

EUROPEAN TELECOMMUNICATION STANDARD

ETS 300 359-3

October 1996

Source: ETSI TC-SPS Reference: DE/SPS-05061-G-3

ICS: 33.080

Key words: ISDN, DSS1, supplementary service, CCBS, testing, TSS&TP, user

Completion of Calls to Busy Subscriber (CCBS)
supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 3: Test Suite Structure and Test Purposes (TSS&TP)
specification for the user

Integrated Services Digital Network (ISDN);

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - Internet: secretariat@etsi.fr

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

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

Page 2 ETS 300 359-3: October 1996
Albilat arrange and has been taken in the managetica and mubilization of this decreased arranging content

Whilst every care has been taken in the preparation and publication of this document, errors in content, typographical or otherwise, may occur. If you have comments concerning its accuracy, please write to "ETSI Editing and Committee Support Dept." at the address shown on the title page.

Contents

Forev	word					5
1	Scope					7
2	Normativ	va rafarancas				7
2	Noman	re references				
3	Definition					
	3.1	Definitions r	elated to confor	mance testing		8
	3.2	Definitions r	elated to ETS 3	00 359-1		8
4	Abbrevia	itions				9
5	Test Suit	te Structure (TSS)			c
5		`	,			
6						
	6.1					
		6.1.1				
		6.1.2				
		6.1.3				
	6.2	6.1.4				
	6.2	6.2.1				
		0.2.1	6.2.1.1			
			0.2.1.1	6.2.1.1.1	Activation	
				6.2.1.1.2	Deactivation	
				6.2.1.1.3	Interrogation	
				6.2.1.1.4	Invocation and operation	
				6.2.1.1.5	Retention	
			6.2.1.2	User B		18
			6.2.1.3			
		6.2.2	User (T) 6.2.2.1			
				6.2.2.1.1	General	
			0000	6.2.2.1.2	GFP	
			6.2.2.2	Destination side 6.2.2.2.1	General	
				6.2.2.2.2	GFP	
				0.2.2.2.2	GFF	
7	Complia	nce				25
8	Requirer	ments for a co	omprehensive te	esting service		2 <u>5</u>
5	. toquiloi			g 001 1100		
Hicto	r\/					26

Page 4 ETS 300 359-3: October 1996

Blank page

Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 3 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Completion of Calls to Busy Subscriber (CCBS) supplementary service, as described below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";

Part 5: "TSS&TP specification for the network";

Part 6: "ATS and partial PIXIT proforma specification for the network".

Transposition dates	
Date of adoption of this ETS:	4 October 1996
Date of latest announcement of this ETS (doa):	31 January 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 July 1997
Date of withdrawal of any conflicting National Standard (dow):	31 July 1997

Page 6 ETS 300 359-3: October 1996

Blank page

1 Scope

This third part of ETS 300 359 specifies the Test Suite Structure and Test Purposes (TSS&TP) for the User side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [7]) of implementations conforming to the stage three standard of the Completion of Calls to Busy Subscriber (CCBS) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, ETS 300 359 [1].

A further part of this ETS specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on this ETS. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the Network side of the T reference point or coincident S and T reference point of implementations conforming to ETS 300 359-1 [1].

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]	ETS 300 359-1 (1995): "Integrated Services Digital Network (ISDN); Completion of Calls to Busy Subscriber (CCBS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
[2]	ETS 300 359-2 (1995): "Integrated Services Digital Network (ISDN); Completion of Calls to Busy Subscriber (CCBS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
[3]	ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".
[4]	ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite specification".
[5]	ISO/IEC 9646-3: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 3: The Tree and Tabular Combined Notation".
[6]	ETS 300 196-1 (1993): "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".
[7]	ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
[8]	ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
[9]	ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".
[10]	CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".
[11]	ITU-T Recommendation I.210 (1993): "Principles of the telecommunication services supported by an ISDN and the means to describe them".
[12]	ETS 300 196-2 (1996): "Integrated Services Digital Network (ISDN); Generic

Conformance Statement (PICS) proforma specification".

functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1); Part 2: Protocol Implementation

ETS 300 359-3: October 1996

3 Definitions

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

3.1 Definitions related to conformance testing

abstract test case: Refer to ISO/IEC 9646-1 [3].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [3].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [3].

implicit send event: Refer to ISO/IEC 9646-3 [5].

lower tester: Refer to ISO/IEC 9646-1 [3].

point of control and observation: Refer to ISO/IEC 9646-1 [3].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [3].

PICS proforma: Refer to ISO/IEC 9646-1 [3].

Protocol Implementation extra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [3].

PIXIT proforma: Refer to ISO/IEC 9646-1 [3].

system under test: Refer to ISO/IEC 9646-1 [3].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [3].

3.2 Definitions related to ETS 300 359-1

Call Held auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

call reference: See ETS 300 102-1 [8], subclause 4.3.

component: See ETS 300 196-1 [6], subclause 11.2.2.1.

Idle auxiliary state: See ETS 300 196-1 [6], subclause 7.1.2.

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [9], definition 308.

ISDN number: A number conforming to the numbering and structure specified in CCITT

Recommendation E.164 [10].

invoke component: See ETS 300 196-1 [6], subclause 11.2.2.1.

return error component: See ETS 300 196-1 [6], subclause 11.2.2.1.

return result component: See ETS 300 196-1 [6], subclause 11.2.2.1.

served user: The served user is the user who invokes the CCBS supplementary service.

service; telecommunication service: See ITU-T Recommendation I.112 [9], definition 201.

supplementary service: See ITU-T Recommendation I.210 [11], subclause 2.4.

user: The DSS1 protocol entity at the User side of the user-network interface where a T reference point or coincident S and T reference point applies.

user (S/T): The DSS1 protocol entity at the User side of the user-network interface where a coincident S and T reference point applies.

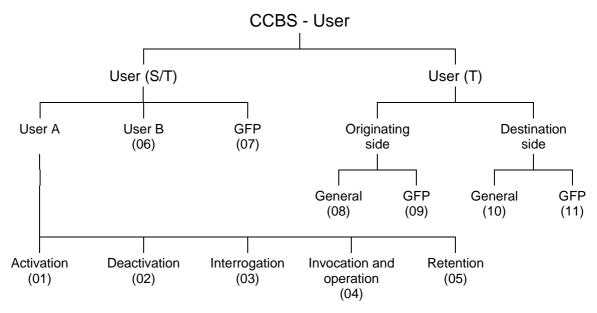
user (T): The DSS1 protocol entity at the User side of the user-network interface where a T reference point applies (User is the Private ISDN).

4 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

ATM	Abstract Test Method
ATS	Abstract Test Suite
CCBS	Completion of Calls to Busy Subscriber
CR	Call Reference
CR1	normal (bearer related) CR
CR2	CR used for bearer independent transport mechanism
DSS1	Digital Subscriber Signalling System No. one
GFP	Generic Functional Protocol
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure
U00	Null call state
U01	Call Initiated call state
U03	Outgoing Call Proceeding call state
U04	Call Delivered call state
U06	Call Present call state
U07	Call Received call state
U08	Connect Request call state
U09	Incoming Call Proceeding call state
U10	Active call state
U12	Disconnect Indication call state
U25	Overlap Receiving call state
U31	Bearer Independent Transport call state
UI	Unnumbered Information

5 Test Suite Structure (TSS)



NOTE: Numbers in brackets represent group numbers and are used in TP identifiers.

Figure 1: Test suite structure

6 Test Purposes (TP)

6.1 Introduction

For each test requirement a TP is defined.

6.1.1 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite and whether it applies to the network or the user (see table 1).

Table 1: TP identifier naming convention scheme

Identifier: <ss>_<iut><group>_<nnn> <SS> supplementary service: e.g. "CCBS" type of IUT: U User <iut> Ν Network 2 digit field representing group reference according to TSS <group> = group <nnn> sequential number (001-999)

6.1.2 Source of TP definition

The TPs are based on ETS 300 359-1 [1].

6.1.3 TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used and this is illustrated in table 2. This table should be read in conjunction with any TP, i.e. use a TP as an example to fully understand the table.

Table 2: Structure of a single TP

TP part	Text	Example
Header	<ld><ldentifier> tab</ldentifier></ld>	see table 1
	<pre><paragraph base="" ets="" in="" number=""> tab</paragraph></pre>	subclause 0.0.0
	<type of="" test=""> tab</type>	valid, invalid, inopportune
	<condition> CR.</condition>	mandatory, optional, conditional
Stimulus	Ensure that the IUT in the	
	<basic call="" state=""></basic>	U10, U12, etc.
	and <supplementary service="" state=""></supplementary>	CCBS Idle state
	<trigger> see below for message structure</trigger>	receiving a XXXX message
	or <goal></goal>	to request a
Reaction	<action></action>	sends, saves, does, etc.
	<conditions></conditions>	using en-bloc sending,
	if the action is sending	
	see below for message structure	
	<next action="">, etc.</next>	
	and enters <supplementary service="" state=""></supplementary>	
	and/or and remains in the same call state(s)	
	or and enters call state <state></state>	
Message	<message type=""></message>	SETUP, FACILITY, CONNECT,
structure	message containing a	
	a) <info element=""></info>	Bearer capability, Facility,
	information element with	
	b) a <field name=""></field>	
	encoded as or including	
	<coding field="" of="" the=""> and back to a or b,</coding>	
NOTE:	Text in italics will not appear in TPs and text between	en <> is filled in for each TP and may
	differ from one TP to the next.	

6.1.4 Test strategy

As the base standard ETS 300 359-1 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification ETS 300 359-2 [2]. The criteria applied included the following:

- only the requirements from the point of view of the T or coincident S and T reference point are considered;
- whether or not a test case can be built from the TP is not considered.

ETS 300 359-3: October 1996

6.2 User TPs for CCBS

6.2.1 User (S/T)

Selection: IUT supports coincident S and T reference point procedures. PICS: R 3.2.

NOTE: Unless stated otherwise, all FACILITY messages in TPs in this subclause use the

dummy call reference as specified in subclause 8.3.2.2 of ETS 300 196-1 [6] (bearer independent connectionless transport mechanism). Where an Unnumbered Information (UI) frame is specified for a FACILITY message, the message is sent or received using broadcast procedures; otherwise point-to-point procedures are used.

6.2.1.1 User A

6.2.1.1.1 Activation

CCBS U01 001 subclause 9.1.1 valid mandatory

Ensure that the IUT in call state U12 and CCBS Idle state, having been informed that the network is performing the Call Information Retention procedure, to activate the CCBS supplementary service,

sends a FACILITY message containing a Facility information element with a CCBSRequest invoke component including the callLinkageID parameter and enters the CCBS Requested state before expiry of timer T-RETENTION.

CCBS_U01_002 subclause 9.1.1 valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return result component including a recallMode parameter indicating "specificRecall",

sends no message but retains the CCBSReference and enters CCBS Activated state.

CCBS_U01_003 subclause 9.1.1 valid optional

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return result component including a recallMode parameter indicating "globalRecall",

sends no message, retains the cCBSReference parameter and enters CCBS Activated state,

or

sends no message, releases the cCBSReference parameter and remains in the CCBS Requested state.

CCBS_U01_004 subclause 9.1.2 valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "invalidCallLinkageID",

sends no message, releases the callLinkageID parameter and enters CCBS Idle state.

CCBS U01 005 subclause 9.1.2 valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "notSubscribed",

sends no message and enters the CCBS Idle state.

CCBS U01 006 subclause 9.1.2 valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "callFailureReasonNotBusy",

sends no message and enters the CCBS Idle state.

CCBS_U01_007 subclause 9.1.2 valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "outgoingCCBSQueueFull",

sends no message and enters the CCBS Idle state.

mandatorv

CCBS U01 008 subclause 9.1.2

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "cCBSIsAlreadvActivated".

sends no message and enters the CCBS Idle state.

CCBS U01 009 subclause 9.1.2

valid mandatory

valid

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "supplementaryServiceInteractionNotAllowed",

sends no message and enters the CCBS Idle state.

CCBS_U01_010 subclause 9.1.2

valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "longTermDenial",

sends no message and enters the CCBS Idle state.

CCBS U01 011 subclause 9.1.2

valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "shortTermDenial".

sends no message and enters the CCBS Idle state.

CCBS U01 012 subclause 9.1.2

valid mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest reject component,

sends no message and enters the CCBS Idle state.

CCBS U01 013 subclause 9.1.2

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Requested state, on expiry of timer T-ACTIVATE, enters the CCBS Idle state.

6.2.1.1.2 Deactivation

CCBS_U02_001 subclause 9.2.1

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, to deactivate a CCBS request, sends a FACILITY message containing a Facility information element with a CCBSDeactivate invoke component including the cCBSReference parameter and enters the CCBS Deactivation Requested state.

CCBS U02 002 subclause 9.2.1

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, to deactivate a number of CCBS requests,

sends one or more FACILITY messages containing one or more Facility information elements with one or more CCBSDeactivate invoke components including the relevant cCBSReference parameters and enters the CCBS Deactivation Requested state.

CCBS U02 003 subclause 9.2.1

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Deactivation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate return result component, sends no message, releases the cCBSReference parameter and enters the CCBS Idle state.

CCBS_U02_004 subclause 9.2.2

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Deactivation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate return error component indicating "invalidCCBSReference".

sends no message, releases its knowledge of the CCBS request identified by the cCBSReference parameter and enters CCBS Idle state.

CCBS U02 005 subclause 9.2.2

valid mandatory

Ensure that the IUT in call state U00 and CCBS Deactivation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate reject component,

sends no message, retains knowledge of the CCBS request identified by the cCBSReference parameter and enters the CCBS Idle state.

CCBS U02 006 subclause 9.2.2

alid mandatory

Ensure that the IUT in call state U00 and CCBS Deactivation Requested state, on expiry of timer T-DEACTIVATE.

sends no message, releases its knowledge of the CCBS request identified by the cCBSReference parameter and enters CCBS Idle state.

6.2.1.1.3 Interrogation

CCBS U03 001 subclause 9.3.1.1

valid optional

Ensure that the IUT in call state U00 and CCBS Activated state, to perform an interrogation of all CCBS requests,

sends a FACILITY message containing a Facility information element with a CCBSInterrogate invoke component without a cCBSReference parameter and including a partyNumberOfA parameter and enters the CCBS Interrogation Requested state,

or

sends a FACILITY message containing a Facility information element with a CCBSInterrogate invoke component without a cCBSReference parameter and without a partyNumberOfA parameter and enters the CCBS Interrogation Requested state.

CCBS U03 002 subclause 9.3.1.1

valid mandatory

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate return result component including the recallMode parameter and a list in chronological order of the CCBS requests if any,

sends no message, discards details of those requests that are not compatible with its service compatibility information and exits the CCBS Interrogation Requested state.

CCBS_U03_003 subclause 9.3.1.2

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate return error component indicating "notSubscribed",

sends no message and removes knowledge of all CCBS requests and exits the CCBS Interrogation Requested state.

CCBS U03 004 subclause 9.3.1.2

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate reject component,

sends no message and exits the CCBS Interrogation Requested state.

CCBS_U03_005 subclause 9.3.2.1

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, to perform an interrogation of a specific active CCBS request,

sends a FACILITY message containing a Facility information element with a CCBSInterrogate invoke component including a cCBSReference parameter and enters the CCBS Interrogation Requested state.

CCBS_U03_006 subclause 9.3.2.1

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate return result component including the recallMode parameter and details of the specific active CCBS request,

sends no message and exits the CCBS Interrogation Requested state.

CCBS U03 007 subclause 9.3.2.2

valid

mandatory

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate return error component indicating "notSubscribed",

sends no message and removes knowledge of all CCBS requests identified by the cCBSReference parameter and exits the CCBS Interrogation Requested state.

mandatory

valid

CCBS U03 008 subclause 9.3.2.2

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate return error component indicating "invalidCCBSReference".

sends no message and removes knowledge of the CCBS request identified by the cCBSReference parameter and exits the CCBS Interrogation Requested state.

CCBS U03 009 subclause 9.3.2.2 valid mandatory

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate reject component,

sends no message and retains knowledge of the CCBS request identified by the cCBSReference parameter and exits the CCBS Interrogation Requested state.

CCBS_U03_010 subclause 9.3.1.1 and [6] 10.2.4.2 valid mandatory

Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, on expiry of timer T-INTERROGATE,

sends no message and exits the CCBS Interrogation Requested state.

6.2.1.1.4 Invocation and operation

CCBS_U04_001 subclauses 9.4.1.1 and 9.7.1 valid mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, where the IUT has subscribed to the Recall mode option with a value set to "Specific recall", on receipt of a FACILITY message containing a Facility information element with a CCBSRemoteUserFree invoke component including a recallMode parameter indicating "specificRecall", a valid cCBSReference parameter retained by the IUT, the addressOfB parameter and q931InfoElement parameter,

sends no message, retains the cCBSReference parameter and enters the CCBS Free state or may proceed to establish a call.

CCBS_U04_002 subclauses 9.4.1.2 and 9.7.1 valid mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, where the IUT has subscribed to the Recall mode option with a value set to "Specific recall", on receipt of a FACILITY message containing a Facility information element with a CCBSRemoteUserFree invoke component including a recallMode parameter indicating "specificRecall", a cCBSReference parameter not retained by the IUT, the addressOfB parameter and q931InfoElement parameter,

ignores the component and remains in the same state or initiates the deactivation procedure.

CCBS U04 003 subclauses 9.4.1.1 and 9.7.1 valid mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, where the IUT has subscribed to the Recall mode option with a value set to "Global recall", on receipt of a FACILITY message containing a Facility information element with a CCBSRemoteUserFree invoke component including a recallMode parameter indicating "globalRecall", a cCBSReference parameter, an addressOfB parameter and a q931InfoElement parameter containing one or more Bearer capability information elements and one or more High layer compatibility information elements which are compatible with the IUT according to annex B, subclauses B.3.2 and B.3.3 in ETS 300 102-1[8],

sends no message, retains the cCBSReference parameter and enters the CCBS Free state or may proceed to establish a call.

CCBS_U04_004 subclauses 9.4.1.2 and 9.7.1 valid mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, where the IUT has subscribed to the Recall mode option with a value set to "Global recall", on receipt of a FACILITY message containing a Facility information element with a CCBSRemoteUserFree invoke component including a recallMode parameter indicating "globalRecall", a cCBSReference parameter, an addressOfB parameter and a q931InfoElement parameter containing one or more Bearer capability information elements and one or more High layer compatibility information elements which are incompatible with the IUT according to annex B, subclauses B.3.2 and B.3.3 in ETS 300 102-1[8],

ignores the component and remains in the same state or initiates the deactivation procedure.

CCBS U04 005 subclause 9.4.2.1

valid mandatory

Ensure that the IUT in call state U00 and CCBS Free state, having received a CCBSRemoteUserFree invoke component indicating "specificRecall", to establish the CCBS call,

sends a SETUP message containing the Bearer capability information element(s) of the original call and a Facility information element with a CCBSCall invoke component including the cCBSReference parameter value of the CCBSRemoteUserFree invoke component (received prior to entering the CCBS Free state), retains the cCBSReference, enters the CCBS Call Init state and call state U01.

CCBS U04 006 subclause 9.4.2.1

valid mandatory

Ensure that the IUT in call state U00 and CCBS Free state, having received a CCBSRemoteUserFree invoke component indicating "globalRecall", to establish the CCBS call,

sends a SETUP message containing the Bearer capability information element(s) of the original call and a Facility information element with a CCBSCall invoke component including the cCBSReference parameter value of the CCBSRemoteUserFree invoke component (received prior to entering the CCBS Free state) and enters the CCBS Call Init state or CCBS Idle state and call state U01.

CCBS_U04_007 subclause 9.4.2.1

optional

Ensure that the IUT in call state U00 and CCBS Free state, on receipt of a FACILITY message (UI frame) containing a Facility information element with a CCBSStopAlerting invoke component including a valid cCBSReference parameter value and the RecallMode parameter in the previously sent CCBSRemoteUserFree invoke component was set to globalRecall,

sends no messages.

Selection: IUT accepts broadcast FACILITY message. PICS: [12] MCu 2.6.

CCBS U04 008 subclause 9.4.2.2

ilid mandatory

Ensure that the IUT in call state U01 and CCBS Call Initiated state, on receipt of a RELEASE COMPLETE message containing a Facility information element with a CCBSCall return error component indicating "invalidCCBSReference",

sends no message, removes knowledge of the CCBSReference value and enters the CCBS Idle state and the Null call state (U00).

CCBS_U04_009 subclause 9.4.2.2

valid mandatory

Ensure that the IUT in call state U01 and CCBS Call Initiated state, on receipt of a RELEASE COMPLETE message containing a Facility information element with a CCBSCall return error component indicating "alreadyAccepted",

sends no message and enters the CCBS Idle state and the Null call state (U00).

CCBS U04 010 subclause 9.4.2.2

valid mandatory

Ensure that the IUT in call state U01 and CCBS Call Initiated state, on receipt of a RELEASE COMPLETE message containing a Facility information element with a CCBSCall return error component indicating "notReadyForCall",

sends no message and enters the CCBS Idle state and the Null call state (U00).

CCBS U04 011 subclause 9.4.2.2

valid

mandatory

Ensure that the IUT in call state U01 and CCBS Call Initiated state, on receipt of a FACILITY message containing a Facility information element with a CCBSCall reject component,

sends no message, retains knowledge of the cCBSReference parameter value and remains in the same states.

CCBS U04 012 subclause 9.4.4.1

inopportune mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, on receipt of a FACILITY message containing a Facility information element with a CCBSErase invoke component,

sends no messages, removes knowledge of CCBS Reference and enters the CCBS Idle state.

CCBS U04 013 subclause 9.4.5.1

valid

mandatory

Ensure that the IUT in call state U10 and CCBS Activated state, on receipt of a FACILITY message containing a Facility information element with a compatible CCBSBFree invoke component, sends no messages.

CCBS U04 014 subclause 9.4.5.1

mandatorv Ensure that the IUT in call state U10 and CCBS Activated state, on receipt of a FACILITY message containing a Facility information element with an incompatible CCBSBFree invoke component, sends no messages.

CCBS U04 015 subclause 9.4.6.1

sends no messages.

inopportune mandatory Ensure that the IUT in call state U00 and CCBS Activated state, on receipt of a FACILITY message containing a Facility information element with an incompatible CCBSStatusRequest invoke component,

valid

CCBS U04 016 subclauses 9.4.6.1 and 9.7 valid mandatory Ensure that the IUT in call state U00 and CCBS Activated state, on receipt of a FACILITY message containing a Facility information element with a compatible CCBSStatusRequest invoke component including the RecallMode, CCBSReference, q931InfoElement,

responds with a FACILITY message containing a Facility information element with a CCBSStatusRequest return result component including an indication of the user status (Free).

CCBS U04 017 subclauses 9.4.6.1 and 9.7

including the RecallMode, CCBSReference, q931InfoElement,

valid mandatory Ensure that the IUT in call state U10 and CCBS Activated state, on receipt of a FACILITY message containing a Facility information element with a compatible CCBSStatusRequest invoke component

responds with a FACILITY message containing a Facility information element with a CCBSStatusRequest return result component including an indication of the user status (Busy).

CCBS U04 018 subclause 9.4.6.2

valid mandatory

Ensure that the IUT in call state U00 and CCBS Activated state, having sent a FACILITY message containing a Facility information element with a CCBSStatusRequest return result component, on receipt of a FACILITY message containing a Facility information element with a CCBSStatusRequest reject component,

sends no message.

6.2.1.1.5 Retention

CCBS U05 001 subclause 9.6.1

valid

Ensure that the IUT in call state U01 and Retention Idle state, having sent a SETUP message (using enbloc sending), on receipt of a RELEASE COMPLETE message containing a Facility information element with a CallInfoRetain invoke component including a valid callLinkageID parameter value.

sends no message, retains the CallLinkageID, enters Retention Active state and call state U00.

Selection: IUT supports option to retain CallLinkageID on receipt of CallInfoRetain invoke component. PICS: SC 1.

CCBS U05 002 subclause 9.6.1

valid

Ensure that the IUT in call state U01 and Retention Idle state, having sent a SETUP message (using enbloc sending), on receipt of a RELEASE COMPLETE message containing a Facility information element with a CallInfoRetain invoke component including a valid callLinkageID parameter value,

sends no message, releases the CallLinkageID, enters Retention Active state and call state U00.

Selection: IUT does NOT support option to retain CallLinkageID on receipt of CallInfoRetain invoke component. PICS: NOT SC 1.

CCBS U05 003 subclause 9.6.1

Ensure that the IUT in call state U00 and Retention Active state, on receipt of a FACILITY message containing a Facility information element with a EraseCallLinkageID invoke component including a known CallLinkageID,

sends no message, removes knowledge of the CallLinkageID and enters Retention Idle state.

ETS 300 359-3: October 1996

6.2.1.2 User B

NOTE:

If user B supports the subscription option "status request procedures for existing services" or if it can handle calls not using "existing services" then it needs to be conformant with the procedures of ETS 300 196-1, subclause 10.3. For the relevant

TPs, see ETS 300 196-3.

6.2.1.3 **GFP**

CCBS U07 001 clause 9 and [6] subclause 8.3.2.2.2 invalid mandatory Ensure that the IUT in call state U00 and in the CCBS Activated state receiving a FACILITY message containing a Facility information element with an invalid protocol profile, discards the FACILITY message and does not respond.

CCBS U07 002 clause 9 and [6] subclause 8.3.2.4.2 invalid optional Ensure that the IUT in call state U00 and in the CCBS Activated state receiving a FACILITY message (UI frame) containing a Facility information element with an invalid protocol profile,

discards the FACILITY message and does not respond.

Selection: IUT accepts broadcast FACILITY message. PICS: [12] MCu 2.6.

CCBS U07 003 clause 9 and [6] subclause 8.3.2.2.2 invalid mandatory Ensure that the IUT in call state U00 and in the CCBS Activated state receiving FACILITY message without a Facility information element,

discards the FACILITY message and does not respond.

clause 9 and [6] subclause 8.3.2.4.2 invalid optional Ensure that the IUT in call state U00 and in the CCBS Activated state receiving FACILITY message (UI frame) without a Facility information element,

discards the FACILITY message and does not respond.

Selection: IUT accepts broadcast FACILITY message. PICS: [12] MCu 2.6.

CCBS U07 005 clause 9 and [6] 8.3.2.2.2 & 8.3.2.4.2 invalid mandatory Ensure that the IUT in call state U00 and in the CCBS Activated state receiving a message other than FACILITY with a dummy call reference and this message does not apply to some other application of the dummy call reference.

discards the FACILITY message and does not respond.

CCBS U07 006 clause 9 and [6] subclause 8.4.2 invalid mandatory Ensure that the IUT in call state U00 and CCBS Interrogation Requested state, having been in the CCBS Activated state, on receipt of a FACILITY message containing a Facility information element with a CCBSInterrogate return result component including a callDetails parameter of incorrect type,

ignores the (optional) callDetails parameter and does not reject the component with problem code of "mistyped result".

User (T) 6.2.2

Selection: IUT supports T reference point procedures. PICS: R 3.2.

NOTE: The private network procedures use the bearer independent connection-oriented transport mechanism as well as the bearer related transport mechanism. Different Call References (CRs) are used to differentiate between the two mechanisms. In the following TPs, these are identified by a CR followed by a number:

CR1 = normal (bearer related) call reference;

CR2 = call reference used for bearer independent transport mechanism.

The values of CR1 and CR2 may vary from one TP to another, but when both are used in the same TP their values are distinct if they exist at the same interface.

6.2.2.1 Originating side

6.2.2.1.1 General

CCBS_U08_001 subclauses 10.1.1.1 & 10.1.2.1 valid optional

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U12 and with CR2 in call state U00, having received a DISCONNECT message with CR1 containing a Facility information element with a CCBS-T-Available invoke component, to set up the signalling connection with the public network and to request the activation of CCBS,

sends a REGISTER message with CR2 containing a Facility information element with a CCBS-T-Request invoke component including the Bearer capability information element, destinationAddress parameter, retentionSupported parameter set to TRUE, and if available the High layer compatibility and Low layer compatibility information elements, and enters call state U31 for CR2 and continues basic call clearing for CR1.

Selection: The IUT supports the CCBS request retention option. PICS: MC 4.

CCBS U08 002 subclauses 10.1.1.1 & 10.1.2.1 valid optional

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U12 and CR2 in call state U00, having received a DISCONNECT message with CR1 containing a Facility information element with a CCBS-T-Available invoke component, to set up the signalling connection with the public network and to request the activation of CCBS,

responds with a REGISTER message with CR2 containing a Facility information element with a CCBS-T-Request invoke component including the Bearer capability information element, destinationAddress parameter, retentionSupported parameter set to FALSE, and if available the High layer compatibility and Low layer compatibility information elements, and enters call state U31 for CR2 and continues basic call clearing for CR1.

Selection: The IUT does NOT support the CCBS request retention option. PICS: NOT MC 4.

CCBS_U08_003 subclauses 10.1.1.1 & 10.1.2.1 valid optional

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and CR2 in call state U00, having received a RELEASE COMPLETE message with CR1 containing a Facility information element with a CCBS-T-Available invoke component, to set up the signalling connection with the public network and to request the activation of CCBS.

responds with a REGISTER message with CR2 containing a Facility information element with a CCBS-T-Request invoke component including the Bearer capability information element, destinationAddress parameter, retentionSupported parameter set to FALSE, and if available the High layer compatibility and Low layer compatibility information elements, and enters call state U31 for CR2.

Selection: The IUT does NOT support the CCBS request retention option. PICS: NOT MC 4.

CCBS U08 004 subclause 10.1.2.1 valid mandatory

Ensure that the IUT in the CCBS Requested state, with CR1 in call state U00 and CR2 in call state U31, on receipt of a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Request return result component,

does not respond and remains in the same call states for CR1 and CR2.

CCBS_U08_005 subclause 10.1.2.2 valid mandatory

Ensure that the IUT in the CCBS Requested state, with CR1 in call state U00 and CR2 in call state U31, on receipt of a FACILITY with CR2 message containing a Facility information element with a reject component,

sends a RELEASE message with CR2 and with cause value #31 "Normal, unspecified", retains CR1 in its state and enters call state U19 for CR2.

CCBS_U08_006 subclauses 10.1.3.1 & 10.1.6 valid mandatory

Ensure that the IUT in the CCBS Activated state, with CR1 in call state U00 and CR2 in call state U31, on receipt of a FACILITY message with CR2 containing a Facility information element with a CCBS-T-RemoteUserFree invoke component and it does not need to suspend CCBS,

responds with a SETUP message with CR1 using the call establishment information used in the original call attempt and includes a Facility information element with a CCBS-T-Call invoke component, retains CR2 in its state and enters call state U01 for CR1.

CCBS_U08_007 subclauses 10.1.4.1 & 10.1.3 valid mandatory

Ensure that the IUT in the CCBS Activated state, with CR1 in call state U00 and CR2 in call state U31, on receipt of a FACILITY message with CR2 containing a Facility information element with a CCBS-T-RemoteUserFree invoke component and it needs to suspend CCBS,

responds with a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Suspend invoke component and remains in the same call states and enters the CCBS Free state.

CCBS_U08_008 subclause 10.1.4.2 valid mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and CR2 in call state U31, (after sending a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Suspend invoke component) on receipt of a FACILITY message with CR2 containing a Facility information element with a reject component,

responds with a RELEASE message with CR2 and with cause value #31 "Normal, unspecified", retains CR1 in its state and enters call state U19 for CR2.

CCBS_U08_09 subclause 10.1.5.1 valid mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and CR2 in call state U31, and after suspending CCBS, to request resumption of the CCBS request,

sends a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Resume invoke component and remains in the same call states.

CCBS_U08_010 subclause 10.1.5.2 valid mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and CR2 in call state U31, (after sending a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Resume invoke component) on receipt of a FACILITY message with CR2 containing a Facility information element with a reject component,

responds with a RELEASE message with CR2 and with cause value #31 "Normal, unspecified", retains CR1 in its state and enters call state U19 for CR2.

CCBS_U08_011 subclause 10.1.6.1 valid mandatory

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U10 and CR2 in call state U31, on receipt of a RELEASE message with CR2,

responds with a RELEASE COMPLETE message with CR2, retains CR1 in its state and enters call state U00 for CR2.

CCBS_U08_012 subclause 10.1.6.2, 2nd paragraph valid optional

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U03 and CR2 in call state U31, on receipt of a DISCONNECT message with CR1 and with cause value #17 "User busy", containing a Facility information element with a CCBS-T-Available invoke component,

sends a RELEASE message and enters call state U19 for CR1 and remains in call state U31 for CR2 and does not request activation of CCBS.

Selection: IUT supports CCBS Request Retention option. PICS: MC 4.

CCBS_U08_013 subclause 10.1.6.2, 3rd paragraph valid optional

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U03 and CR2 in call state U31, on receipt of a DISCONNECT message with CR1 and with cause value #17 "User busy", containing a Facility information element with a CCBS-T-Available invoke component and a RELEASE message with CR2,

sends a RELEASE message and enters call state U19 for CR1 and sends a RELEASE COMPLETE message and enters call state U00 for CR2 and requests, or is capable of requesting, activation of CCBS.

Selection: IUT does NOT support CCBS Request Retention option. PICS: NOT MC 4.

CCBS_U08_014 subclause 10.1.6.2, 4th paragraph valid mandatory

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U03 and CR2 in call state U31, on receipt of a DISCONNECT message with CR1, with a cause value indicating call failure at the destination other than busy (NOT cause value #17 "User busy"), and a RELEASE message with CR2,

sends a RELEASE message and enters call state U19 for CR1 and enters call state U19 for CR2 and does not request activation of CCBS.

ETS 300 359-3: October 1996

CCBS_U08_015 subclause 10.1.6.2, 5th paragraph valid mandatory

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U01 and CR2 in call state U31, on receipt of a RELEASE COMPLETE message with CR1, with a cause value indicating call failure before reaching the destination (NOT cause value #17 "User busy").

enters call state U00 for CR1, sends a RELEASE message with CR2, enters call state U19 for CR2 and does not request activation of CCBS.

CCBS_U08_016 subclause 10.1.6.2, 6th paragraph valid mandatory

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U01 and CR2 in call state U31, on receipt of a FACILITY message with CR1 containing a Facility information element encoded as CCBS-T-Call reject component,

sends a DISCONNECT message with CR1 to clear the call attempt and a RELEASE message with CR2 and cause value #31 "Normal unspecified" to clear the signalling connection, enters call state U11 for CR1 and enters call state U19 for CR2,

or

sends a RELEASE COMPLETE with CR1 to clear the call attempt and a RELEASE message with CR2 and cause value #31 "Normal unspecified" to clear the signalling connection, enters call state U00 for CR1 and enters call state U19 for CR2.

CCBS_U08_017 subclause 10.1.7.1 valid mandatory

Ensure that the IUT in the CCBS Activated state, with CR1 in call state U00 and CR2 in call state U31, to deactivate the CCBS request,

sends a RELEASE message with CR2 and with cause #31, retains CR1 in its state and enters call state U19 for CR2.

6.2.2.1.2 GFP

CCBS_U09_001 subclauses 10.1 & [6] 8.3.2.1.2.2 inopportune mandatory

Ensure that the IUT in the CCBS Activated state, with CR1 in call state U00 and with CR2 in call state
U31, on receipt of a message other than FACILITY, RELEASE, RELEASE COMPLETE, STATUS or
STATUS ENQUIRY with CR2,

ignores the message and sends a STATUS message with CR2 and with a Cause information element containing the cause value #101 "Message not compatible with call state" and a call state information element containing the call state value 31.

CCBS_U09_002 subclause 10.1 & [6] 8.3.2.1.2.2 invalid mandatory

Ensure that the IUT in the CCBS Activated state, with CR1 in call state U00 and with CR2 in call state

U31, on receipt of a FACILITY message with CR2 containing a Facility information element with an invalid protocol profile,

ignores the message and sends a STATUS message with CR2 and with a Cause information element containing the cause value #100 "Invalid information element contents".

6.2.2.2 Destination side

6.2.2.2.1 General

CCBS_U10_001 subclause 10.2.1.1 valid mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U06, on receipt of a busy indication and CCBS is available to the destination,

sends a DISCONNECT message with CR1 containing a Facility information element with a CCBS-T-Available invoke component and enters call state U11 for CR1,

or

sends a RELEASE COMPLETE message with CR1 containing a Facility information element with a CCBS-T-Available invoke component and enters call state U00 for CR1.

CCBS U10 002 subclause 10.2.2.1 valid optional

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and CR2 in call state U00, on receipt of a REGISTER message with CR2 containing a Facility information element encoded as CCBS-T-Request invoke component including the parameter retentionSupported set to TRUE,

responds with a FACILITY message with CR2 containing a Facility information element encoded as CCBS-T-Request return result component including retentionSupported set to TRUE, retains CR1 in its state and enters call state U31 for CR2.

Selection: The IUT supports the CCBS request retention option. PICS: MC 4.

CCBS U10 003 subclause 10.2.2.1

valid optional

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and CR2 in call state U00, on receipt of a REGISTER message with CR2 containing a Facility information element encoded as CCBS-T-Request invoke component including the parameter retentionSupported set to TRUE,

responds with a FACILITY message with CR2 containing a Facility information element encoded as CCBS-T-Request return result component including retentionSupported set to FALSE, retains CR1 in its state and enters call state U31 for CR2.

Selection: The IUT does NOT support the CCBS request retention option. PICS: NOT MC 4.

CCBS_U10_004 subclause 10.2.2.2

inopportune mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and CR2 in call state U00, on receipt of REGISTER message with CR2 containing a Facility information element with a CCBS-related invoke component different from CCBS-T-Request invoke component,

sends a RELEASE message with cause value #29 "Facility rejected", retains CR1 in its state and enters call state U19 for CR2.

CCBS_U10_005 subclause 10.2.2.2

inopportune mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and CR2 in call state U00, on receipt of REGISTER message with CR2 containing a Facility information element with a CCBS-T-Request invoke component but the supplementary service CCBS is not available to the destination.

responds with a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Request return error component indicating "longTermDenial" and then sends a RELEASE message with cause value #31 "Normal unspecified" with CR2 to clear the signalling connection, retains CR1 in its state and enters call state U19 for CR2,

or

responds with a RELEASE message with CR2 and with cause value #31 "Normal unspecified" containing a Facility information element with a CCBS-T-Request return error component indicating "longTermDenial", retains CR1 in its state and enters call state U19 for CR2.

CCBS U10 006 subclause 10.2.2.2

invalid mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and CR2 in call state U00, on receipt of REGISTER message with CR2 containing a Facility information element with a CCBS-T-Request invoke component but the supplementary service CCBS is not available to the destination at this time,

responds with a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Request return error component indicating "shortTermDenial" and then sends a RELEASE message with CR2 and with cause value #31 "Normal unspecified", retains CR1 in its state and enters call state U19 for CR2.

or

responds with a RELEASE message with CR2 and with cause value #31 "Normal unspecified" containing a Facility information element with a CCBS-T-Request return error component indicating "shortTermDenial", retains CR1 in its state and enters call state U19 for CR2.

CCBS U10 007 subclause 10.2.3.1

valid mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and CR2 in call state U31 and when ready to accept a CCBS call,

sends a FACILITY message with CR2 containing a Facility information element with a CCBS-T-RemoteUserFree invoke component and remains in the same call states.

CCBS_U10_008 subclause 10.2.3.2

invalid mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and CR2 in call state U31 (after sending a FACILITY message with CR2 containing a Facility information element with a CCBS-T-RemoteUserFree invoke component) on receipt of a FACILITY message with CR2 containing a Facility information element with a reject component,

sends a RELEASE message with CR2 and with cause value #31 "Normal unspecified", retains CR1 in its state and enters call state U19 for CR2.

ETS 300 359-3: October 1996

mandatory

CCBS U10 009 subclause 10.2.4.1

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and CR2 in call state U31, on receipt of a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Suspend invoke component,

sends no messages and awaits resumption of the CCBS request and remains in the same call states.

CCBS U10 010 subclause 10.2.5.1

valid mandatory

valid

Ensure that the IUT with CR1 in call state U00 and CR2 in call state U31, having previously received a CCBS-T-Suspend invoke component, on receipt of a FACILITY message with CR2 containing a Facility information element with a CCBS-T-Resume invoke component.

sends no messages and resumes monitoring of the destination for being not busy and remains in the same call states.

CCBS_U10_011 subclause 10.2.6.1, 2nd paragraph valid mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and CR2 in call state U31, on receipt of a SETUP with CR1 using the call establishment information used in the original call attempt and including a Facility information element with a CCBS-T-Call invoke component,

enters call state U06 for CR1, sends either a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message with CR1 and retains CR2 in its state.

CCBS_U10_012 subclause 10.2.6.1, 3rd paragraph valid mandatory

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U07 or U08 and CR2 in call state
U31, after sending an ALERTING or CONNECT message with CR1, to clear the signalling connection,
sends a RELEASE message with CR2, retains CR1 in its state and enters call state U19 for CR2.

CCBS U10 013 subclause 10.2.6.2

valid optional

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U06 and CR2 in call state U31, on receipt of an indication that the called user is busy again,

sends a DISCONNECT message with CR1 containing a Facility information element with a CCBS-T-Available invoke component, retains CR2 in its call state and enters call state U11 for CR1.

or

sends a RELEASE COMPLETE message with CR1 containing a Facility information element with a CCBS-T-Available invoke component, retains CR2 in its call state and enters call state U00 for CR1

Selection: The IUT supports the CCBS request retention option. PICS: MC 4.

CCBS_U10_014 subclause 10.2.6.2

valid

optional

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U06 and CR2 in call state U31, on receipt of an indication that the called user is busy again,

sends a DISCONNECT message with CR1 containing a Facility information element with a CCBS-T-Available invoke component to clear the attempted call and a RELEASE message with CR2 and with cause value #31 "Normal, unspecified" to clear the signalling connection, enters call state U11 for CR1 and enters call state U19 for CR2,

or

sends a RELEASE COMPLETE message with CR1 containing a Facility information element with a CCBS-T-Available invoke component to clear the attempted call and a RELEASE message with CR2 and with cause value #31 "Normal, unspecified" to clear the signalling connection, enters call state U00 for CR1 and enters call state U19 for CR2.

Selection: The IUT does NOT support the CCBS request retention option. PICS: NOT MC 4.

CCBS_U10_015 subclause 10.2.6.2

valid

mandatory

Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U06 and CR2 in call state U31, but the call fails at the destination side due to any reason other than the user at that side is busy,

sends a DISCONNECT message with CR1 to clear the attempted call and a RELEASE message with CR2 and with cause value #31 "Normal, unspecified" to clear the signalling connection, enters call state U11 for CR1 and enters call state U19 for CR2,

or

sends a RELEASE COMPLETE message with CR1 to clear the attempted call and a RELEASE message with CR2 and with cause value #31 "Normal, unspecified" to clear the signalling connection, enters call state U00 for CR1 and enters call state U19 for CR2.

CCBS_U10_016 subclause 10.2.6.2, 5th paragraph valid mandatory
Ensure that the IUT in the CCBS Call Init state, with CR1 in call state U06 and CR2 in call state U31, but the call fails before reaching the destination,

sends a DISCONNECT message with CR1 to clear the attempted call and does not send a RELEASE message to clear the signalling connection to the public network, enters call state U11 for CR1 and remains in call state U31 for CR2,

or

sends a RELEASE COMPLETE message with CR1 to clear the attempted call and does not send a RELEASE message to clear the signalling connection to the public network, enters call state U00 for CR1 and remains in call state U31 for CR2.

CCBS_U10_017 subclause 10.2.7.1 valid mandatory
Ensure that the IUT in the CCBS Activated state, with CR1 in call state U00 and CR2 in call state U31, to deactivate the CCBS request,

sends a RELEASE message with CR2 and with cause value #31 "Normal unspecified" to clear the signalling connection, retains CR1 in its state and enters call state U19 for CR2.

6.2.2.2.2 GFP

CCBS_U11_001 subclauses 10.2, [6] 8.3.2.1.1.2 inopportune mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and with CR2 in call state U10, on receipt of a REGISTER message with CR2 (a call reference in use) containing a Facility information element with a CCBS-T-Request invoke component,

ignores the message and sends a STATUS message with CR2 and with a Cause information element containing the cause value #101 "Message not compatible with call state", a call state information element containing the call state (U10) and remains in the same call states.

CCBS_U11_002 subclauses 10.2, [6] 8.3.2.1.1.2 invalid mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and with CR2 in call state U00, on receipt of a REGISTER message with CR2 containing a Facility information element with an invalid protocol profile,

sends a RELEASE COMPLETE message with CR2 and with cause value #100 "Invalid information element contents".

CCBS_U11_003 subclauses 10.2, [6] 8.3.2.1.1.1, [8] 5.8.3.2 d inopportune mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and with CR2 in call state U00, on receipt of a REGISTER message with a call reference flag incorrectly set to "1", ignores the message.

CCBS_U11_004 subclauses 10.2, [6] 8.3.2.1.1.1, [8] 5.8.6.1 inopportune mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and with CR2 in call state U00, on receipt of a REGISTER message with CR2 which has one mandatory information element missing, sends a RELEASE COMPLETE message with CR2 and with cause value #96 "Mandatory information element missing".

CCBS_U11_005 subclauses 10.2, [6] 8.3.2.1.1.1, [8] 5.8.6.2 invalid mandatory
Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and with CR2 in call state U00, on receipt of a REGISTER message with CR2 and which has one mandatory information element with invalid contents.

ignores the message and sends a STATUS message with CR2 and with a Cause information element containing the cause value #100 "Invalid information element contents", a call state information element containing the call state and remains in the same call states.

CCBS_U11_006 subclauses 10.2, [6] 8.3.2.1.2.2 inopportune mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and with CR2 in call state U31, on receipt of a message other than FACILITY, RELEASE, RELEASE COMPLETE, STATUS or STATUS ENQUIRY with CR2,

ignores the message and sends a STATUS message with CR2 and with a Cause information element containing the cause value #101 "Message not compatible with call state" and a call state information element containing the call state value 31.

ETS 300 359-3: October 1996

CCBS_U11_007 subclauses 10.2, [6] 8.3.2.1.2.2 invalid mandatory

Ensure that the IUT in the CCBS Free state, with CR1 in call state U00 and with CR2 in call state U31, on receipt of a FACILITY message with CR2 containing a Facility information element with an invalid protocol profile.

ignores the message and sends a STATUS message with CR2 and with a Cause information element containing the cause value #100 "Invalid information element contents".

CCBS_U11_008 subclauses 10.2, [6] 8.4.2 invalid mandatory

Ensure that the IUT in the CCBS Idle state, with CR1 in call state U00 and with CR2 in call state U00, on receipt of a REGISTER message with CR2 containing a Facility information element with a CCBS-T-Request invoke component including an originating Address parameter of incorrect type, ignores the (entired) originating Address parameter and does not reject the component with

ignores the (optional) originatingAddress parameter and does not reject the component with problem code of "mistyped argument".

7 Compliance

An ATS which complies with this TSS&TP specification shall:

- a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 6:
- b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 5;
- c) use the same naming conventions for the test groups and test cases;
- d) maintain the relationship specified in clause 6 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;
- e) comply with ISO/IEC 9646-2 [4].

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 6 shall be included in a compliant ATS.

8 Requirements for a comprehensive testing service

As a minimum the Remote test method, as specified in ISO/IEC 9646-2 [4], shall be used by any organization claiming to provide a comprehensive testing service for user equipment claiming conformance to ETS 300 359-1 [1].

Page 26 ETS 300 359-3: October 1996

History

Document history				
October 1995	Public Enquiry	PE 94:	1995-10-23 to 1996-02-16	
August 1996	Vote	V 108:	1996-08-05 to 1996-09-27	
October 1996	First Edition			

ISBN 2-7437-0268-0 - Edition complète ISBN 2-7437-1076-4 - Partie 3 Dépôt légal : Octobre 1996