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Digitalno omrežje z integriranimi storitvami (ISDN) - Protokol digitalne naročniške signalizacije št. 1 (DSS1) - Dopolnilna storitev: nedvoumna predaja klica (ECT) - 5. del: Zgradba preskušalnega niza in namen preskušanja (TSS&TP) - Specifikacija za omrežje

Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Explicit Call Transfer (ECT) supplementary service; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Explicit Call Transfer (ECT) supplementary service; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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Foreword

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

The present document is part 5 of a multi-part deliverable covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Explicit Call Transfer (ECT) 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: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

National transposition dates	
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1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for the Network 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 for the Explicit Call Transfer (ECT) supplementary service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 300 369-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of the T reference point or coincident S and T reference point of implementations conforming to EN 300 369-1 [1].

2 References

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

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

[1] ETSI EN 300 369-1 (V1.2.4): "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[2] ETSI EN 300 369-2 (V1.2.4): "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) 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 - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[4] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".

[5] ETSI EN 300 141-2 (V1.2.4): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS)proforma specification".

[6] ETSI EN 300 196-1 (V1.2.2): "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] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

[9] ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".

[10] ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".

[11] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".

[12] ETSI EN 300 403-3 (V1.2.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".

[13] ETSI ETS 300 369-5: "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network".

[14] ETSI ETS 300 369-6: "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 6: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

3.1.1 Definitions related to conformance testing

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

Implementation Under Test (IUT): 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].

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

3.1.2 Definitions related to EN 300 369-1

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

Call Reference (CR): See EN 300 403-1 [8], clause 4.3.

component: See EN 300 196-1 [6], clause 3.1.

Idle auxiliary state: See EN 300 196-1 [6], clause 7.1.2.

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

ISDN number: number conforming to the numbering and structure specified in ITU-T Recommendation E.164

invoke component: where reference is made to an "xxxx" invoke component, an invoke component is meant with its operation value set to the value of the operation "xxxx"

NOTE: See EN 300 196-1 [6], clause 8.2.2.1.

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

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

network (T): DSS1 protocol entity at the network side of the user-network interface where a T reference point applies (Network connected to Private ISDN)

return error component: where reference is made to an "xxxx" return error component, an return error component is meant with its operation value set to the value of the operation "xxxx"

NOTE: See EN 300 196-1 [6], clause 8.2.2.3.

return result component: where reference is made to an "xxxx" return result component, an return result component is meant with its operation value set to the value of the operation "xxxx"

NOTE: See EN 300 196-1 [6], clause 8.2.2.2.

served user: user who invokes the ECT supplementary service

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

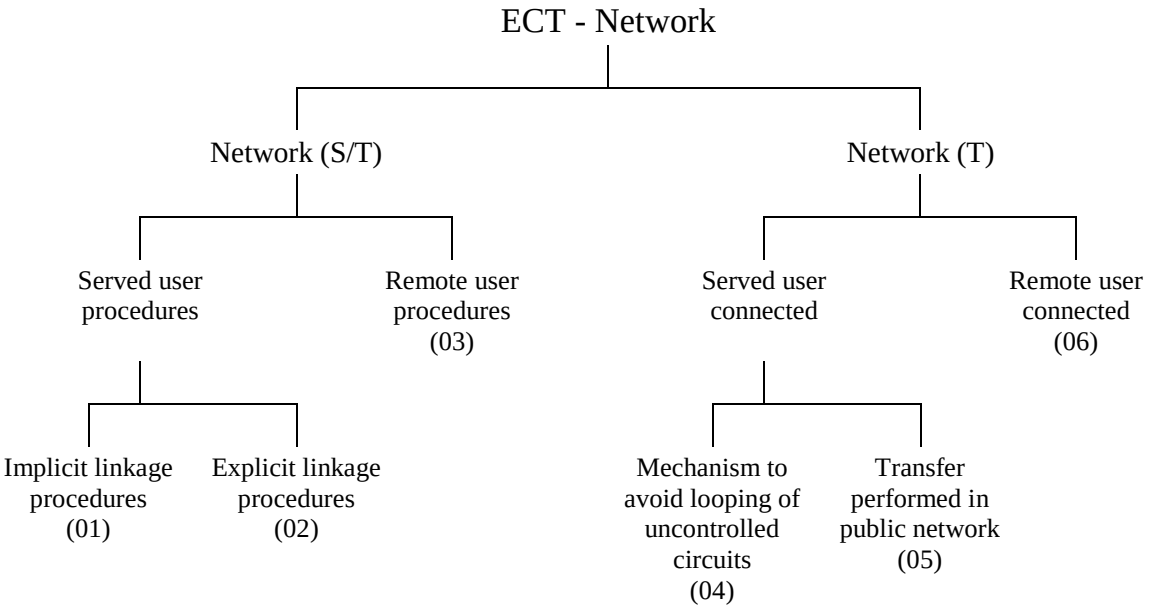
supplementary service: See ITU-T Recommendation I.210 [11], clause 2.4.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ATM	Abstract Test Method
ATS	Abstract Test Suite
COLR	COnnected Line Restriction
CR	Call Reference
CR1	CR for the first call in a TP
CR2	CR for the second call in a TP
CR3	CR for the third call in a TP
DSS1	Digital Subscriber Signalling System No. one
ECT	Explicit Call Transfer
(Held)	Call Held auxiliary state
(Idle)	Idle auxiliary state
ISDN	Integrated Services Digital Network
IUT	Implementation under test
N02	Overlap Sending call state
N03	Outgoing Call Proceeding call state
N04	Call Delivered call state
N06	Call Present call state
N07	Call Received call state
N08	Connect Request call state
N09	Incoming Call Proceeding call state
N10	Active call state
N12	Disconnect Indication call state
N19	Release Request call state
N25	Overlap Receiving call state
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure
U07	Call Received call state (user)
U08	Connect Request call state (user)
U10	Active call state (user)

4 Test Suite Structure (TSS)



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

Figure 1: Test suite structure

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

5.1.1 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 supplementary service 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. "ECT"	
<iut>	=	type of IUT:	U N	User Network
<group>	=	group	2 digit field representing group reference according to TSS	
<nnn>	=	sequential number	(001-999)	

5.1.2 Source of TP definition

The TPs are based on EN 300 369-1 [1].

5.1.3 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	**<Identifier>** *tab* **<paragraph number in base EN>** *tab* **<type of test>** *tab* **<condition>** *CR.*	see table 1 **clause 0.0.0** **valid, invalid, inopportune** **mandatory, optional, conditional**
Stimulus	Ensure that the IUT in the <supplementary service state> and with CR1 in <basic call state> (<auxiliary state>) and with CR2 in <basic call state> (<auxiliary state>) and with CR3 in <basic call state> (<auxiliary state>) <trigger> *see below for message structure* *or* <goal>	 ECT Request state N10 (Idle), N10 (Held), etc. " " receiving a XXXX message to request a ...
Reaction	<action> <conditions> *if the action is sending* *see below for message structure* <next action>, *etc.* and enters <supplementary service state> *and/or* and remains in the same state(s) *or* and enters state <state> with CR<number(s)>	sends, saves, does, etc. using en-bloc sending, ...
Message structure	<message type> message containing a *a)* <info element> information element with *b)* a <field name> encoded as *or* including <coding of the field> and *back to a or b.*	SETUP, FACILITY, CONNECT, ... Bearer capability, Facility, ...
NOTE: Text in italics will not appear in TPs and text between <> is filled in for each TP and may differ from one TP to the next.		

5.1.4 Test strategy

As the base standard EN 300 369-1 [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 EN 300 369-2 [2]. The criteria applied include 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.

5.2 Network TPs for ECT

All PICS items referred to in this clause are as specified in EN 300 369-2 [2] unless indicated otherwise. Where there is a reference to the HOLD PICS this refers to EN 300 141-2 [5] and where there is a reference to the Basic Call PICS this refers to EN 300 403-3 [12].

Unless specified:

- The messages indicated are valid and contain at least the mandatory information elements and possibly optional information elements.
- The information elements indicated are valid and contain at least the mandatory parameters and possibly optional parameters.

5.2.1 Network (S/T)

Selection: IUT supports requirements at the coincident S and T reference point. PICS: R.3.1.

5.2.1.1 Served user procedures

5.2.1.1.1 Implicit linkage procedures

ECT_N01_001 **clauses 9.2.1.1, 9.2.3** **mandatory**
Ensure that the IUT in the ECT Idle state and with CR1 in state N10 (Held) and CR2 in state N10 (Idle) receiving a valid FACILITY message with CR1 containing a Facility information element with an EctExecute component,

sends a DISCONNECT message with CR1 containing a Facility information element with a EctExecute return result component and enters state N12 (CR1);

sends a DISCONNECT message with CR2 and enters state N12 (CR2);

and remains in the same ECT state.

ECT_N01_002 **clauses (see note.1.1, 9.2.3)** **optional**
Ensure that the IUT in the ECT Idle state and with CR1 in state N04 (Held) and CR2 in state N10 (Idle) receiving a valid FACILITY message with CR1 containing a Facility information element with an EctExecute component,

sends a DISCONNECT message with CR1 containing a Facility information element with a EctExecute return result component and enters state N12 (CR1);

sends a DISCONNECT message with CR2 and enters state N12 (CR2);

and remains in the same ECT state.

Selection: IUT supports ECT from state N04. PICS: MC 11.
Selection: IUT supports HOLD in state N04. HOLD PICS: MC 3.2.

ECT_N01_003 **clauses 9.2.1.1, 9.2.3** **optional**
Ensure that the IUT in the ECT Idle state and with CR1 in state N10 (Held) and CR2 in state N04 (Idle) receiving a valid FACILITY message with CR1 containing a Facility information element with an EctExecute component,

sends a DISCONNECT message with CR1 containing a Facility information element with a EctExecute return result component and enters state N12 (CR1);

sends a DISCONNECT message with CR2 and enters state N12 (CR2);

and remains in the same ECT state.

Selection: IUT supports ECT from state N04. PICS: MC 11.

ECT_N01_004 **clause 9.2.1.2** **mandatory**
Ensure that the IUT in the ECT Idle state with CR1 in call state N10 (Held) and CR2 in call state N10 (Idle) receiving a FACILITY message with CR1 containing a Facility information element with an EctExecute component and the ECT supplementary service is not subscribed to,

responds with a FACILITY message with CR1 containing a Facility information element with an EctExecute return error component indicating "notSubscribed" and remains in the same ECT and call states.

ECT_N01_005 **clause 9.2.1.2** **optional**
Ensure that the IUT in the ECT Idle state with CR1 in call state N10 (Held) and CR2 in call state N04 (Idle) receiving a FACILITY message with CR1 containing a Facility information element with an EctExecute component and the ECT supplementary service is not subscribed to,

responds with a FACILITY message with CR1 containing a Facility information element with an EctExecute return error component indicating "notSubscribed" and remains in the same ECT and call states.

Selection: IUT supports ECT from state N04. PICS: MC 11.

ECT_N01_006 clause 9.2.1.2 optional
Ensure that the IUT in the ECT Idle state with CR1 in call state N04 (Held) and CR2 in call state N10 (Idle) receiving a FACILITY message with CR1 containing a Facility information element with an EctExecute component and the ECT supplementary service is not subscribed to,
responds with a FACILITY message with CR1 containing a Facility information element with an EctExecute return error component indicating "notSubscribed" and remains in the same ECT and call states.

Selection: IUT supports ECT from state N04. PICS: MC 11.
Selection: IUT supports HOLD in state N04. HOLD PICS: MC 3.2.

ECT_N01_007 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR1 in call state N10 (Held) and CR2 in call state N10 (Idle) receiving a FACILITY message with CR1 containing a Facility information element with an EctExecute component and the network recognizes a looping condition,
responds with a FACILITY message with CR1 containing a Facility information element with an EctExecute return error component indicating "notAvailable" and remains in the same ECT and call states.

ECT_N01_008 clause 9.2.1.2 optional
Ensure that the IUT in the ECT Idle state with CR1 in call state N10 (Held) and CR2 in call state N04 (Idle) receiving a FACILITY message with CR1 containing a Facility information element with an EctExecute component and the network recognizes a looping condition,
responds with a FACILITY message with CR1 containing a Facility information element with an EctExecute return error component indicating "notAvailable" and remains in the same ECT and call states.

Selection: IUT supports ECT from state N04. PICS: MC 11.

ECT_N01_009 clause 9.2.1.2 optional
Ensure that the IUT in the ECT Idle state with CR1 in call state N04 (Held) and CR2 in call state N10 (Idle) receiving a FACILITY message with CR1 containing a Facility information element with an EctExecute component and the network recognizes a looping condition,
responds with a FACILITY message with CR1 containing a Facility information element with an EctExecute return error component indicating "notAvailable" and remains in the same ECT and call states.

Selection: IUT supports ECT from state N04. PICS: MC 11.
Selection: IUT supports HOLD in state N04. HOLD PICS: MC 3.2.

ECT_N01_010 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR1 in call state N10 (Held) and CR2 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_011 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR1 in call state N10 (Held) and CR2 in call state N04 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_012 clause 9.2.1.2 optional
Ensure that the IUT in the ECT Idle state with CR1 in call state N04 (Held) and CR2 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

Selection: IUT supports HOLD in state N04. HOLD PICS: MC 3.2.

ECT_N01_013 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N02 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_014 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N03 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_015 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N06 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_016 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N07 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_017 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N09 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_018 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N12 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR1 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_019 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N19 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_020 clause 9.2.1.2 optional
Ensure that the IUT in the ECT Idle state with CR2 in call state N25 and CR1 in call state N10 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

Selection: IUT supports overlap receiving. Basic Call PICS: MCn 2.2.

ECT_N01_021 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N02 and CR1 in call state N04 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_022 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N03 and CR1 in call state N04 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.

ECT_N01_023 clause 9.2.1.2 mandatory
Ensure that the IUT in the ECT Idle state with CR2 in call state N06 and CR1 in call state N04 (Idle) receiving a FACILITY message with CR2 containing a Facility information element with an EctExecute component,
responds with a FACILITY message with CR2 containing a Facility information element with an EctExecute return error component indicating "invalidCallState" and remains in the same ECT, CR1 and CR2 states.