



INTERNATIONAL TELECOMMUNICATION UNION

# ITU-T

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

## Q.2730

(12/99)

SERIES Q: SWITCHING AND SIGNALLING

Broadband ISDN – B-ISDN application protocols for the  
network signalling

---

**Signalling system No. 7 B-ISDN user part  
(B-ISUP) – Supplementary services**

ITU-T Recommendation Q.2730

(Previously CCITT Recommendation)



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*For further details, please refer to ITU-T List of Recommendations.*

## ITU-T RECOMMENDATION Q.2730

### SIGNALLING SYSTEM No. 7 B-ISDN USER PART (B-ISUP) – SUPPLEMENTARY SERVICES

#### Summary

This Recommendation describes the supplementary services supported in the broadband ISDN applicable to B-ISUP (with the exception of CUG, which is contained in Recommendation Q.2735.1).

#### Source

ITU-T Recommendation Q.2730 was revised by ITU-T Study Group 11 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on 3 December 1999.



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**Recommendation Q.2730**

**(12/99)**

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## FOREWORD

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The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 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.

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As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

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## Recommendation Q.2730

### SIGNALLING SYSTEM No. 7 B-ISDN USER PART (B-ISUP) – SUPPLEMENTARY SERVICES

(revised in 1999)

#### 1 Scope

This Recommendation specifies the exceptions to the 1997 Q.730 series of Recommendations for supplementary services to be supported in the broadband network. The information contained in this Recommendation should be read in conjunction with the 1997 Q.730 series of Recommendations.

The following services are supported by the first version of the B-ISUP:

- User-to-User Signalling (Recommendation Q.737).
- Calling Line Identification Presentation/Restriction (clause 3/Q.731 and clause 4/Q.731).
- Direct-Dialling-In (clause 1/Q.731).
- Connected Line Identification Presentation/Restriction (clause 5/Q.731 and clause 6/Q.731).
- Sub-addressing (clause 8/Q.731).
- Multiple Subscriber Number (clause 2/Q.731).
- Closed User Group (clause 1/Q.735).

Direct-Dialling-In and Multiple Subscriber Number are supported but without relevance to B-ISUP.

#### 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 Q.2761 (1999), *Functional description of the B-ISDN user part (B-ISUP) of signalling system No. 7.*
- [2] 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.*
- [3] ITU-T Recommendation Q.2763 (1999), *Signalling system No. 7 B-ISDN user part (B-ISUP) – Formats and codes.*
- [4] ITU-T Recommendation Q.2764 (1999), *Signalling system No. 7 B-ISDN user part (B-ISUP) – Basic call procedures.*
- [5] 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).*
- [6] ITU-T Recommendation Q.761 (1997), *Signalling system No. 7 – ISDN user part functional description.*
- [7] ITU-T Recommendation Q.762 (1997), *Signalling system No. 7 – ISDN user part general functions of messages and signals.*

- [8] ITU-T Recommendation Q.763 (1997), *Signalling system No. 7 – ISDN user part formats and codes.*
- [9] ITU-T Recommendation Q.764 (1997), *Signalling system No. 7 – ISDN user part signalling procedures.*
- [10] ITU-T Recommendation Q.730 (1997), *ISDN user part supplementary services.*
- [11] ITU-T Recommendation Q.731.1 (1996), *Stage 3 description for number identification supplementary services using signalling system No. 7: Direct-dialling-in (DDI).*
- [12] ITU-T Recommendation Q.731.3 (1993), *Stage 3 description for number identification supplementary services using signalling system No. 7: Calling line identification presentation (CLIP).*
- [13] ITU-T Recommendation Q.731.4 (1993), *Stage 3 description for number identification supplementary services using signalling system No. 7: Calling line identification restriction (CLIR).*
- [14] ITU-T Recommendation Q.731.5 (1993), *Stage 3 description for number identification supplementary services using signalling system No. 7: Connected line identification presentation (COLP).*
- [15] ITU-T Recommendation Q.731.6 (1993), *Stage 3 description for number identification supplementary services using signalling system No. 7: Connected line identification restriction (COLR).*
- [16] ITU-T Recommendation Q.731.7 (1997), *Stage 3 description for number identification supplementary services using signalling system No. 7: Malicious call identification (MCID).*
- [17] CCITT Recommendation Q.731.8 (1992), *Stage 3 description for number identification supplementary services using signalling system No. 7: Sub-addressing (SUB).*
- [18] ITU-T Recommendation Q.732.2 (1996), *Stage 3 description for call offering supplementary services using signalling system No. 7: Call diversion services: call forwarding busy, call forwarding no reply, call forwarding unconditional, call deflection.*
- [19] ITU-T Recommendation Q.732.7 (1996), *Stage 3 description for call offering supplementary services using signalling system No. 7: Explicit call transfer.*
- [20] CCITT Recommendation Q.733.1 (1992), *Stage 3 description for call completion supplementary services using signalling system No. 7: Call waiting (CW).*
- [21] ITU-T Recommendation Q.733.2 (1993), *Stage 3 description for call completion supplementary services using signalling system No. 7: Call hold (HOLD).*
- [22] ITU-T Recommendation Q.733.3 (1997), *Stage 3 description for call completion supplementary services using signalling system No. 7: Completion of calls to busy subscriber (CCBS).*
- [23] ITU-T Recommendation Q.733.4 (1993), *Stage 3 description for call completion supplementary services using signalling system No. 7: Terminal portability (TP).*
- [24] ITU-T Recommendation Q.734.1 (1993), *Stage 3 description for multiparty supplementary services using signalling system No. 7: Conference calling.*
- [25] ITU-T Recommendation Q.734.2 (1996), *Stage 3 description for multiparty supplementary services using signalling system No. 7: Three-party service.*
- [26] ITU-T Recommendation Q.735.1 (1993), *Stage 3 description for community of interest supplementary services using signalling system No. 7, Closed user group (CUG).*

- [27] ITU-T Recommendation Q.735.3 (1993), *Stage 3 description for community of interest supplementary services using signalling system No. 7: Multi-level precedence and preemption.*
- [28] ITU-T Recommendation Q.735.6 (1996), *Stage 3 description for community of interest supplementary services using signalling system No. 7: Global virtual network service (GVNS).*
- [29] ITU-T Recommendation Q.736.1 (1995), *Stage 3 description for charging supplementary services using signalling system No. 7: International telecommunication charge card (ITCC).*
- [30] ITU-T Recommendation Q.736.3 (1995), *Stage 3 description for charging supplementary services using signalling system No. 7: Reverse charging (REV).*
- [31] ITU-T Recommendation Q.737.1 (1997), *Stage 3 description for additional information transfer supplementary services using signalling system No. 7: User-to-user signalling (UUS).*
- [32] ITU-T Recommendation Q.2951.3 (1995), *Stage 3 description for number identification supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: Calling line identification presentation (CLIP).*
- [33] ITU-T Recommendation Q.2951.4 (1995), *Stage 3 description for number identification supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: Calling line identification restriction (CLIR).*
- [34] ITU-T Recommendation Q.2951.5 (1995), *Stage 3 description for number identification supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: Connected line identification presentation (COLP).*
- [35] ITU-T Recommendation Q.2951.6 (1995), *Stage 3 description for number identification supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call: Connected line identification restriction (COLR).*
- [36] 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 call: Support of ATM end system addressing format by number identification supplementary services.*
- [37] ITU-T Recommendation E.191 (1996), *B-ISDN numbering and addressing.*

### 3 Exceptions and clarifications for ISDN supplementary services in the Q.730 series of Recommendations

The following tables contain three columns as follows:

- The first column marked "Q.73x references" identifies the relevant Q.73x Recommendation and references.
- The second column marked "Title" identifies the relevant title.
- The third column marked "Remarks" identifies the deviations from Q.73x as appropriate for the broadband signalling references.

All subclauses are the same as in the Q.730 series of Recommendations unless indicated otherwise in Tables 1 to 8 below.

The remark "Not applicable" in the tables means that a procedure described in Recommendation Q.73x is not available in the broadband signalling references.

Table 1/Q.2730

| Q.730 references | Title                                                                      | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                | General                                                                    | References to TC and SCCP are not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 1.2              | Network-specific facilities (national option)                              | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1.2.1            | Sending unsolicited information (national use)                             | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1.3              | Generic procedures                                                         | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1.4              | End-to-end signalling                                                      | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1.6              | List of supplementary services                                             | <p>The following services are not applicable:</p> <ul style="list-style-type: none"> <li>– 7/Q.731 Malicious Call Identification (MCID)</li> <li>– 1/Q.732 Call Transfer (CT)</li> <li>– 2/Q.732 Call Forwarding Busy (CFB)</li> <li>– 3/Q.732 Call Forwarding No Reply (CFNR)</li> <li>– 4/Q.732 Call Forwarding Unconditional (CFU)</li> <li>– 5/Q.732 Call Deflection (CD)</li> <li>– 6/Q.732 Line Hunting (LH)</li> <li>– 7/Q.732 Explicit Call Transfer (ECT)</li> <li>– 8/Q.732 Single Step Call Transfer (SCT)</li> <li>– 1/Q.733 Call Waiting (CW)</li> <li>– 2/Q.733 Call Hold (HOLD)</li> <li>– 3/Q.733 Completion of Calls to Busy Subscriber (CCBS)</li> <li>– 4/Q.733 Terminal Portability (TP)</li> <li>– 1/Q.734 Conference Calling (CONF)</li> <li>– 2/Q.734 Three-Party Service (3PTY)</li> <li>– 3/Q.735 Multi-Level Precedence and Preemption (MLPP)</li> <li>– 6/Q.735 Global Virtual Network Service (GVNS)</li> <li>– 1/Q.736 International Telecommunication Charge Card (ITCC)</li> <li>– 2/Q.736 Advice of Charge (AOC)</li> <li>– 3/Q.736 Reverse Charging (REV)</li> </ul> |
| Appendix I       | Contents of the interface elements between the ISDN user part and the SCCP | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Table 2/Q.2730

| Q.731 references | Title                                           | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.2.1            | General description                             | Additional description for non-native E.164 addresses is described in Annex A of this Recommendation.                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.2.2            | Specific terminology                            | Additional terminology for non-native E.164 addresses is described in Annex A of this Recommendation.                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.4              | Coding requirements                             | <p>i) The Access transport parameter is not used, the calling party subaddress information is transported in the calling party subaddress parameter.</p> <p>ii) The Generic number parameter is not used, the additional calling party number is transported in the additional calling party number parameter.</p> <p>iii) The number qualifier indicator is not used.</p> <p>iv) Additional coding requirements for non-native E.164 addresses are described in Annex A of this Recommendation.</p> |
| 3.5              | Signalling requirements                         | Same remarks as for 3.4. Additional signalling requirements for non-native E.164 addresses are described in Annex A of this Recommendation.                                                                                                                                                                                                                                                                                                                                                          |
| Table 3-1        | Calling party number, codepoints                | The content of the table is superseded by Figure 1 in Annex A of this Recommendation.                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.6.6            | Calling Line Identification Restriction (CLIR)  | Replace "Generic number parameter" with "additional calling party number parameter". For non-native E.164 addresses, see Annex A of this Recommendation.                                                                                                                                                                                                                                                                                                                                             |
| 3.6.10           | Call Diversion services (CDIV)                  | Not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.7              | Interactions with other networks                | Replace "Generic number parameter" with "additional calling party number parameter". Additional procedures for non-E.164 addresses are described in Annex A of this Recommendation.                                                                                                                                                                                                                                                                                                                  |
| 3.10             | Dynamic description                             | The dynamic description is specified in Figures 1 and 2 in Annex A of this Recommendation.                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4.5.2.1.1        | Normal operation                                | Replace "Generic number parameter" with "additional calling party number parameter". Additional procedures for non-E.164 addresses are described in Annex B of this Recommendation.                                                                                                                                                                                                                                                                                                                  |
| 4.5.2.3.2        | Exceptional procedures                          | Replace "Generic number parameter" with "additional calling party number parameter". Additional procedures for non-E.164 addresses are described in Annex B of this Recommendation.                                                                                                                                                                                                                                                                                                                  |
| 4.6.5            | Calling Line Identification Presentation (CLIP) | Replace "Generic number parameter" with "additional calling party number parameter". Additional procedures for non-E.164 addresses are described in Annex B of this Recommendation.                                                                                                                                                                                                                                                                                                                  |