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SPECIFICATIONS OF SIGNALLING SYSTEM No. 7

STAGE 3 DESCRIPTION FOR CALL COMPLETION SUPPLEMENTARY SERVICES USING SS No. 7

CLAUSE 2 – CALL HOLD (HOLD)
CLAUSE 4 – TERMINAL PORTABILITY (TP)

ITU-T Recommendation Q.733

(Previously “CCITT Recommendation”)

FOREWORD

The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the International Telecommunication Union. The 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 Conference (WTSC), which meets every four years, established the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

ITU-T Recommendation Q.733, clauses 2 and 4 was prepared by the ITU-T Study Group XI (1988-1993) and was approved by the WTSC (Helsinki, March 1-12, 1993).

NOTES

1 As a consequence of a reform process within the International Telecommunication Union (ITU), the CCITT ceased to exist as of 28 February 1993. In its place, the ITU Telecommunication Standardization Sector (ITU-T) was created as of 1 March 1993. Similarly, in this reform process, the CCIR and the IFRB have been replaced by the Radiocommunication Sector.

In order not to delay publication of this Recommendation, no change has been made in the text to references containing the acronyms “CCITT, CCIR or IFRB” or their associated entities such as Plenary Assembly, Secretariat, etc. Future editions of this Recommendation will contain the proper terminology related to the new ITU structure.

2 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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STAGE 3 DESCRIPTION FOR CALL COMPLETION SUPPLEMENTARY SERVICES USING SS No. 7

(Helsinki, 1993)

2 Call Hold (HOLD)

2.1 Definition

The **Call Hold (HOLD) supplementary service**, allows a user to interrupt communications on an existing call and then subsequently, if desired, re-establish communications.

2.2 Description

This clause is specific to Signalling System No.7 protocol for the ISDN User Part. Stage 3 identifies the protocol procedures and switching functions needed to support a telecommunications service.

2.2.1 General description

A call may be placed on hold by the calling user, at any time after the call has been answered or additionally as a service provider option:

- 1) after alerting has commenced, or
- 2) after the calling user has provided all of the information necessary for processing the call.

A call may be placed on hold by the called user, at any time after the call has been answered and before call clearing has begun.

The Call Hold service includes the Retrieve operation which re-establishes communication on a B-channel between the served user and the held party.

The stage 1 definitions for the HOLD supplementary service are given in Recommendation I.253.2. The stage 2 descriptions are given in Recommendation Q.83.2.

The stage 3 DSS 1 description is given in Recommendation Q.953.2.

This stage 3 description of Call Hold supplementary service uses the ISDN User Part protocol as defined in Recommendations Q.761-Q.764.

2.2.2 Specific terminology

For the purposes of this Recommendation, the following definitions apply:

User A: User A is a terminal equipment which invokes the HOLD supplementary service for a given call. User A is the served user.

User B: User B is a terminal equipment engaged in the given call to user A which invokes the HOLD supplementary service. User B is the non-served user.

2.2.3 Qualification on the applicability to telecommunication services

See 2.3/I.253.2.

2.2.4 State definitions

No specific state definitions are required.

2.3 Operational requirements

2.3.1 Provision/withdrawal

See 2.3.1/I.253.2.

2.3.2 Requirements on the originating network side

Not applicable.

2.3.3 Requirements in the network

No specific requirements are needed in the network.

2.3.4 Requirements on the terminating network side

Not applicable.

2.4 Coding requirements

For the HOLD supplementary service, the Call Progress message containing the Generic notification indicator parameter, shall be used to send the appropriate notification towards the remote party.

The Event indicator is set to “Progress”.

The following notification descriptions are used:

- Remote-hold
- Remote-retrieval

The Generic notification indicator parameter field shall be coded as shown in Table 2-1.

TABLE 2-1/Q.733

Coding of the Generic notification indicator parameter

Bits 7 6 5 4 3 2 1	Description
1 1 1 1 0 0 1	Remote hold
1 1 1 1 0 1 0	Remote retrieval

The Generic notification indicator parameter is accompanied by the parameter compatibility information parameter. The procedures for the compatibility are defined in 2.9.5/Q.764.

2.5 Signalling requirements

2.5.1 Activation/deactivation/registration

Not applicable.

2.5.2 Invocation and operation

2.5.2.1 Actions at the originating local exchange

The originating local exchange is the exchange where the service is controlled. The originating local exchange for this description is not necessarily the originating exchange for the basic call.