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Part 1: Test Suite Structure and Test Purposes
(TSS & TP)

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Page 2 Draft prETS 300 806-1: July 1996		

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# **Contents**

Forev	word					5
1	Scope					7
2	Normativ	e references				7
3	Definition	s and abbres	/iations			8
Ü	3.1					
	3.2					
4	Test Suit	e Structure (1	TSS)			9
	4.1					
	4.2					
5	Test Pur	ooses (TP)				.13
	5.1					
		5.1.1	Test purposes r	production method		.13
		5.1.2				
		5.1.3				
		5.1.4				
	5.2					
	5.2	5.2.1				
		5.2.2			trol	
	5.3					
	5.5	5.3.1			nsport of APDUs	
		5.5.1	5.3.1.1		equirements	
			5.3.1.1			
					PC - Sending Facility IE	
					PC - Receiving Facility IE	
			5040	5.3.1.1.3	PC - Protocol error handling	
			5.3.1.2		al Transport Control requirements	
				5.3.1.2.1	GFTC - Actions at a Receiving PINX	
				5.3.1.2.2	GFTC - Actions at a Destination PINX.	
			5.3.1.3		ents	
		5.3.2			dent APDU transport mechanism	
			5.3.2.1		quirements	
				5.3.2.1.1	PC - Actions in the Null state	
				5.3.2.1.2	PC - Actions in the Call Initiated state	.25
				5.3.2.1.3	PC - Actions in the Incoming Call	
					Proceeding state	.25
				5.3.2.1.4	PC - Actions in the Outgoing Call	
					Proceeding state	.25
				5.3.2.1.5	PC - Actions in the Connect Request	
					state	.25
				5.3.2.1.6	PC - Actions in the Active state	.26
				5.3.2.1.7	PC - Connection release	.26
				5.3.2.1.8	PC - Actions in the Release Request	
					state	.27
				5.3.2.1.9	PC - Transport of APDUs associated	
				0.0.20	with a CISC	27
				5.3.2.1.10	PC - Protocol error handling	
				5.3.2.1.11	PC requirements - Layer Management	
				0.0.2.1.11	Procedures	
				5.3.2.1.12	PC - Protocol timer values	
			E 2 2 2			
			5.3.2.2		I Transport Control requirements	
				5.3.2.2.1	GFTC - Actions at a Transit PINX	
				5.3.2.2.2	GFTC - Actions at an End PINX	
				5.3.2.2.3	GFTC - Actions at a Terminating PINX	
				5.3.2.2.4	GFTC - Actions at a Destination PINX.	.43

# Page 4 Draft prETS 300 806-1: July 1996

			5.3.2.3		uirements	
		5.3.3	Call Related	d procedures for the	ne transport of Notifications	44
			5.3.3.1		rol requirements	
				5.3.3.1.1	PC - Sending Notification information	44
				5.3.3.1.2	PC - Receiving Notification	
					information	
				5.3.3.1.3	PC - Protocol error handling	
			5.3.3.2		tional Transport Control requirements	
				5.3.3.2.1	GFTC - Actions at a Transit PINX	48
				5.3.3.2.2	GFTC - Actions at a Receiving End	
					PINX	48
		5.3.4	Application	Layer requiremen	ts	48
			5.3.4.1	Coordination	Function requirements	48
			5.3.4.2	ROSE require	ements	49
		5.3.5	Verification	of state		50
6	Final T	est Purpose	es			50
_	6.1				for the transport of APDUs	
	_	6.1.1				
		6.1.2			reference table	
	6.2	Requirer			ction Oriented procedures for the transport	
		6.2.1				
		6.2.2			reference table	
	6.3	Requirer			for the transport of Notifications	
		6.3.1				
		6.3.2			reference table	
	6.4	Requirer				
		6.4.1				
		6.4.2			reference table	
7	Compl	iance clause	e			79
Ann	ex A (info	ormative):	Index of test p	urposes		80
	,	,		•		
Hist	ory					82

Draft prETS 300 806-1: July 1996

# **Foreword**

This draft European Telecommunication Standard (ETS) has been produced by the standardizing Information and Communication Systems Association (ECMA) on behalf of its members and those of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS comprises two parts with the generic title "Private Integrated Services Network (PISN); Inter-exchange signalling protocol; Generic functional protocol for the support of supplementary services". The title of each part is listed below:

Part 1: "Test Suite Structure and Test Purposes (TSS & TP)"

Part 2: "Abstract Test Suite Specification (ATS)"

Proposed transposition dates				
Date of latest announcement of this ETS (doa):	3 months after ETSI publication			
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	6 months after doa			
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa			

Page 6 Draft prETS 300 806-1: July 1996

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# 1 Scope

This European Telecommunication Standard (ETS) contains the Test Suite Structure (TSS) and Test Purposes (TPs) specification for the Generic functional protocol for the support of supplementary services of the Inter-exchange signalling protocol for Private Integrated Services Networks (PISN).

The objective of this TSS and TPs specification is to provide conformance tests which give a greater probability of inter-operability. The TSS and TPs specification covers the procedures described in ETS 300 239 [1], but omitting those procedures that are better tested by testing the individual supplementary services that use those procedures.

This ETS excludes the following:

- Connectionless APDU Transport Mechanism, (i.e. no TPs have been derived from ETS 300 239 [1], subclause 7.2);
- Dialogue Service Element (DSE), (i.e. no TPs have been derived from ETS 300 239 [1], subclause 8.4);
- Remote Operation Service Element (ROSE) except for actions on receiving invalid or unrecognised APDUs;
- Testing of Originating and Incoming Gateway PINXs for Call Related procedures and Call Independent Signalling Connections;
- Source PINX requirements for APDUs and Notifications, (i.e. no TPs have been derived from ETS 300 239 [1], subclauses 7.1.2.1, 7.3.2.1, 7.3.3.4, 7.4.3.1).
  - NOTE 1: Originating, Incoming Gateway and Source PINX and valid behaviour of ROSE are excluded because they are impractical to test without the use of a particular supplementary service. However, although it is outside the scope of this ETS, some TPs within this ETS may be applicable to Originating or Incoming Gateway PINX in addition to roles covered by the scope.
  - NOTE 2: Although there are no test purposes testing source PINX requirements, some test purposes test the behaviour where the IUT acts as a source PINX, for example where a PINX is acting as a source PINX to send a Reject APDU.
  - NOTE 3: This ETS does not contain any test purposes specifically for Outgoing Gateway PINXs, however the test purposes for Terminating PINXs are generally also applicable to Outgoing Gateway PINXs.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646 [5]) is used as basis for the test methodology.

This TSS and TP specification standard is applicable for the support of supplementary services at the Q-reference point between Private Integrated Services Network Exchanges (PINXs) connected together within a PISN. The Q reference point is defined in ISO/IEC 11579-1 [6].

# 2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited in the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments or revisions to 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 300 239 (1995): "Private Integrated Services Network (PISN); Interexchange signalling protocol; Generic functional protocol for the support of supplementary services". [ISO/IEC 11582 modified].

[5]

[7]

Draft prETS 300 806-1: July 1996

[2]	ETS 300 172 (1995): "Private Integrated Services Network (PISN); Inter- exchange signalling protocol; Circuit-mode basic services". [ISO/IEC 11572 modified].
[3]	ETS 300 406 (1995): "Methods for testing and specification (MTS); Protocol and profile conformance testing specifications; Standardization Methodology".

ISO/IEC 9646: "Information technology; Open Systems Interconnection;

Conformance testing methodology and framework".

[6] ETS 300 475-1 (1995): "Private Integrated Services Network (PISN); Reference configuration Part1: Reference configuration for PISN eXchanges (PINXs)".

CCITT Recommendation I 112 (1988): "Vocabulary of terms for ISDNs".

[8] CCITT Recommendation X 219 (1988): "Remote operations: Model, Notation

and Service definition".

[9] CCITT Recommendation X.229 (1988): "Remote Operations: Protocol

specification".

[10] ISO 7498: "Information Processing Systems - Open Systems Interconnection -

Basic Reference model".

[11] ISO/IEC 11582 (1995): "Information technology - telecommunications and

information exchange between systems - Private Integrated Services Network - Generic functional protocol for the support of supplementary services - Inter-

exchange signalling procedures and protocol".

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of this ETS, the terminology defined in ETS 300 415 [4] and I.112 [7] applies. If there is any conflict the definitions in ETS 300 415 shall take precedence. The following definitions also apply:

**super test purpose**: A general test purpose from which one or more test purposes may be derived. These derived test purposes may be more detailed than the Super Test Purpose.

**individual test purpose:** A test purpose focusing on a single conformance requirement, produced before any combining of test purposes.

combined test purpose: A test purpose produced by combining two or more individual test purposes.

**uncombined test purpose**: An individual test purpose which is not combined into any Combined Test Purpose.

NOTE: These terms are not defined in ISO/IEC9646 [5] but correspond to items referred to in

ISO/IEC9646-2 subclause 10.3. The "more specific test objectives" referred to in subclause 10.3.1 are here referred to as Super Test Purposes. The terms Individual Test Purpose and Combined Test Purpose have the same meanings here as in

subclause 10.3.3.

Implementation Under Test (IUT): See ISO/IEC 9646-1 [5].

Abstract Test Suite (ATS): See ISO/IEC 9646-1 [5].

Protocol Implementation Conformance Statement (PICS): See ISO/IEC 9646-1 [5].

PICS proforma: See ISO/IEC 9646-1 [5].

Protocol Implementation Extra Information For Testing (PIXIT): See ISO/IEC 9646-1 [5].

PIXIT proforma: See ISO/IEC 9646-1 [5].

originating PINX: See ETS 300 239 [1].

terminating PINX: See ETS 300 239 [1].

transit PINX: See ETS 300 239 [1].

#### 3.2 Abbreviations

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

APDU Application Protocol Data Unit

ATS Abstract Test Suite

CISC Call Independent signalling connection

CF Co-ordination function
CTP Combined Test Purpose
GFT Generic Functional Transport

GFTC Generic Functional Transport Control

IE Information Element

ISO International Organisation for Standardisationf

IUT Implementation under test

ETS European Telecommunication Standard

NFE Network Facility Extension

PC Protocol Control

PISN Private Integrated Services Network

PINX Private Integrated Services Network Exchange

ROSE Remote Operations Service Element SCM Signalling Carriage Mechanism

STP Super Test Purpose TP Test Purpose

TSS Test Suite Structure

# 4 Test Suite Structure (TSS)

Two separate Test Suite Structures (TSSs) have been designed, one to cover the individual TPs, and another one to cover the combined TPs (CTPs) and uncombined TPs.

# 4.1 TSS for individual TPs

Following the rules described in ETS 300 406 [3], subclause 7.4.1.1, the test suite for the individual TPs is structured as a tree with the following levels:

**1st level**: the name representing the base specification (ETS 300 239 [1]); Generic Functional Protocol (GFP)

2nd level: the entities of the base specification;

- Protocol Control (PC);
- Generic Functional Transport Control (GFTC);
- Coordination Function (CF).
- ROSE (RO)

3rd level: the type of signalling connection;

- Call Related procedures (CR);
- Call Independent procedures (CISC);
- Procedures (P).

4th level: the type of transport mechanism;

- Connection Oriented Transport of APDUs (COTA);
- Connection Oriented Transport of Notifications (COTN);
- ConnectionLess Transport of APDUs (CLTA);
- Transport of APDUs (TA).

#### **5th level**: the nature of the test:

- Basic Interconnection test (BI);
- CApability test (CA);
- Valid behaviour tests (BV);
- InValid behaviour tests (IV);
- InOpportune behaviour tests (IO);
- TImers (TI).
  - NOTE 1: All Basic Interconnection and Capability test purposes are also Valid Behaviour test purposes. Basic interconnection test purposes are also Capability test purposes.
  - NOTE 2: As the scope of this ETS does not cover the whole of ETS 300 239[1] certain groups in the TSS contain no test purposes.

Figure 1 shows the GFP Test Suite Structure overview. Not all the branches have been expanded to the final details.

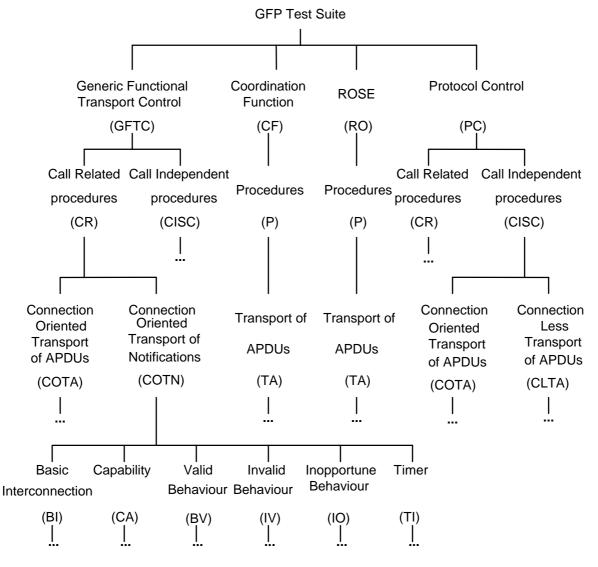


Figure 1: GFP TSS overview for Individual TPs

Figure 2 shows the details of the GFP TSS.

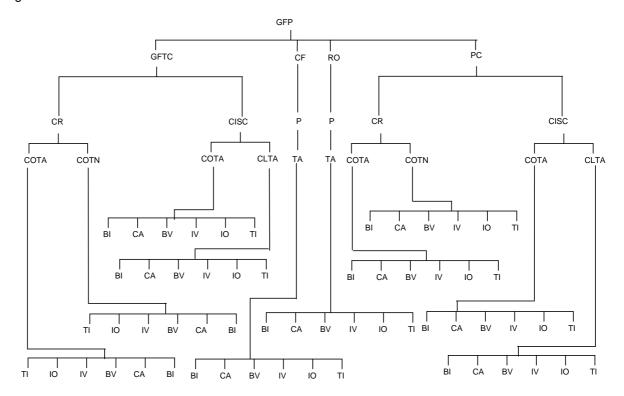


Figure 2: Detailed GFP TSS for Individual TPs

# 4.2 TSS for Combined TPs

Following the rules described in ETS 300 406 [3], subclause 7.4.1.1, the test suite for the combined TPs (CTPs) and TPs which remain uncombined is structured as a tree with the following levels:

**1st level**: the name representing the base specification (ETS 300 239 [1]); Generic Functional Protocol (GFP).

2nd level: the type of signalling connection;

- Call Related procedures (CR);
- Call Independent procedures (CISC).

3rd level: the type of transport mechanism;

- Connection Oriented Transport of APDUs (COTA);
- Connection Oriented Transport of Notifications (COTN);
- ConnectionLess Transport of APDUs (CLTA).

4th level: the nature of the test;

- Basic Interconnection test (BI);
- CApability test (CA);
- Valid behaviour tests (BV);
- InValid behaviour tests (IV);
- InOpportune behaviour tests (IO);
- TImers (TI);
- Mixed (MI) (This group contains CTPs combining Valid and Invalid behaviour).

NOTE: All Basic Interconnection and Capability test purposes are also Valid Behaviour test purposes.

Figure 3 shows the GFP Test Suite Structure overview. Not all the branches have been expanded to the final details.

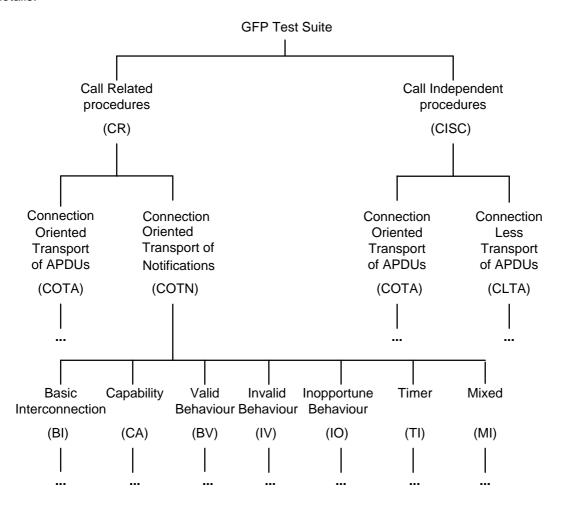


Figure 3: GFP TSS overview for Combined TPs

Figure 4 shows the details of the GFP TSS.

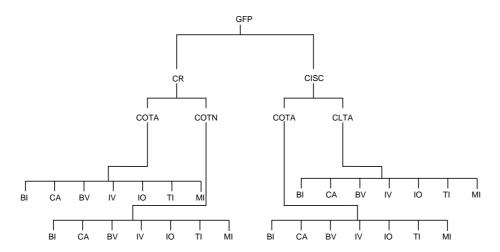


Figure 4: Detailed GFP TSS for Combined TPs

Draft prETS 300 806-1: July 1996

# 5 Test Purposes (TP)

# 5.1 Introduction to Test Purposes

# 5.1.1 Test purposes production method

The TPs production method consisted of reviewing the standard and specifying everything that should be tested, i.e. all the characteristics that could be determined from the standard, which an implementation is required to conform to, but excluding those that are more effectively tested by testing the individual supplementary services which used them.

This first phase led either to the production of "Super" Test Purposes (STPs), which are general TPs, reflecting more the functional aspects and the structure of the standard rather than the TSS itself (see clause 4), or directly to the production of individual TPs.

The second phase consisted of deriving from each STP several individual TPs. The criteria for deriving these individual TPs took into account the TSS, in order to ensure good coverage for testing. The objective was to derive individual TPs and distribute them over the complete TSS, taking into account all the testing aspects (valid behaviour, inopportune behaviour, timer, parameter variations, state event transition, etc.), while retaining all the requirements of the standard. In this way, one or more individual TPs may be derived from an STP.

Although an STP may generate a number of individual TPs, not all those possible are retained, as they may deal with a requirement which has already been covered by a previous individual TP. This ensures more efficient testing with good coverage, avoiding repeatedly testing the same aspect of the standard, probably leading to the same verdict each time.

Some individual TPs have been combined together in order to have a more complete test, generally where it is not possible to test particular test purposes in isolation. These are called Combined Test Purposes (CTPs). The final set of Test Purposes will be composed of both CTPs and uncombined individual TPs, and it is this final set of TPs which corresponds to test cases in the ATS.

# 5.1.2 STP identifier

The identifier for a super test purpose consists of the letters SP and a four digit number in the range 1001 to 1067, (e.g. SP1009).

# 5.1.3 Individual TP identifier

The identifier for an individual test purpose consists of the letters TP and a four digit number in the range 2001 to 2254, (e.g. TP2058). The identifier for an uncombined test purpose in the final set of test purposes is the corresponding individual test purpose identifier.

# 5.1.4 CTP identifier

The identifier for an combined test purpose consists of the letters CP and a four digit number in the range 3001 to 3073, (e.g. CP3025).

# 5.2 Test purpose writing rules

Writing rules have been defined in order to have consistency between all the TPs. However, in some cases, it is not possible to use them without losing the real objective of the test. Consequently, a small number of TPs may deviate from these rules in a minor way.

Draft prETS 300 806-1: July 1996

#### 5.2.1 **Protocol Control**

Table 1 gives the writing rules for test purposes with a goal, for protocol control requirements.

Table 1: Test Purpose writing rules with a goal for protocol control requirements

STRUCTURE	VALUES	
Ensure that the IUT		
in state <state> for a</state>	0,1, 2, 3, etc.	
<connection type="">,</connection>	call, CISC (call independent signalling connection), etc.	
<goal></goal>	in order to initiate/release a CISC, in order to indicate that the CISC is established, in order to send a Facility IE related to that call, when requested by GFT Control to send a Facility IE related to that call, etc.	
<conditions></conditions>	when a SCM connection does not already exist, when a/no XXX message is to be sent, etc.	
<action></action>	passes that IE to GFT-Control, establishes a SCM connection, sends, saves, does, etc.	
if the action is sending		
a <message type=""> message containing</message>	FACILITY, NOTIFY, etc.	
a) a <information element=""> IE including</information>	Facility, Notification Indicator, etc.	
a <component name=""> with a</component>	NFE, APDU, etc.	
b) <field name=""></field>	sourceEntity, destinationEntityAddress, etc.	
[encoded as <coding field="" of="" the=""></coding>	endPINX, anyTypeOfPINX, etc.	
or not included]		
and back to a) or b)		
[and remains in the same state		
or and enters state <state>].</state>	0, 1, 2, etc.	
NOTE: In this table normal text in the left hand column is included in the test purpose, text between < and > is replaced by a value (examples given in the right column). Text in bold is not included in the test purpose, [ and ] are used to delimit options, and a) and b) are labels.		

in the test purpose, [ and ] are used to delimit options, and **a)** and **b)** are labels

Table 2 gives the writing rules for test purposes with a trigger, for protocol control requirements.

Table 2: Test Purpose writing rules with a trigger for protocol control requirements

STRUCTURE	VALUES
Ensure that the IUT	
in state <state> for a</state>	0,1, 2, 3, etc.
<connection type="">,</connection>	call, CISC (call independent signalling connection), etc.
<trigger></trigger>	on receiving, on expiry of Txxx, etc.
<conditions></conditions>	after SCM failure, after having sent, etc.
if the trigger is receiving	
a <message type=""> message related to</message>	FACILITY, NOTIFY, etc.
<call type="">,containing</call>	the establishment of a CISC, that call, etc.
a) a <information element=""> IE including</information>	Facility, Notification Indicator, etc.
a <component name=""> with a</component>	NFE, APDU, etc.
b) <field name=""></field>	sourceEntity, destinationEntityAddress, etc.
[encoded as <coding field="" of="" the=""></coding>	endPINX, anyTypeOfPINX, etc.
or included]	
and back to a) or b)	
<action></action>	passes that IE to GFT-Control, establishes a SCM connection, behaves as though only the first had been received, does not take any action, sends, saves, ignores, etc.
if the action is sending	
a <message type=""> message containing</message>	FACILITY, NOTIFY, etc.
c) a <information element=""> IE including</information>	Facility, Notification Indicator, etc.
a <component name=""> with a</component>	NFE, APDU, etc.
d) <field name=""></field>	sourceEntity, destinationEntityAddress, etc.
[encoded as <coding field="" of="" the=""></coding>	endPINX, anyTypeOfPINX, etc.
or included]	
and back to c) or d)	
[and remains in the same state	
or and enters state <state>].</state>	0, 1, 2, etc

Draft prETS 300 806-1: July 1996

# **Generic Functional Transport Control**

Table 3 gives the writing rules for test purposes with a goal, for generic functional transport control requirements.

Table 3: Test Purpose writing rules with a goal for generic functional transport control requirements

STRUCTURE	VALUES	
Ensure that the IUT		
in the <state> state for a</state>	Incoming_connection_active, etc.	
<connection type="">,</connection>	call, CISC (call independent signalling connection), etc.	
<goal></goal>	in order to transmit APDUs, in order to release a CISC, etc.	
<action></action>	sends, saves, does, etc.	
if the action is sending		
a <message type=""> message containing</message>	FACILITY, NOTIFY, etc.	
a) a <information element=""> IE including</information>	Facility, Notification Indicator, etc.	
a <component name=""> with a</component>	NFE, APDU, etc.	
b) <field name=""></field>	sourceEntity, destinationEntityAddress, etc.	
[encoded as <coding field="" of="" the=""></coding>	endPINX, anyTypeOfPINX, etc.	
or not included]		
and back to a) or b)		
[and remains in the same state		
or and enters state <state>].</state>	0, 1, 2, etc.	
NOTE: In this table normal text in the left hand column is included in the test purpose, text between < and > is replaced by a value (examples given in the right column). Text in bold is not included in the test purpose, [ and ] are used to delimit options, and a) and b) are labels.		

Table 4 gives the writing rules for test purposes with a trigger, for generic functional transport control requirements.

Table 4: Test Purpose writing rules with a trigger for generic functional transport control requirements

STRUCTURE	VALUES		
Ensure that the IUT			
[as a <role> PINX</role>	End, Transit, etc.		
or in the <state> state]</state>	or Transit_connection_idle, Transit_connection_active, etc.		
for a <connection type="">,</connection>	call, CISC (call independent signalling connection), etc.		
<trigger></trigger>	on receiving, on expiry of Txxx, etc.		
if the trigger is receiving			
a <message type=""> message related to</message>	FACILITY, NOTIFY, etc.		
<call type="">,containing</call>	the establishment of a CISC, that call, etc.		
a) a <information element=""> IE including</information>	Facility, Notification Indicator, etc.		
a <component name=""> with a</component>	NFE, APDU, etc.		
b) <field name=""></field>	sourceEntity, destinationEntityAddress, etc.		
[encoded as <coding field="" of="" the=""></coding>	endPINX, anyTypeOfPINX, etc.		
or included]			
and back to a) or b)			
<action></action>	passes that IE to the Coordination Function, discards the Facility IE, becomes the Destination PINX for that IE, does not take any action, sends, saves, ignores, etc.		
if the action is sending			
a <message type=""> message containing</message>	FACILITY, NOTIFY, etc.		
c) a <information element=""> IE including</information>	Facility, Notification Indicator, etc.		
a <component name=""> with a</component>	NFE, APDU, etc.		
d) <field name=""></field>	sourceEntity, destinationEntityAddress, etc.		
[encoded as <coding field="" of="" the=""></coding>	endPINX, anyTypeOfPINX, etc.		
or included]			
and back to c) or d)			
[and remains in the same state			
or and enters state <state>].</state>	0, 1, 2, etc		

# 5.3 Test Purposes

- NOTE 1: Test cases are derived from the Combined and Uncombined test purposes specified in clause 6.
- NOTE 2: Where a test purpose specifies that the IUT enters or remains in a specified state, this is verified as specified in subclause 5.3.5.
- NOTE 3: A test case associated with a TP will be selected taking into account the particular features of the standard which have been implemented. These selection expressions are supplied in the relevant ATS specification.
- NOTE 4: Unless otherwise specified the IUT is in a state where it is valid for it to receive any message specified in a test case and all messages sent to the IUT are to be correctly coded.

# Draft prETS 300 806-1: July 1996

NOTE 5:

In each test purpose the term "IUT" refers to the particular entity within the SUT that is the focus of that test purpose (e.g. in the TPs from the PC group of the TSS, the IUT is the PC entity, whereas in the TPs from the GFTC group of the TSS, the IUT is the GFTC entity).

# 5.3.1 Call Related procedures for the transport of APDUs

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.

# 5.3.1.1 Protocol Control requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.1.

# 5.3.1.1.1 PC - Sending Facility IE

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.1.1.

#### PC/CR/COTA/BV/TP2209

Ensure that the IUT, when requested by GFT Control to send a Facility IE related to a call, either includes the Facility IE in one of the relevant messages which is to be sent, i.e. ALERTING, CONNECT, SETUP, PROGRESS, DISCONNECT, RELEASE or RELEASE COMPLETE, or sends a FACILITY message including the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

#### SP1002

Ensure that the IUT in a state other than 1 for a call, when requested by GFT Control to send a Facility IE related to that call, when no ALERTING, CONNECT, SETUP, DISCONNECT, PROGRESS, RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# PC/CR/COTA/BI/TP2007

- Ensure that the IUT in state 10 for a call, when requested by GFT Control to send a Facility IE related to that call, when no DISCONNECT, RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# PC/CR/COTA/IO/TP2008

- Ensure that the IUT in state 1 for a call, when requested by GFT Control to send a Facility IE related to that call, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

## PC/CR/COTA/IO/TP2210

- Ensure that the IUT in state 6 for a call, when requested by GFT Control to send a Facility IE related to that call, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# PC/CR/COTA/IO/TP2211

- Ensure that the IUT in state 19 for a call, when requested by GFT Control to send a Facility IE related to that call, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# PC/CR/COTA/IO/TP2009

- Ensure that the IUT in state 11 for a call, when requested by GFT Control to send a Facility IE with network significance related to that call, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# PC/CR/COTA/IO/TP2010

- Ensure that the IUT in state 19 for a call, when requested by GFT Control to send a Facility IE with network significance related to that call, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

Draft prETS 300 806-1: July 1996

# 5.3.1.1.2 PC - Receiving Facility IE

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.1.2.

#### SP1003

- Ensure that the IUT, on receiving an ALERTING, CONNECT, SETUP, DISCONNECT, PROGRESS, RELEASE or RELEASE COMPLETE message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### PC/CR/COTA/BV/TP2011

- Ensure that the IUT, on receiving an ALERTING message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# PC/CR/COTA/BV/TP2012

- Ensure that the IUT, on receiving a CONNECT message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# PC/CR/COTA/BV/TP2013

- Ensure that the IUT, on receiving a SETUP message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### PC/CR/COTA/BV/TP2014

- Ensure that the IUT, on receiving a DISCONNECT message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# PC/CR/COTA/BV/TP2015

- Ensure that the IUT, on receiving a PROGRESS message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

## PC/CR/COTA/BV/TP2016

- Ensure that the IUT, on receiving a RELEASE message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

## PC/CR/COTA/BV/TP2017

- Ensure that the IUT, on receiving a RELEASE COMPLETE message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# PC/CR/COTA/BI/TP2018

- Ensure that the IUT on receiving a FACILITY message, related to a call, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# 5.3.1.1.3 PC - Protocol error handling

The TPs in this subclause refer to ETS 300 239 [1] clause 11 and ETS 300 172 [2], subclause 7.3.

## SP1004

Ensure that the IUT, on receiving a FACILITY message, related to a call, and containing a Facility IE encoded with a content error, sends a STATUS message containing a Cause IE with a Cause value encoded as 100. (reference ETS 300 239 [1], subclause 10.7 and 11.3.3 and ETS 300 172 [2], subclause 7.3.6.2).

## PC/CR/COTA/IV/TP2019

- Ensure that the IUT, on receiving a FACILITY message, related to a call, and containing a Facility IE with a length of 2 octets, sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclause 10.7 and 11.3.3 and ETS 300 172 [2], subclause 7.3.6.2).

# PC/CR/COTA/IV/TP2020

- Ensure that the IUT, on receiving a FACILITY message, related to a call, and containing a Facility IE with an extension bit in octet 3 encoded as 0, sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclause 10.7 and 11.3.3 and ETS 300 172 [2], subclause 7.3.6.2).

#### SP1005

- Ensure that the IUT, on receiving an ALERTING, CONNECT, SETUP, DISCONNECT, PROGRESS, RELEASE or RELEASE COMPLETE message, related to a call, and containing a Facility IE encoded with a content error, ignores the Facility IE and optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100 and enters the appropriate state according to the Basic Call message received (reference ETS 300 239 [1], subclause 11.3.3 and ETS 300 172 [2], subclause 7.3.7.2).

#### PC/CR/COTA/IV/TP2021

- Ensure that the IUT in state 3 for a call, on receiving an ALERTING message containing a Facility IE with a length of 2 octets, ignores the Facility IE and optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100 and enters state 4 (reference ETS 300 239 [1], subclause 11.3.3 and ETS 300 172 [2], subclause 7.3.7.2).

# PC/CR/COTA/IV/TP2022

- Ensure that the IUT in state 10 for a call, on receiving a PROGRESS message containing a Facility IE with an extension bit in octet 3 encoded as 0, ignores the Facility IE and optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclause 11.3.3 and ETS 300 172 [2], subclause 7.3.7.2).

# PC/CR/COTA/IV/TP2023

- Ensure that the IUT, on receiving a FACILITY message, related to a call, and not containing a Facility IE, sends a STATUS message containing a Cause IE with a Cause value encoded as 96 (reference ETS 300 239 [1], subclause 10.7 and ETS 300 172 [2], subclause 7.3.6.1)

# 5.3.1.2 Generic Functional Transport Control requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.2.

#### 5.3.1.2.1 GFTC - Actions at a Receiving PINX

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.2.2.

# GFTC/CR/COTA/BI/TP2024

- Ensure that the IUT, on receiving via PC a Facility IE not including an NFE, becomes the Destination PINX for that IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2).

#### 5.3.1.2.1.1 GFTC - End PINX actions

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.2.2.1.

# SP1006

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" or "anyTypeOfPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

## GFTC/CR/COTA/BV/TP2025

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFTC/CR/COTA/CA/TP2026

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

Draft prETS 300 806-1: July 1996

#### GFTC/CR/COTA/BV/TP2027

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### SP1007

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### GFTC/CR/COTA/BV/TP2028

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFTC/CR/COTA/BV/TP2029

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### GFTC/CR/COTA/IV/TP2030

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, discards the Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### GFTC/CR/COTA/IV/TP2031

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with coding or structure not as specified in clause 11 of ETS 300 239 [1], discards the entire Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFTC/CR/COTA/BV/TP2032

- Ensure that the IUT as an End PINX, on receiving via PC two facility IEs from the same message, the first Facility IE including an NFE encoded as follows:

destinationEntity: "endPINX" destinationEntityAddress: (omitted)

and the second Facility IE including an NFÉ encoded as follows:

detinationEntity: "anyTypeOfPINX"

destinationEntityAddress: (not matching the address of the IUT)

becomes the Destination PINX for the first Facility IE and passes it to the Coordination Function, and discards the second Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### 5.3.1.2.1.2 GFTC - Transit PINX actions

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.2.2.2.

# GFTC/CR/COTA/BV/TP2033

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### GFTC/CR/COTA/BV/TP2034

Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and understanding the contents of this IE, either becomes the Destination PINX for that Facility IE and passes it to the Coordination Function, or passes that Facility IE unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### SP1008

- Ensure that the IUT as a Transit PINX for a call, on receiving a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element, and unable to become an End PINX for that Facility IE, passes it unchanged to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

## GFTC/CR/COTA/BV/TP2035

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFTC/CR/COTA/CA/TP2036

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### GFTC/CR/COTA/BV/TP2037

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFTC/CR/COTA/BV/TP2038

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFTC/CR/COTA/BV/TP2039

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### GFTC/CR/COTA/BV/TP2040

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

NOTE: The coverage of the possible combinations of NFE codings by the above test purposes is shown in table 5.

Draft prETS 300 806-1: July 1996

Table 5: possible combinations of NFE codings

destination Entity	destination Entity	Capable (note 3)	Action (note 4)	TP (note 5)	
element	Address				
(note 1)	element				
	(note 2)				
end	match	no	Р	2035	
end	no match	no	Р	2036	
end	-	no	Р	2037	
any	match	yes	D	2033	
any	no match	yes	Р	2038	
any	-	yes	D or P	2034	
any	match	no	D	2033	
any	no match	no	Р	2039	
any	-	no	Р	2040	
NOTE 1 The destinationEntity element of the NFE indicates "endPINX" (end) or "anyTypeOfPINX" (any).					
NOTE 2 The destinationEntityAddress element of the NFE matches the IUT's address (match) or does not match					
	the IUT's address (not match).				
	Facility IE.				
	The IUT becomes a Destination PINX for that Facility IE				
(D), or passes this Facility unchanged to the next PINX					
l)	⊃).	-	-		
	The Test Purpose dealing with the corresponding				
s	situation has the number identified in this column (e.g.				
T	TP2035, TP2036, TP2037, etc.).				

## GFTC/CR/COTA/IV/TP2041

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE which includes an NFE not encoded or structured according to clause 11, discards the entire Facility IE, without passing it on via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### 5.3.1.2.2 GFTC - Actions at a Destination PINX

The TP in this subclause references ETS 300 239 [1], subclause 7.1.2.3

# SP1058

- Ensure that the IUT, on receiving via PC a Facility IE related to a call, with a Protocol Profile encoded with another value than "Networking Extensions", passes the APDUs to CF together with an indication of the protocol profile reflecting the contents of the Protocole Profile (reference ETS 300 239 [1], subclause 7.1.2.3).

#### GFTC/CR/COTA/IV/TP2042

- Ensure that the IUT, on receiving via PC a Facility IE, related to a call, with a Protocol Profile encoded as 00000, passes the APDUs to CF together with an indication of the protocol profile reflecting the contents of the Protocole Profile (reference ETS 300 239 [1], subclause 7.1.2.3).

# GFTC/CR/COTA/IV/TP2212

- Ensure that the IUT, on receiving via PC a Facility IE, related to a call, with a Network Protocol Profile incorrectly coded (i.e. other than "ACSE" or "DSE"), discards this Facility IE (reference ETS 300 239 [1], subclause 7.1.2.3).

# GFTC/CR/COTA/IV/TP2213

- Ensure that the IUT, on receiving via PC a Facility IE, related to a call, with octets 4 onwards not containing an APDU in the form of an ASN1 encoded value, discards this Facility IE (reference ETS 300 239 [1], subclause 7.1.2.3).

# 5.3.1.3 Relaying requirements

#### PC/CR/COTA/BV/TP1068

- Ensure that the IUT as a Transit PINX, in state TCC\_Idle, on receiving a SETUP message on interface X, containing a Facility IE which is to be relayed, sends a SETUP message on interface Y containing this Facility IE.

#### PC/CR/COTA/BV/TP1069

- Ensure that the IUT as a Transit PINX, in state TCC\_Transit\_Call\_Proceeding, on receiving an ALERTING message on interface Y, containing a Facility IE which is to be relayed, sends an ALERTING message on interface X containing this Facility IE.

#### PC/CR/COTA/BV/TP1070

- Ensure that the IUT as a Transit PINX, in state TCC\_Call\_Alerting, on receiving a CONNECT message on interface Y, containing a Facility IE which is to be relayed, sends a CONNECT message on interface X containing this Facility IE.

# PC/CR/COTA/BV/TP1071

- Ensure that the IUT as a Transit PINX, in state TCC\_Transit\_Call\_Proceeding, on receiving a PROGRESS message on interface Y, containing a Facility IE which is to be relayed, sends a PROGRESS message on interface X containing this Facility IE.

#### PC/CR/COTA/BV/TP1072

- Ensure that the IUT as a Transit PINX, in state TCC\_Call\_Active, on receiving a DISCONNECT message on interface X, containing a Facility IE which is to be relayed, sends a DISCONNECT message on interface Y containing this Facility IE.

# PC/CR/COTA/BV/TP1073

Ensure that the IUT as a Transit PINX, in state TCC\_Call\_Active, on receiving a RELEASE
message on interface Y, containing a Facility IE which is to be relayed, sends a DISCONNECT
message on interface X containing this Facility IE.

# PC/CR/COTA/BV/TP1074

- Ensure that the IUT as a Transit PINX, in state TCC\_Call\_Active, on receiving a RELEASE COMPLETE message on interface X, containing a Facility IE which is to be relayed, sends a DISCONNECT message on interface Y containing this Facility IE.

# 5.3.2 Connection Oriented Call Independent APDU transport mechanism

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.

# 5.3.2.1 Protocol Control requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.

# 5.3.2.1.1 PC - Actions in the Null state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.1.

# PC/CISC/COTA/BV/TP2043

Ensure that the IUT in state 0, when requested by GFT Control to initiate a CISC when a SCM connection does not already exist, establishes a SCM connection (reference ETS 300 239 [1], subclause 7.3.1.1).

# PC/CISC/COTA/BI/TP2044

- Ensure that the IUT in state 0, when requested by GFT Control to initiate a CISC, sends a SETUP message containing:
  - a Call Reference IE according to 14.3 of ETS 300 172,
  - optionally a Sending Complete IE,
  - a Bearer Capability IE with Coding Standard field encoded as "Other international standard", Information Transfer Capability field encoded as "Unrestricted digital information", Transfer Mode field encoded as "Circuit mode" and Information Transfer Rate field encoded as "CISC",

Draft prETS 300 806-1: July 1996

- a Channel Identification IE with Channel Selection field encoded as "No channel", Signalling Channel Indication field encoded as "Channel indicated is the signalling channel", and Preferred/exclusive field encoded as "exclusive",
- a Called Party Number IE containing a number at least sufficient to identify a terminating PINX,
- optionally a Calling Party Number IE containing a number at least sufficient to identify the originating PINX,
- optionally one or more Facility IEs,
- optionally a Transit Counter IE,

and enters state 1 (reference ETS 300 239 [1], subclause 7.3.1.1).

#### PC/CISC/COTA/BV/TP2045

 Ensure that the IUT in state 0, on receiving of a SETUP message related to the establishment of a CISC, sends a CALL PROCEEDING message and enters state 9 (reference ETS 300 239 [1], subclause 7.3.1.1).

# 5.3.2.1.2 PC - Actions in the Call Initiated state

The TPs in this subclause refer to ETS 300 239 [1], subclauses 7.3.1.1 and 7.3.1.2.

#### PC/CISC/COTA/BV/TP2046

- Ensure that the IUT, in state 1 for a CISC, on receiving a CALL PROCEEDING message, enters state 3 (reference ETS 300 239 [1], subclause 7.3.1.1).

#### PC/CISC/COTA/BV/TP2047

 Ensure that the IUT, in state 1 for a CISC, on first expiry of T303, either re-transmits the SETUP message or sends a RELEASE COMPLETE message (reference ETS 300 239 [1], subclause 7.3.1.2).

# PC/CISC/COTA/BV/TP2048

 Ensure that the IUT, in state 1 for a CISC, on second expiry of T303, sends a RELEASE COMPLETE message containing a Cause and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.2).

# 5.3.2.1.3 PC - Actions in the Incoming Call Proceeding state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.3.

# PC/CISC/COTA/BV/TP2049

- Ensure that the IUT in state 9 for a CISC, when requested by GFT Control to indicate that the CISC is established, sends a CONNECT message and enters state 8 or state 10 (reference ETS 300 239 [1], subclause 7.3.1.3).

# 5.3.2.1.4 PC - Actions in the Outgoing Call Proceeding state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.4.

## PC/CISC/COTA/BV/TP2050

- Ensure that the IUT in state 3 for a CISC, on receiving a CONNECT message, sends a CONNECT ACKNOWLEDGE message and enters state 10 (reference ETS 300 239 [1], subclause 7.3.1.4).

# PC/CISC/COTA/BV/TP2051

- Ensure that the IUT in state 3 for a CISC, on expiry of T310, sends a RELEASE message containing a Cause IE and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.4).

# 5.3.2.1.5 PC - Actions in the Connect Request state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.5.

# PC/CISC/COTA/BV/TP2052

- Ensure that the IUT in state 8 for a CISC, on receiving a CONNECT ACKNOWLEDGE message enters state 10 (reference ETS 300 239 [1], subclause 7.3.1.5).

# Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/BV/TP2053

- Ensure that the IUT in state 8 for a CISC, on expiry of T313, sends a RELEASE message containing a Cause IE and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.5).

#### 5.3.2.1.6 PC - Actions in the Active state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.6.

#### PC/CISC/COTA/BV/TP2055

Ensure that the IUT, in state 10 for a CISC, on receiving a CONNECT ACKNOWLEDGE message remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.6).

# 5.3.2.1.7 PC - Connection release

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.7.

## SP1009

Ensure that the IUT in all states other that 19 for a CISC, when requested by GFT Control to release the CISC, sends a RELEASE message containing a Cause IE with an appropriate Cause value and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.7).

#### PC/CISC/COTA/BV/TP2056

- Ensure that the IUT in state 1 for a CISC, when requested by GFT Control to release the CISC, sends a RELEASE message containing a Cause IE with an appropriate Cause value and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.7).

#### PC/CISC/COTA/BV/TP2057

- Ensure that the IUT in state 8 for a CISC, when requested by GFT Control to release the CISC, sends a RELEASE message containing a Cause IE with an appropriate Cause value and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.7).

# PC/CISC/COTA/BV/TP2058

Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to release the CISC, sends a RELEASE message containing a Cause IE with an appropriate Cause value and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.7).

# SP1010

Ensure that the IUT, in all states other than state 19 for a CISC, on receiving a RELEASE message, sends a RELEASE COMPLETE message and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

## PC/CISC/COTA/BV/TP2059

- Ensure that the IUT, in state 3 for a CISC, on receiving a RELEASE message, sends a RELEASE COMPLETE message and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

# PC/CISC/COTA/BV/TP2060

- Ensure that the IUT, in state 9 for a CISC, on receiving a RELEASE message, sends a RELEASE COMPLETE message and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

# PC/CISC/COTA/BV/TP2061

- Ensure that the IUT, in state 10 for a CISC, on receiving a RELEASE message, sends a RELEASE COMPLETE message and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

## SP1059

- Ensure that the IUT in all states other than state 19 for a CISC, on receiving a RELEASE COMPLETE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

# PC/CISC/COTA/BV/TP2062

- Ensure that the IUT in state 1 for a CISC, on receiving a RELEASE COMPLETE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/BV/TP2214

- Ensure that the IUT in state 3 for a CISC, on receiving a RELEASE COMPLETE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

# PC/CISC/COTA/BV/TP2215

- Ensure that the IUT in state 10 for a CISC, on receiving a RELEASE COMPLETE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.7).

## 5.3.2.1.8 PC - Actions in the Release Request state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.8.

# PC/CISC/COTA/BV/TP2063

- Ensure that the IUT in state 19 for a CISC, on receiving a RELEASE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.8).

# PC/CISC/COTA/BV/TP2064

- Ensure that the IUT in state 19 for a CISC, on receiving a RELEASE COMPLETE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.8).

#### PC/CISC/COTA/BV/TP2065

- Ensure that the IUT in state 19 for a CISC, on first expiry of T308, re-transmits the RELEASE message and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.8).

# PC/CISC/COTA/BV/TP2066

- Ensure that the IUT in state 19 for a CISC, on second expiry of T308, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.8).

# 5.3.2.1.9 PC - Transport of APDUs associated with a CISC

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.9.

# a) PC- CISC - Sending Facility IE

The TPs in this subclause refer to ETS 300 239 [1], subclauses 7.3.1.9 and 7.1.1.1.

# PC/CISC/COTA/BV/TP2216

 Ensure that the IUT, when requested by GFT Control to send a Facility IE related to a CISC, either includes the Facility IE in one of the relevant messages which is to be sent, i.e. CONNECT, SETUP, RELEASE or RELEASE COMPLETE, or sends a FACILITY message including the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

#### SP1012

- Ensure that the IUT, when requested by GFT Control to send a Facility IE related to a CISC in a state other than state 1, 6 or 19, when no CONNECT, SETUP, RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing that Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1, 7.3.1.6 and 7.3.1.9).

# PC/CISC/COTA/BV/TP2071

- Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to send a Facility IE when no RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1, 7.3.1.6 and 7.3.1.9).

# PC/CISC/COTA/IO/TP2072

- Ensure that the IUT in state 1 for a CISC, when requested by GFT Control to send a Facility IE, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

# Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/IO/TP2217

- Ensure that the IUT in state 6 for a CISC, when requested by GFT Control to send a Facility IE, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

# PC/CISC/COTA/IO/TP2073

- Ensure that the IUT in state 19 for a CISC, when requested by GFT Control to send a Facility IE, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

#### PC/CISC/COTA/IO/TP2218

- Ensure that the IUT in state 19 for a CISC, when requested by GFT Control to send a Facility IE with network significance, does not send a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

# b) PC - CISC - Receiving Facility IE

The TPs in this subclause refer to ETS 300 239 [1], subclauses 7.3.1.9 and 7.1.1.2.

#### SP1013

- Ensure that the IUT, on receiving a CONNECT, SETUP, RELEASE or RELEASE COMPLETE message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### PC/CISC/COTA/BV/TP2074

- Ensure that the IUT, on receiving a CONNECT message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# PC/CISC/COTA/BV/TP2075

- Ensure that the IUT, on receiving a SETUP message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# PC/CISC/COTA/BV/TP2076

- Ensure that the IUT, on receiving a RELEASE message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# PC/CISC/COTA/BV/TP2077

Ensure that the IUT, on receiving a RELEASE COMPLETE message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# PC/CISC/COTA/BV/TP2078

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# 5.3.2.1.10 PC - Protocol error handling

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.2.1.2.

# PC/CISC/COTA/IV/TP2079

Ensure that the IUT in state 0 for a CISC, on receiving a SETUP message containing a Call Reference IE with a Call Reference Flag encoded as 1, does not send any message in response to the incoming message and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 9.2.3.2).

# SP1014

- Ensure that the IUT in state 6, 8, 9, 10 or 19 for a CISC, on receiving a SETUP message containing a Call Reference IE with the Call Reference Value of the CISC, does not send any message in

Draft prETS 300 806-1: July 1996

response to the incoming message and remains in the same state for this call and (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 9.2.3.2).

# PC/CISC/COTA/IO/TP2080

- Ensure that the IUT in state 9 for a CISC, on receiving a SETUP message containing a Call Reference IE with the Call Reference Value of the CISC in progress, does not send any message in response to the incoming message and remains in the same state for the CISC. (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.3.2).

#### PC/CISC/COTA/IO/TP2081

- Ensure that the IUT in state 10 for a CISC, on receiving a SETUP message containing a Call Reference IE with the Call Reference Value of the CISC, does not send any message in response to the incoming message and remains in the same state for the CISC (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.3.2).

#### SP1015

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, on receiving a message containing a Message Type IE other than one of those specified in ETS 300 172 [2] and ETS 300 239 [1], either sends a STATUS message containing a Cause IE with a Cause Value encoded as 97 or 98, or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

# PC/CISC/COTA/IV/TP2082

- Ensure that the IUT in state 3 for a CISC, on receiving a message containing a Message Type IE other than one of those specified in ETS 300 172 [2] or ETS 300 239 [1], either sends a STATUS message containing a Cause IE with a Cause Value encoded as 97 or 98, or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

#### SP1016

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, on receiving a message other than RELEASE, RELEASE COMPLETE or SETUP which is not expected in that state, either sends a STATUS message containing a Cause IE with a Cause Value encoded as 98 or 101, or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

# PC/CISC/COTA/IO/TP2083

- Ensure that the IUT in state 8 for a CISC, on receiving a CALL PROCEEDING message which is not expected in that state, either sends a STATUS message containing a Cause IE with a Cause Value encoded as 98 or 101, or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

# SP1017

- Ensure that the IUT in state 3, 8, 9 or 10 for a CISC, on receiving a RELEASE COMPLETE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

#### PC/CISC/COTA/IO/TP2084

- Ensure that the IUT in state 10 for a CISC, on receiving a RELEASE COMPLETE message, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

# SP1018

Ensure that the IUT, on receiving a message related to a CISC, and containing two or more instances of an IE for which repetition is not permitted, behaves as though only the first had been received (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.5.1).

#### PC/CISC/COTA/IV/TP2085

- Ensure that the IUT, on receiving a SETUP message related to a CISC, and containing two Calling Party Number IEs, behaves as though only the first had been received (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.5.1).

#### SP1019

- Ensure that the IUT in state 0, on receiving a SETUP message related to a CISC, and containing a mandatory IE with a length greater than the permitted maximum, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 100 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.5.2 and 7.3.6.2).

# PC/CISC/COTA/IV/TP2086

- Ensure that the IUT in state 0, on receiving a SETUP message related to a CISC, and containing a Bearer Capability IE with a length of 12, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 100 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.5.2 and 7.3.6.2).

#### SP1020

- Ensure that the IUT in state 1 for a CISC, on receiving a RELEASE message containing a Cause IE exceeding the maximum permitted length, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 100 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.5.2 and 7.3.6.2).

#### PC/CISC/COTA/IV/TP2087

- Ensure that the IUT in state 1 for a CISC, on receiving a RELEASE message containing a Cause IE with length 33 octets, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 100 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.5.2 and 7.3.6.2).

#### SP1021

- Ensure that the IUT, in state 1 for a CISC, on receiving a RELEASE COMPLETE message containing a Cause IE exceeding the maximum length, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.5.2 and 7.3.6.2).

#### PC/CISC/COTA/IV/TP2088

- Ensure that the IUT, in state 1 for a CISC, on receiving a RELEASE COMPLETE message containing a Cause IE with length 33 octets, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.5.2 and 7.3.6.2).

# SP1022

- Ensure that the IUT in any state for a CISC, on receiving a message other than SETUP, RELEASE or RELEASE COMPLETE with one or more mandatory IEs missing, sends a STATUS message containing a Cause IE with a Cause Value encoded as 96 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

# PC/CISC/COTA/IV/TP2089

Ensure that the IUT in state 10 for a CISC, on receiving a FACILITY message not containing a Facility IE, sends a STATUS message containing a Cause IE with a Cause Value encoded as 96 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

## SP1023

Ensure that the IUT in state 0, on receiving a SETUP message related to a CISC, and containing one or more mandatory IEs missing, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96, and remains in state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

# PC/CISC/COTA/IV/TP2090

- Ensure that the IUT in state 0, on receiving a SETUP message related to a CISC, and not containing a Called Party Number IE, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96, and returns to state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

## SP1024

- Ensure that the IUT in state 3, 8, 9 or 10 for a CISC, on receiving a RELEASE message containing one or more mandatory IEs missing, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96 and enters state 0.(reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1)

Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/IV/TP2091

- Ensure that the IUT in state 10 for a CISC, on receiving a RELEASE message as the first clearing message not containing a Cause IE, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

#### SP1025

- Ensure that the IUT in state 3, 8, 9 or 10 for a CISC, on receiving a RELEASE COMPLETE message as the first clearing message containing one or more mandatory IEs missing, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

## PC/CISC/COTA/IV/TP2092

- Ensure that the IUT in state 3 for a CISC, on receiving a RELEASE COMPLETE message as the first clearing message not containing a Cause IE, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

# PC/CISC/COTA/IV/TP2093

- Ensure that the IUT in state 8 for a CISC, on receiving a RELEASE COMPLETE message as the first clearing message not containing a Cause IE, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.1).

#### SP1026

- Ensure that the IUT, on receiving a message related to a CISC other than SETUP, RELEASE or RELEASE COMPLETE, and containing a mandatory IE encoded with a content error, sends a STATUS message containing a Cause IE with a Cause Value encoded as 100 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.2).

#### PC/CISC/COTA/IV/TP2094

- Ensure that the IUT in state 10 for a CISC, on receiving a FACILITY message containing a Facility IE encoded with a length of 2 octets, sends a STATUS message containing a Cause IE with a Cause Value encoded as 100 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.2).

# SP1027

- Ensure that the IUT in state 0 for a CISC, on receiving a SETUP message containing a mandatory IE encoded with a content error, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 100 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.2).

# PC/CISC/COTA/IV/TP2095

- Ensure that the IUT in state 0 for a CISC, on receiving a SETUP message containing a Channel Identification IE encoded with a content error, sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 100 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.2).

# PC/CISC/COTA/IV/TP2096

- Ensure that the IUT in state 1 for a CISC, on receiving a RELEASE message containing a Cause IE encoded with a content error, sends a RELEASE COMPLETE message containing a Cause IE encoded as 100 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.2).

# PC/CISC/COTA/IV/TP2097

- Ensure that the IUT in state 1 for a CISC, on receiving a RELEASE COMPLETE message containing a Cause IE encoded with a content error, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.6.2).

# SP1028

- Ensure that the IUT in any state for a CISC, on receiving a message other than SETUP, RELEASE or RELEASE COMPLETE with one or more IEs which are unrecognised and encoded as "comprehension required", sends a STATUS message containing a Cause IE with a Cause Value encoded as 96 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

# Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/IV/TP2098

- Ensure that the IUT in state 1 for a CISC, on receiving a CALL PROCEEDING message containing an unrecognised IE encoded as "comprehension required", sends a STATUS message containing a Cause IE with a Cause Value encoded as 96 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

#### PC/CISC/COTA/IV/TP2099

- Ensure that the IUT in state 8 for a CISC, on receiving a CONNECT ACK message containing an unrecognised IE encoded as "comprehension required", sends a STATUS message containing a Cause IE with a Cause Value encoded as 96 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

#### SP1029

Ensure that the IUT in state 0 for a CISC, on receiving a SETUP message containing one or more IEs which are unrecognised and encoded as "comprehension required", sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96, and returns to state 0.(reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1)

# PC/CISC/COTA/IV/TP2100

- Ensure that the IUT in state 0 for a CISC, on receiving a SETUP message containing an unrecognised IE encoded as "comprehension required", sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96, and returns to state 0 (reference ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

#### SP1030

- Ensure that the IUT in state 3, 8, 9 or 10 for a CISC, on receiving a RELEASE message containing one or more IEs which are unrecognised and encoded as "comprehension required", sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

# PC/CISC/COTA/IV/TP2101

- Ensure that the IUT in state 3 for a CISC, on receiving a RELEASE message containing an unrecognised IE encoded as "comprehension required", sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

## PC/CISC/COTA/IV/TP2102

- Ensure that the IUT in state 8 for a CISC, on receiving a RELEASE message containing an unrecognised IE encoded as "comprehension required", sends a RELEASE COMPLETE message containing a Cause IE with a Cause Value encoded as 96 and enters state 0 (reference ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

#### SP1031

- Ensure that the IUT in state 3, 8, 9 or 10 for a CISC, on receiving a RELEASE COMPLETE message containing one or more IEs which are unrecognised and encoded as "comprehension required", enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

# PC/CISC/COTA/IV/TP2103

- Ensure that the IUT in state 10 for a CISC, on receiving a RELEASE COMPLETE message containing an unrecognised IE encoded as "comprehension required", enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1 and 7.3.6.1).

Draft prETS 300 806-1: July 1996

#### SP1032

- Ensure that the IUT in state 3, 8, 9 or 10 for a CISC, on receiving a RELEASE message containing one or more IEs which are unrecognised and encoded as "comprehension not required", sends a RELEASE COMPLETE message containing a Cause IE with a cause value encoded as 99 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.3.7.1).

#### PC/CISC/COTA/IV/TP2104

- Ensure that the IUT in state 3 for a CISC, on receiving a RELEASE message containing an unrecognised IE encoded as "comprehension not required", sends a RELEASE COMPLETE message containing a Cause IE with Cause Value encoded as 99 and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.7.1).

# SP1033

- Ensure that the IUT in state 3, 8, 9 or 10 for a CISC, on receiving a RELEASE COMPLETE message containing one or more IEs which are unrecognised and encoded as "comprehension not required", enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [21], subclause 7.3.7.1).

#### PC/CISC/COTA/IV/TP2105

- Ensure that the IUT in state 8 for a CISC, on receiving a RELEASE COMPLETE message containing an unrecognised IE encoded as "comprehension not required", enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.7.1).

#### SP1034

Ensure that the IUT in any state for a CISC, on receiving a message other than RELEASE or RELEASE COMPLETE with one or more IEs which are unrecognised and encoded as "comprehension not required", optionally sends a STATUS message containing a Cause IE with a Cause Value encoded as 99 and performs whatever action required according to the received message (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.7.1).

## PC/CISC/COTA/IV/TP2106

- Ensure that the IUT in state 1 for a CISC, on receiving a CALL PROCEEDING message containing an unrecognised IE encoded as "comprehension not required", enters state 3 and optionally sends a STATUS message containing a Cause IE with a Cause Value encoded as 99 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.7.1).

## SP1035

- Ensure that the IUT in any state for a CISC, on receiving a message other than RELEASE or RELEASE COMPLETE with one or more non-mandatory IEs with invalid contents, optionally sends a STATUS message containing a Cause IE with a Cause Value encoded as 100 and performs whatever action required according to the received message, ignoring the invalid IE (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.7.2).

# PC/CISC/COTA/IV/TP2107

- Ensure that the IUT in state 0 for a CISC, on receiving a SETUP message containing a Calling Party Number IE with invalid content, sends a CALL PROCEEDINGmessage, ignoring the invalid IE, and optionally sends a STATUS message containing a Cause IE with a Cause Value encoded as 100 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.7.2).

#### SP1036

- Ensure that the IUT in state 1, 3, 8, 9, or 10 for a CISC, on receiving a DL\_ESTABLISH\_CONFIRMATION primitive from layer 2 following SCM Failure, either sends a STATUS message containing a Cause IE, or sends a STATUS ENQUIRY (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.9).

#### PC/CISC/COTA/IO/TP2108

- Ensure that the IUT in state 3 for a CISC, on receiving a DL\_ESTABLISH\_CONFIRMATION primitive from layer 2 following SCM Failure, either sends a STATUS message containing a Cause IE, or sends a STATUS ENQUIRY message (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.9).

#### PC/CISC/COTA/IO/TP2109

- Ensure that the IUT in state 8 for a CISC, on receiving a DL\_ESTABLISH\_CONFIRMATION primitive from layer 2 following SCM Failure, either sends a STATUS message containing a Cause IE or sends a STATUS ENQUIRY message (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.9).

#### PC/CISC/COTA/IO/TP2110

Ensure that the IUT in state 10 for a CISC, on receiving a DL\_ESTABLISH\_CONFIRMATION primitive from layer 2 following SCM Failure, either sends a STATUS message containing a Cause IE, or sends a STATUS ENQUIRY message or enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.9).

#### SP1037

- Ensure that the IUT in states 1, 3, 8, 9, 10 or 19 for a CISC, on receiving a SETUP ACKNOWLEDGE, ALERTING, DISCONNECT or PROGRESS message, either sends a STATUS message containing a Cause IE with a Cause value encoded as 97 or 98 or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

#### PC/CISC/COTA/IO/TP2111

- Ensure that the IUT in state 1 for a CISC, on receiving a SETUP ACKNOWLEDGE message, either sends a STATUS message containing a Cause IE with a Cause value encoded as 97 or 98 or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

# PC/CISC/COTA/IO/TP2112

- Ensure that the IUT in state 3 for a CISC, on receiving an ALERTING message, either sends a STATUS message containing a Cause IE with a Cause value encoded as 97 or 98 or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

## PC/CISC/COTA/IO/TP2113

- Ensure that the IUT in state 10 for a CISC, on receiving a DISCONNECT message, either sends a STATUS message containing a Cause IE with a Cause value encoded as 97 or 98 or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

# PC/CISC/COTA/IO/TP2114

- Ensure that the IUT in state 10 for a CISC, on receiving a PROGRESS message, either sends a STATUS message containing a Cause IE with a Cause value encoded as 97 or 98 or sends a STATUS ENQUIRY message, and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.3.4).

#### SP1038

- Ensure that the IUT in state 19 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as other than 0 remains in the same state (reference ETS 300 172 [2], subclause 7.4.2.1).

# PC/CISC/COTA/BV/TP2115

- Ensure that the IUT in state 19 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 3, remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.1).

# SP1039

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 0, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.1).

# PC/CISC/COTA/BV/TP2116

- Ensure that the IUT in state 1 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 0, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.1).

Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/BV/TP2117

- Ensure that the IUT in state 9 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 0, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.1).

## PC/CISC/COTA/BV/TP2118

- Ensure the IUT in state 10 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 0, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.1).

## PC/CISC/COTA/BV/TP2119

- Ensure that the IUT in state 19 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 0, enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.1).

# SP1040

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as a compatible state and containing a Cause IE with a Cause Value encoded as other than 96 or 97 or 99 or 100, remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.2).

# PC/CISC/COTA/BV/TP2120

- Ensure that the IUT in state 3 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 9 and containing a Cause IE with a Cause Value encoded as other than 96 or 97 or 99 or 100, remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.2).

#### PC/CISC/COTA/BV/TP2121

- Ensure that the IUT in state 8 for a CISC, on receiving a STATUS message containing a Call State IE with a Call State Value encoded as 10 and containing a Cause IE with a Cause Value encoded as other than 96 or 97 or 99 or 100, remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.2.2).

# SP1041

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, on receiving a STATUS ENQUIRY message, sends a STATUS message containing a Call State IE with a Call State Value encoded as the current state of the IUT and a Cause IE with a Cause Value encoded as 30 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

# PC/CISC/COTA/BV/TP2122

- Ensure that the IUT in state 3 for a CISC, on receiving a STATUS ENQUIRY message, sends a STATUS message containing a Call State IE with a Call State Value encoded as state 3 and a Cause IE with a Cause Value encoded as 30 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

# PC/CISC/COTA/BV/TP2123

- Ensure that the IUT in state 8 for a CISC, on receiving a STATUS ENQUIRY message, sends a STATUS message containing a Call State IE with a Call State Value encoded as state 8 and a Cause IE with a Cause Value encoded as 30 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

# PC/CISC/COTA/BV/TP2124

- Ensure that the IUT in state 9 for a CISC, on receiving a STATUS ENQUIRY message, sends a STATUS message containing a Call State IE with a Call State Value encoded as state 9 and a Cause IE with a Cause Value encoded as 30 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

## SP1042

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, after having sent a STATUS ENQUIRY message, on first expiry of timer T322, without receiving a STATUS message, sends a STATUS ENQUIRY message and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

# Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/BV/TP2125

- Ensure that the IUT in state 3 for a CISC, after having sent a STATUS ENQUIRY message, on first expiry of timer T322, without receiving a STATUS message, sends a STATUS ENQUIRY message and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### PC/CISC/COTA/BV/TP2126

- Ensure that the IUT in state 10 for a CISC, after having sent a STATUS ENQUIRY message, on first expiry of timer T322, without receiving a STATUS message, sends a STATUS ENQUIRY message and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### SP1043

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, after having sent a STATUS ENQUIRY message, on occurrence of an event which would usually provoke the sending of a STATUS ENQUIRY, does not re-start T322, does not send a STATUS ENQUIRY message until expiry of T322 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### PC/CISC/COTA/BV/TP2127

- Ensure that the IUT in state 3 for a CISC, after having sent a STATUS ENQUIRY message, on occurrence of an event which would usually provoke the sending of a STATUS ENQUIRY, does not re-start T322, does not send a STATUS ENQUIRY message until expiry of T322 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### SP1044

Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a STATUS message containing a Cause IE with a Cause Value encoded as other than 30, does not send any further STATUS ENQUIRY message(s) until expiry of T322 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

# PC/CISC/COTA/BV/TP2128

- Ensure that the IUT in state 3 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a STATUS message containing a Cause IE with a Cause Value encoded as other than 30, does not send any further STATUS ENQUIRY message(s) until expiry of T322 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

# PC/CISC/COTA/BV/TP2129

- Ensure that the IUT in state 10 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a STATUS message containing a Cause IE with a Cause Value encoded as other than 30, does not send any further STATUS ENQUIRY messages until expiry of T322 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### SP1045

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a STATUS message containing a Cause IE with a Cause Value encoded as 30, stops timer T322 and remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

# PC/CISC/COTA/BV/TP2130

- Ensure that the IUT in state 3 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a STATUS message containing a Cause IE with a Cause Value encoded as 30 remains in the same state (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

Draft prETS 300 806-1: July 1996

#### SP1046

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a RELEASE message, stops timer T322, sends a RELEASE COMPLETE message and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### PC/CISC/COTA/BV/TP2131

- Ensure that the IUT in state 10 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a RELEASE message, stops timer T322, sends a RELEASE COMPLETE message and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### SP1047

- Ensure that the IUT in state 1, 3, 8, 9, 10 or 19 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a RELEASE COMPLETE message, stops timer T322, and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### PC/CISC/COTA/BV/TP2132

- Ensure that the IUT in state 9 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a RELEASE COMPLETE message, stops timer T322, and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

#### PC/CISC/COTA/BV/TP2133

- Ensure that the IUT in state 10 for a CISC, after having sent a STATUS ENQUIRY message, on receiving a RELEASE COMPLETE message, stops timer T322, and enters state 0 (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclause 7.4.1).

### 5.3.2.1.11 PC requirements - Layer Management Procedures

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.11.

#### SP1060

- Ensure that the IUT in layer Management state R0 and in state 1, 3, 6, 8, 9, 10 or 19 for a CISC, on receiving a RESTART message containing a Restart Indicator IE with a Class Value encoded as "Indicated Channel" and a Channel Identification IE with a Channel Number encoded as **n**, does not clear the CISC (reference ETS 300 172 [2], subclause 11.1.2).

#### PC/CISC/COTA/LM/TP2219

- Ensure that the IUT in layer Management state R0 and in state 10 for a CISC, on receiving a RESTART message containing a Restart Indicator IE with a Class Value encoded as "Indicated Channel" and a Channel Identification IE with a Channel Number encoded as **n**, remains in state 10 for this CISC (reference ETS 300 172 [2], subclause 11.1.2).

#### SP1061

- Ensure that the IUT in layer Management state R0 and in state 1, 3, 6, 8, 9, 10 or 19 for a CISC, on receiving a RESTART message containing a Restart Indicator IE with a Class Value encoded as "All Channels", sends a RESTART ACK message containing a Restart Indicator IE with a Class Value encoded as "All Channels", enters state 0 for this CISC and returns to Layer Management state R0 (reference ETS 300 172 [2], subclause 11.1.2).

## PC/CISC/COTA/LM/TP2220

- Ensure that the IUT in layer Management state R0 and in state 10 for a CISC, on receiving a RESTART message containing a Restart Indicator IE with a Class Value encoded as "All Channels", sends a RESTART ACK message containing a Restart Indicator IE with a Class Value encoded as "All Channels", enters state 0 for this CISC (reference ETS 300 172 [2], subclause 11.1.2).

#### SP1062

- Ensure that the IUT in layer Management state R1 and in state 1, 3, 6, 8, 9, 10 or 19 for a CISC, on receiving a RESTART message containing a Restart Indicator IE with a Class Value encoded as "All Channels", sends a RESTART ACK message containing a Restart Indicator IE with a Class Value encoded as "All Channels", enters state 0 for this CISC and returns to Layer Management state R0 for the incoming RESTART (reference ETS 300 172 [2], subclause 11.1.3).

# Draft prETS 300 806-1: July 1996

#### PC/CISC/COTA/LM/TP2221

- Ensure that the IUT in layer Management state R1 and in state 10 for a CISC, on receiving a RESTART message containing a Restart Indicator IE with a Class Value encoded as "All Channels", sends a RESTART ACK message containing a Restart Indicator IE with a Class Value encoded as "All Channels", enters state 0 for this CISC and returns to Layer Management state R0 for the incoming RESTART (reference ETS 300 172 [2], subclause 11.1.3).

#### 5.3.2.1.12 PC - Protocol timer values

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.1.12.

The following 2 TPs are only applicable to an IUT if it supports SETUP retransmission.

#### PC/CISC/COTA/TI/TP2134

- Ensure that the IUT timer T303, following the transmission of a SETUP message related to a CISC, expires within the time range 3.6 to 6.6 seconds (reference ETS 300 239 [1], subclause 7.3.1.11).

#### PC/CISC/COTA/TI/TP2135

- Ensure that the IUT timer T303, following the re-transmission of a SETUP message related to a CISC, expires within the time range 3.6 to 6.6 seconds (reference ETS 300 239 [1], subclause 7.3.1.11).

## PC/CISC/COTA/TI/TP2136

- Ensure that the IUT timer T308, following the transmission of a RELEASE message related to a CISC, expires within the time range 3.6 to 6.6 seconds (reference ETS 300 239 [1], subclause 7.3.1.11).

#### PC/CISC/COTA/TI/TP2137

- Ensure that the IUT timer T308, following the re-transmission of a RELEASE message related to a CISC, does not expire before 3.6 seconds have elapsed from the time of re-transmission of the RELEASE message (reference ETS 300 239 [1], subclause 7.3.1.11).

## PC/CISC/COTA/TI/TP2138

- Ensure that the IUT timer T308, following the re-transmission of a RELEASE message related to a CISC, expires before 6.6 seconds have elapsed from the time of re-transmission of the RELEASE message (reference ETS 300 239 [1], subclause 7.3.1.11).

#### PC/CISC/COTA/TI/TP2139

- Ensure that the IUT timer T309, following the disconnection of the SCM, does not expire before 81 seconds have elapsed from the time of disconnection of the SCM (reference ETS 300 239 [1], subclause 7.3.1.11).

#### PC/CISC/COTA/TI/TP2140

- Ensure that the IUT timer T309, following the disconnection of the SCM, expires before 99 seconds have elapsed from the time of disconnection of the SCM (reference ETS 300 239 [1], subclause 7.3.1.11).

The following TP is only applicable to an IUT if it supports T313 implementation.

# PC/CISC/COTA/TI/TP2142

- Ensure that the IUT timer T313, following the transmission of a CONNECT message related to a CISC, expires within the time range 3.6 to 6.6 seconds (reference ETS 300 239 [1], subclause 7.3.1.11).

The following TP is only applicable to an IUT if it supports STATUS ENQUIRY sending.

#### PC/CISC/COTA/TI/TP2143

- Ensure that the IUT timer T322, following the transmission of a STATUS ENQUIRY message related to a CISC, expires within the time range 3.6 to 6.6 seconds (reference ETS 300 239 [1], subclause 7.3.1.11).

Draft prETS 300 806-1: July 1996

## 5.3.2.2 Generic Functional Transport Control requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.2.2, as referenced by 7.3.3.

#### GFTC/CISC/COTA/BI/TP2231

- Ensure that the IUT, on receiving via PC a Facility IE not including an NFE, becomes the Destination PINX for that IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2).

#### 5.3.2.2.1 GFTC - Actions at a Transit PINX

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.1.2.2.2, as referenced by 7.3.3.2.

#### GFTC/CISC/COTA/BV/TP2222

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### GFTC/CISC/COTA/BV/TP2223

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and understanding the contents of this IE, either becomes the Destination PINX for that Facility IE and passes it to the Coordination Function, or passes that Facility IE unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

### SP1063

- Ensure that the IUT as a Transit PINX for a CISC, on receiving a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element, and unable to become an End PINX for that Facility IE, passes it unchanged to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

### GFTC/CISC/COTA/BV/TP2224

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### GFTC/CISC/COTA/CA/TP2225

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

### GFTC/CISC/COTA/BV/TP2226

Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

### GFTC/CISC/COTA/BV/TP2227

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

## Draft prETS 300 806-1: July 1996

#### GFTC/CISC/COTA/BV/TP2228

Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### GFTC/CISC/COTA/BV/TP2229

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

## GFTC/CISC/COTA/IV/TP2230

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE not encoded or structured according to clause 11, discards the entire Facility IE, without passing it on via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### 5.3.2.2.1.1 GFTC - Actions in the Transit connection idle state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.3.2.1.

#### GFTC/CISC/COTA/BV/TP2146

- Ensure that the IUT in the Transit\_connection\_idle state, on receiving from PC an indication of a received SETUP message containing a Called Party Number IE of another PINX to which a connection is possible, requests PC to send a SETUP message to the subsequent PINX (reference ETS 300 239 [1], subclause 7.3.3.2.1).

#### GFTC/CISC/COTA/BV/TP2147

- Ensure that the IUT in the Transit\_connection\_idle state, on receiving from PC an indication of a received SETUP message containing a Called Party Number IE of another PINX to which a connection is possible and containing a Transit counter IE with a Transit Count field encoded with a value less than the acceptable network dependent limit, requests PC to send a SETUP message to the subsequent PINX containing a Transit Counter IE with a Transit Count field encoded with a value one greater than the value encoded in the Transit Count field of the Transit Counter IE in the received SETUP (reference ETS 300 239 [1], subclause 7.3.3.2.1).

#### GFTC/CISC/COTA/IV/TP2148

- Ensure that the IUT in the Transit\_connection\_idle state, on receiving from PC an indication of a received SETUP message containing a Called Party Number IE of another PINX to which a connection is possible and a Transit Counter IE with a Transit Count field encoded with a value greater than or equal to the acceptable (network dependent limit) of the IUT and the IUT is unable to become the terminating PINX, requests PC to send a RELEASE message to the preceding PINX (and remains in the same state) (reference ETS 300 239 [1], subclause7.3.3.2.1).

#### GFTC/CISC/COTA/BV/TP2149

- Ensure that the IUT in the Transit\_connection\_idle state, on receiving from PC an indication of a received SETUP message not containing a Transit Counter IE, requests PC to send a SETUP message to the subsequent PINX optionally including a Transit Counter IE with a Transit Count field encoded with a value not less than 1 (reference ETS 300 239 [1], subclause 7.3.3.2.1).

## GFTC/CISC/COTA/IV/TP2150

- Ensure that the IUT in the Transit\_connection\_idle state, on receiving from PC an indication of a received SETUP message containing a Called Party Number IE with insufficient information to enable routing to a further inter-PINX link, requests PC to send a RELEASE message to the preceding PINX and remains in the same state (reference ETS 300 239 [1], subclause 7.3.3.2.1).

Draft prETS 300 806-1: July 1996

## 5.3.2.2.1.2 GFTC - Actions in the Transit\_connection\_request state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.3.2.2.

#### GFTC/CISC/COTA/BV/TP2153

- Ensure that the IUT in the Transit\_connection\_request state, on receiving from PC an indication of a received CONNECT message from the subsequent PINX, requests PC to send a CONNECT message to the preceding PINX and enters Transit\_connection\_active state (reference ETS 300 239 [1], subclause 7.3.3.2.2).

#### GFTC/CISC/COTA/BV/TP2154

- Ensure that the IUT in the Transit\_connection\_request state, on receiving from PC an indication of a received RELEASE message from a subsequent PINX, requests PC to send a RELEASE message to the preceding PINX and enters the Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.2).

#### GFTC/CISC/COTA/BV/TP2155

- Ensure that the IUT in the Transit\_connection\_request state, on receiving from PC an indication of a received RELEASE COMPLETE message from a subsequent PINX, requests PC to send a RELEASE message to the preceding PINX and enters the Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.2).

#### GFTC/CISC/COTA/BV/TP2156

 Ensure that the IUT in the Transit\_connection\_request state, on receiving from PC an indication of a received RELEASE message from the preceding PINX, requests PC to send a RELEASE message to the subsequent PINX and enters the Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.2).

## 5.3.2.2.1.3 GFTC - Actions in the Transit\_connection\_active state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.3.2.3.

# GFTC/CISC/COTA/BV/TP2157

 Ensure that the IUT in the Transit\_connection\_active state, on receiving from PC an indication of a received FACILITY message containing a Facility IE including an NFE encoded as follows:

sourceEntity: "endPINX" sourceEntityAddress: (omitted) detinationEntity: "endPINX" destinationEntityAddress: (omitted)

from the subsequent PINX, requests PC to send the same FACILITY message to the preceding PINX (reference ETS 300 239 [1], subclause 7.3.3.2.3).

# GFTC/CISC/COTA/BV/TP2158

- Ensure that the IUT in the Transit\_connection\_active state, on receiving from PC an indication of a received FACILITY message containing a Facility IE including an NFE encoded as follows:

sourceEntity: "endPINX" sourceEntityAddress: (omitted) detinationEntity: "endPINX" destinationEntityAddress: (omitted)

from the preceding PINX, requests PC to send the same FACILITY message to the subsequent PINX (reference ETS 300 239 [1], subclause 7.3.3.2.3).

#### GFTC/CISC/COTA/BV/TP2159

- Ensure that the IUT in the Transit\_connection\_active state, on receiving from PC an indication of a received RELEASE message from the subsequent PINX requests PC to send a RELEASE message to the preceding PINX and enters Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.3).

#### GFTC/CISC/COTA/BV/TP2160

 Ensure that the IUT in the Transit\_connection\_active state, on receiving from PC an indication of a received RELEASE message from the preceding PINX requests PC to send a RELEASE message to the subsequent PINX and enters Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.3).

#### 5.3.2.2.2 GFTC - Actions at an End PINX

The TPs in this subclause refer to ETS 300 239 [1], subclauses 7.1.2.2 and 7.1.2.2.1, as referenced by 7.3.3.3.

#### SP1064

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" or "anyTypeOfPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### GFTC/CISC/COTA/BV/TP2232

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### GFTC/CISC/COTA/CA/TP2233

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### GFTC/CISC/COTA/BV/TP2234

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### SP1065

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFTC/CISC/COTA/BV/TP2235

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### GFTC/CISC/COTA/BV/TP2236

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFTC/CISC/COTA/IV/TP2237

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, discards the Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFTC/CISC/COTA/IV/TP2238

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with coding or structure not as specified in clause 11 of ETS 300 239 [1], discards the entire Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

Draft prETS 300 806-1: July 1996

#### GFTC/CISC/COTA/BV/TP2239

 Ensure that the IUT as an End PINX for a CISC, on receiving via PC two facility IEs from the same message, the first Facility IE including an NFE encoded as follows:

destinationEntity: "endPINX" destinationEntityAddress: (omitted)

and the second Facility IE including an NFE encoded as follows:

detinationEntity: "anyTypeOfPINX"

destinationEntityAddress: (not matching the address of the IUT)

becomes the Destination PINX for the first Facility IE and passes it to the Coordination Function, and discards the second Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# 5.3.2.2.3 GFTC - Actions at a Terminating PINX

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.3.3.

# 5.3.2.2.3.1 GFTC - Actions in the Incoming\_connection\_idle state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.3.3.1.

#### GFTC/CISC/COTA/CA/TP2161

- Ensure that the IUT in the Incoming\_connection\_idle state, on receiving from PC an indication of a received SETUP message, requests PC to send a CONNECT message or requests PC to send a RELEASE message (reference ETS 300 239 [1], subclause 7.3.3.3.1).

NOTE: Protocol control will send a CALL PROCEEDING message.

# 5.3.2.2.3.2 GFTC - Actions in the Incoming\_connection\_active state

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.3.3.2.

#### GFTC/CISC/COTA/BV/TP2162

- Ensure that the IUT in the Incoming\_connection\_active state, in order to transmit APDUs, requests PC to send a FACILITY message to the preceding PINX (reference ETS 300 239 [1], subclause 7.3.3.3.2).

#### GFTC/CISC/COTA/BV/TP2163

- Ensure that the IUT in the Incoming\_connection\_active state, in order to release a CISC requests PC to send a RELEASE message. (reference ETS 300 239 [1], subclause 7.3.3.3.2).

## GFTC/CISC/COTA/BV/TP2164

- Ensure that the IUT in the Incoming\_connection\_active state, on receiving from PC an indication of a received RELEASE message, enters the Incoming\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.3.2).

## 5.3.2.2.4 GFTC - Actions at a Destination PINX

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.3.3.5.

## SP1067

- Ensure that the IUT, on receiving via PC a Facility IE related to a CISC, with a Protocol Profile encoded with another value than "Networking Extensions", passes the APDUs to CF together with an indication of the protocol profile reflecting the contents of the Protocole Profile (reference ETS 300 239 [1], subclause 7.1.2.3).

# GFTC/CISC/COTA/IV/TP2249

- Ensure that the IUT, on receiving via PC a Facility IE, related to a CISC, with a Protocol Profile encoded as 00000, passes the APDUs to CF together with an indication of the protocol profile reflecting the contents of the Protocol Profile (reference ETS 300 239 [1], subclause 7.1.2.3).

## Draft prETS 300 806-1: July 1996

#### GFTC/CISC/COTA/IV/TP2250

- Ensure that the IUT, on receiving via PC a Facility IE, related to a CISC, with a Network Protocol Profile incorrectly coded (i.e. other than "ACSE" or "DSE"), discards this Facility IE (reference ETS 300 239 [1], subclause 7.1.2.3).

#### GFTC/CISC/COTA/IV/TP2251

- Ensure that the IUT, on receiving via PC a Facility IE, related to a CISC, with octets 4 onwards not containing an APDU in the form of an ASN1 encoded value, discards this Facility IE (reference ETS 300 239 [1], subclause 7.1.2.3).

#### 5.3.2.3 Relaying requirements

#### PC/CISC/COTA/BV/TP1075

- Ensure that the IUT as a Transit PINX, in state Transit\_connection\_idle, on receiving a SETUP message on interface X, containing a Facility IE which is to be relayed, sends a SETUP message on interface Y containing this Facility IE.

# PC/CISC/COTA/BV/TP1076

 Ensure that the IUT as a Transit PINX, in state Transit\_connection\_request, on receiving a CONNECT message on interface Y, containing a Facility IE which is to be relayed, sends a CONNECT message on interface X containing this Facility IE.

#### PC/CISC/COTA/BV/TP1077

Ensure that the IUT as a Transit PINX, in state Transit\_connection\_active, on receiving a RELEASE
message on interface X, containing a Facility IE which is to be relayed, sends a RELEASE
message on interface Y containing this Facility IE.

#### PC/CISC/COTA/BV/TP1078

- Ensure that the IUT as a Transit PINX, in state Transit\_connection\_active, on receiving a RELEASE COMPLETE message on interface Y, containing a Facility IE which is to be relayed, sends a RELEASE message on interface X containing this Facility IE.

#### 5.3.3 Call Related procedures for the transport of Notifications

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.4.

### 5.3.3.1 Protocol Control requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.4.2.

#### 5.3.3.1.1 PC - Sending Notification information

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.4.2.1.

#### SP1050

 Ensure that the IUT, when requested by GFT Control to send a notification related to a call when an ALERTING, CONNECT, SETUP (except re-transmission), DISCONNECT, PROGRESS or FACILITY message, is to be sent, either includes a Notification Indicator IE in that message or sends a NOTIFY message containing the Notification Indicator IE reference ETS 300 239 [1], subclause 7.4.2.1).

#### PC/CR/COTN/BV/TP2167

Ensure that the IUT, when requested by GFT Control to send a notification related to a call when an ALERTING message is to be sent, either sends an ALERTING message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

#### PC/CR/COTN/BV/TP2168

Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a CONNECT message is to be sent, either sends a CONNECT message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

Draft prETS 300 806-1: July 1996

#### PC/CR/COTN/BV/TP2169

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a SETUP message (except re-transmission) is to be sent, sends a SETUP message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

#### PC/CR/COTN/BV/TP2170

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a DISCONNECT message is to be sent, either sends a DISCONNECT message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

## PC/CR/COTN/BV/TP2171

 Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a PROGRESS message is to be sent, either sends a PROGRESS message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

#### PC/CR/COTN/BV/TP2172

 Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a FACILITY message is to be sent, either sends a FACILITY message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

#### SP1051

Ensure that the IUT in a state other than 1, 6, 11, 12 or 19 for a call, when requested by GFT Control to send a notification related to that call, when no ALERTING, CONNECT, SETUP, PROGRESS, DISCONNECT, or FACILITY message is to be sent, sends a NOTIFY message containing a Notification Indicator IE and remains in the same state (reference ETS 300 239 [1], subclause 7.4.2.1).

#### PC/CR/COTN/BV/TP2173

- Ensure that the IUT in state 3 for a call, when requested by GFT Control to send a notification related to that call when no DISCONNECT, or FACILITY message is to be sent, sends a NOTIFY message containing a Notification Indicator IE and remains in the same state (reference ETS 300 239 [1], subclause 7.4.2.1).

## PC/CR/COTN/CA/TP2174

- Ensure that the IUT in state 10 for a call, when requested by GFT Control to send a notification related to that call when no PROGRESS, DISCONNECT, or FACILITY message is to be sent, sends a NOTIFY message containing a Notification Indicator IE and remains in the same state (reference ETS 300 239 [1], subclause 7.4.2.1).

## PC/CR/COTN/BV/TP2175

- Ensure that the IUT in state 4 for a call, when requested by GFT Control to send a notification related to that call when no DISCONNECT, or FACILITY message is to be sent, sends a NOTIFY message containing a Notification Indicator IE and remains in the same state (reference ETS 300 239 [1], subclause 7.4.2.1).

#### PC/CR/COTN/IO/TP2176

- Ensure that the IUT with a call in state 1, when requested by GFT Control to send a notification related to that call, does not include it in any message sent while in state 1 (reference ETS 300 239 [1], subclause 7.4.2.1).

#### PC/CR/COTN/IO/TP2177

- Ensure that the IUT with a call in state 11, when requested by GFT Control to send a notification related to that call, does not include it in any message it sends (reference ETS 300 239 [1], subclause 7.4.2.1).

# PC/CR/COTN/IO/TP2178

 Ensure that the IUT with a call in state 19, when requested by GFT Control to send a notification related to that call, does not include it in any message it sends (reference ETS 300 239 [1], subclause 7.4.2.1).

## 5.3.3.1.2 PC - Receiving Notification information

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.4.2.2.

#### SP1052

- Ensure that the IUT, on receiving an ALERTING, CONNECT, SETUP, DISCONNECT, PROGRESS or FACILITY message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### PC/CR/COTN/BV/TP2179

- Ensure that the IUT, on receiving an ALERTING message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

## PC/CR/COTN/BV/TP2180

- Ensure that the IUT, on receiving a CONNECT message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### PC/CR/COTN/BV/TP2181

- Ensure that the IUT, on receiving a SETUP message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### PC/CR/COTN/BV/TP2182

- Ensure that the IUT, on receiving a DISCONNECT message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### PC/CR/COTN/BV/TP2183

- Ensure that the IUT, on receiving a PROGRESS message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### PC/CR/COTN/BV/TP2184

- Ensure that the IUT, on receiving a FACILITY message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### PC/CR/COTN/CA/TP2185

- Ensure that the IUT on receiving a NOTIFY message related to a call containing a Notification Indicator IE, passes that IE to GFT Control and remains in the same state.

#### 5.3.3.1.3 PC - Protocol error handling

The TPs in this subclause refer to ETS 300 239 [1], subclauses 10.8, 11.3.4, and ETS 300 172 [2], subclause 7.3.7.2.

# SP1053

- Ensure that the IUT, on receiving a NOTIFY message related to a call, and containing a Notification Indicator IE encoded with a content error, sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclauses 10.8 and 11.3.4 and ETS 300 172 [2] subclause 7.3.6.2).

### PC/CR/COTN/IV/TP2186

- Ensure that the IUT, on receiving a NOTIFY message related to a call, and containing a Notification Indicator IE with the extension bit in octet 3 encoded as 0, sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclauses 10.8 and 11.3.4 and ETS 300 172 [2] subclause 7.3.6.2).

Draft prETS 300 806-1: July 1996

#### PC/CR/COTN/IV/TP2187

- Ensure that the IUT, on receiving a NOTIFY message related to a call, and containing a Notification Indicator IE with the Notification Description field encoded as other than "discriminator for notification extension" or "discriminator for extension to ISO defined ASN.1 encoded notification data structure" and including a NotificationDataStructure, sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclauses 10.8 and 11.3.4 and ETS 300 172 [2] subclause 7.3.6.2).

#### PC/CR/COTN/IV/TP2188

- Ensure that the IUT, on receiving a NOTIFY message related to a call, and containing a Notification Indicator IE with the Notification Description field encoded as "discriminator for notification extension" and with no NotificationDataStructure, sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclauses 10.8 and 11.3.4 and ETS 300 172 [2] subclause 7.3.6.2).

## PC/CR/COTN/IV/TP2252

- Ensure that the IUT, on receiving a NOTIFY message related to a call, and containing a Notification Indicator IE with the Notification Description field encoded "discriminator for extension to ISO defined ASN.1 encoded notification data structure" and with no NotificationDataStructure, sends a STATUS message containing a Cause IE with a Cause value encoded as 100 (reference ETS 300 239 [1], subclauses 10.8 and 11.3.4 and ETS 300 172 [2] subclause 7.3.6.2).

#### SP1054

- Ensure that the IUT, on receiving an ALERTING, CONNECT, SETUP, DISCONNECT, FACILITY or PROGRESS message related to a call, and containing a Notification Indicator IE encoded with a content error, ignores the Notification Indicator IE, optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100 and enters the appropriate state according to the Basic Call message received (reference ETS 300 239 [1], subclause 11.3.4 and ETS 300 172 [2] subclause 7.3.7.2).

#### PC/CR/COTN/IV/TP2189

- Ensure that the IUT in state 3 for a call, on receiving an ALERTING message containing a Notification Indicator IE with the extension bit in octet 3 encoded as 0, ignores the Notification Indicator IE and optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100 and enters state 4. (reference ETS 300 239 [1], subclause 11.3.4 and ETS 300 172 [2], subclause 7.3.7.2).

# PC/CR/COTN/IV/TP2190

- Ensure that the IUT in state 3 for a call, on receiving an ALERTING message containing a Notification Indicator IE with the Notification description encoded as other than "discriminator for notification extension" or "discriminator for extension to ISO defined ASN.1 encoded notification data structure" and containing a NotificationDataStructure, ignores the Notification Indicator IE, optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100and enters state 4 (reference ETS 300 239 [1], subclause 11.3.4 and ETS 300 172 [2], subclause 7.3.7.2).

### PC/CR/COTN/IV/TP2191

- Ensure that the IUT in state 10 for a call, on receiving a DISCONNECT message containing a Notification Indicator IE with the Notification description encoded as "discriminator for notification extension" and with no NotificationDataStructure, ignores the Notification Indicator IE and optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100, sends a RELEASE message and enters state 19. (reference ETS 300 239 [1], subclause 11.3.4 and ETS 300 172 [2], subclause 7.3.7.2).

# PC/CR/COTN/IV/TP2253

- Ensure that the IUT in state 10 for a call, on receiving a DISCONNECT message containing a Notification Indicator IE with the Notification description encoded as "discriminator for extension to ISO defined ASN.1 encoded notification data structure" and with no NotificationDataStructure, ignores the Notification Indicator IE and optionally sends a STATUS message containing a Cause IE with a Cause value encoded as 100, sends a RELEASE message and enters state 19. (reference ETS 300 239 [1], subclause 11.3.4 and ETS 300 172 [2], subclause 7.3.7.2).

#### Draft prETS 300 806-1: July 1996

#### PC/CR/COTN/IV/TP2192

- Ensure that the IUT, on receiving a NOTIFY message related to a call, and not containing a Notification Indicator IE, sends a STATUS message containing a Cause IE with a Cause value encoded as 96. (reference ETS 300 239 [1], subclause 10.7 and ETS 300 172 [2], subclause 7.3.6.1)

### 5.3.3.2 Generic Functional Transport Control requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.4.3.

#### 5.3.3.2.1 GFTC - Actions at a Transit PINX

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.4.3.2.

#### GFTC/CR/COTN/BV/TP2193

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Preceding PINX, sends a Notification Indicator IE via PC to the Subsequent PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

#### GFTC/CR/COTN/CA/TP2194

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Subsequent PINX, sends a Notification Indicator IE via PC to the Preceding PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

#### 5.3.3.2.2 GFTC - Actions at a Receiving End PINX

The TPs in this subclause refer to ETS 300 239 [1], subclause 7.4.3.3.

## GFTC/CR/COTN/CA/TP2195

- Ensure that the IUT as an End PINX, on receiving via PC a Notification Indicator IE at any time during a Call, conveys this information to the PISN user (reference ETS 300 239 [1], subclause 7.4.3.3).

# 5.3.4 Application Layer requirements

#### 5.3.4.1 Coordination Function requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 8.1.2.

#### CF/P/TA/IV/TP2196

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, where the first one of the sequence was an InterpretationAPDU encoded as "rejectUnrecognisedInvokePdu", and where another one of the sequence was an InvokePDU which caused the rejection, requests GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE (reference ETS 300 239 [1], subclause 8.1.2).

#### CF/P/TA/IV/TP2197

Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, with no InterpretationAPDU, and whose one APDU was an InvokePDU which caused the rejection, requests GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE (reference ETS 300 239 [1], subclause 8.1.2).

## SP1055

Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, where the first one of the sequence was an InterpretationAPDU encoded as "clearCallIfAnyInvokePduNotRecognised", and where another one of the sequence was an InvokePDU which caused the rejection, requests GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE and to clear the underlying connection (reference ETS 300 239 [1], subclause 8.1.2).

Draft prETS 300 806-1: July 1996

#### CF/P/TA/IV/TP2198

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU associated with a call with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, where the first one of the sequence was an InterpretationAPDU encoded as "clearCallIfAnyInvokePduNotRecognised", and where another one of the sequence was an InvokePDU which caused the rejection, requests GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE and to clear the underlying call (reference ETS 300 239 [1], subclause 8.1.2).

#### CF/P/TA/IV/TP2199

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU associated with a CISC with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, where the first one of the sequence was an InterpretationAPDU encoded as "clearCallIfAnyInvokePduNotRecognised", and where another one of the sequence was an InvokePDU which caused the rejection, requests GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE and to clear the underlying CISC (reference ETS 300 239 [1], subclause 8.1.2).

#### SP1056

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, where the first one of the sequence was an InterpretationAPDU encoded as "discardAnyUnrecognisedInvokePdu", and where another one of the sequence was an InvokePDU which caused the rejection, does not request GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE (reference ETS 300 239 [1], subclause 8.1.2).

#### CF/P/TA/IV/TP2200

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU associated with a call with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, where the first one of the sequence was an InterpretationAPDU encoded as "discardAnyUnrecognisedInvokePdu", and where another one of the sequence was an InvokePDU which caused the rejection, does not request GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE (reference ETS 300 239 [1], subclause 8.1.2).

### CF/P/TA/IV/TP2201

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU associated with a CISC with an "InvokeProblem" encoded as "unrecognisedOperation" resulting from the processing of a sequence of APDUs received from GFTC, where the first one of the sequence was an InterpretationAPDU encoded as "discardAnyUnrecognisedInvokePdu", and where another one of the sequence was an InvokePDU which caused the rejection, does not request GFT Control to send a Facility IE with the APDU of type RejectPDU received from ROSE (reference ETS 300 239 [1], subclause 8.1.2).

#### CF/TA/IV/TP2254

- Ensure that the IUT, on receiving from GFTC APDUs together with an indication of the protocol profile indicating neither 'ROSE", nor "ACSE" nor "DSE", discards all these APDUs (reference ETS 300 239 [1], subclause 8.1.2).

#### 5.3.4.2 ROSE requirements

The TPs in this subclause refer to ETS 300 239 [1], subclause 8.2 and X229 [9] clause 7.

#### SP1057

- Ensure that the IUT on receiving via CF an APDU with an unrecognised tag, requests CF to send an APDU of type RejectPDU with the "problem" field encoded as "unrecognisedPDU". (reference ETS 300 239 subclause 8.2, X229 [9], subclause 7.5).

# RO/P/TA/IV/TP2202

- Ensure that the IUT on receiving via CF an APDU with the tag of a NFE, requests CF to send an APDU of type RejectPDU with the "problem" field encoded as "unrecognisedPDU". (reference ETS 300 239 subclauses 8.2 and 11.3.3.1, X229 [9], subclause 7.5).

#### Draft prETS 300 806-1: July 1996

#### RO/P/TA/IV/TP2203

- Ensure that the IUT on receiving via CF an APDU with the tag of an Interpretation APDU, requests CF to send an APDU of type RejectPDU with the "problem" field encoded as "unrecognisedPDU". (reference ETS 300 239 subclauses 8.2 and 11.3.3.2, X229 [9], subclause 7.5).

#### RO/P/TA/IV/TP2204

- Ensure that the IUT on receiving via CF an APDU, with the tag of an Network Protocol Profile, requests CF to send an APDU of type RejectPDU with the "problem" field encoded as "unrecognisedPDU". (reference ETS 300 239 subclause 8.2, ISO/IEC 11582 [11], subclause 11.3.3 and X229 [9], subclause 7.5).

## RO/P/TA/IV/TP2205

- Ensure that the IUT, on receiving via CF an APDU with an undefined tag, requests CF to send an APDU of type RejectPDU with the "problem" field encoded as "unrecognisedPDU". (reference ETS 300 239 subclauses 8.2 and X229 [9], subclause 7.5).

#### RO/P/TA/IV/TP2206

- Ensure that the IUT, on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 subclause 8.2, X229 [9], subclauses 7.1.3.2 and 7.4.3.1).

#### RO/P/TA/IV/TP2207

Ensure that the IUT, on receiving via CF a APDU of type ReturnResultPDU with the "invokeID" element encoded with an unrecognised value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedInvocation" (reference ETS 300 239 subclause 8.2, X229 [9], subclauses 7.2.3.2 and 7.5).

#### RO/P/TA/IV/TP2208

- Ensure that the IUT, on receiving via CF a APDU of type ReturnErrorPDU with the "invokeID" element encoded with an unrecognised value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedInvocation" (reference ETS 300 239 subclause 8.2, X229 [9], subclauses 7.3.3.2 and 7.5).

#### 5.3.5 Verification of state

Where a TP specifies that the IUT enters or remains in a specified protocol control state this is verified as follows:

Ensure that the IUT, on receiving a STATUS ENQUIRY message containing a Call Reference IE encoded with the appropriate call reference flag and value for the relevant call or CISC, sends the appropriate response for the expected state (the state is specified in the TP). For all states a STATUS message containing a Call State IE encoded with the expected state and a Cause IE with a cause value encoded as 30 is acceptable. For state 0 a RELEASE or RELEASE COMPLETE message containing a Cause IE with a cause value encoded as 81 is also acceptable. If, for a call, the expected state is state 2 and an INFORMATION message is received this shall be ignored (reference ETS 300 239 [1], subclause 7.3.1.10 and ETS 300 172 [2], subclauses 7.4.1 and 7.3.3.2)..

# **6** Final Test Purposes

This clause lists the Final Test Purposes (FTPs). These consist of two types, the first type are test purposes, which, to be tested, do not need to be combined with any other TPs. The second type (CTPs) consist of test purposes which have been combined with each other. For each CTP, the relevant TPs making up the combination are listed.

Draft prETS 300 806-1: July 1996

The Final Test Purposes have been produced taking into account the test purposes which are untestable using the test methods described in DE/ECMA 00110-2. Where a test is referred to as untestable in the clause it means that it is untestable using these test methods and does not necessarily imply that it is untestable using any other test method.

Uncombined test purposes which are applicable to one PINX role only, e.g End PINX, Transit PINX, are identified as such for one of the following reasons:

- (a) the individual TP is applicable to only one PINX role;
- (b) the individual TP, is, in principle, applicable to both the Transit and End PINX roles, however in the case where the TP is applicable to an End PINX, it is concerned with testing procedures or states which are only relevant when the End PINX is acting as an Originating PINX or an Incoming Gateway PINX (both out of scope for this ETS, see clause 1, Note 1). Therefore for this ETS, the particular TP is only in scope for a Transit PINX;
- (c) the individual TP has been included in a CTP for one role only, as it is untestable for the other role. These TP's are listed for the untestable role, as uncombined.

Each of the CTPs is identified as being applicable to a Transit PINX, an End PINX, or a Transit and an End PINX. Where a CTP is identified as applicable to one PINX role only, it is because at least one of the individual test purposes, making up the CTP, is only applicable, or within the scope of the ETS, for that PINX role (for reasons (a) or (b) above), or though applicable to both roles, has been identified as untestable for the other role.

A cross reference table subclause showing the combination of test purposes is included after each subclause describing the combined TPs.

#### 6.1 Requirements for Call Related procedures for the transport of APDUs

#### 6.1.1 Combined test purposes

GFP/CR/COTA/BV/CP3001: TP2011; TP2035 Transit PINX PC/CR/COTA/BV/TP2011 (test of PC)

- Ensure that the IUT, on receiving an ALERTING message related to a call and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# GFTC/CR/COTA/BV/TP2035 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

GFP/CR/COTA/CA/CP3002: TP2012; TP2036; Transit PINX PC/CR/COTA/BV/TP2012 (test of PC)

- Ensure that the IUT, on receiving a CONNECT message related to a call and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

### GFTC/CR/COTA/CA/TP2036 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

Draft prETS 300 806-1: July 1996

GFP/CR/COTA/BV/CP3003: TP2013; TP2037Transit PINX PC/CR/COTA/BV/TP2013 (test of PC)

- Ensure that the IUT, on receiving a SETUP message related to a call and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### GFTC/CR/COTA/BV/TP2037 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CR/COTA/BV/CP3069: TP2014; TP1072Transit PINX PC/CR/COTA/BV/TP2014

- Ensure that the IUT, on receiving a DISCONNECT message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### PC/CR/COTA/BV/TP1072

- Ensure that the IUT as a Transit PINX, in state TCC\_Call\_Active, on receiving a DISCONNECT message on interface X, containing a Facility IE which is to be relayed, sends a DISCONNECT message on interface Y containing this Facility IE.

# GFP/CR/COTA/BV/CP3070: TP2016; TP1073 Transit PINX PC/CR/COTA/BV/TP2016

- Ensure that the IUT, on receiving a RELEASE message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### PC/CR/COTA/BV/TP1073

Ensure that the IUT as a Transit PINX, in state TCC\_Call\_Active, on receiving a RELEASE
message on interface Y, containing a Facility IE which is to be relayed, sends a
DISCONNECT message on interface X containing this Facility IE.

# GFP/CR/COTA/BV/CP3071: TP2017; TP1074Transit PINX PC/CR/COTA/BV/TP2017

- Ensure that the IUT, on receiving a RELEASE COMPLETE message, related to a call, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

## PC/CR/COTA/BV/TP1074

- Ensure that the IUT as a Transit PINX, in state TCC\_Call\_Active, on receiving a RELEASE COMPLETE message on interface X, containing a Facility IE which is to be relayed, sends a DISCONNECT message on interface Y containing this Facility IE.

# GFP/CR/COTA/BV/CP3004: TP2018; ;TP2038; Transit PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# GFTC/CR/COTA/BV/TP2038 (test of GFTC)

Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

Draft prETS 300 806-1: July 1996

# GFP/CR/COTA/BV/CP3005: TP2015; TP2039Transit PINX PC/CR/COTA/BV/TP2015 (test of PC)

- Ensure that the IUT, on receiving a PROGRESS message related to a call and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### GFTC/CR/COTA/BV/TP2039 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CR/COTA/BI/CP3006: TP2018; TP2040; TP2007 Transit PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### GFTC/CR/COTA/BV/TP2040 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### PC/CR/COTA/BI/TP2007 (test of PC)

- Ensure that the IUT in state 10 for a call, when requested by GFT Control to send a Facility IE related to that call, when no DISCONNECT, RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# GFP/CR/COTA/MI/CP3007: TP2018;TP2025; TP2206; TP2196; TP2007 End PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

## GFTC/CR/COTA/BV/TP2025 (test of GFTC)

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### RO/P/TA/IV/TP2206 (test of ROSE)

- Ensure that the IUT on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 subclause 8.2, X229 [9], subclauses 7.1.3.2 and 7.4.3.1).

#### CF/P/TA/IV/TP2196 (test of CF)

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with the element "problem" encoded as "unrecognisedOperation" and when an Interpretation APDU encoded as "rejectUnrecognisedInvokePdu" had been received associated with the related APDU of type InvokePDU, requests GFT Control to send a Facility IE with the APDU of type RejectPDU having the "invokeID" element as in the InvokePDU received (reference ETS 300 239 [1], subclause 8.1.2).

### Draft prETS 300 806-1: July 1996

#### PC/CR/COTA/BI/TP2007 (test of PC)

- Ensure that the IUT in state 10 for a call, when requested by GFT Control to send a Facility IE related to that call, when no DISCONNECT, RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# GFP/CR/COTA/CA/CP3008: TP2018; TP2026 End PINX

PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message, related to a call, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

## GFTC/CR/COTA/CA/TP2026 (test of GFTC)

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CR/COTA/BV/CP3009: TP2018; TP2028 End PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message, related to a call, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### GFTC/CR/COTA/BV/TP2028 (test of GFTC)

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CR/COTA/BV/CP3010: TP2018; TP2029 End PINX

PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message, related to a call, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

# GFTC/CR/COTA/BV/TP2029 (test of GFTC)

Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CR/COTA/BV/CP3011: TP2015; TP2032 End PINX PC/CR/COTA/BV/TP2015 (test of PC)

Ensure that the IUT, on receiving a PROGRESS message related to a call and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

Draft prETS 300 806-1: July 1996

#### GFTC/CR/COTA/BV/TP2032 (test of GFTC)

 Ensure that the IUT as an End PINX, on receiving via PC two facility IEs from the same message,

the first Facility IE including an NFE encoded as follows:

destinationEntity: "endPINX" destinationEntityAddress: (omitted)

and the second Facility IE including an NFE encoded as follows:

detinationEntity: "anyTypeOfPINX"

destinationEntityAddress: (not matching the address of the IUT)

becomes the Destination PINX for the first Facility IE, passes it to the Coordination Function, and discards the second Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CR/COTA/BV/CP3012: TP2018; TP2027 End PINX

PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

## GFTC/CR/COTA/BV/TP2027 (test of GFTC)

- Ensure that the IUT as an End PINX, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CR/COTA/BI/CP3013: TP2011; TP2024Transit PINX PC/CR/COTA/BV/TP2011 (test of PC)

- Ensure that the IUT, on receiving an ALERTING message related to a call and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

## GFTC/CR/COTA/BI/TP2024 (test of GFTC)

- Ensure that the IUT, on receiving via PC a Facility IE not including an NFE, becomes the Destination PINX for that IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2).

# GFP/CR/COTA/BV/CP3014: TP2012; TP2202 Transit PINX PC/CR/COTA/BV/TP2012 (test of PC)

- Ensure that the IUT, on receiving a CONNECT message related to a call and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### RO/P/TA/IV/TP2202 (test of ROSE)

- Ensure that the IUT on receiving via CF an APDU with the tag of a NFE, requests CF to send an APDU of type RejectPDU with the "problem" field encoded as "unrecognisedPDU". (reference ETS 300 239 subclauses 8.2 and 11.3.3.1, X229 [9], subclause 7.5).

# GFP/CR/COTA/MI/CP3016: TP2018;TP2033; TP2206, TP2196; TP2007 Transit PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### GFTC/CR/COTA/BV/TP2033 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### RO/P/TA/IV/TP2206 (test of ROSE)

- Ensure that the IUT on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 [1], subclause 8.2, CCITT Recommendation X.229 [9], subclauses 7.1.3.2 and 7.4.3.1).

#### CF/P/TA/IV/TP2196 (test of CF)

Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with the element "problem" encoded as "unrecognisedOperation" and when an Interpretation APDU encoded as "rejectUnrecognisedInvokePdu" had been received associated with the related APDU of type InvokePDU, requests GFT Control to send a Facility IE with the APDU of type RejectPDU having the "invokeID" element as in the InvokePDU received (reference ETS 300 239 [1], subclause 8.1.2).

# PC/CR/COTA/BI/TP2007 (test of PC)

- Ensure that the IUT in state 10 for a call, when requested by GFT Control to send a Facility IE related to that call, when no DISCONNECT, RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# GFP/CR/COTA/BV/CP3017: TP2018; TP2034 Transit PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

### GFTC/CR/COTA/BV/TP2034 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a call, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and understanding the contents of this IE, either becomes the Destination PINX for that Facility IE and passes it to the Coordination Function, or passes that Facility IE unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CR/COTA/MI/CP3019: TP2018; TP2024; TP2206; TP2197 End and Transit PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### GFTC/CR/COTA/BI/TP2024 (test of GFTC)

- Ensure that the IUT, on receiving via PC a Facility IE not including an NFE, becomes the Destination PINX for that IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2).

## RO/P/TA/IV/TP2206 (test of ROSE)

Ensure that the IUT on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 [1], subclause 8.2, CCITT Recommendation X.229 [9], subclauses 7.1.3.2 and 7.4.3.1).

#### CF/P/TA/IV/TP2197 (test of CF)

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with the element "problem" encoded as "unrecognisedOperation" and when no Interpretation APDU had been received associated with the related APDU of type InvokePDU, requests GFT Control to send a Facility IE with the APDU of type RejectPDU having the "invokeID" element encoded as in the InvokePDU received (reference ETS 300 239 [1], subclause 8.1.2).

Draft prETS 300 806-1: July 1996

# GFP/CR/COTA/MI/CP3020: TP2018; TP2024; TP2206; TP2198, TP2209 End and Transit PINX PC/CR/COTA/BI/TP2018 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a call and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclause 7.1.1.2).

#### GFTC/CR/COTA/BI/TP2024 (test of GFTC)

- Ensure that the IUT, on receiving via PC a Facility IE not including an NFE, becomes the Destination PINX for that IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2).

#### RO/P/TA/IV/TP2206 (test of ROSE)

- Ensure that the IUT on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 [1], subclause 8.2, CCITT Recommendation X.229 [9], subclauses 7.1.3.2 and 7.4.3.1).

#### CF/P/TA/IV/TP2198 (test of CF)

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU associated with a call with the element "problem" encoded as "unrecognisedOperation" and when an Interpretation APDU encoded as "clearCallIfAnyInvokePduNotRecognised" had been received associated with the related APDU of type InvokePDU, requests GFT Control to send a Facility IE with the APDU of type RejectPDU having the "invokeID" element encoded as in the InvokePDU received and to clear the underlying call. (reference ETS 300 239 [1], subclause 8.1.2).

#### PC/CR/COTA/BV/TP2209

- Ensure that the IUT, when requested by GFT Control to send a Facility IE related to a call, either includes the Facility IE in one of the relevant messages which is to be sent, i.e. ALERTING, CONNECT, SETUP, PROGRESS, DISCONNECT, RELEASE or RELEASE COMPLETE, or sends a FACILITY message including the Facility IE (reference ETS 300 239 [1], subclause 7.1.1.1).

# 6.1.2 Test purposes end-use cross reference table

NOTE:

Table 7 indicates the applicability ("A" column) of a TP identified in the left hand column of any row, to a particular PINX role (i.e Transit, End), and also the status ("St" column) of any TP regarding its testability and its use in an uncombined or combined test purpose. A "Y" indication in the particular role column means that the TP is applicable to the PINX identified in the role, a "N" indicates that the TP is not applicable to that role. The "St" column in any particular role column indicates the status of the TP from the point of view of whether it is;

- "U" Untestable
- "O" Out of scope
- "T" Tested using only behaviour described in the TP
- "r" Tested using the behaviour described in the TP plus some additional behaviour (not other TP behaviour)
- "R" Tested using the behaviour described in the TP while testing any combined test purpose (CTP) of which it is part (R = Relies on other TP behaviour)

### **EXAMPLE 1**:

TP2210 is applicable to both End and Transit PINX ("Y" in both "A" columns), but is untestable ("U" in both "St" column) for End and Transit PINX (not possible to keep the IUT in state 6).

Draft prETS 300 806-1: July 1996

EXAMPLE 2: TP2011 is applicable to both End and Transit PINX ("Y" in both "A" columns). As

it is describing behaviour for an Originating PINX, it is out of scope ("O" in "St" column of End role) for testing the End PINX. However it can be tested for a Transit PINX behaviour, as the "R" in "St" column for Transit role, indicates that it "Relies" for testing as Transit PINX, on behaviour of other TPs in any combined TP (CTP) of which it is part, plus the behaviour described in TP2011.

EXAMPLE 3: TP2023 is applicable to both End and Transit PINX ("Y" in both "A" columns),

and it can be tested on its own for End and Transit behaviours ("T" in both "St"

columns).

EXAMPLE 4: TP2030 is applicable to End PINX ("Y" in "A" column of End role), it is not

applicable to Transit PINX ("N" in "A" column of Transit role). The "r" in "St" column for End role, indicates that it "relies" for testing as End PINX, on

additionnal behaviour plus the behaviour described in the TP.

Table 7: Test purposes end-use cross reference table for the transport of APDUs (call related)

TP	Eı	nd	Tra	nsit
	Α	St	Α	St
TP2209	Υ	R	Υ	R
TP2007	Υ	R	Υ	R
TP2008	Υ	0	Υ	r
TP2210	Υ	U	Υ	U
TP2211	Υ	r	Υ	r
TP2009	Υ	r	Υ	r
TP2010	Υ	r	Υ	r
TP2011	Y	0	Y	R
TP2012	Y	0	Y	R
TP2013	Υ	r	Υ	R
TP2014	Υ	U	Υ	R
TP2015	Υ	R	Υ	R
TP2016	Υ	U	Υ	R
TP2017	Υ	U	Υ	R
TP2018	Y	R	Y	R
TP2019	Υ	T	Υ	Т
TP2020	Υ	Т	Υ	Т
TP2021	Υ	0	Υ	r
TP2022	Υ	r	Υ	r
TP2023	Υ	Т	Υ	Т
TP2024	Y	R	Y	R
TP2025	Υ	R	N	
TP2026	Υ	R	N	
TP2027	Υ	R	N	
TP2028	Υ	R	N	
TP2029	Υ	R	N	
TP2030	Υ	r	N	
TP2031	Υ	r	N	
TP2032	Υ	R	N	
TP2033	N		Υ	R
TP2034	N		Υ	R
TP2035	N		Υ	R

	T
End	Transit
CP3020	CP3020
CP3007	CP3006,
	CP3016
-	TP2008
-	-
TP2211	TP2211
TP2009	TP2009
TP2010	TP2010
-	CP3001,
	CP3013
-	CP3002,
	CP3014
TP2013	CP3003
-	CP3069
CP3011	CP3005
-	CP3070
-	CP3071
CP3019,	CP3019,
CP3020,	CP3020,
CP3007,	CP3004,
CP3008,	CP3006,
CP3009,	CP3016,
CP3010,	CP3017
CP3012	
TP2019	TP2019
TP2020	TP2020
-	TP2021
TP2022	TP2022
TP2023	TP2023
CP3019,	CP3019,
CP3020	CP3020,
	CP3013
CP3007	-
CP3008	-
CP3012	-
CP3009	-
CP3010	-
TP2030	-
TP2031	-
CP3011	-
-	CP3016
-	CP3017
-	CP3001

TP2036	N		Υ	R
TP2037	N		Υ	R
TP2038	N		Υ	R
TP2039	N		Υ	R
TP2040	N		Υ	R
TP2041	N		Υ	r
TP2042	Υ	r	Υ	r
TP2212	Υ	r	Υ	r
TP2213	Υ	U	Υ	U
TP1068	N		Υ	Т
TP1069	N		Υ	Т
TP1070	N		Υ	Т
TP1071	N		Υ	Т
TP1072	N		Υ	R
TP1073	N		Υ	R
TP1074	N		Υ	R

-	CP3002
-	CP3003
-	CP3004
-	CP3005
-	CP3006
-	TP2041
TP2042	TP2042
TP2212	TP2212
-	-
-	TP1068
-	TP1069
-	TP1070
-	TP1071
-	CP3069
-	CP3070
-	CP3071

NOTE: the following TPs are indicated as untestable ("U")

#### TP2210:

End and Transit: it is not possible to keep the IUT in state 6 because it is unstable in this state.

#### TP2014:

End: on receiving a DISCONNECT message containing a Facility IE, the IUT will process the APDU via GFTC, but in parallel, the PC will send a RELEASE message and enter state 19. If the IUT enters state 19 before the APDU processing is completed, the only remaining way for an APDU to be sent is within a FACILITY message, which is forbidden to be sent in state 19. Therefore, it is not possible to test that the IUT has passed the IE to GFTC.

#### TP2016:

End: on receiving a RELEASE message containing a Facility IE, the IUT will process the APDU via GFTC, but in parallel, the PC will send a RELEASE COMPLETE message and enter state 0. If the IUT enters state 0 before the APDU processing is completed, the only remaining way for an APDU to be sent is within a FACILITY message, which is forbidden to be sent in state 0. Therefore, it is not possible to test that the IUT has passed the IE to GFTC.

#### TP2017:

End: on receiving a RELEASE COMPLETE message containing a Facility IE, the IUT will process the APDU via GFTC, but in parallel, the PC will enter state 0. If the IUT enters state 0 before the APDU processing is completed, the only remaining way for an APDU to be sent is within a FACILITY message, which is forbidden to be sent in state 0. Therefore, it is not possible to test that the IUT has passed the IE to GFTC.

#### TP2213:

End and Transit: it is not possible to check that there is no response to something wrongly coded.

Draft prETS 300 806-1: July 1996

# 6.2 Requirements for Call Independent Connection Oriented procedures for the transport of APDUs

# 6.2.1 Combined test purposes

GFP/CISC/COTA/BI/CP3022: TP2044; TP2146 Transit PINX

GFTC/CISC/COTA/BV/TP2146 (test of GFTC)

- Ensure that the IUT in the Transit\_connection\_idle state, on receiving from PC an indication of a received SETUP message containing a Called Party Number IE of another PINX to which a connection is possible, requests PC to send a SETUP message to the subsequent PINX (reference ETS 300 239 [1], subclause 7.3.3.2.1).

## PC/CISC/COTA/BI/TP2044 (test of PC)

- Ensure that the IUT in state 0, when requested by GFT Control to initiate a CISC, sends a SETUP message containing:
  - a Call Reference IE according to 14.3 of ETS 300 172 [2];
  - optionally a Sending Complete IE;
  - a Bearer Capability IE with Coding Standard field encoded as "Other international standard", Information Transfer Capability field encoded as "Unrestricted digital information", Transfer Mode field encoded as "Circuit mode" and Information Transfer Rate field encoded as "CISC";
  - a Channel Identification IE with Channel Selection field encoded as "No channel", Signalling Channel Indication field encoded as "Channel indicated is the signalling channel", and Preferred/exclusive field encoded as "exclusive":
  - a Called Party Number IE containing a number at least sufficient to identify a terminating PINX;
  - optionally a Calling Party Number IE containing a number at least sufficient to identify the originating PINX;
  - optionally one or more Facility IEs;
  - optionally a Transit Counter IE;

and enters state 1 (reference ETS 300 239 [1], subclause 7.3.1.1).

# GFP/CISC/COTA/BV/CP3023: TP2153; TP2049Transit PINX

GFTC/CISC/COTA/BV/TP2153 (test of GFTC)

- Ensure that the IUT in the Transit\_connection\_request state, on receiving from PC an indication of a received CONNECT message from the subsequent PINX, requests PC to send a CONNECT message to the preceding PINX and enters Transit\_connection\_active state (reference ETS 300 239 [1], subclause 7.3.3.2.2).

#### PC/CISC/COTA/BV/TP2049 (test of PC)

- Ensure that the IUT in state 9 for a CISC, when requested by GFT Control to indicate that the CISC is established, sends a CONNECT message and enters state 8 or state 10 (reference ETS 300 239 [1], subclause 7.3.1.3).

#### GFP/CISC/COTA/BV/CP3024: TP2157; TP2071 Transit PINX

GFTC/CISC/COTA/BV/TP2157 (test of GFTC)

Ensure that the IUT in state Transit\_connection\_active on receiving from PC an indication of a received FACILITY message containing a Facility IE including an NFE encoded as follows:

sourceEntity: "endPINX" sourceEntityAddress: (omitted)

detinationEntity: "endPINX" destinationEntityAddress: (omitted)

from the subsequent PINX, requests PC to send the same FACILITY message to the preceding PINX (reference ETS 300 239 [1], subclause 7.3.3.2.3).

#### PC/CISC/COTA/BV/TP2071

- Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to send a Facility IE when no RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1, 7.3.1.6 and 7.3.1.9).

#### GFP/CISC/COTA/BV/CP3025: TP2156; TP2056Transit PINX

### GFTC/CISC/COTA/BV/TP2156 (test of GFTC)

Ensure that the IUT in state Transit\_connection\_request on receiving from PC an indication of a received RELEASE message from the preceding PINX, requests PC to send a RELEASE message to the subsequent PINX and enters the Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.2).

# PC/CISC/COTA/BV/TP2056 (test of PC)

Ensure that the IUT in state 1 for a CISC, when requested by GFT Control to release the CISC, sends a RELEASE message containing a Cause IE with an appropriate Cause value and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.7).

# GFP/CISC/COTA/BV/CP3026: TP2159; TP2057Transit PINX

GFTC/CISC/COTA/BV/TP2159 (test of GFTC)

- Ensure that the IUT in state Transit\_connection\_active, on receiving from PC an indication of a received RELEASE message from the subsequent PINX requests PC to send a RELEASE message to the preceding PINX and enters Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.3).

#### PC/CISC/COTA/BV/TP2057 (test of PC)

- Ensure that the IUT in state 8 for a CISC, when requested by GFT Control to release the CISC, sends a RELEASE message containing a Cause IE with an appropriate Cause value and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.7).

# GFP/CISC/COTA/BV/CP3027: TP2160; TP2058 Transit PINX

GFTC/CISC/COTA/BV/TP2160 (test of GFTC)

- Ensure that the IUT in the Transit\_connection\_active state, on receiving from PC an indication of a received RELEASE message from the preceding PINX, requests PC to send a RELEASE message to the subsequent PINX and enters Transit\_connection\_idle state (reference ETS 300 239 [1], subclause 7.3.3.2.3).

#### PC/CISC/COTA/BV/TP2058 (test of PC)

- Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to release the CISC, sends a RELEASE message containing a Cause IE with an appropriate Cause value and enters state 19 (reference ETS 300 239 [1], subclause 7.3.1.7).

# GFP/CISC/COTA/MI/CP3044: TP2078; TP2231; TP2206; TP2199; TP2216 End and Transit PINX PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT, on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/BI/TP2231

- Ensure that the IUT, on receiving via PC a Facility IE not including an NFE, becomes the Destination PINX for that IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2).

## RO/P/TA/IV/TP2206 (test of ROSE)

- Ensure that the IUT on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 [1], subclause 8.2, CCITT Recommendation X.229 [9], subclauses 7.1.3.2 and 7.4.3.1).

Draft prETS 300 806-1: July 1996

#### CF/P/TA/IV/TP2199 (test of CF)

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU associated with a call with the element "problem" encoded as "unrecognisedOperation" and when an Interpretation APDU encoded as "clearCallIfAnyInvokePduNotRecognised" had been received associated with the related APDU of type InvokePDU, requests GFT Control to send a Facility IE with the APDU of type RejectPDU having the "invokeID" element encoded as in the InvokePDU received and to clear the underlying CISC. (reference ETS 300 239 [1], subclause 8.1.2).

#### PC/CISC/COTA/BV/TP2216

- Ensure that the IUT, when requested by GFT Control to send a Facility IE related to a CISC, either includes the Facility IE in one of the relevant messages which is to be sent, i.e. CONNECT, SETUP, RELEASE or RELEASE COMPLETE, or sends a FACILITY message including the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

# GFP/CISC/COTA/CA/CP3028: TP2074; ; TP2216 Transit PINX

PC/CISC/COTA/BV/TP2074 (test of PC)

- Ensure that the IUT, on receiving a CONNECT message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### PC/CISC/COTA/BV/TP2216

- Ensure that the IUT, when requested by GFT Control to send a Facility IE related to a CISC, either includes the Facility IE in one of the relevant messages which is to be sent, i.e. CONNECT, SETUP, RELEASE or RELEASE COMPLETE, or sends a FACILITY message including the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

# GFP/CISC/COTA/BV/CP3029: TP2075; TP2223; TP2216Transit PINX PC/CISC/COTA/BV/TP2075 (test of PC)

- Ensure that the IUT, on receiving a SETUP message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# GFTC/CISC/COTA/BV/TP2223 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and understanding the contents of this IE, either becomes the Destination PINX for that Facility IE and passes it to the Coordination Function, or passes that Facility IE unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### PC/CISC/COTA/BV/TP2216

- Ensure that the IUT, when requested by GFT Control to send a Facility IE related to a CISC, either includes the Facility IE in one of the relevant messages which is to be sent, i.e. CONNECT, SETUP, RELEASE or RELEASE COMPLETE, or sends a FACILITY message including the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1 and 7.3.1.9).

# GFP/CISC/COTA/BV/CP3032: TP2078; TP2158; TP2071 Transit PINX PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT, on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# GFTC/CISC/COTA/BV/TP2158 (test of GFTC)

 Ensure that the IUT in state Transit\_connection\_active on receiving from PC an indication of a received FACILITY message containing a Facility IE including an NFE encoded as follows:

sourceEntity: "endPINX" sourceEntityAddress: (omitted)

detinationEntity: "endPINX"

destinationEntityAddress: (omitted)

from the preceding PINX, requests PC to send the same FACILITY message to the subsequent PINX (reference ETS 300 239 [1], subclause 7.3.3.2.3).

#### PC/CISC/COTA/BV/TP2071 (test of PC)

- Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to send a Facility IE when no RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1, 7.3.1.6 and 7.3.1.9).

# GFP/CISC/COTA/MI/CP3033: TP2078; TP2232; TP2197; TP2206, TP2162, TP2071 End PINX PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

### GFTC/CISC/COTA/BV/TP2232 (test of GFTC)

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

#### CF/P/TA/IV/TP2197 (test of CF)

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with the element "problem" encoded as "unrecognisedOperation" and when no Interpretation APDU had been received associated with the related APDU of type InvokePDU, requests GFT Control to send a Facility IE with the APDU of type RejectPDU having the "invokeID" element encoded as in the InvokePDU received (reference ETS 300 239 [1], subclause 8.1.2).

### RO/P/TA/IV/TP2206 (test of ROSE)

Ensure that the IUT on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 [1], subclause 8.2, CCITT Recommendation X.229 [9], subclauses 7.1.3.2 and 7.4.3.1).

## GFTC/CISC/COTA/BV/TP2162 (test of GFTC)

- Ensure that the IUT in the Incoming\_connection\_active state, in order to transmit APDUs, requests PC to send a FACILITY message to the preceding PINX (reference ETS 300 239 [1], subclause 7.3.3.3.2).

#### PC/CISC/COTA/BV/TP2071 (test of PC)

- Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to send a Facility IE when no RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1, 7.3.1.6 and 7.3.1.9).

# GFP/CISC/COTA/MI/CP3045: TP2078;TP2222; TP2206, TP2196; TP2071 Transit PINX PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# GFTC/CISC/COTA/BV/TP2222 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.2).

Draft prETS 300 806-1: July 1996

#### RO/P/TA/IV/TP2206 (test of ROSE)

- Ensure that the IUT on receiving via CF an APDU of type InvokePDU with an unrecognised operation value, requests CF to send an APDU of type RejectPDU with the invokeID field encoded as in the incoming APDU and the "problem" field encoded as "unrecognisedOperation" (reference ETS 300 239 [1], subclause 8.2, CCITT Recommendation X.229 [9], subclauses 7.1.3.2 and 7.4.3.1).

#### CF/P/TA/IV/TP2196 (test of CF)

- Ensure that the IUT, on receiving from ROSE an APDU of type RejectPDU with the element "problem" encoded as "unrecognisedOperation" and when an Interpretation APDU encoded as "rejectUnrecognisedInvokePdu" had been received associated with the related APDU of type InvokePDU, requests GFT Control to send a Facility IE with the APDU of type RejectPDU having the "invokeID" element as in the InvokePDU received (reference ETS 300 239 [1], subclause 8.1.2).

### PC/CISC/COTA/BV/TP2071 (test of PC)

- Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to send a Facility IE when no RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses 7.1.1.1, 7.3.1.6 and 7.3.1.9).

# GFP/CISC/COTA/BV/CP3046: TP2078; TP2223Transit PINX

PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/BV/TP2223 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and understanding the contents of this IE, either becomes the Destination PINX for that Facility IE and passes it to the Coordination Function, or passes that Facility IE unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CISC/COTA/BV/CP3047: TP2074; TP2224Transit PINX PC/CISC/COTA/BV/TP2074 (test of PC)

- Ensure that the IUT, on receiving a CONNECT message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/BV/TP2224 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CISC/COTA/BV/CP3048: TP2074; TP2225 Transit PINX PC/CISC/COTA/BV/TP2074 (test of PC)

 Ensure that the IUT, on receiving a CONNECT message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/CA/TP2225 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CISC/COTA/BV/CP3049: TP2075; TP2226Transit PINX

PC/CISC/COTA/BV/TP2075 (test of PC)

- Ensure that the IUT, on receiving a SETUP message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# GFTC/CISC/COTA/BV/TP2226 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with no destinationEntityAddress element, and unable to become an End PINX for that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CISC/COTA/BV/CP3050: TP2078; TP2227 Transit PINX

PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/BV/TP2227(test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CISC/COTA/BV/CP3051: TP2075; TP2228Transit PINX PC/CISC/COTA/BV/TP2075 (test of PC)

- Ensure that the IUT, on receiving a SETUP message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

### GFTC/CISC/COTA/BV/TP2228 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element not matching its own address, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CISC/COTA/BI/CP3052: TP2078; TP2229; TP2071 Transit PINX PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

## GFTC/CISC/COTA/BV/TP2229 (test of GFTC)

Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE containing a ROSE APDU of type InvokePDU including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, and not understanding the contents of that Facility IE, passes it unchanged via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

#### PC/CISC/COTA/BV/TP2071 (test of PC)

- Ensure that the IUT in state 10 for a CISC, when requested by GFT Control to send a Facility IE when no RELEASE or RELEASE COMPLETE message is to be sent, sends a FACILITY message containing the Facility IE (reference ETS 300 239 [1], subclauses .1.1.1, 7.3.1.6 and 7.3.1.9).

Draft prETS 300 806-1: July 1996

# GFP/CISC/COTA/BV/CP3053: TP2078; TP2230 Transit PINX

PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

## GFTC/CISC/COTA/IV/TP2230 (test of GFTC)

- Ensure that the IUT as a Transit PINX for a CISC, on receiving via PC a Facility IE including an NFE not encoded or structured according to clause 11, discards the entire Facility IE, without passing it on via PC to the next PINX (reference ETS 300 239 [1], subclause 7.1.2.2.2).

# GFP/CISC/COTA/BV/CP3056: TP2078; TP2233 End PINX

PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT, on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/CA/TP2233

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with no destinationEntityAddress element, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CISC/COTA/BV/CP3057: TP2078; TP2234 End PINX

PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT, on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/BV/TP2234

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "anyTypeOfPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CISC/COTA/BV/CP3058: TP2078; TP2235 End PINX PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# GFTC/CISC/COTA/BV/TP2235

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CISC/COTA/BV/CP3059: TP2078; TP2236 End PINX PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT, on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/BV/TP2236

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC a Facility IE including an NFE with a destinationEntity element indicating "endPINX" and with a destinationEntityAddress element not matching its own address, becomes the Destination PINX for that Facility IE and passes it to the Coordination Function (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CISC/COTA/BV/CP3060: TP2078; TP2239 End PINX

PC/CISC/COTA/BV/TP2078 (test of PC)

- Ensure that the IUT on receiving a FACILITY message related to a CISC, and containing a Facility IE, passes that IE to GFT Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

#### GFTC/CISC/COTA/BV/TP2239

- Ensure that the IUT as an End PINX for a CISC, on receiving via PC two facility IEs from the same message, the first Facility IE including an NFE encoded as follows:

destinationEntity: "endPINX" destinationEntityAddress: (omitted)

and the second Facility IE including an NFE encoded as follows:

detinationEntity: "anyTypeOfPINX"

destinationEntityAddress: (not matching the address of the IUT)

becomes the Destination PINX for the first Facility IE and passes it to the Coordination Function, and discards the second Facility IE (reference ETS 300 239 [1], subclause 7.1.2.2.1).

# GFP/CISC/COTA/BV/CP3061: TP2254; TP2249 Transit and End PINX CF/TA/IV/TP2254

- Ensure that the IUT, on receiving from GFTC APDUs together with an indication of the protocol profile indicating neither 'ROSE", nor "ACSE" nor "DSE", discards all these APDUs (reference ETS 300 239 [1], subclause 8.1.2).

#### GFTC/CISC/COTA/IV/TP2249

- Ensure that the IUT, on receiving via PC a Facility IE, related to a CISC, with a Protocol Profile encoded as 00000, passes the APDUs to CF together with an indication of the protocol profile reflecting the contents of the Protocol Profile (reference ETS 300 239 [1], subclause 7.1.2.3).

# GFP/CISC/COTA/BV/CP3072: TP1077 and TP2076 Transit PINX PC/CISC/COTA/BV/TP1077

- Ensure that the IUT as a Transit PINX, in state Transit\_connection\_active, on receiving a RELEASE message on interface X, containing a Facility IE which is to be relayed, sends a RELEASE message on interface Y containing this Facility IE.

### PC/CISC/COTA/BV/TP2076

- Ensure that the IUT, on receiving a RELEASE message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

# GFP/CISC/COTA/BV/CP3073: TP1078 and TP2077 Transit PINX PC/CISC/COTA/BV/TP1078

- Ensure that the IUT as a Transit PINX, in state Transit\_connection\_active, on receiving a RELEASE COMPLETE message on interface Y, containing a Facility IE which is to be relayed, sends a RELEASE message on interface X containing this Facility IE.

# PC/CISC/COTA/BV/TP2077

Ensure that the IUT, on receiving a RELEASE COMPLETE message related to a CISC, and containing a Facility IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclauses 7.1.1.2 and 7.3.1.9).

Draft prETS 300 806-1: July 1996

#### 6.2.2 Test purposes end-use cross reference table

NOTE:

Table 8 indicates the applicability ("A" column) of a TP identified in the left hand column of any row, to a particular PINX role (i.e Transit, End), and also the status ("St" column) of any TP regarding its testability and its use in an uncombined or combined test purpose. A "Y" indication in the particular role column means that the TP is applicable to the PINX identified in the role, a "N" indicates that the TP is not applicable to that role. The "St" column in any particular role column indicates the status of the TP from the point of view of whether it is;

- "U" Untestable
- "O" Out of scope
- "T" Tested using only behaviour described in the TP
- "r" Tested using the behaviour described in the TP plus some additional behaviour (not other TP behaviour)
- "R" Tested using the behaviour described in the TP while testing any combined test purpose (CTP) of which it is part (R = Relies on other TP behaviour)

**EXAMPLE 1:** 

TP2049 is applicable to both End and Transit PINX ("Y" in both "A" columns), it is untestable ("U" in "St" column for End role) for an End PINX (not possible to provoke GFT Control to indicate that the CISC is established). The "R" in "St" column for Transit role, indicates that it "Relies" for testing as Transit PINX, on behaviour of other TPs in any combined TP (CTP) of which it is part, plus the behaviour described in TP2049.

**EXAMPLE 2**:

TP2088 is applicable to End and Transit PINX ("Y" in both "A" columns). As it is describing behaviour for an Originating PINX, it is out of scope ("O" in "St" column of End role) for testing the End PINX. However it can be tested on its own for a Transit PINX behaviour ("T" in "St" column of Transit role).

**EXAMPLE 3**:

TP2147 is applicable to Transit PINX ("Y" in "A" column of Transit role), it is not applicable to End PINX ("N" in "A" column of End role). The "r" in "St" column of Transit role indicates that it "relies" for testing a Transit PINX, on additional behaviour plus the behaviour described in the TP.

Table 8: Test purposes end-use cross reference table for transport of APDUs (CISC)

TP	E	nd	Tra	nsit
	Α	St	Α	St
TP2043	Υ	0	Υ	r
TP2044	Υ	0	Υ	R
TP2045	Υ	Т	Υ	Т
TP2046	Υ	0	Υ	Т
TP2047	Υ	0	Υ	Т
TP2048	Υ	0	Υ	Т
TP2049	Υ	U	Υ	R
TP2050	Υ	0	Υ	Т
TP2051	Υ	0	Υ	Т
TP2052	Υ	Т	Υ	Т
TP2053	Υ	Т	Υ	T
TP2055	Υ	T	Υ	T
TP2056	Υ	0	Υ	R
TP2057	Υ	U	Υ	R
TP2058	Υ	U	Υ	R
TP2059	Υ	0	Υ	Т
TP2060	Υ	Т	Υ	Т
TP2061	Υ	Т	Υ	Т
TP2062	Υ	0	Υ	Т
TP2214	Υ	0	Υ	Т
TP2215	Υ	Т	Υ	Т
TP2063	Υ	T	Y	Т
TP2064	Υ	Т	Υ	Т
TP2065	Υ	Т	Υ	Т
TP2066	Υ	Т	Υ	Т
TP2216	Y	R	Y	R
TP2071	Y	R	Y	R
TP2072	Υ	0	Υ	R
TP2217	Υ	U	Υ	U
TP2073	Υ	U	Υ	U
TP2218	Υ	U	Y	U
TP2074	Y	0	Υ	R
TP2075	Y	r	Y	R
TP2076	Υ	U	Υ	R
TP2077	Υ	U	Υ	R

End	Transit
-	TP2043
-	CP3022
TP2045	TP2045
-	TP2046
-	TP2047
-	TP2048
-	CP3023
-	TP2050
-	TP2051
TP2052	TP2052
TP2053	TP2053
TP2055	TP2055
-	CP3025
-	CP3026
-	CP3027
-	TP2059
TP2060	TP2060
TP2061	TP2061
-	TP2062
-	TP2214
TP2215	TP2215
TP2063	TP2063
TP2064	TP2064
TP2065	TP2065
TP2066	TP2066
CP3044	CP3044,
	CP3028,
	CP3029
CP3033	CP3024,
	CP3032,
	CP3045,
	CP3052
-	TP2072
-	-
-	-
-	-
-	CP3028,
	CP3047,
TDCCT	CP3048
TP2075	CP3029,
	CP3049,
	CP3051
	CP3072
	CP3073

		1	ı	
TP2078	Y	R	Y	R
TP2079	V	-	V	_
TP2079	Y	T	Y	T T
TP2080	Y	0	Y	
TP2082	Y	T 0	Y	T T
TP2083	Y	T	Y	Ť
TP2084	Y	T	Y	T
TP2085	Y	Ü	Y	T
TP2086	Y	T	Y	T
TP2087	Y	0	Y	T
TP2087	Y		Y	
	Y	O T	Y	T
TP2089	Y		Y	T
TP2090	Y	T	Y	
TP2091	1	T		T
TP2092	Y	0	Y	T
TP2093	Y	T	Υ	T
TP2094	Y	T	Υ	T
TP2095	Υ	T	Υ	T
TP2096	Υ	0	Υ	<u>T</u>
TP2097	Y	0	Υ	T
TP2098	Υ	0	Υ	T
TP2099	Υ	T	Υ	T
TP2100	Υ	T	Υ	T
TP2101	Υ	0	Υ	T
TP2102	Υ	T	Υ	T
TP2103	Υ	T	Υ	T
TP2104	Υ	0	Υ	T
TP2105	Υ	Т	Υ	Т
TP2106	Υ	0	Υ	T
TP2107	Υ	0	Υ	Т
TP2108	Υ	0	Υ	Т
TP2109	Υ	Т	Υ	Т
TP2110	Υ	T	Υ	Т
TP2111	Υ	0	Υ	T
TP2112	Υ	0	Υ	Т
TP2113	Υ	Т	Υ	Т
TP2114	Υ	Т	Υ	T
TP2115	Υ	Т	Υ	Т
TP2116	Υ	0	Υ	T
TP2117	Υ	T	Υ	T
TP2118	Υ	Т	Υ	T
TP2119	Υ	T	Υ	T
TP2120	Υ	0	Υ	T
TP2121	Υ	T	Υ	T
TP2122	Υ	0	Υ	T
TP2123	Υ	T	Υ	T
TP2124	Υ	T	Υ	T
TP2125	Υ	0	Υ	Т
TP2126	Υ	T	Υ	Т
TP2127	Υ	0	Υ	T
TP2128	Υ	0	Υ	T

CP3044,	CP3044,
CP3033,	CP3032,
	•
CP3054,	CP3045,
CP3056,	CP3046,
CP3057,	CP3050,
CP3058,	CP3052,
CP3059,	CP3053
1	GF 3033
CP3060	
TP2079	TP2079
-	TP2080
TP2081	TP2081
172001	
-	TP2082
TP2083	TP2083
TP2084	TP2084
11 2004	
-	TP2085
TP2086	TP2086
_	TP2087
-	TP2088
TP2089	TP2089
TP2090	TP2090
TP2091	TP2091
172091	
-	TP2092
TP2093	TP2093
TP2094	TP2094
TP2095	TP2095
-	TP2096
-	TP2097
	TP2098
TP2099	TP2099
TP2100	TP2100
_	TP2101
	_
TP2102	TP2102
TP2103	TP2103
_	TP2104
TP2105	TP2105
172103	
-	TP2106
_	TP2107
_	TP2108
TD0400	
TP2109	TP2109
TP2110	TP2110
_	TP2111
_	TP2112
TD0440	
TP2113	TP2113
TP2114	TP2114
TP2115	TP2115
	TP2116
TP2117	TP2117
TP2118	TP2118
TP2119	TP2119
11 2113	
•	TP2120
TP2121	TP2121
-	TP2122
TD2422	
TP2123	TP2123
TP2124	TP2124
-	TP2125
TP2126	TP2126
174140	_
-	TP2127
-	TP2128
<u> </u>	i

Page 72 Draft prETS 300 806-1: July 1996

TP2129 Y T Y T TP2130 Y O Y T TP2131 Y T Y T TP2132 Y T Y T TP2133 Y T Y T TP2133 Y T Y T TP2219 Y T Y T TP2219 Y T Y T TP2220 Y T Y T TP2221 Y T Y T TP2221 Y T Y T TP2134 Y O Y T TP2135 Y O Y T TP2136 Y T Y T TP2138 Y T Y T TP2138 Y T Y T TP2139 Y T Y T TP2139 Y T Y T TP2139 Y T Y T TP2140 Y T Y T TP2142 Y T Y T TP2142 Y T Y T TP2221 Y T Y T TP2221 Y T Y T TP2221 N Y R TP2222 N Y R TP2223 N Y R TP2224 N Y R TP2225 N Y R TP2226 N Y R TP2227 N Y R TP2228 N Y R TP2228 N Y R TP2229 N Y R TP2229 N Y R TP2220 N Y R TP22146 N Y R TP2146 N Y R TP2147 N Y T TP2148 N Y T TP2148 N Y T TP2149 N Y T TP2150 N Y R TP2150 N Y R TP2150 N Y R TP2150 N Y R TP2151 N Y R TP2151 N Y R TP2151 N Y R TP2151 N Y R TP2152 N Y R TP2153 N Y R TP2154 N Y R TP2155 N Y R TP2155 N Y R TP2156 N Y R TP2157 N Y R TP2158 N Y R TP2158 N Y R TP2159 N Y R TP2159 N Y R TP2150 N Y R TP2150 N Y R TP2151 N Y R TP2151 N Y R TP2151 N Y R TP2152 Y R N TP2153 N Y R TP2154 N Y R TP2155 N Y R TP2155 N Y R TP2156 N Y R TP2157 N Y R TP2158 N Y R TP2159 N Y R TP2159 N Y R TP2230 Y R N		1	1	1	
TP2132         Y         T         Y         T           TP2133         Y         T         Y         T           TP2219         Y         T         Y         T           TP2220         Y         T         Y         T           TP2134         Y         O         Y         T           TP2135         Y         O         Y         T           TP2136         Y         T         Y         T           TP2137         Y         T         Y         T           TP2138         Y         T         Y         T           TP2139         Y         T         Y         T           TP2140         Y         T         Y         T           TP2142         Y         T         Y         T           TP2143         Y         T         Y         T           TP2241         Y         T         Y         R           TP2221         N         Y         R         T           TP2221         N         Y         R         T           TP2222         N         Y         R         T	TP2129	Υ	Т	Υ	Т
TP2132         Y         T         Y         T           TP2133         Y         T         Y         T           TP2219         Y         T         Y         T           TP2220         Y         T         Y         T           TP2134         Y         O         Y         T           TP2135         Y         O         Y         T           TP2136         Y         T         Y         T           TP2137         Y         T         Y         T           TP2138         Y         T         Y         T           TP2139         Y         T         Y         T           TP2140         Y         T         Y         T           TP2142         Y         T         Y         T           TP2143         Y         T         Y         T           TP2241         Y         T         Y         R           TP2221         N         Y         R         T           TP2223         N         Y         R         T           TP2224         N         Y         R         T		Υ	0	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td></td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>		Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td></td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>		Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td></td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>		Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td>TP2219</td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>	TP2219	Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td>TP2220</td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>	TP2220	Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td>TP2221</td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>	TP2221	Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td>TP2134</td><td>Υ</td><td>0</td><td>Υ</td><td>Т</td></t<>	TP2134	Υ	0	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td>TP2135</td><td>Υ</td><td>0</td><td>Υ</td><td>Т</td></t<>	TP2135	Υ	0	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td>TP2136</td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>	TP2136	Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td></td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>		Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td>TP2138</td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>	TP2138	Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td></td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>		Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td></td><td>Υ</td><td>Т</td><td>Υ</td><td>Т</td></t<>		Υ	Т	Υ	Т
TP2143         Y         T         Y         R           TP2231         Y         R         Y         R           TP2222         N         Y         R           TP2223         N         Y         R           TP2224         N         Y         R           TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         R <t< td=""><td></td><td>Υ</td><td>Т</td><td>Y</td><td>Т</td></t<>		Υ	Т	Y	Т
TP2224 N Y R TP2225 N Y R TP2226 N Y R TP2227 N Y R TP2228 N Y R TP2229 N Y R TP2230 N Y R TP2146 N Y R TP2146 N Y R TP2147 N Y r TP2148 N Y r TP2149 N Y r TP2150 N Y r TP2150 N Y r TP2150 N Y r TP2151 N Y R TP2155 N Y R TP2156 N Y R TP2157 N Y R TP2158 N Y R TP2159 N Y R TP2159 N Y R TP2159 N Y R TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2230 Y R N TP2230 Y R N TP2231 Y R N TP2231 Y R N TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r	TP2143	Y	Т	Y	Т
TP2224 N Y R TP2225 N Y R TP2226 N Y R TP2227 N Y R TP2228 N Y R TP2229 N Y R TP2230 N Y R TP2146 N Y R TP2146 N Y R TP2147 N Y r TP2148 N Y r TP2149 N Y r TP2150 N Y r TP2150 N Y r TP2150 N Y r TP2151 N Y R TP2155 N Y R TP2156 N Y R TP2157 N Y R TP2158 N Y R TP2159 N Y R TP2159 N Y R TP2159 N Y R TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2230 Y R N TP2230 Y R N TP2231 Y R N TP2231 Y R N TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r	TP2231	Y		Y	R
TP2224 N Y R TP2225 N Y R TP2226 N Y R TP2227 N Y R TP2228 N Y R TP2229 N Y R TP2230 N Y R TP2146 N Y R TP2146 N Y R TP2147 N Y r TP2148 N Y r TP2149 N Y r TP2150 N Y r TP2150 N Y r TP2150 N Y r TP2151 N Y R TP2155 N Y R TP2156 N Y R TP2157 N Y R TP2158 N Y R TP2159 N Y R TP2159 N Y R TP2159 N Y R TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2230 Y R N TP2230 Y R N TP2231 Y R N TP2231 Y R N TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r				Y	R
TP2224 N Y R TP2225 N Y R TP2226 N Y R TP2227 N Y R TP2228 N Y R TP2229 N Y R TP2230 N Y R TP2146 N Y R TP2146 N Y R TP2147 N Y r TP2148 N Y r TP2149 N Y r TP2150 N Y r TP2150 N Y r TP2150 N Y r TP2151 N Y R TP2155 N Y R TP2156 N Y R TP2157 N Y R TP2158 N Y R TP2159 N Y R TP2159 N Y R TP2159 N Y R TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2230 Y R N TP2230 Y R N TP2231 Y R N TP2231 Y R N TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2238 Y r N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r				y	R
TP2225         N         Y         R           TP2226         N         Y         R           TP2227         N         Y         R           TP2228         N         Y         R           TP2229         N         Y         R           TP2230         N         Y         R           TP2146         N         Y         R           TP2147         N         Y         r           TP2148         N         Y         r           TP2149         N         Y         r           TP2149         N         Y         r           TP2150         N         Y         r           TP2153         N         Y         r           TP2154         N         Y         r           TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2159         N         Y         R           TP2230 <td< td=""><td>11 2220</td><td></td><td></td><td>•</td><td></td></td<>	11 2220			•	
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2224</td> <td>N</td> <td></td> <td>Υ</td> <td>R</td>	TP2224	N		Υ	R
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2225</td> <td>N</td> <td></td> <td>Υ</td> <td>R</td>	TP2225	N		Υ	R
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2226</td> <td>N</td> <td></td> <td>Υ</td> <td>R</td>	TP2226	N		Υ	R
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td></td> <td>N</td> <td></td> <td>Υ</td> <td>R</td>		N		Υ	R
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2228</td> <td></td> <td></td> <td>Υ</td> <td>R</td>	TP2228			Υ	R
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2229</td> <td></td> <td></td> <td>Υ</td> <td>R</td>	TP2229			Υ	R
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2230</td> <td></td> <td></td> <td>Υ</td> <td></td>	TP2230			Υ	
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2146</td> <td></td> <td></td> <td>Y</td> <td></td>	TP2146			Y	
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2147</td> <td></td> <td></td> <td>Y</td> <td></td>	TP2147			Y	
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2148</td> <td></td> <td></td> <td>Y</td> <td></td>	TP2148			Y	
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td></td> <td></td> <td></td> <td>Y</td> <td></td>				Y	
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td></td> <td></td> <td></td> <td>Y</td> <td></td>				Y	
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td>TP2153</td> <td></td> <td></td> <td>Y</td> <td>R</td>	TP2153			Y	R
TP2155         N         Y         r           TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U <td></td> <td></td> <td></td> <td>Y</td> <td></td>				Y	
TP2156         N         Y         R           TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U					
TP2157         N         Y         R           TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U					
TP2158         N         Y         R           TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         r           TP2251         Y         U         Y         U					
TP2159         N         Y         R           TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2164         Y         U         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         T           TP2251         Y         U         Y         U					
TP2160         N         Y         R           TP2232         Y         R         N           TP2233         Y         R         N           TP2234         Y         R         N           TP2235         Y         R         N           TP2236         Y         R         N           TP2237         Y         r         N           TP2238         Y         r         N           TP2239         Y         R         N           TP2161         Y         r         N           TP2162         Y         R         N           TP2163         Y         r         N           TP2164         Y         U         N           TP2249         Y         R         Y         R           TP2250         Y         r         Y         T         Y           TP2251         Y         U         Y         U	-				
TP2232 Y R N TP2233 Y R N TP2234 Y R N TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2233 Y R N TP2234 Y R N TP2235 Y R N TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U			P		11
TP2234 Y R N TP2235 Y R N TP2236 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2235 Y R N TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2236 Y R N TP2237 Y r N TP2238 Y r N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U	-				
TP2237 Y r N TP2238 Y r N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U	-				
TP2238 Y r N TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2239 Y R N TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U	-				
TP2161 Y r N TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2162 Y R N TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2163 Y r N TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U	-				
TP2164 Y U N TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2249 Y R Y R TP2250 Y r Y r TP2251 Y U Y U					
TP2250 Y r Y r TP2251 Y U Y U					
TP2251 Y U Y U					
TP1075   N			U		
	TP1075	N		Υ	T

r	
TP2129	TP2129
-	TP2130
TP2131	TP2131
TP2132	TP2132
TP2133	TP2133
TP2219	TP2219
TP2220	TP2220
TP2221	TP2221
-	TP2134
_	TP2135
TP2136	TP2136
TP2137	TP2137
TP2138	TP2138
TP2139	TP2139
TP2140	TP2140
TP2142	TP2142
TP2143	TP2143
CP3044	CP3044
-	CP3045
-	CP3046,
	CP3029
-	CP3047
-	CP3048
-	CP3049
-	CP3050
-	CP3051
_	CP3052
_	CP3053
_	CP3022
-	
-	TP2147
-	TP2148
-	TP2149
-	TP2150
-	CP3023
-	TP2154
-	TP2155
-	CP3025
-	CP3024
-	CP3032
-	CP3026
-	CP3027
CP3033	-
CP3056	-
CP3057	-
CP3058	-
CP3059	-
TP2237	_
TP2238	_
CP3060	_
TP2161	_
	-
CP3033	-
TP2163	-
-	-
CP3061	CP3061
TP2250	TP2250
-	-
-	TP1075

TP1076	N	Υ	T
TP1077	N	Υ	R
TP1078	N	Υ	R

-	TP1076
-	CP3072
-	CP3073

NOTE: the following TPs are indicated as untestable ("U")

TP2049:

End: it is not possible to provoke the GFTC to indicate that a CISC has been established.

TP2057:

End: it is not possible to provoke the GFTC to release a CISC.

TP2058:

End: it is not possible to provoke the GFTC to release a CISC.

TP2217:

End and Transit: it is not possible to keep the IUT in state 6 because it is unstable in this state.

TP2073:

End: it is not possible to provoke the GFTC to request PC to send a Facility IE while PC is in state 19.

Transit: on receiving a RELEASE message containing a Facility IE on the incoming side, the IUT will process the APDU via GFTC, but in parallel, the PC will send a RELEASE message on the outgoing side and enter state 19. If the APDU processing is completed before the IUT sends a RELEASE message, the IUT will include the APDU in the RELEASE message and enter state 19. Therefore it is not possible to test that it would have sent a FACILITY message if it had been in state 19 before the APDU processing is completed.

TP2218: idem TP2073

TP2076:

End: on receiving a RELEASE message containing a Facility IE, the IUT will process the APDU via GFTC, but in parallel, the PC will send a RELEASE COMPLETE message and enter state 0. If the IUT enters state 0 before the APDU processing is completed, the only remaining way for an APDU to be sent is within a FACILITY message, which is forbidden to be sent in state 0. Therefore, it is not possible to test that the IUT has passed the IE to GFTC.

TP2077:

End: on receiving a RELEASE COMPLETE message containing a Facility IE, the IUT will process the APDU via GFTC, but in parallel, the PC will enter state 0. If the IUT enters state 0 before the APDU processing is completed, the only remaining way for an APDU to be sent is within a FACILITY message, which is forbidden to be sent in state 0. Therefore, it is not possible to test that the IUT has passed the IE to GFTC.

TP2085:

End: it is not possible to check that a calling party number has been correctly received.

TP2164:

End: it is not possible to check that the IUT enters the Incoming\_Connection\_Idle state, as this is an internal GFTC state.

TP2251:

End and Transit: it is not possible to check that there is no response to something wrongly coded

## 6.3 Requirements for Call Related procedures for the transport of Notifications

## 6.3.1 Combined test purposes

GFP/CR/COTN/BV/CP3035: TP2179; TP2194; TP2167Transit PINX PC/CR/COTN/BV/TP2179 (test of PC)

- Ensure that the IUT, on receiving an ALERTING message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

GFTC/CR/COTN/CA/TP2194 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Subsequent PINX, sends a Notification Indicator IE via PC to the Preceding PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

#### PC/CR/COTN/BV/TP2167 (test of PC)

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when an ALERTING message is to be sent, either sends an ALERTING message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

# GFP/CR/COTN/BV/CP3036: TP2180; TP2194; TP2168 Transit PINX PC/CR/COTN/BV/TP2180 (test of PC)

- Ensure that the IUT, on receiving a CONNECT message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### GFTC/CR/COTN/CA/TP2194 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Subsequent PINX, sends a Notification Indicator IE via PC to the Preceding PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

# PC/CR/COTN/BV/TP2168 (test of PC)

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a CONNECT message is to be sent, either sends a CONNECT message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

# GFP/CR/COTN/BV/CP3037: TP2181; TP2193; TP2169 Transit PINX PC/CR/COTN/BV/TP2181 (test of PC)

- Ensure that the IUT, on receiving a SETUP message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

## GFTC/CR/COTN/BV/TP2193 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Preceding PINX, sends a Notification Indicator IE via PC to the Subsequent PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

### PC/CR/COTN/BV/TP2169 (test of PC)

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a SETUP message(except re-transmission) is to be sent, sends a SETUP message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

# GFP/CR/COTN/BV/CP3038: TP2170; TP2193; TP2182Transit PINX PC/CR/COTN/BV/TP2170 (test of PC)

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a DISCONNECT message is to be sent, either sends a DISCONNECT message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

## GFTC/CR/COTN/BV/TP2193 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Preceding PINX, sends a Notification Indicator IE via PC to the Subsequent PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

#### PC/CR/COTN/BV/TP2182 (test of PC)

- Ensure that the IUT, on receiving a DISCONNECT message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

# GFP/CR/COTN/BV/CP3039: TP2183; TP2194; TP2171Transit PINX PC/CR/COTN/BV/TP2183 (test of PC)

- Ensure that the IUT, on receiving a PROGRESS message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

#### GFTC/CR/COTN/CA/TP2194 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Subsequent PINX, sends a Notification Indicator IE via PC to the Preceding PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

Draft prETS 300 806-1: July 1996

#### PC/CR/COTN/BV/TP2171 (test of PC)

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a PROGRESS message is to be sent, either sends a PROGRESS message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

# GFP/CR/COTN/BV/CP3040: TP2184; TP2193; TP2172Transit PINX PC/CR/COTN/BV/TP2184 (test of PC)

- Ensure that the IUT, on receiving a FACILITY message related to a call and containing a Notification Indicator IE, passes that IE to GFT-Control (reference ETS 300 239 [1], subclause 7.4.2.2).

### GFTC/CR/COTN/BV/TP2193 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Preceding PINX, sends a Notification Indicator IE via PC to the Subsequent PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

#### PC/CR/COTN/BV/TP2172 (test of PC)

- Ensure that the IUT, when requested by GFT Control to send a notification related to a call when a FACILITY message is to be sent, either sends a FACILITY message containing a Notification Indicator IE or sends a NOTIFY message containing a Notification Indicator IE (reference ETS 300 239 [1], subclause 7.4.2.1).

# GFP/CR/COTN/BV/CP3041: TP2185; TP2193; TP2173Transit PINX PC/CR/COTN/CA/TP2185 (test of PC)

- Ensure that the IUT on receiving a NOTIFY message related to a call containing a Notification Indicator IE, passes that IE to GFT Control and remains in the same state.

#### GFTC/CR/COTN/BV/TP2193 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Preceding PINX, sends a Notification Indicator IE via PC to the Subsequent PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

#### PC/CR/COTN/BV/TP2173 (test of PC)

- Ensure that the IUT in state 3 for a call, when requested by GFT Control to send a notification related to that call when no DISCONNECT, or FACILITY message is to be sent, sends a NOTIFY message containing a Notification Indicator IE and remains in the same state (reference ETS 300 239 [1], subclause 7.4.2.1).

# GFP/CR/COTN/CA/CP3042: TP2185; TP2194; TP2174Transit PINX PC/CR/COTN/CA/TP2185 (test of PC)

- Ensure that the IUT on receiving a NOTIFY message related to a call containing a Notification Indicator IE, passes that IE to GFT Control and remains in the same state.

## GFTC/CR/COTN/CA/TP2194 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Subsequent PINX, sends a Notification Indicator IE via PC to the Preceding PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

#### PC/CR/COTN/CA/TP2174 (test of PC)

- Ensure that the IUT in state 10 for a call, when requested by GFT Control to send a notification related to that call when no PROGRESS, DISCONNECT, or FACILITY message is to be sent, sends a NOTIFY message containing a Notification Indicator IE and remains in the same state (reference ETS 300 239 [1], subclause 7.4.2.1).

# GFP/CR/COTN/BV/CP3043: TP2185; TP2193; TP2175Transit PINX PC/CR/COTN/CA/TP2185 (test of PC)

- Ensure that the IUT on receiving a NOTIFY message related to a call containing a Notification Indicator IE, passes that IE to GFT Control and remains in the same state.

# GFTC/CR/COTN/BV/TP2193 (test of GFTC)

- Ensure that the IUT as a Transit PINX, on receiving via PC a Notification Indicator IE from the Preceding PINX, sends a Notification Indicator IE via PC to the Subsequent PINX (reference ETS 300 239 [1], subclause 7.4.3.2).

## PC/CR/COTN/BV/TP2175 (test of PC)

- Ensure that the IUT in state 4 for a call, when requested by GFT Control to send a notification related to that call when no DISCONNECT, or FACILITY message is to be sent, sends a NOTIFY message containing a Notification Indicator IE and remains in the same state (reference ETS 300 239 [1], subclause 7.4.2.1).

#### 6.3.2 Test purposes end-use cross reference table

NOTE:

Table 9 indicates the applicability ("A" column) of a TP identified in the left hand column of any row, to a particular PINX role (i.e Transit, End), and also the status ("St" column) of any TP regarding its testability and its use in an uncombined or combined test purpose. A "Y" indication in the particular role column means that the TP is applicable to the PINX identified in the role, a "N" indicates that the TP is not applicable to that role. The "St" column in any particular role column indicates the status of the TP from the point of view of whether it is;

- "U" Untestable
- "O" Out of scope
- "T" Tested using only behaviour described in the TP
- "r" Tested using the behaviour described in the TP plus some additional behaviour (not other TP behaviour)
- "R" Tested using the behaviour described in the TP while testing any combined test purpose (CTP) of which it is part (R = Relies on other TP behaviour)

**EXAMPLE 1:** 

TP2177 is applicable to both End and Transit PINX ("Y" in both "A" columns), it is untestable ("U" in "St" column for End role) for an End PINX (not possible to stimulate the IUT to generate a NOTIFY message). The "r" in "St" column of Transit role indicates that it "relies" for testing a Transit PINX, on additional behaviour plus the behaviour described in the TP.

**EXAMPLE 2**:

TP2189 is applicable to End and Transit PINX ("Y" in both "A" columns). As it is describing behaviour for an Originating PINX, it is out of scope ("O" in "St" column of End role) for testing the End PINX. However it can be tested on its own for a Transit PINX behaviour ("T" in "St" column of Transit role).

**EXAMPLE 3:** 

TP2193 is applicable to Transit PINX ("Y" in "A" column of Transit role), it is not applicable to End PINX ("N" in "A" column of End role). The "R" in "St" column for Transit role, indicates that it "Relies" for testing as Transit PINX, on behaviour of other TPs in any combined TP (CTP) of which it is part, plus the behaviour described in TP2193.

Table 9: Test purposes end-use cross reference table for transport of Notifications

TP	End		Tra	nsit
	A St		Α	St
TP2167	Υ	U	Υ	R
TP2168	Υ	U	Υ	R
TP2169	Υ	0	Υ	R
TP2170	Υ	U	Υ	R
TP2171	Υ	U	Υ	R
TP2172	Υ	U	Υ	R
TP2173	Υ	0	Υ	R
TP2174	Υ	U	Υ	R
TP2175	Υ	0	Υ	R
TP2176	Υ	0	Υ	r
TP2177	Υ	U	Υ	r
TP2178	Υ	U	Υ	r
TP2179	Υ	0	Υ	R
TP2180	Υ	0	Υ	R
TP2181	Υ	U	Υ	R
TP2182	Υ	U	Υ	R
TP2183	Υ	U	Υ	R
TP2184	Υ	U	Υ	R
TP2185	Υ	U	Y	R
TP2186	Υ	Т	Υ	Т
TP2187	Υ	Т	Υ	Т
TP2188	Υ	Т	Υ	Т
TP2252	Υ	T	Υ	Т
TP2189	Υ	0	Υ	Т
TP2190	Υ	0	Υ	Т
TP2191	Υ	U	Υ	Т
TP2253	Υ	U	Υ	Т
TP2192	Υ	Т	Υ	Т
TP2193	N		Υ	R
TP2194	N		Y	R
TP2195	Υ	U	N	

End	Transit
Ena	Hallsit
-	CP3035
-	CP3036
-	CP3037
-	CP3038
-	CP3039
-	CP3040
-	CP3041
-	CP3042
-	CP3043
-	TP2176
-	TP2177
-	TP2178
-	CP3035
-	CP3036
-	CP3037
-	CP3038
-	CP3039
-	CP3040
-	CP3041,
	CP3042,
	CP3043
TP2186	TP2186
TP2187	TP2187
TP2188	TP2188
TP2252	TP2252
-	TP2189
-	TP2190
-	TP2191
-	TP2253
TP2192	TP2192
-	CP3037,
	CP3038,
	CP3040,
	CP3041,
	CP3043
-	CP3035,
	CP3036,
	CP3039,
	CP3042
-	-

NOTE: the following TPs are indicated as untestable ("U")

# TP2167:

End: It is not possible to provoke the GFTC to request PC to send a notification.

TP2168: idem TP2167 TP2170: idem TP2167 TP2171: idem TP2167 TP2172: idem TP2167 TP2174: idem TP2167 TP2177: idem TP2167 TP2178: idem TP2167

TP2181:

End: It is not possible to check that a Notification Indicator IE has been received.

Draft prETS 300 806-1: July 1996

TP2182: idem TP2181 TP2183: idem TP2181 TP2184: idem TP2181 TP2185: idem TP2181

TP2191:

End: It is not possible to check that a Notification Indicator IE has been ignored.

TP2253: idem TP2191

TP2195:

End: It is not possible to check what the user receives.

#### 6.4 Requirements for Application Layer

### 6.4.1 Combined test purposes

The combined TPs for Application Layer requirements are already listed in subclauses 6.1.1 and 6.2.1.

## 6.4.2 Test purposes end-use cross reference table

NOTE:

Table 10 indicates the applicability ("A" column) of a TP identified in the left hand column of any row, to a particular PINX role (i.e Transit, End), and also the status ("St" column) of any TP regarding its testability and its use in an uncombined or combined test purpose. A "Y" indication in the particular role column means that the TP is applicable to the PINX identified in the role, a "N" indicates that the TP is not applicable to that role. The "St" column in any particular role column indicates the status of the TP from the point of view of whether it is;

- "U" Untestable
- "O" Out of scope
- "T" Tested using only behaviour described in the TP
- "r" Tested using the behaviour described in the TP plus some additional behaviour (not other TP behaviour)
- "R" Tested using the behaviour described in the TP while testing any combined test purpose (CTP) of which it is part (R = Relies on other TP behaviour)

### **EXAMPLE 1:**

TP2088 is applicable to End and Transit PINX ("Y" in both "A" columns). As it is describing behaviour for an Originating PINX, it is out of scope ("O" in "St" column of End role) for testing the End PINX. However it can be tested on its own for a Transit PINX behaviour ("T" in "St" column of Transit role).

# EXAMPLE 2:

TP2177 is applicable to both End and Transit PINX ("Y" in both "A" columns), it is untestable ("U" in "St" column for End role) for an End PINX (not possible to stimulate the IUT to generate a NOTIFY message). The "r" in "St" column of Transit role indicates that it "relies" for testing a Transit PINX, on additional behaviour plus the behaviour described in the TP.

# **EXAMPLE 3**:

TP2032 is applicable to End PINX ("Y" in "A" column of End role), it is not applicable to Transit PINX ("N" in "A" column of Transit role). The "R" in "St" column for Transit role, indicates that it "Relies" for testing as Transit PINX, on behaviour of other TPs in any combined TP (CTP) of which it is part, plus the behaviour described in TP2032.

Table 10: test purposes end-use cross reference table for Application Layer

TP	End		Tra	nsit
	Α	St	Α	St
TP2196	Y	R	Y	R
TP2197	Y	R	Y	R
TP2198	Υ	R	Υ	R
TP2199	Υ	R	Υ	R
TP2200	Υ	r	Υ	r
TP2201	Υ	r	Υ	r
TP2254	Υ	R	Υ	R
TP2202	Υ	r	Υ	R
TP2203	Υ	r	Υ	r
TP2204	Υ	r	Υ	r
TP2205	Υ	r	Υ	r
TP2206	Y	R	Υ	R
TP2207	Υ	r	Υ	r
TP2208	Υ	r	Υ	r

End	Transit
CP3007,	CP3016
CP3045	
CP3019,	CP3019
CP3033	
CP3020	CP3020
CP3044	CP3044
TP2200	TP2200
TP2201	TP2201
CP3061	CP3061
TP2202	CP3014
TP2203	TP2203
TP2204	TP2204
TP2205	TP2205
CP3019,	CP3019,
CP3020,	CP3020,
CP3044,	CP3044,
CP3007,	CP3016,
CP3033	CP3045
TP2207	TP2207
TP2208	TP2208

# 7 Compliance clause

In order to comply with this ETS a Generic or Abstract Test Suite shall:

- a) correspond to a set of test cases, which, correspond to the set of test purposes specified in clause 6, or a subset thereof;
- b) use a test suite structure which is as defined in clause 4, or an appropriate subset thereof;
- c) use names for the test groups and test cases which are the same as, or derived from, the names of corresponding test groups and test purposes in this ETS;
- d) comply with ISO/IEC 9646 [5] parts 2 and 3.

NOTE: The only subsets of the test suite structure which should be used are those which give complete coverage for one or more profiles, if the ATS does not cover the entire protocol, or those which omit test purposes which are untestable in the chosen Abstract Test Method.

# Annex A (informative): Index of test purposes

This index indicates the page number on which each test purpose, super test purpose and combined test purpose is defined.

SP1002	20	SP1063	42	TP2049	27	TP2112	37	TP2177	49
SP1003	21	SP1064	45	TP2050	27	TP2113	37	TP2178	49
SP1004	21	SP1065	45	TP2051	27	TP2114	37		
								TP2179	49
SP1005	22	SP1067	47	TP2052	28	TP2115	37	TP2180	49
SP1006	22			TP2053	28	TP2116	37	TP2181	49
SP1007	23	TP1068	26	TP2055	28	TP2117	37	TP2182	49
SP1008	24	TP1069	26	TP2056	28	TP2118	37	TP2183	49
SP1009	28	TP1070	26	TP2057	28	TP2119	37	TP2184	50
SP1010	28	TP1071	26	TP2058	28	TP2120	38	TP2185	50
SP1012	30	TP1072	26						
				TP2059	28	TP2121	38	TP2186	50
SP1013	30	TP1073	26	TP2060	28	TP2122	38	TP2187	50
SP1014	31	TP1074	26	TP2061	29	TP2123	38	TP2188	50
SP1015	31	TP1075	47	TP2062	29	TP2124	38	TP2189	51
SP1016	31	TP1076	47	TP2063	29	TP2125	38	TP2190	51
SP1017	32	TP1077	47	TP2064	29	TP2126	38	TP2191	51
SP1018	32	TP1078	47	TP2065	29	TP2127	39	TP2192	51
SP1019									
	32	TP2007	20	TP2066	29	TP2128	39	TP2193	51
SP1020	32	TP2008	20	TP2071	30	TP2129	39	TP2194	51
SP1021	32	TP2009	20	TP2072	30	TP2130	39	TP2195	52
SP1022	32	TP2010	20	TP2073	30	TP2131	39	TP2196	52
SP1023	33	TP2011	21	TP2074	30	TP2132	40	TP2197	52
SP1024	33	TP2012	21	TP2075	30	TP2133	40	TP2198	52
SP1025	33	TP2013	21	TP2076	30	TP2134	41	TP2199	52
SP1026	33	TP2014	21	TP2077	30	TP2135	41	TP2200	
SP1020									53
	34	TP2015	21	TP2078	31	TP2136	41	TP2201	53
SP1028	34	TP2016	21	TP2079	31	TP2137	41	TP2202	53
SP1029	34	TP2017	21	TP2080	31	TP2138	41	TP2203	53
SP1030	35	TP2018	21	TP2081	31	TP2139	41	TP2204	53
SP1031	35	TP2019	21	TP2082	31	TP2140	41	TP2205	53
SP1032	35	TP2020	22	TP2083	31	TP2142	41	TP2206	53
SP1033	35	TP2021	22	TP2084	32	TP2143	41	TP2207	54
SP1034	36	TP2022	22	TP2085	32	TP2146	43	TP2208	54
SP1034 SP1035									
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SP1036	36	TP2024	22	TP2087	32	TP2148	43	TP2210	20
SP1037	36	TP2025	22	TP2088	32	TP2149	43	TP2211	20
SP1038	37	TP2026	23	TP2089	33	TP2150	43	TP2212	25
SP1039	37	TP2027	23	TP2090	33	TP2153	44	TP2213	25
SP1040	38	TP2028	23	TP2091	33	TP2154	44	TP2214	29
SP1041	38	TP2029	23	TP2092	33	TP2155	44	TP2215	29
SP1042	38	TP2030	23	TP2093	33	TP2156	44	TP2216	29
SP1043	39	TP2031	23	TP2093					
					33	TP2157	44	TP2217	30
SP1044	39	TP2032	23	TP2095	34	TP2158	44	TP2218	30
SP1045	39	TP2033	23	TP2096	34	TP2159	44	TP2219	40
SP1046	39	TP2034	24	TP2097	34	TP2160	45	TP2220	40
SP1047	40	TP2035	24	TP2098	34	TP2161	46	TP2221	40
SP1050	48	TP2036	24	TP2099	34	TP2162	46	TP2222	42
SP1051	48	TP2037	24	TP2100	34	TP2163	46	TP2223	42
SP1052	49	TP2038	24	TP2101	35	TP2164	46	TP2224	42
SP1053	50	TP2039	24	TP2102	35	TP2167	48	TP2225	42
SP1054									
	50	TP2040	24	TP2103	35	TP2168	48	TP2226	42
SP1055	52	TP2041	25	TP2104	35	TP2169	48	TP2227	42
SP1056	52	TP2042	25	TP2105	35	TP2170	48	TP2228	43
SP1057	53	TP2043	26	TP2106	36	TP2171	48	TP2229	43
SP1058	25	TP2044	26	TP2107	36	TP2172	48	TP2230	43
SP1059	29	TP2045	27	TP2108	36	TP2173	48	TP2231	42
SP1060	40	TP2046	27	TP2109	36	TP2174	49	TP2232	45
SP1061	40	TP2047	27	TP2110	36	TP2175	49	TP2233	45
SP1061	40	TP2047	27						
SF 1002	40	172040	۷1	TP2111	37	TP2176	49	TP2234	45

Page 81 Draft prETS 300 806-1: July 1996

TP2235 TP2236 TP2237 TP2238 TP2239 TP2249 TP2250 TP2251 TP2252 TP2253 TP2253	45 45 46 46 47 47 47 50 51	CP3004 CP3005 CP3006 CP3007 CP3008 CP3009 CP3010 CP3011 CP3012 CP3013 CP3014	56 56 57 57 58 58 58 59 59	CP3022 CP3023 CP3024 CP3025 CP3026 CP3027 CP3028 CP3029 CP3032 CP3033 CP3035	64 64 65 65 65 66 66 67 77 78	CP3040 CP3041 CP3042 CP3043 CP3044 CP3045 CP3046 CP3047 CP3048 CP3049 CP3050 CP3051	79 79 80 80 65 68 69 69 69 69	CP3057 CP3058 CP3059 CP3060 CP3061 CP3069 CP3070 CP3071 CP3072 CP3073	71 71 71 72 55 56 56 72 72
TP2254	53								
CP3001 CP3002 CP3003	55 55 55	CP3017 CP3019 CP3020	60 60 60	CP3037 CP3038 CP3039	78 79 79	CP3052 CP3053 CP3056	70 70 70		

Page 82 Draft prETS 300 806-1: August 1996

# History

Document history						
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