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European Standard (Telecommunications series)

Intelligent Network (IN);
Intelligent Network Capability Set 1 (CS1) extension;
Intelligent Network Application Protocol (INAP);
Part 2: Protocol Implementation Conformance
Statement (PICS) proforma specification

Reference

DEN/SPS-03053-2

Keywords

IN, INAP, ISDN, mobile, PICS

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Foreword

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

The present document is part 2 of a multi-part EN covering the IN Capability Set 1 (CS1) extension; Intelligent Network Application Protocol (INAP); Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase 2 as described below:

Part 1: "Protocol specification for Camel Phase 2";

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

NOTE: Further parts of the present document may be identified later.

National transposition dates	
Date of adoption of this EN:	7 July 2000
Date of latest announcement of this EN (doa):	31 October 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 April 2001
Date of withdrawal of any conflicting National Standard (dow):	30 April 2001

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for the core Intelligent Network Application Protocol (INAP) of Intelligent Network (IN) Capability Set 1 (CS1) defined in ETS 300 374-1 [2] extended by the Intelligent Network Application Protocol (INAP) of Intelligent Network (IN) Capability Set 1 (CS1) extension defined in EN 301 668-1 [1] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4].

ETS 300 374-2 [5] was taken as an editorial basis for the present document. Enhancements and modifications in respect to EN 301 668-1 [1] are covered by appropriate updates of existing tables or by new tables. For the CAMEL capability only a restricted subset of the protocol aspects of ETS 300 374-1 [2] is necessary. These restrictions are covered in the present document too.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies.

- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] ETSI EN 301 668-1 (V1.2): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1) extension; Intelligent Network Application Protocol (INAP); Part 1: Protocol specification for Camel Phase 2".

[2] ETSI ETS 300 374-1: "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".

[3] ISO/IEC 9646-1 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".

[4] ISO/IEC 9646-7 (1995): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 7: Implementation Conformance Statements".

[5] ETSI ETS 300 374-2: "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification for Service Switching Function (SSF), Specialized Resource Function (SRF) and Service Control Function (SCF)".

3 Definitions and abbreviations

3.1 Definitions

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

- terms defined in EN 301 668-1 [1];

- terms defined in ISO/IEC 9646-1 [3] and in ISO/IEC 9646-7 [4].

In particular, the following terms defined in ISO/IEC 9646-1 [3] apply:

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

Protocol ICS (PICS): ICS for an implementation or system claimed to conform to a given protocol specification.

3.2   Abbreviations

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

AC	Application Context
ASE	Application Service Element
BCSM	Basic Call State Model
CS1	Capability Set 1
ICS	Implementation Conformance Statement
IN	Intelligent Network
INAP	Intelligent Network Application Protocol
IP	Intelligent Peripheral
IUT	Implementation Under Test
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
SCF	Service Control Function
SCP	Service Control Point
SCS	System Conformance Statement
SRF	Specialized Resource Function
SSF	Service Switching Function
SSP	Service Switching Point
SUT	System Under Test

Within the present document the terms gsmSSF and SSF and the terms gsmSCF and SCF respectively are used synonymously.

4   Conformance

If it claims to conform to the present document, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in annex A, and shall preserve the numbering/naming and ordering of the proforma items.

A PICS which conforms to the present document shall be a conforming PICS proforma completed in accordance with the instructions for completion given in annex A, clause A.1.

Annex A (normative):
PICS proforma for core INAP CS1

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

A.1 Guidance for completing the PICS proforma

A.1.1 Purpose and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in EN 301 668-1 may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;

- identification of the implementation;

- identification of the protocol;

- PICS proforma tables;

- global statement of conformance;

- physical entities;

- external interfaces;

- application contexts;

- operations;

- arguments, results and errors;

- timers;

- range constants.

A.1.2 Symbols, abbreviations and terms

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7.

The table numbering is in accordance with ETS 300 374-1 and not continuous.

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Status column

The following notations, defined in ISO/IEC 9646-7, are used for the status column:

m	mandatory - the capability is required to be supported;
o	optional - the capability may be supported or not;
n/a	not applicable - in the given context, the capability cannot be used;
x	prohibited (excluded) - there is a requirement not to use this capability in the given context;
o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table;
ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF... THEN (IF... THEN... ELSE...) ELSE..." is used to avoid ambiguities.

Reference column

Entries in the reference column refer to subclauses of EN 301 668-1, except where explicitly stated otherwise. Since EN 301 668-1 is a delta document to ETS 300 374-1, clauses which are missing in EN 301 668-1 can be found in ETS 300 374-1.

NOTE: A reference indicates only the location of the most essential information about an item. All additional requirements contained in EN 301 668-1 have also to be taken into account when making a statement about the conformance of that particular item.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7, are used for the support column:

Y or y	supported by the implementation;
N or n	not supported by the implementation;
N/A, n/a or -	no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

NOTE: As stated in ISO/IEC 9646-7, support for a Protocol Data Unit (PDU) requires the ability to parse all valid parameters of that PDU. Supporting a PDU while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported.

If this PICS proforma is completed in order to describe a multiple-profile support in a system, it is necessary to be able to answer that a capability is supported for one profile and not supported for another. In that case, the supplier shall enter the unique reference to a conditional expression, preceded by "?" (e.g. ?3). This expression shall be given in the cell provided at the bottom of the table. It uses predicates defined in the System Conformance Statement (SCS), each of which refers to a single profile and which takes the value TRUE if and only if that profile is to be used.

EXAMPLE: ?3: IF prof1 THEN Y ELSE N.

It is further possible to provide comments to an answer at the bottom of each table.

Values allowed column

The values allowed column contains the values or the ranges of values allowed.

Values supported column

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.

References to items

For each possible item answer (answer in the support column) within the PICS proforma exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1:   A.5/4 is the reference to the answer of item 4 in table 5 of annex A.

EXAMPLE 2:   A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table 6 of annex A.

A.1.3   Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided using the notation described in subclause A.1.2.

Optional items in EN 301 668-1 are dealt with as follows:

- mandatory protocol items need to be supported by both operation invokers and responders;

- optional protocol items are optional for operation invokers, but mandatory for operation responders; they may be mandatory also for the operation invokers if required by the CAMEL capability;

- network specific options are optional for both operation invokers and responders.

Table A.1 gives an overview of this rule tabular form.

Table A.1

Protocol item	Invoke request	Invoke indication
Mandatory	m	m
Optional	o	m
Network option	o	o

As a general rule, the ASN.1 "CHOICE" construct is indicated in the parameter tables:

- as an option (o.x) in the "Invoke request" column;

- as mandatory in the "Invoke indication" column.

When a (ASN.1) parameter which contains a "SIZE" field is not explicitly constrained in a table, then the complete size field has to be supported.

A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

A.2.1 Date of the statement

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A.2.2 Implementation Under Test (IUT) identification

IUT name:

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IUT version:

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A.2.3 System Under Test (SUT) identification

SUT name:

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Hardware configuration:

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Operating system:

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A.2.4 Product supplier

Name:

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Address:

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Telephone number:

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Facsimile number:

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E-mail address:

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Additional information:

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A.2.5 Client

Name:

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Address:

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Telephone number:

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Facsimile number:

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E-mail address:

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Additional information:

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A.2.6 PICS contact person

Name:

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Telephone number:

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Facsimile number:

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E-mail address:

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Additional information:

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A.3   Identification of the protocol

This PICS proforma applies to the following standard.

EN 301 668-1: "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1) extension; Intelligent Network Application Protocol (INAP); Part 1: Protocol specification for Camel Phase 2".

That document is based on ETS 300 374-1: "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".

A.4   PICS proforma tables

An explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in subclause A.1.2.

A.4.1   Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No)   ....

   NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in this PICS, with an explanation of why the implementation is non-conforming, on pages attached to the PICS proforma.

A.4.2   Physical entities

Table A.2: Physical entities

Item	Name	Reference	Status	Support
1	SCP	4.2	n/a	
2	SSP	4.2	o.1	
3	IP	4.2	o.1	

o.1:   Only one of these items shall be supported per completed PICS response.

Comments:

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Table A.3: Capabilities

Item	Name	Reference	Status	Support
1	SSF-SRF-Relay-function	7.3.5	c301	
2	Assisting-SSP-capability	7.3.5 (note)	c302	
3	Support of North American Carrier related Information	6.3, 9; 8.15	c303	
NOTE:	See ETS 300 374-1, figure 25 cases c) and e).			

c301: IF A.2/2 THEN o ELSE n/a   -- SSP

c302: IF (A.2/2 AND A.3/1) THEN o ELSE n/a   -- SSP AND SSF-SRF-Relay-function

c303: IF (A.2/2 AND "SSP is North American.")   -- SSP and the SSP is North American

   THEN m ELSE n/a

Comments:

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A.4.3   External interfaces

Table A.4: External interfaces

Item	Name	Reference	Status	Support
1	SCF-SSF	(note)	c401	
2	SCF-SRF	(note)	c402	
NOTE:	It is assumed that the indicated external interfaces are between physical entities.			

c401: IF A.2/2 THEN m ELSE n/a   -- SSP

c402: IF A.2/3 THEN m ELSE n/a   -- IP

Comments:

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A.4.4   Application contexts

Table A.5: Application contexts

Item	Name	Reference	Initiator		Responder	
			Status	**Support**	**Status**	**Support**
1	Core-INAP-CS1-SSP-to-SCP-AC	6.5bis	n/a		n/a	
2	Core-INAP-CS1-assist-handoff-SSP-to-SCP-AC	6.5bis	n/a		n/a	
3	Core-INAP-CS1-IP-to-SCP-AC	6.5bis	n/a		n/a	
4	Core-INAP-CS1-SCP-to-SSP-AC	6.5bis	n/a		n/a	
5	Core-INAP-CS1-SCP-to-SSP-traffic-management-AC	6.5bis	n/a		n/a	
6	Core-INAP-CS1-SCP-to-SSP-service-management-AC	6.5bis	n/a		n/a	
7	Core-INAP-CS1-SSP-to-SCP-service-management-AC	6.5bis	n/a		n/a	
8	CAP-v2-gsmSSF-to-gsmSCF-AC	6.5bis	c501		n/a	
9	CAP-v2-assist-gsmSSF-to-gsmSCF-AC	6.5bis	c503		n/a	
10	CAP-v2-gsmSRF-to-gsmSCF-AC	6.5bis	c505		n/a	

c501: IF A.2/2 THEN m ELSE n/a   -- SSP

c503: IF A.3/2 THEN m ELSE n/a   -- Assisting-SSP-capability

c505: IF A.2/3 THEN m ELSE n/a   -- IP

Comments:

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A.4.5 Operations

Table A.6: Application Service Elements (ASEs)

Item	Name	Reference	Invoke-Req		Invoke-Ind	
			Status	Support	Status	Support
1	initialDP	6.1, 6.4, 9.19	c601		n/a	
2	assistRequestInstructions	6.1, 6.4, 9.5	c603		n/a	
3	establishTemporaryConnection	6.1, 6.4, 9.15	n/a		c601	
4	disconnectForwardConnection	6.1, 6.4, 9.14	n/a		c608	
5	connectToResource	6.1, 6.4, 9.12	n/a		c609	
6	connect	6.1, 6.4, 9.11	n/a		c601	
7	releaseCall	6.1, 6.4, 9.23	n/a		c601	
8	eventReportBCSM	6.1, 6.4, 9.17	c601		n/a	
9	requestReportBCSMEvent	6.1, 6.4, 9.25	n/a		c601	
10	eventNotificationCharging	6.1, 6.4, 9.16	n/a		n/a	
11	requestNotificationChargingEvent	6.1, 6.4, 9.24	n/a		n/a	
12	collectInformation	6.1, 6.4, 9.10	n/a		n/a	
13	continue	6.1, 6.4, 9.13	n/a		c601	
14	initiateCallAttempt	6.1, 6.4, 9.20	n/a		n/a	
15	resetTimer	6.1, 6.4, 9.26	n/a		c608	
16	furnishChargingInformation	6.1, 6.4, 9.18	n/a		c601	
17	applyChargingReport	6.1, 6.4, 9.4	c601		n/a	
18	applyCharging	6.1, 6.4, 9.3	n/a		c601	
19	callGap	6.1, 6.4, 9.6	n/a		n/a	
20	serviceFilteringResponse	6.1, 6.4, 9.28	n/a		n/a	
21	activateServiceFiltering	6.1, 6.4, 9.1	n/a		n/a	
22	callInformationReport	6.1, 6.4, 9.7	c601		n/a	
23	callInformationRequest	6.1, 6.4, 9.8	n/a		c601	
24	sendChargingInformation	6.1, 6.4, 9.27	n/a		c601	
25	specializedResourceReport	6.1, 6.4, 9.29	c619		n/a	
26	playAnnouncement	6.1, 6.4, 9.21	n/a		c619	
27	promptAndCollectUserInformation	6.1, 6.4, 9.22	n/a		c619	
28	cancel	6.1, 6.4, 9.9	n/a		c614	
29	activityTest	6.1, 6.4, 9.2	n/a		c614	

c601: IF A.5/8a THEN m ELSE n/a   -- SSP-to-SCP-AC_Initiator

c603: IF A.5/9a   -- assist-handoff-SSP-to-SCP-AC_Initiator

       OR A.5/10a THEN m ELSE n/a   -- IP-to-SCP-AC_Initiator

c608: IF A.5/8a   -- SSP-to-SCP-AC_Initiator

       OR A.5/9a THEN m ELSE n/a   -- assist-handoff-SSP-to-SCP-AC_Initiator

c609: IF (A.5/8a AND A.3/1)   -- SSP-to-SCP-AC_Initiator AND SSF-SRF-Relay-function

       OR A.5/9a THEN m ELSE n/a   -- assist-handoff-SSP-to-SCP-AC_Initiator

c614: IF A.5/8a   -- SSP-to-SCP-AC_Initiator

       OR A.5/9a   -- assist-handoff-SSP-to-SCP-AC_Initiator

       OR A.5/10a THEN m ELSE n/a   -- IP-to-SCP-AC_Initiator

c619: IF (A.5/8a AND A.3/1)   -- SSP-to-SCP-AC_Initiator AND SSF-SRF-Relay-function

       OR A.5/9a   -- assist-handoff-SSP-to-SCP-AC_Initiator

       OR A.5/10a THEN m ELSE n/a   -- IP-to-SCP-AC_Initiator

Comments:

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A.4.6   Arguments, results and errors

A.4.6.1   ActivateServiceFiltering

Not applicable for CAMEL.

A.4.6.2   ActivityTest

For the operation ActivityTest there are no invocation arguments, no result arguments and no errors.

Table A.7: Void

Table A.8: Void

A.4.6.3   ApplyCharging

Table A.9: ApplyCharging invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**aChBillingChargingCharacteristics**	6.3	n/a				c902			
2	timeDurationCharging	6.3	n/a				c914			
3	maxCallPeriodDuration	6.3	n/a				c910		1..864 000	
4	releaseIfdurationExceed	6.3	n/a				c910			
5	tone	6.3	n/a				c911			
6	extensions	6.3, 6.6	n/a				c912			
7	type-local Integer	6.3	n/a				n/a			
8	type-global OBJECT IDENTIFIER	6.3	n/a				c913			
9	criticality	6.3	n/a		0		c913		0	
10	value	6.3	n/a				c913			
11	tariffSwitchInterval	6.3	n/a				c910		1..86 400	
12	**sendCalculationToSCPIndication**	6.3	n/a		True		n/a		True	
13	**partyToCharge**	6.3	n/a		'01'H, '02'H		c902		'01'H, '02'H	
14	**extensions**	6.3, 6.6	n/a				c906			
15	type-local Integer	6.3	n/a				n/a			
16	type-global OBJECT IDENTIFIER	6.3	n/a				c915			
17	criticality	6.3	n/a		0		c915		0	
18	value	6.3	n/a				c915			

c902: IF A.6/18b THEN m ELSE n/a   -- ApplyCharging-Responder   c912:   If A.9/4b THEN o ELSE n/a

c906: IF A.6/18b THEN o ELSE n/a   -- ApplyCharging-Responder   c913:   If A.9/6b THEN m ELSE n/a

c908: IF A.9/14b THEN m ELSE n/a   c914:   IF A.9/1b THEN m ELSE n/a

c910: If A.9/2b THEN m ELSE n/a   c915:   IF A.9/14b THEN m ELSE n/a

c911: If A.9/4b THEN m ELSE n/a

Comments:

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Table A.10: ApplyCharging errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	c1001	
2	unexpectedComponentSequence	6.2	c1001	
3	unexpectedParameter	6.2	c1001	
4	unexpectedDataValue	6.2	c1001	
5	parameterOutOfRange	6.2	c1001	
6	systemFailure	6.2	c1001	
7	taskRefused	6.2	c1001	
8	unknownLegID	6.2	c1001	

c1001:   IF A.6/18b THEN o ELSE n/a   -- ApplyCharging-Responder

Comments:

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A.4.6.4   ApplyChargingReport

Table A.11: ApplyChargingReport invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**callResult**	6.3	c1101				n/a			
2	timeDurationChargingResult	6.3	c1103				n/a			
3	partyToCharge	6.3	c1104		'01'H, '02'H		n/a			
4	timeInformation	6.3	c1104				n/a			
5	timeIfNoTariffSwitch	6.3	c1106		0..864000		n/a			
6	timeIfTariffSwitch	6.3	c1106				n/a			
7	timeSinceTariffSwitch	6.3	c1107		0..864000		n/a			
8	tariffSwitchInterval	6.3	c1108		0..864000		n/a			
9	callActive	6.3	c1104				n/a			

c1101:   If A.6/17a THEN m ELSE n/a   -- ApplyChargingReport-Invoker   c1106:   If A.11/4a THEN m ELSE n/a

c1103: If A.11/1a THEN m ELSE n/a   c1107: If A.11/6a THEN m ELSE n/a

c1104: If A.11/2a THEN m ELSE n/a   c1108: If A.11/6a THEN o ELSE n/a

Comments:

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Table A.12: ApplyChargingReport errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	c1201	
2	unexpectedComponentSequence	6.2	c1201	
3	unexpectedParameter	6.2	c1201	
4	unexpectedDataValue	6.2	c1201	
5	parameterOutOfRange	6.2	c1201	
6	systemFailure	6.2	c1201	
7	taskRefused	6.2	c1201	

c1201: If A.6/17a THEN m ELSE n/a   -- ApplyChargingReport-Invoker

Comments:

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A.4.6.5   AssistRequestInstructions

Table A.13: AssistRequestInstructions invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**correlationID**	6.3	c1301				n/a			
2	**iPAvailable**	6.3	n/a				n/a			
3	**iPSSPCapabilities**	6.3	c1302				n/a			
4	**extensions**	6.3, 6.6	c1302				n/a			
5	type-local Integer	6.3	n/a				n/a			
6	type-global OBJECT IDENTIFIER	6.3	c1311				n/a			
7	criticality	6.3	c1313		0		n/a		0	
8	value	6.3	c1311				n/a			

c1301:   IF A.6/2a THEN m ELSE n/a   -- AssistRequestInstructions-Invoker   c1307:   IF A.13/4a THEN o ELSE n/a

c1302:   IF A.6/2a THEN o ELSE n/a   -- AssistRequestInstructions-Invoker   c1311:   IF A.13/4a THEN m ELSE n/a

c1305:   IF A.13/4a THEN m ELSE n/a   c1313:   IF A.13/4a THEN o ELSE n/a

Comments:

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Table A.14: AssistRequestInstructions errors

Item	Name	Reference	Status	Support
1	missingCustomerRecord	6.2	c1401	
2	missingParameter	6.2	c1401	
3	taskRefused	6.2	c1401	
4	unexpectedComponentSequence	6.2	c1401	
5	unexpectedDataValue	6.2	c1401	
6	unexpectedParameter	6.2	c1401	

c1401:   IF A.6/2a THEN m ELSE n/a   -- AssistRequestInstructions-Invoker

Comments:

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A.4.6.6   CallGap

Not applicable for CAMEL.

A.4.6.7 CallInformationReport

Table A.15: Void

Table A.16: CallInformationReport invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**requestedInformationList**	6.3 (note)	c1601				n/a			
2	**extensions**	6.3, 6.6	c1602				n/a			
3	type-local Integer	6.3	n/a				n/a			
4	type-global OBJECT IDENTIFIER	6.3	c1611				n/a			
5	criticality	6.3	c1613		0		n/a		0	
6	value	6.3	c1611				n/a			
7	**legID**	6.3	c1601		'01'H, '02'H		n/a		'01'H, '02'H	
NOTE:	As CallInformationReport is the response to a previous CallInformationRequest, the CallInformationReport-Invoker shall support all possible values of requestedInformationList (RequestedInformationType: 0..2, 30).									

c1601: IF A.6/22a THEN m ELSE n/a   -- CallInformationReport-Invoker   c1604:   IF A.16/2a THEN o ELSE n/a

c1602: IF A.6/22a THEN o ELSE n/a   -- CallInformationReport-Invoker   c1611:   IF A.16/2a THEN m ELSE n/a

c1603: IF A.16/2a THEN m ELSE n/a   c1613:   IF A.16/2a THEN o ELSE n/a

Comments:

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A.4.6.8   CallInformationRequest

Table A.17: CallInformationRequest invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**requestedInformationTypeList**	6.3	n/a		0..2, 30		c1705		0..2, 30	
2	**extensions**	6.3, 6.6	n/a				c1706			
3	type-local Integer	6.3	n/a				n/a			
4	type-global OBJECT IDENTIFIER	6.3	n/a				c1710			
5	criticality	6.3	n/a		0		c1710		0	
6	value	6.3	n/a				c1710			
7	**legID**	6.3	n/a		'01'H, '02'H		c1705		'01'H, '02'H	

c1705:   IF A.6/23b THEN m ELSE n/a   -- CallInformationRequest-Responder   c1710:   IF A.17/2b THEN m ELSE n/a

c1706:   IF A.6/23b THEN o ELSE n/a   -- CallInformationRequest-Responder

Comments:

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Table A.18: CallInformationRequest errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	c1801	
2	parameterOutOfRange	6.2	c1801	
3	requestedInfoError	6.2	c1801	
4	systemFailure	6.2	c1801	
5	taskRefused	6.2	c1801	
6	unexpectedComponentSequence	6.2	c1801	
7	unexpectedParameter	6.2	c1801	
8	unknownLegID	6.2	c1801	

c1801: IF A.6/23b THEN o ELSE n/a   -- CallInformationRequest-Responder

Comments:

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A.4.6.9   Cancel

Table A.19: Cancel invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**invokeID**	6.3	n/a		-128..127		c1902		-128..127	
2	**allRequests**	6.3	n/a				c1902			

c1902: IF A.6/28b THEN m ELSE n/a   -- Cancel-Responder

Comments:

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Table A.20: Cancel errors

Item	Name	Reference	Status	Support
1	cancelFailed	6.2	c2001	

c2001: IF A.6/28b THEN o ELSE n/a   -- Cancel-Responder

Comments:

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A.4.6.10 CollectInformation

Not applicable for CAMEL.

A.4.6.11 Connect

Table A.21: Void

Table A.22: Void

Table A.23: Connect invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**destinationRoutingAddress**	6.3	n/a				c2302			
2	**alertingPattern**	6.3	n/a				c2302			
3	**correlationID**	6.3	n/a				n/a			
4	**cutAndPaste**	6.3	n/a		0..22		n/a		0..22	
5	**originalCalledPartyID**	6.3	n/a				c2302			
6	**routeList**	6.3	n/a				n/a			
7	**scfID**	6.3	n/a				n/a			
8	**extensions**	6.3	n/a				**c2304**			
9	type-local Integer	6.3	n/a				n/a			
10	type-global OBJECT IDENTIFIER	6.3	n/a				c2306			
11	criticality	6.3	n/a		0		c2306		0	
12	value	6.3	n/a				c2306			
13	**serviceInteractionIndicators**	6.3	n/a				n/a			
14	**callingPartyNumber**	6.3	n/a				n/a			
15	**callingPartysCategory**	6.3	n/a				c2302			
16	**redirectingPartyID**	6.3	n/a				c2302			
17	**redirectionInformation**	6.3	n/a				c2302			
18	**genericNumbers**	6.3	n/a				c2302			
19	**suppressionOfAnnouncement**	6.3	n/a				c2302			
20	**oCSIApplicable**	6.3	n/a				c2302			
21	**na-Info**	6.3	n/a				c2308			
22	naCarrierInformation	6.3	n/a				c2309			
23	naCarrierId	6.3	n/a				c2310			
24	naCICSelectionType	6.3	n/a		'00'H.. '04'H		c2310		'00'H.. '04'H	
25	naOliInfo	6.3	n/a		as T1.113		c2309		as T1.113	
26	naChargeNumber	6.3	n/a		as T1.113		c2309		as T1.113	

c2302: IF A.6/6b THEN m ELSE n/a   -- Connect-Responder   c2308:   IF A.(6/6b AND A.3/3) THEN m ELSE n/a

c2304: IF A.6/6b THEN o ELSE n/a   -- Connect-Responder   c2309:   IF A.23/21b THEN m ELSE n/a

c2306: IF A.23/8b THEN m ELSE n/a   c2310:   IF A.23/22b THEN m ELSE n/a

Comments:

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Table A.24: Connect errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	o	
2	systemFailure	6.2	o	
3	taskRefused	6.2	o	
4	unexpectedComponentSequence	6.2	o	
5	unexpectedDataValue	6.2	o	
6	unexpectedParameter	6.2	o	

c2401: IF A.6/6b THEN o ELSE n/a   -- Connect-Responder

Comments:

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A.4.6.12 ConnectToResource

Table A.25: ConnectToResource invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	iPRoutingAddress	6.3	n/a				c2502			
2	none	6.3	n/a				c2502			
3	**extensions**	6.3, 6.6	n/a				c2504			
4	type-local Integer	6.3	n/a				n/a			
5	type-global OBJECT IDENTIFIER	6.3	n/a				c2510			
6	criticality	6.3	n/a		0		c2510		0	
7	value	6.3	n/a				c2510			
8	**serviceInteractionIndicators**	6.3	n/a				n/a			
9	**serviceInteractionIndicatorsTwo**	6.3, A.3	n/a				c2504			
10	bothwayThroughConnectionInd	6.3	n/a		0,1		c2508		0,1	

c2502: IF A.6/5b THEN o.1 ELSE n/a   -- ConnectToResource-Responder   c2508:   IF A.25/8b THEN m ELSE n/a

c2504: IF A.6/5b THEN o ELSE n/a   -- ConnectToResource-Responder   c2510:   IF A.25/3b THEN m ELSE n/a

c2506: IF A.25/3b THEN m ELSE n/a

o.1:   At least one of the options shall be supported; this deviates from the general rule as stated in A.1.3.

Comments:

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Table A.26: ConnectToResource errors

Item	Name	Reference	Status	Support
1	missingParameter	6.3	c2601	
2	systemFailure	6.3	c2601	
3	taskRefused	6.3	c2601	
4	unexpectedComponentSequence	6.3	c2601	
5	unexpectedDataValue	6.3	c2601	
6	unexpectedParameter	6.3	c2601	

c2601: IF A.6/5b THEN o ELSE n/a   -- ConnectToResource-Responder

Comments:

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A.4.6.13 Continue

For the operation Continue there are no invocation arguments, no results and no errors.

A.4.6.14 DisconnectForwardConnection

Table A.27: DisconnectForwardConnection errors

Item	Name	Reference	Status	Support
1	systemFailure	6.2	c2701	
2	taskRefused	6.2	c2701	
3	unexpectedComponentSequence	6.2	c2701	

c2701: IF A.6/4b THEN o ELSE n/a   -- DisconnectForwardConnection-Responder

Comments:

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A.4.6.15 EstablishTemporaryConnection

Table A.28: EstablishTemporaryConnection invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**assistingSSPIPRoutingAddress**	6.3	n/a				c2802			
2	**correlationID**	6.3	n/a				c2802			
3	**scfID**	6.3	n/a				c2802			
4	**extensions**	6.3, 6.6	n/a				c2804			
5	type-local Integer	6.3	n/a				n/a			
6	type-global OBJECT IDENTIFIER	6.3	n/a				c2810			
7	criticality	6.3	n/a		0		c2810		0	
8	value	6.3	n/a				c2810			
9	**serviceInteractionIndicators**	6.3	n/a				n/a			
10	**serviceInteractionIndicatorsTwo**	6.3	n/a				c2804			
11	bothwayThroughConnectionInd	6.3	n/a		0,1		c2809		0,1	
12	**na-Info**	6.3	n/a				c2811			
13	naCarrierInformation	6.3	n/a				c2812			
14	naCarrierId	6.3	n/a				c2813			
15	naCICSelectionType	6.3	n/a		'00'H.. '04'H		c2813		'00'H.. '04'H	
16	naOliInfo	6.3	n/a		as T1.113		c2812		as T1.113	
17	naChargeNumber	6.3	n/a		as T1.113		c2812		as T1.113	
	NOTE: The correlationID shall be encoded as BCD encoded generic digits.									

c2802: IF A.6/3b THEN m ELSE n/a   -- EstablishTemporaryConnection-Responder   c2810: IF A.28/10b THEN m ELSE n/a

c2804: IF A.6/3b THEN o ELSE n/a   -- EstablishTemporaryConnection-Responder   c2811: IF (A.6/6b AND A.3/3) THEN m ELSE n/a

c2806: IF A.28/4b THEN m ELSE n/a   c2812: IF A.28/12b THEN m ELSE n/a

c2809: IF A.28/10b THEN m ELSE n/a   c2813: IF A.28/13b THEN m ELSE n/a

Comments:

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Table A.29: EstablishTemporaryConnection errors

Item	Name	Reference	Status	Support
1	eTCFailed	6.2	c2901	
2	missingParameter	6.2	c2901	
3	systemFailure	6.2	c2901	
4	taskRefused	6.2	c2901	
5	unexpectedComponentSequence	6.2	c2901	
6	unexpectedDataValue	6.2	c2901	
7	unexpectedParameter	6.2	c2901	

c2901:   IF A.6/3b THEN o ELSE n/a   -- EstablishTemporaryConnection-Responder

Comments:

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A.4.6.16 EventNotificationCharging

Not applicable for CAMEL.

A.4.6.17 EventReportBCSM

Table A.30: Void

Table A.31: EventReportBCSM invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**eventTypeBCSM**	6.3	c3101		4,5,6,7,9,10, 13,14,15,17, 18		n/a		4,5,6,7,9,10, 13,14,15,17, 18	
2	**eventSpecificInformationBCSM**	6.3	c3103				n/a			
3	routeSelectFailureSpecificInfo	6.3	c3104				n/a			
4	failureCause		c3114				n/a			
5	oCalledPartyBusySpecificInfo	6.3	c3104				n/a			
6	busyCause		c3115				n/a			
7	oDisconnectSpecificInfo	6.3	c3104				n/a			
8	releaseCause		c3116				n/a			
9	tBusySpecificInfo	6.3	c3104				n/a			
10	busyCause		c3117				n/a			
11	callForwarded		c3117				n/a			
12	tNoAnswerSpecificInfo	6.3	c3104				n/a			
13	callForwarded		c3118				n/a			
14	tDisconnectSpecificInfo	6.3	c3104				n/a			
15	releaseCause		c3119				n/a			
16	**legID**	6.3	c3103		'01'H, '02'H		n/a		'01'H, '02'H	
17	**miscCallInfo**	6.3	c3103		0, 1 (note)		n/a		0, 1 (note)	
18	**extensions**	6.3, 6.6	c3103				n/a			
19	type-local Integer	6.3	n/a				n/a			
20	type-global OBJECT IDENTIFIER	6.3	c3111				n/a			
21	criticality	6.3	c3113		0		n/a		0	
22	value	6.3	c3111				n/a			
NOTE: DP10 and DP18 are only notification (1).										

c3101: IF A.6/8a THEN m ELSE n/a   -- EventReportBCSM-Invoker   c3115: IF A.31/5a THEN o ELSE n/a

c3103: IF A.6/8a THEN o ELSE n/a   -- EventReportBCSM-Invoker   c3116: IF A.31/7a THEN o ELSE n/a

c3104: IF A.31/2a THEN o.1 ELSE n/a   c3117: IF A.31/9a THEN o ELSE n/a

c3111: IF A.31/18a THEN m ELSE n/a   c3118: IF A.31/12a THEN o ELSE n/a

c3113: IF A.31/18a THEN o ELSE n/a   c3119: IF A.31/14a THEN o ELSE n/a

c3114: IF A.31/3a THEN o ELSE n/a

o.1:   At least one of the options shall be supported.

Comments:

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A.4.6.18 FurnishChargingInformation

Table A.32: FurnishChargingInformation invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**FCIBillingChargingCharacteristics**	6.3	n/a				c3202			
2	fCIBCCCAMELsequence1	6.3	n/a				c3203			
3	freeFormatData	6.3	n/a				c3204			
4	partyToCharge	6.3	n/a		'01'H, '02'H		c3204		'01'H, '02'H	

c3202: IF A.6/16b THEN m ELSE n/a -- FurnishChargingInformation-Responder   c3204: IF A.32/2b THEN m ELSE n/a

c3203: IF A.32/1b THEN m ELSE n/a

Comments:

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Table A.33: FurnishChargingInformation errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	c3301	
2	taskRefused	6.2	c3301	
3	unexpectedComponentSequence	6.2	c3301	
4	unexpectedDataValue	6.2	c3301	
5	unexpectedParameter	6.2	c3301	

c3301: IF A.6/16b THEN o ELSE n/a   -- FurnishChargingInformation-Responder

Comments:

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A.4.6.19 InitialDP

Table A.34: InitialDP invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**serviceKey**	6.3	c3401		$0..2^{31}-1$		n/a		$0..2^{31}-1$	
2	**calledPartyNumber**	6.3	c3401				n/a			
3	**callingPartyNumber**	6.3	c3401				n/a			
4	**callingPartysCategory**	6.3	c3401				n/a			
5	**cGEncountered**	6.3	n/a		1..2		n/a		1..2	
6	**iPSSPCapabilities**	6.3	c3402				n/a			
7	standard part	6.3	c3408				n/a			
8	bilateral part	6.3	c3409				n/a			
9	**iPAvailable**	6.3	n/a				n/a			
10	**locationNumber**	6.3	c3401				n/a			
11	**originalCalledPartyID**	6.3	c3401				n/a			
12	**extensions**	6.3, 6.6	c3402				n/a			
13	type-local Integer	6.3	n/a				n/a			
14	type-global OBJECT IDENTIFIER	6.3	c3405				n/a			
15	criticality	6.3	c3407		0		n/a		0	
16	value	6.3	c3405				n/a			

ETSI

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
17	**highLayerCompatibility**	6.3	c3401				n/a			
18	**serviceInteractionIndicators**	6.3	n/a				n/a			
19	**additionalCallingPartyNumber**	6.3	c3401				n/a			
20	**forwardCallIndicators**	6.3	n/a				n/a			
21	**bearerCapability**	6.3	c3401				n/a			
22	DSS1 encoding	6.3	n/a				n/a			
23	ISUP encoding	6.3	c3410				n/a			
24	**eventTypeBCSM**	6.3	c3401		2, 12		n/a		2, 12	
25	redirectingPartyID	6.3	c3401				n/a			
26	redirectionInformation	6.3	c3401				n/a			
27	**iMSI**	6.3	c3401				n/a			
28	**subscriberState**	6.3	c3401		(note)		n/a		(note)	
29	**locationInformation**	6.3	c3401				n/a			
30	**ext-basicServiceCode**	6.3	c3401				n/a			
31	**callReferenceNumber**	6.3	c3401				n/a			
32	**mscAddress**	6.3	c3401				n/a			
33	**calledPartyBCDNumber**	6.3	c3401				n/a			
34	**timeAndTimezone**	6.3	c3401				n/a			
35	**gsm-ForwardingPending**	6.3	c3401				n/a			
36	**initialDPArgExtension**	6.3	c3401				n/a			
37	naCarrierInformation	6.3	c3411				n/a			
38	naCarrierId	6.3	c3412				n/a			
39	naCICSelectionType	6.3	c3412				n/a			
40	**gmscAddress**	6.3	c3413				n/a			
NOTE:	Allowed values: camelBusy, assumedIdle, netDetNotReachable, notProvidedFromVLR.									

c3401: IF A.6/1a THEN m ELSE n/a   -- InitialDP-Invoker

c3402: IF A.6/1a THEN o ELSE n/a   -- InitialDP-Invoker

c3405: IF A.34/12a THEN m ELSE n/a

c3407: IF A.34/12a THEN o ELSE n/a

c3408: IF A.34/6a THEN m ELSE n/a

c3409: IF A.34/6a THEN o ELSE n/a

c3410: IF A.34/21a THEN m ELSE n/a

c3411: IF (A.34/36a AND A.3/3) THEN o ELSE n/a

c3412: IF A.34/37a THEN o ELSE n/a

c3413: IF A.34/36a THEN m ELSE n/a

Comments:

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Table A.35: InitialDP errors

Item	Name	Reference	Status	Support
1	missingCustomerRecord	6.2	c3501	
2	missingParameter	6.2	c3501	
3	systemFailure	6.2	c3501	
4	taskRefused	6.2	c3501	
5	unexpectedComponentSequence	6.2	c3501	
6	unexpectedDataValue	6.2	c3501	
7	unexpectedParameter	6.2	c3501	

c3501: IF A.6/1a THEN m ELSE n/a   -- InitialDP-Invoker

Comments:

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A.4.6.20 InitiateCallAttempt

Not applicable for CAMEL.

A.4.6.21 PlayAnnouncement

Table A.36: Void

Table A.37: Void

Table A.38: PlayAnnouncement invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**informationToSend**	6.3	n/a				c3802			
2	inbandInfo	6.3	n/a				c3804			
3	messageID	6.3	n/a				c3806			
4	elementaryMessageID	6.3	n/a		$0..2^{31}-1$		c3808		$0..2^{31}-1$	
5	text	6.3	n/a				c3808			
6	messageContent	6.3	n/a				c3810			
7	attributes	6.3	n/a				c3812			
8	elementaryMessageIDs	6.3	n/a				c3808			
9	variableMessage	6.3	n/a				c3808			
10	elementaryMessageID	6.3	n/a				c3825		$0..2^{31}-1$	
11	integer	6.3	n/a		$0..2^{31}-1$		c3814		$0..2^{31}-1$	
12	number	6.3	n/a				c3814			
13	time	6.3	n/a				c3814			
14	date	6.3	n/a				c3814			
15	price	6.3	n/a				c3814			
16	numberOfRepetitions	6.3	n/a		1..127		c3806		1..127	
17	duration	6.3	n/a		$0..2^{15}-1$		c3806		$0..2^{15}-1$	
18	interval	6.3	n/a		$0..2^{15}-1$		c3806		$0..2^{15}-1$	
19	tone	6.3	n/a				c3804			
20	toneID	6.3	n/a		$0..2^{31}-1$		c3818		$0..2^{31}-1$	
21	duration	6.3	n/a		$0..2^{31}-1$		c3818		$0..2^{31}-1$	
22	displayInformation	6.3	n/a				n/a			
23	**disconnectFromIPForbidden**	6.3	n/a		False, True		c3802		False, True	
24	**requestAnnouncementComplete**	6.3	n/a		False, True		c3802		False, True	
25	**extensions**	6.3, 6.6	n/a				c3821			
26	type-local Integer	6.3	n/a				n/a			
27	type-global OBJECT IDENTIFIER	6.3	n/a				c3826			
28	criticality	6.3	n/a		0		c3826		0	
29	value	6.3	n/a				c3826			

c3802: IF A.6/26b THEN m ELSE n/a   -- PlayAnnouncement-Responder

c3804: IF A.38/1b THEN o.1 ELSE n/a

c3806: IF A.38/2b THEN m ELSE n/a

c3808: IF A.38/3b THEN o.2 ELSE n/a

c3810: IF A.38/5b THEN m ELSE n/a

c3812: IF A.38/5b THEN o ELSE n/a

c3814: IF A.38/9b THEN o.3 ELSE n/a

c3818: IF A.38/19b THEN m ELSE n/a

c3821: IF A.6/27b THEN o ELSE n/a   -- PlayAnnouncement-Responder

c3823: IF A.38/25b THEN m ELSE n/a

c3825: IF A.38/9b THEN m ELSE n/a

c3826: IF A.38/25b THEN m ELSE n/a

o.1:   At least one of the indicated options shall be supported.

o.2:   At least one of the indicated options shall be supported; this deviates from the general rule as stated in A.1.3.

o.3:   At least one of the indicated options shall be supported; this deviates from the general rule as stated in A.1.3.

Comments:

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Table A.39: PlayAnnouncement errors

Item	Name	Reference	Status	Support
1	cancelled	6.2	c3901	
2	missingParameter	6.2	c3901	
3	systemFailure	6.2	c3901	
4	unavailableResource	6.2	c3901	
5	unexpectedComponentSequence	6.2	c3901	
6	unexpectedDataValue	6.2	c3901	
7	unexpectedParameter	6.2	c3901	

c3901:   IF A.6/26b THEN o ELSE n/a   -- PlayAnnouncement-Responder

Comments:

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A.4.6.22 PromptAndCollectUserInformation

Table A.40: PromptAndCollectUserInformation invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**collectedInfo**	6.3	n/a				c4002			
2	minimumNbOfDigits	6.3	n/a		1..16		c4027		1..16	
3	maximumNbOfDigits	6.3	n/a		1..16		c4004		1..16	
4	endOfReplyDigit	6.3	n/a		1..2 digits		c4027		1..2 digits	
5	cancelDigit	6.3	n/a		1..2 digits		c4027		1..2 digits	
6	startDigit	6.3	n/a		1..2 digits		c4027		1..2 digits	
7	firstDigitTimeOut	6.3	n/a		1..127		c4027		1..127	
8	interDigitTimeOut	6.3	n/a		1..127		c4027		1..127	
9	errorTreatment	6.3	n/a		0..2		c4027		0..2	
10	interruptableAnnInd	6.3	n/a		False, True		c4027		False, True	
11	voiceInformation	6.3	n/a		False, True		c4027		False, True	
12	voiceBack	6.3	n/a		False, True		c4027		False, True	
13	**disconnectFromIPForbidden**	6.3	n/a		False, True		c4002		False, True	
14	**informationToSend**	6.3	n/a				c4002			
15	inbandInfo	6.3	n/a				c4008			
16	messageID	6.3	n/a				c4010			
17	elementaryMessageID	6.3	n/a		$0..2^{31}-1$		c4012		$0..2^{31}-1$	
18	text	6.3	n/a				c4012			
19	messageContent	6.3	n/a				c4014			
20	attributes	6.3	n/a				c4016			
21	elementaryMessageIDs	6.3	n/a				c4012			
22	variableMessage	6.3	n/a				c4012			
23	elementaryMessageID	6.3	n/a				c4028		$0..2^{31}-1$	
24	integer	6.3	n/a		$0..2^{31}-1$		c4018		$0..2^{31}-1$	
25	number	6.3	n/a				c4018			
26	time	6.3	n/a				c4018			
27	date	6.3	n/a				c4018			
28	price	6.3	n/a				c4018			
29	numberOfRepetitions	6.3	n/a		1..127		c4010		1..127	
30	duration	6.3	n/a		$0..2^{15}-1$		c4010		$0..2^{15}-1$	
31	interval	6.3	n/a		$0..2^{15}-1$		c4010		$0..2^{15}-1$	
32	tone	6.3	n/a				c4008			
33	toneID	6.3	n/a		$0..2^{31}-1$		c4021		$0..2^{31}-1$	
34	duration	6.3	n/a		$0..2^{31}-1$		c4021		$0..2^{31}-1$	
35	displayInformation	6.3	n/a				n/a			
36	**extensions**	6.3, 6.6	n/a				c4023			
37	type-local Integer	6.3	n/a				n/a			

Item	Name	Reference	Invoke-Request					Invoke-Indication				
			Status	**Support**	**Value**			**Status**	**Support**	**Value**		
					Allowed	**Supported**				**Allowed**	**Supported**	
38	type-global OBJECT IDENTIFIER	6.3	n/a					c4029				
39	criticality	6.3	n/a		0			c4029		0		
40	value	6.3	n/a					c4029				

c4002: IF A.6/27b THEN m ELSE n/a -- PromptAndCollectUserInformation-Responder c4018: IF A.40/22b THEN o.3 ELSE n/a

c4004: IF A.40/1b THEN m ELSE n/a   c4021: IF A.40/32b THEN m ELSE n/a

c4008: IF A.40/14b THEN o.1 ELSE n/a   c4023: IF A.6/28b THEN o ELSE n/a -- PromptAndCollectUserInformation-Responder

c4010: IF A.40/15b THEN m ELSE n/a   c4025: IF A.40/36b THEN m ELSE n/a

c4012: IF A.40/16b THEN o.2 ELSE n/a   c4027: IF A.40/1b THEN o ELSE n/a

c4014: IF A.40/18b THEN m ELSE n/a   c4028: IF A.40/22b THEN m ELSE n/a

c4016: IF A.40/18b THEN o ELSE n/a   c4029: IF A.40/36b THEN m ELSE n/a

o.1:   At least one of the indicated options shall be supported.

o.2:   At least one of the indicated options shall be supported; this deviates from the general rule as stated in A.1.3.

o.3:   At least one of the indicated options shall be supported; this deviates from the general rule as stated in A.1.3.

Comments:

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Table A.41: PromptAndCollectUserInformation errors

Item	Name	Reference	Status	Support
1	cancelled	6.2	c4101	
2	improperCallerResponse	6.2	c4101	
3	missingParameter	6.2	c4101	
4	systemFailure	6.2	c4101	
5	taskRefused	6.2	c4101	
6	unavailableResource	6.2	c4101	
7	unexpectedComponentSequence	6.2	c4101	
8	unexpectedDataValue	6.2	c4101	
9	unexpectedParameter	6.2	c4101	

c4101:   IF A.6/27b THEN o ELSE n/a   -- PromptAndCollectUserInformation-Responder

Comments:

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A.4.6.23 ReleaseCall

For the operation ReleaseCall there are is only one mandatory invocation argument, there are no results and no errors, and therefore no table in the present document.

A.4.6.24 RequestNotificationChargingEvent

Not applicable for CAMEL.

A.4.6.25 RequestReportBCSMEvent

Table A.42: Void

Table A.43: Void

Table A.44: RequestReportBCSMEvent invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**bcsmEvents**	6.3	n/a				c4402			
2	eventTypeBCSM	6.3	n/a		4,5,6,7,9,10, 13,14,15,17, 18		c4402		4,5,6,7,9,10, 13,14,15,17, 18	
3	monitorMode	6.3	n/a		0..2 (note)		c4402		0..2 (note)	
4	legID	6.3	n/a				c4402			
5	sendingSideID	6.3	n/a		'01'H, '02'H		c4406		'01'H, '02'H	
6	dPSpecificCriteria	6.3	n/a				c4402			
7	numberOfDigits	6.3	n/a		1..255		n/a		1..255	
8	applicationTimer	6.3	n/a		0..2047		c4408		0..2047	
9	**extensions**	6.3, 6.6	n/a				c4404			
10	type-local Integer	6.3	n/a				n/a			
11	type-global OBJECT IDENTIFIER	6.3	n/a				c4410			
12	criticality	6.3	n/a		0		c4410		0	
13	value	6.3	n/a				c4410			
NOTE: DP10 and DP18 may be notifyAndContinue (1) only.										

c4402: IF A.6/9b THEN m ELSE n/a   -- RequestReportBCSMEvent-Responder   c4406: IF A.44/4b THEN m ELSE n/a

c4404: IF A.6/9b THEN o ELSE n/a   -- RequestReportBCSMEvent-Responder   c4408: IF A.44/6b THEN m ELSE n/a

c4405: IF A.44/4a THEN m ELSE n/a   c4410: IF A.44/9b THEN m ELSE n/a

Comments:

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Table A.45: RequestReportBCSMEvent errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	c4501	
2	systemFailure	6.2	c4501	
3	taskRefused	6.2	c4501	
4	unexpectedComponentSequence	6.2	c4501	
5	unexpectedDataValue	6.2	c4501	
6	unexpectedParameter	6.2	c4501	
7	unknownLegID	6.2	c4501	

c4501: IF A.6/9b THEN o ELSE n/a   -- RequestReportBCSMEvent-Responder

Comments:

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ETSI

A.4.6.26 ResetTimer

Table A.46: ResetTimer invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**timerID**	6.3	n/a		0		c4602		0	
2	**timervalue**	6.3	n/a		$0..2^{31}-1$		c4602		$0..2^{31}-1$	
3	**extensions**	6.3, 6.6	n/a				c4604			
4	type-local Integer	6.3	n/a				n/a			
5	type-global OBJECT IDENTIFIER	6.3	n/a				c4610			
6	criticality	6.3	n/a		0		c4610		0	
7	value	6.3	n/a				c4610			

c4602:   IF A.6/15b THEN m ELSE n/a   -- ResetTimer-Responder   c4606:   IF A.46/3b THEN m ELSE n/a

c4604:   IF A.6/15b THEN o ELSE n/a   -- ResetTimer-Responder   c4610:   IF A.46/3b THEN m ELSE n/a

Comments:

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Table A.47: ResetTimer errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	c4701	
2	taskRefused	6.2	c4701	
3	unexpectedComponentSequence	6.2	c4701	
4	unexpectedDataValue	6.2	c4701	
5	unexpectedParameter	6.2	c4701	

c4701:   IF A.6/15b THEN o ELSE n/a   -- ResetTimer-Responder

Comments:

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A.4.6.27 SendChargingInformation

Table A.48: SendChargingInformation invocation arguments

Item	Name	Reference	Invoke-Request				Invoke-Indication			
			Status	Support	Value		Status	Support	Value	
					Allowed	Supported			Allowed	Supported
1	**sCIBillingChargingCharacteristics**	6.3	n/a				c4802			
2	aOCBeforeAnswer	6.3	n/a				c4808			
3	aOCInitial	6.3	n/a				c4809			
4	CAI-GSM0224	6.3	n/a				c4810			
5	aOCSubsequent	6.3	n/a				c4809			
6	cAI-GSM0224	6.3	n/a				c4811			
7	CAI-GSM0224	6.3	n/a				c4812			
8	tariffSwitchInterval	6.3	n/a				c4811		1..86400	
9	aOCAfterAnswer	6.3	n/a				c4808			
10	cAI-GSM0224	6.3	n/a				c4813			
11	CAI-GSM0224	6.3	n/a				c4814			
12	tariffSwitchInterval	6.3	n/a				c4813		1..86400	
13	**partyToCharge**	6.3	n/a		'01'H		c4802		'01'H	
14	**extensions**	6.3, 6.6	n/a				c4804			
15	type-local Integer	6.3	n/a				n/a			
16	type-global OBJECT IDENTIFIER	6.3	n/a				c4815			
17	criticality	6.3	n/a		0		c4815		0	
18	value	6.3	n/a				c4815			

c4802: IF A.6/24b THEN m ELSE n/a   -- SendChargingInformation-Responder   c4811: IF A.48/5b THEN m ELSE n/a

c4804: IF A.6/24b THEN o ELSE n/a   -- SendChargingInformation-Responder   c4812: IF A.48/6b THEN m ELSE n/a

c4806: IF A.48/14b THEN m ELSE n/a   c4813: IF A.48/9b THEN m ELSE n/a

c4808: IF A.48/1b THEN m ELSE n/a   c4814: IF A.48/10b THEN m ELSE n/a

c4809: IF A.48/2b THEN m ELSE n/a   c4815: IF A.48/14b THEN m ELSE n/a

c4810: IF A.48/3b THEN m ELSE n/a

Comments:

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Table A.49: SendChargingInformation errors

Item	Name	Reference	Status	Support
1	missingParameter	6.2	c4901	
2	unexpectedComponentSequence	6.2	c4901	
3	unexpectedParameter	6.2	c4901	
4	parameterOutOfRange	6.2	c4901	
5	systemFailure	6.2	c4901	
6	taskRefused	6.2	c4901	
7	unknownLegID	6.2	c4901	

c4901:   IF A.6/24b THEN o ELSE n/a   -- SendChargingInformation-Responder

Comments:

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A.4.6.28 ServiceFilteringResponse

Not applicable for CAMEL.

A.4.6.29 SpecializedResourceReport

For the operation SpecializedResourceReport there is only a NULL invocation argument, there are no results and no errors, and therefore no table in this ETS.

A.4.7   Timers

Table A.50: Void

Table A.51: Operation timers

Item	Operation timer		Reference	Status	Values	
					allowed	**supported**
1	ActivateServiceFiltering	T_{asf}	6.1	n/a	1 - 60 s	
2	ActivityTest	T_{at}	6.1	n/a	1 - 20 s	
3	ApplyCharging	T_{ac}	6.1	n/a	1 - 10 s	
4	ApplyChargingReport	T_{acr}	6.1	c5104	1 - 10 s	
5	AssistRequestInstructions	T_{ari}	6.1	c5105	1 - 10 s	
6	CallGap	T_{cg}	6.1	n/a	1 - 10 s	
7	CallInformationReport	T_{cirp}	6.1	c5107	1 - 10 s	
8	CallInformationRequest	T_{cirq}	6.1	n/a	1 - 10 s	
9	Cancel	T_{can}	6.1	n/a	1 - 10 s	
10	CollectInformation	T_{ci}	6.1	n/a	1 - 60 s	
11	Connect	T_{con}	6.1	n/a	1 - 20 s	
12	ConnectToResource	T_{ctr}	6.1	n/a	1 - 10 s	
13	Continue	T_{cue}	6.1	n/a	1 - 20 s	
14	DisconnectForwardConnection	T_{dfc}	6.1	n/a	1 - 10 s	
15	EstablishTemporaryConnection	T_{etc}	6.1	n/a	1 - 60 s	
16	EventNotificationCharging	T_{enc}	6.1	n/a	1 - 10 s	
17	EventReportBCSM	T_{erb}	6.1	c5117	1 - 20 s	
18	FurnishChargingInformation	T_{fci}	6.1	n/a	1 - 10 s	
19	InitialDP	T_{idp}	6.1	c5119	1 - 20 s	
20	InitiateCallAttempt	T_{ica}	6.1	n/a	1 - 10 s	
21	ReleaseCall	T_{rc}	6.1	n/a	1 - 20 s	
22	RequestNotificationChargingEvent	T_{rnc}	6.1	n/a	1 - 10 s	
23	RequestReportBCSMEvent	T_{rrb}	6.1	n/a	1 - 20 s	
24	ResetTimer	T_{rt}	6.1	n/a	1 - 10 s	
27	SendChargingInformation	T_{sci}	6.1	n/a	1 - 10 s	
28	ServiceFilteringResponse	T_{sfr}	6.1	n/a	1 - 10 s	
29	PlayAnnouncement	T_{pa}	6.1	n/a	1 - 1800 s	
30	PromptAndCollectUserInformation	T_{pc}	6.1	n/a	1 - 1800 s	
31	SpecializedResourceReport	T_{srr}	6.1	c5131	1 - 10 s	

c5104:   IF A.6/17a THEN m ELSE n/a   -- ApplyChargingReport-Invoker

c5105:   IF A.6/2a THEN m ELSE n/a   -- AssistRequestInstructions-Invoker

c5107:   IF A.6/22a THEN m ELSE n/a   -- CallInformationReport-Invoker

c5117:   IF A.6/8a THEN m ELSE n/a   -- EventReportBCSM-Invoker

c5119:   IF A.6/1a THEN m ELSE n/a   -- InitialDP-Invoker

c5131:   IF A.6/25a THEN m ELSE n/a   -- SpecializedResourceReport-Invoker

Comments:

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Table A.52: Timers

Item	Timer	Reference	Status	Values	
				allowed	supported
1	T_{SSF} after sending InitialDP	7.1.5 7.1.5.3	c5201	(note)	
2	T_{SSF} after sending AssistRequestInstructions	7.1.5 7.1.6.2	c5202	(note)	
3	T_{SSF} after entering state "Waiting for Instructions"	7.1.5 7.1.5.3	c5201	(note)	
4	T_{SSF} after entering state "Waiting for End of User Interaction"	7.1.5 7.1.5.4	c5202	(note)	
5	$T_{SCF-SSF}$ after receiving InitialDP	7.2.5 7.2.5.2	n/a	< 52/1	
6	$T_{SCF-SSF}$ after receiving AssistRequestInstructions	7.2.5 7.2.5.2	n/a	< 52/2	
7	$T_{SCF-SSF}$ after entering state 2.2.2 "Queueing FSM"	7.2.5 7.2.5.2.2.2	n/a	< 52/3	
8	$T_{SCF-SSF}$ after entering state 3.2 "Waiting for Assist Request Instructions"	7.2.5 7.2.5.3.2	n/a	< 52/4	
9	$T_{Assist/Hand-Off}$	7.2.5	n/a	(note)	
10	T_{SRF}	7.3.4	c5206	(note)	
11	$T_{ActTest}$	7.2.5	n/a	(note)	
NOTE:	EN 301 668-1 and ETS 300 374-1 do not indicate the allowed values, so the implementor shall indicate the supported values.				

c5201:   IF A.2/2 THEN m ELSE n/a   -- SSP

c5202:   IF (A.2/2 AND A.3/2) THEN m ELSE n/a   -- SSP AND Assisting-SSP-capability

c5206:   IF A.2/3 THEN m ELSE n/a   -- IP

Comments:

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A.4.8 Range constants

Table A.53: Range constants

Item	Name	Reference	Status	Support	Values allowed	supported
1	minAChBillingChargingLength	6.3	c5301		5	
2	maxAChBillingChargingLength	6.3	c5301		177	
3	minAttributesLength	6.3	c5326		2	
4	maxAttributesLength	6.3	c5326		10	
5	maxBearerCapabilityLength	6.3	c5302		11	
6	minCalledPartyBCDNumberLength	6.3	c5329		1	
7	maxCalledPartyBCDNumberLength	6.3	c5329		41	
8	minCalledPartyNumberLength	6.3	c5303		3	
9	maxCalledPartyNumberLength	6.3	c5303		12	
10	minCallingPartyNumberLength	6.3	c5304		2	
11	maxCallingPartyNumberLength	6.3	c5304		10	
12	minCallResultLength	6.3	c5305		12	
13	maxCallResultLength	6.3	c5305		24	
14	minCauseLength	6.3	c5306		2	
15	maxCauseLength	6.3	c5306		2	
16	minDigitsLength	6.3	c5307		2	
17	maxDigitsLength	6.3	c5307		11	
18	minDisplayInformationLength	6.3	n/a			
19	maxDisplayInformationLength	6.3	n/a			
20	minEventSpecificInformationChargingLength	6.3	n/a			
21	maxEventSpecificInformationChargingLength	6.3	n/a			
22	minEventTypeChargingLength	6.3	n/a			
23	maxEventTypeChargingLength	6.3	n/a			
24	minFCIBillingChargingLength	6.3	c5311		5	
25	maxFCIBillingChargingLength	6.3	c5311		49	
26	minFCIBillingChargingDataLength	6.3	c5311		1	
27	maxFCIBillingChargingDataLength	6.3	c5311		40	
28	minGenericNumberLength	6.3	c5328		3	
29	maxGenericNumberLength	6.3	c5328		11	
30	minIPAvailableLength	6.3	n/a			
31	maxIPAvailableLength	6.3	n/a			
32	minIPSSPCapabilitiesLength	6.3	c5313		1	
33	maxIPSSPCapabilitiesLength	6.3	c5313		4	
34	minLocationNumberLength	6.3	c5314		2	
35	maxLocationNumberLength	6.3	c5314		10	
36	minMessageContentLength	6.3	c5315		1	
37	maxMessageContentLength	6.3	c5315		127	
38	minOriginalCalledPartyIDLength	6.3	c5316		2	
39	maxOriginalCalledPartyIDLength	6.3	c5316		10	
40	minRedirectingPartyIDLength	6.3	c5317		2	
41	maxRedirectingPartyIDLength	6.3	c5317		10	
42	minRouteListLength	6.3	n/a			
43	maxRouteListLength	6.3	n/a			
44	minScfIDLength	6.3	c5319		2	
45	maxScfIDLength	6.3	c5319		10	
46	minSCIBillingChargingLength	6.3	c5320		4	
47	maxSCIBillingChargingLength	6.3	c5320		69	
48	minServiceInteractionIndicatorsLength	6.3	n/a			
49	maxServiceInteractionIndicatorsLength	6.3	n/a			
50	minSFBillingChargingLength	6.3	n/a			
51	maxSFBillingChargingLength	6.3	n/a			
52	minTimeAndTimezoneLength	6.3	c5327		8	
53	maxTimeAndTimezoneLength	6.3	c5327		8	
54	numOfBCSMEvents	6.3	c5323		10	
55	numOfChargingEvents	6.3	n/a			
56	numOfExtensions	6.3	c5325		10	
57	numOfInfoItems	6.3	c5330		4	
58	numOfMessageIDs	6.3	c5331		5	

Item	Name	Reference	Status	Support	Values	
					allowed	supported
59	numOfGenericNumbers	6.3	c5328		5	

c5301:   IF A.6/18 THEN m ELSE n/a   -- applyCharging

c5302:   IF A.34/21 THEN m ELSE n/a   -- bearerCapability

c5303:   IF A.34/2   -- calledPartyNumber

      OR A.6/6   -- connect

      OR A.31/2   -- eventSpecificInformationBCSM

      OR A.6/5 THEN m ELSE n/a   -- connectToResource

c5304:   IF A.23/14   -- callingPartyNumber

      OR A.34/3 THEN m ELSE n/a   -- callingPartyNumber

c5305:   IF A.6/17 THEN m ELSE n/a   -- applyChargingReport

c5306:   IF A.6/7   -- releaseCall

      ORA.6/22   -- callInformationReport

      OR A.31/2 THEN m ELSE n/a   -- eventSpecificInformationBCSM

c5307:   IF A.34/19 THEN m ELSE n/a   -- additionalCallingPartyNumber

c5311:   IF A.6/16 THEN m ELSE n/a   -- furnishChargingInformation

c5313:   IF A.13/3   -- iPSSPCapabilities

      OR A.34/6 THEN m ELSE n/a   -- iPSSPCapabilities

c5314:   IF A.34/10 THEN m ELSE n/a   -- locationNumber

c5315:   IF A.38/6   -- messageContent

      OR A.40/19 THEN m ELSE n/a   -- messageContent

c5316:   IF A.23/5   -- originalCalledPartyID

      OR A.34/11 THEN m ELSE n/a   -- originalCalledPartyID

c5317:   IF A.23/16   -- redirectingPartyID

      OR A.34/25 THEN m ELSE n/a   -- redirectingPartyID

c5319:   IF A.23/7   -- scfID

      OR A.28/3 THEN m ELSE n/a   -- scfID

c5320:   IF A.6/24 THEN m ELSE n/a   -- sendChargingInformation

c5323:   IF A.6/9 THEN m ELSE n/a   -- requestReportBCSMEvent

c5325:   IF A.9/14   -- extensions

      OR A.13/4   -- extensions

      OR A.16/2   -- extensions

      OR A.17/2   -- extensions

      OR A.23/8   -- extensions

      OR A.25/3   -- extensions

      OR A.28/4   -- extensions

	OR A.31/18	-- extensions
	OR A.34/12	-- extensions
	OR A.38/25	-- extensions
	OR A.40/36	-- extensions
	OR A.44/9	-- extensions
	OR A.46/3	-- extensions
	OR A.48/14 THEN m ELSE n/a	-- extensions
c5326:	IF A.38/3b	-- MessageID
	OR A.40/16 THEN m ELSE n/a	-- MessageID
c5327:	IF A.34/34a THEN m ELSE n/a	-- TimeAndTimezone
c5328:	IF A.6/6 THEN m ELSE n/a	-- connect
c5329:	IF A.34/33 THEN m ELSE n/a	-- CalledPartyBCDNumber
c5330:	IF A.6/22	-- numOfInfoItems
	OR A.6/23 THEN m ELSE n/a	-- numOfInfoItems
c5331:	IF A.38/8	-- elementaryMessageIDs
	OR A.40/21 THEN m ELSE n/a	-- elementaryMessageIDs

Comments:

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A.4.9   Additional tables

A.4.9.1   Detection points

Table A.54: Void

Table A.55: Trigger detection points

Item	Name	Reference	Status	Support
1	DP2 CollectedInfo	9.19	o.1	
2	DP12 TerminatingAttemptAuthorized	9.19	o.1	

o.1:   At least one of the options shall be supported.

Comments:

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A.4.9.2   SCCP Addressing

Table A.56: Inter-PLMN addressing, Called Party Address

Item	Name	Reference	Status	Values	
				allowed	supported
1	SSN indicator	4.4, GSM 03.03	o	146	
2	Point code indicator	4.4	m	0	
3	Global title indicator	4.4	m	(note1)	
4	Translation type	4.4	m	(note2)	
5	Routing indicator	4.4	m	0	
NOTE1: If (A.2/2 AND "SSP is North American") THEN 0010 ELSE 0100.					
NOTE2: If (A.2/2 AND "SSP is North American") THEN (9, 14 or 10) ELSE 0 (all decimal values).					

Comments:

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Table A.57: Inter-PLMN addressing, Calling Party Address

Item	Name	Reference	Status	Values	
				allowed	supported
1	SSN indicator	4.4, GSM 03.03	o	5	
2	Point code indicator	4.4	m	0	
3	Global title indicator	4.4	m	0100	
4	Translation type	4.4	m	0	
5	Routing indicator	4.4	m	0	
NOTE1: If (A.2/2 AND "SSP is North American") THEN 0010 ELSE 0100.					
NOTE2: If (A.2/2 AND "SSP is North American") THEN (9, 14 or 10) ELSE 0 (all decimal values).					

Comments:

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Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

GSM 03.78 (V7.3): "Digital cellular telecommunications system (Phase 2+); Customized Applications for Mobile network Enhanced Logic (CAMEL); Phase 2; Stage 2".

GSM 09.78 (V7.0): "Digital cellular telecommunications system (Phase 2+); Customized Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification".

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