber Signalling System No. 2 (DSS2) – Basic Call: User to user signalling (UUS).*
- [26] ITU-T Recommendation Q.2735.1 (1997), *Stage 3 description for community of interest supplementary services for B-ISDN using SS No. 7: Closed User Group (CUG).*

3 Abbreviations

This ITU-T Recommendation uses the following abbreviations:

B-ISUP Messages

ACM	Address Complete Message
ANM	ANswer Message
COA	Connection Available message
CPG	Call Progress message
CTM	Call Transfer Message
IAA	Initial Address Acknowledgement message
IAM	Initial Address message
IAR	Initial Address Reject message
IDR	Identification Request message
IRS	Identification Response message
LOP	Loop Prevention message
MOA	Modify Acknowledgement Message
MOD	Modify Request Message
MOR	Modify Reject Message
REL	RELease message
RES	RESume message
SAM	Subsequent Address Message
SUS	SUSpend message
USR	User-to-User Information Message

DSS2 Messages

ALERT	ALERTING
CALL PROC	CALL PROCEEDING
CONN	CONNECT

CONN ACK	CONNECT ACKNOWLEDGMENT
INFO	INFORMATION
NOT	NOTIFY
PROG	PROGRESS
REL	RELEASE
RLC	RELEASE COMPLETE
SETUP	SETUP
SETUP ACK	SETUP ACKNOWLEDGMENT

General

IE Information Element (of DSS2)

U/N User/Network

4 Interworking specification for successful call set-up procedures

4.1 Mapping tables

This subclause contains the mapping tables of successful call set-up messages and associated parameters and information elements. All mapping tables show DSS2 information elements and B-ISUP parameters for both pure B-ISDN service and N-ISDN emulation service. (See Tables 1 to 6c.)

Table 1/Q.2650 – Mapping of set-up procedure parameters for B-ISDN call

Orig. U/N SETUP	Network IAM	Term. U/N SETUP
SETUP	IAM	SETUP
AAL parameters	AAL parameters (Note 22) AAL prime parameters (Note 22)	AAL parameters
Alternative ATM traffic descriptor	Alternative ATM cell rate	Alternative ATM traffic descriptor
ABR setup parameters	ATC setup parameters	ABR setup parameters
ATM traffic descriptor	ATM cell rate (Note 1) Additional ATM cell rate (Note 1)	ATM traffic descriptor
Broadband bearer capability	Broadband bearer capability	Broadband bearer capability
Broadband low layer information	Broadband low layer information (Note 2)	Broadband low layer information (Note 17)
Broadband high layer information	Broadband high layer information	Broadband high layer information
Broadband sending complete	ST (carried in Called party number)	Broadband sending complete

Table 1/Q.2650 – Mapping of set-up procedure parameters for B-ISDN call (continued)

Orig. U/N SETUP	Network IAM	Term. U/N SETUP
SETUP	IAM	SETUP
Broadband report type	Report type (Note 25) Report type prime (Note 25)	Broadband report type
Called party number (Note 3) Called party number (Note 4) – Number digits (Note 5) – Numbering plan (Note 6) – Type of number (Note 7)	Called party number AESA for Called Party Contents as shown in Q.2763. Called Party Number – Address signals (Note 8) – Numbering plan (Note 9) – Nature of address indicator	Called party number (Notes 10, 26) Contents starting with octet 5 as in AESA for Called Party starting with octet 2.
CDVT descriptor	CDVT	CDVT descriptor
End-to-end transit delay	Propagation delay counter and Maximum end-to-end transit delay (Note 11) End-to-end transit delay network generated indicator (Note 24)	End-to-end transit delay
Extended QoS parameters	Extended QoS parameters	Extended QoS parameters
Link layer core parameters	Link layer core parameters	Link layer core parameters
Link layer protocol parameters	Link layer protocol parameters	Link layer protocol parameters
Minimum acceptable ATM traffic descriptor	Minimum ATM cell rate	Minimum acceptable ATM traffic descriptor
Narrow-band bearer capability	Narrow-band bearer capability (Note 12)	Narrow-band bearer capability (Note 18)
Narrow-band low layer compatibility	Narrow-band low layer compatibility (Note 13)	Narrow-band low layer compatibility (Note 19)
Narrow-band high layer compatibility	Narrow-band high layer compatibility (Note 14)	Narrow-band high layer compatibility (Note 20)
Notification indicator	Notification (Note 23)	Notification indicator
OAM traffic descriptor	OAM traffic descriptor (Note 15)	OAM traffic descriptor
Progress indicator	Progress indicator (Note 16)	Progress indicator (Note 21)
Quality of Service	Quality of Service	Quality of Service
Transit network selection (Network option)	Transit network selection	Not carried

Table 1/Q.2650 – Mapping of set-up procedure parameters for B-ISDN call (continued)

NOTE 1 – The peak cell rate subfields are mapped to the ATM cell rate parameter. The additional subfields, if present, are mapped to the Additional ATM cell rate parameter.

NOTE 2 – The Broadband Low Layer Information IE may be repeated (see Recommendation Q.2931 for allowed repetitions). If it is repeated, all instances are mapped into the single Broadband Low Layer Information parameter in the network. The Repeat Indicator IE is mapped to the Repeat Indicator subfield of the parameter.

NOTE 3 – When the called party number contains the E.164 address, the Called party number IE is mapped to the Called party number parameter.

NOTE 4 – When the called party number contains an AESA, the Called party number IE is mapped to the AESA for called party parameter. When the AESA is an E.164 AESA, the initial domain identifier is mapped into the Called party number parameter in addition.

NOTE 5 – The address is coded as described in E.191.

NOTE 6 – The numbering plan is coded as ATM end system address.

NOTE 7 – The type of number is coded as unknown when ATM end system address is used.

NOTE 8 – When E.164 AESAs are used, the address signal is coded using E.164 address digits from the initial domain identifier field of the ATM end system address in the Called party number IE.

NOTE 9 – Numbering plan is coded as E.164.

NOTE 10 – Table 1/Q.2951.9 shows which information is delivered to the called user depending on the address presentation format at the destination UNI.

NOTE 11 – The Cumulative End-to-End Transit Delay subfield of the End-to-End Transit Delay IE is mapped to the Propagation Delay Counter. The Maximum End-to-End Transit Delay subfield is mapped to the Maximum End-to-End Transit Delay parameter in the network. At the destination exchange, the Propagation Delay Counter value is mapped back to the Cumulative End-to-End Transit Delay subfield only if a Maximum End-to-End Transit Delay parameter is present.

NOTE 12 – The Narrow-band Bearer Capability IE may be repeated (see Recommendation Q.2931 for allowed repetitions). Treatment as in Note 2 above applies. If no Broadband Repeat Indicator IE is present, the priority subfield in B-ISUP should be set to prioritized list ... in ascending order.

NOTE 13 – The Narrow-band Low Layer Compatibility IE may be repeated (see Recommendation Q.2931 for allowed repetitions). Treatment as in Note 2 above applies.

NOTE 14 – The Narrow-band High Layer Compatibility IE may be repeated (see Recommendation Q.2931 for allowed repetitions). Treatment as in Note 4 above applies. If no Broadband Repeat Indicator IE is present, the priority subfield in B-ISUP should be set to prioritized list ... in ascending order.

NOTE 15 – The OAM Traffic Descriptor is carried transparently through the network.

NOTE 16 – When the Progress indicator IE is repeated in DSS2, it is carried within a single Progress indicator parameter of B-ISUP, with the priority subfield marked no priority.

NOTE 17 – If the Broadband low layer information parameter contains multiple instances of the Broadband low layer information, each of these will be mapped to a separate Broadband low layer information IE.

NOTE 18 – If the Narrow-band bearer capability parameter contains multiple instances of the Narrow-band bearer capability, each of these will be mapped to a separate Narrow-band bearer capability IE.

Table 1/Q.2650 – Mapping of set-up procedure parameters for B-ISDN call (concluded)

NOTE 19 – If the Narrow-band low layer compatibility parameter contains multiple instances of the Narrow-band low layer compatibility, each of these will be mapped to a separate Narrow-band low layer compatibility IE.

NOTE 20 – If the Narrow-band high layer compatibility parameter contains multiple instances of the Narrow-band high layer compatibility, each of these will be mapped to a separate Narrow-band high layer compatibility IE.

NOTE 21 – If the Progress indicator parameter contains multiple progress indicators, each of these will be mapped to a separate Progress indicator IE.

NOTE 22 – The AAL parameters IE may be repeated (see Amendment 4 to Recommendation Q.2931 for allowed repetitions). A single or the first instance is mapped into the AAL parameters parameter. If repeated, the subsequent instances are mapped into the AAL prime parameters parameter. The Repeat indicator IE is mapped to the repeat indicator subfield of the parameter.

NOTE 23 – The Notification indicator IE may be repeated (see Recommendation Q.2931 for allowed repetitions). Each instance of the IE is mapped to a separate Notification parameter.

NOTE 24 – If the End-to-end transit delay IE is not received, the End-to-end transit delay network generated indicator parameter is generated by the network and is set to network generated. If the network generated indicator subfield is received in the End-to-end transit delay IE, the End-to-end transit delay network generated indicator parameter is generated by the network and is set to network generated. If the network generated indicator subfield is not received in the End-to-end transit delay IE, the End-to-end transit delay network generated indicator parameter is generated by the network and is set to user generated, when the maximum end-to-end transit delay subfield is present in the IE or network generated, when the maximum end-to-end transit delay subfield is not present in the IE.

NOTE 25 – The Broadband report type IE may be repeated (see Amendment 4 to Recommendation Q.2931 for allowed repetitions). A single or the first instance is mapped into the Report type parameter. If repeated, the subsequent instances are mapped into the Report type prime parameter. The priority subfield in B-ISUP should be set to no prioritized order.

NOTE 26 – This mapping only applies when the MSN or DDI supplementary service are subscribed.

Table 2/Q.2650 – Mapping of subsequent address information for overlap sending

Orig. U/N INFO	Network SAM	Term. U/N INFO
INFO	SAM	INFO
Called party number	Subsequent number	Called party number (Note)
Broadband sending complete	ST (Carried in the Subsequent number)	Broadband sending complete
NOTE – This mapping only applies when the MSN or DDI supplementary service are subscribed.		