



**Core Network and Interoperability Testing (INT);
Conformance Test Specifications for the SCC-AS Services;
(3GPP™ Release 16);
Part 1: Protocol Implementation
Conformance Statement (PICS)**

Reference

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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

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

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Core Network and Interoperability Testing (INT).

The present document is part 1 of a multi-part deliverable covering the conformance test specifications for the SCC-AS Services, as identified below:

- Part 1:** "**Protocol Implementation Conformance Statement (PICS)**";
- Part 2: "Test Suite Structure (TSS) and Test Purposes (TP)";
- Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT)".

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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Introduction

To evaluate protocol conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) pro forma for conformance test specifications for the SCC-AS Services as specified in ETSI TS 124 237 [1] and ETSI TS 124 292 [2] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4] and ETSI ETS 300 406 [5].

The supplier of a protocol implementation which is claimed to conform to ETSI TS 124 237 [1] and ETSI TS 124 292 [2] is required to complete a copy of the PICS pro forma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

- [1] ETSI TS 124 237: "Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) service continuity; Stage 3 (3GPP TS 24.237 Release 16)".
- [2] ETSI TS 124 292: "Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS); Stage 3 (3GPP TS 24.292 Release 16)".
- [3] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [5] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI TS 124 229: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229)".
- [i.2] ETSI TS 124 294: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS) Centralized Services (ICS) protocol via I1 interface (3GPP TS 24.294)".
- [i.3] ETSI TR 121 905 (V10.3.0): "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Vocabulary for 3GPP Specifications (3GPP TR 21.905 version 10.3.0 Release 10)".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 124 237 [1], ETSI TS 124 292 [2] and the following apply:

PICS pro forma: document, in the form of a questionnaire, designed by the protocol specifier or conformance test suite specifier, which, when completed for an OSI implementation or system, becomes the PICS

NOTE: See ISO/IEC 9646-1 [3].

Protocol Implementation Conformance Statement (PICS): statement made by the supplier of an Open Systems Interconnection (OSI) implementation or system, stating which capabilities have been implemented for a given OSI protocol

NOTE: See ISO/IEC 9646-1 [3].

static conformance review: review of the extent to which the static conformance requirements are met by the IUT, accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s)

NOTE: See ISO/IEC 9646-1 [3].

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 124 237 [1], ETSI TS 124 292 [2] and ETSI TR 121 905 [i.3] apply.

4 Conformance

A PICS pro forma which conforms to this PICS pro forma specification shall be technically equivalent to annex A, and shall preserve the numbering and ordering of the items in annex A.

A PICS which conforms to this PICS pro forma specification shall:

- a) describe an implementation which claims to conform to ETSI TS 124 237 [1] and ETSI TS 124 292 [2];
- b) be a conforming ICS pro forma which has been completed in accordance with the instructions for completion given in clause A.1;
- c) include the information necessary to uniquely identify both the supplier and the implementation.

Annex A (normative): PICS pro forma

A.1 The right to copy

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 pro forma in this annex so that it can be used for its intended purposes and may further publish the completed PICS pro forma.

A.2 Guidance for completing the ICS pro forma

A.2.1 Purposes and structure

The purpose of this PICS pro forma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardized manner.

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

- instructions for completing the PICS pro forma;
- identification of the implementation;
- identification of the protocol;
- PICS pro forma tables (for example: Major capabilities, etc.).

A.2.2 Abbreviations and conventions

This annex does not reflect dynamic conformance requirements but static ones. In particular, a condition for support of a PDU parameter does not reflect requirements about the syntax of the PDU (i.e. the presence of a parameter) but the capability of the implementation to support the parameter.

In the sending direction, the support of a parameter means that the implementation is able to send this parameter (but it does not mean that the implementation always sends it).

In the receiving direction, it means that the implementation supports the whole semantic of the parameter that is described in the related protocol specification.

As a consequence, PDU parameter tables in this annex are not the same as the tables describing the syntax of a PDU in the reference specification.

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

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?".

Reference column

The reference column gives reference to the relevant sections in core specifications.

Status column

The various status used in this annex are in accordance with the rules in table A.1.

Table A.1: Key to status codes

Status code	Status name	Meaning
m	mandatory	The capability shall be supported. It is a static view of the fact that the conformance requirements related to the capability in the reference specification are mandatory requirements. This does not mean that a given behaviour shall always be observed (this would be a dynamic view), but that it shall be observed when the implementation is placed in conditions where the conformance requirements from the reference specification compel it to do so. For instance, if the support for a parameter in a sent PDU is mandatory, it does not mean that it shall always be present, but that it shall be present according to the description of the behaviour in the reference specification (dynamic conformance requirement).
o	optional	The capability may or may not be supported. It is an implementation choice.
n/a	not applicable	It is impossible to use the capability. No answer in the support column is required.
c.<integer>	conditional	The requirement on the capability ("m", "o", "n/a") depends on the support of other optional or conditional items. <integer> is the identifier of the conditional expression.
o.<integer>	qualified optional	For mutually exclusive or selectable options from a set. <integer> is the identifier of the group of options, and the logic of selection of the options.

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each 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)

References to items

For each possible item answer (answer in the support column) within the PICS pro forma there 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.

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

A.2.3 Instructions for completing the PICS pro forma

The supplier of the implementation may complete the PICS pro forma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the PICS pro forma.

A.3 Identification of the Equipment

A.3.1 Introduction

Identification of the Equipment 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.3.2 Date of the statement

.....

A.3.3 Equipment Under Test identification

Name:

.....

.....

Hardware configuration:

.....

.....

.....

Software configuration:

.....

.....

.....

A.3.4 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....
.....

A.3.5 Client

Name:

.....

Address:

.....
.....
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....
.....

A.3.6 PICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....

A.4 Identification of the protocol

This PICS pro forma applies to the following specifications:

- ETSI TS 124 237; and
- ETSI TS 124 292.

A.5 Global statement of conformance

A.5.1 Service continuity

Does the implementation described in clause A.7 of this PICS meet all the mandatory requirements of ETSI TS 124 237?

Yes

No

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached pages.

A.5.2 IP Multimedia Core Network subsystem Centralized Services (ICS)

Does the implementation described in clause A.7 of this PICS meet all the mandatory requirements of ETSI TS 124 292?

Yes

No

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached pages.

A.6 PICS pro forma tables for SCC-AS for service continuity

A.6.1 Introduction

In clause A.6 of the present document, only the IUT role of SCC-AS is considered for service continuity.

In the tabulations which follow, all references are to ETSI TS 124 237 unless another numbered reference is explicitly indicated.

A.6.2 PICS Items for SCC-AS for service continuity

A.6.2.1 Major Capabilities of SCC-AS for service continuity

Table A.2: Major Capabilities of SCC-AS for service continuity

Item	Does the IUT support ...	Reference	Status	Support
Core functionalities				
1.1	procedures for PS to CS dual radio access transfer, for a session with an active speech media component?	4.1, 1) a)	o.1	
1.2	procedures for PS-PS access transfer, for a session with an active speech media component?	4.1, 1) b)	o.1	
1.3	procedures for PS to CS SRVCC for a session with an active speech media component?	4.1, 1) c)	o.1	
1.4	procedures for CS to PS dual radio access transfer, for a session with an active speech media component?	4.1, 1) d)	o.1	
Optional features				
2	access transfer for a session with an inactive speech media component?	4.1, 2)	o	
3	access transfer for a session with conference control with active speech media component or inactive speech media component?	4.1, 3)	o	
4	access transfer in the alerting phase with an active speech media component?	4.1, 4)	o	
5	PS to CS SRVCC access transfer for originating calls in pre-alerting phase with an active speech media component?	4.1, 5)	c.1	
6	access transfer for a session with active speech media component and active video media component?	4.1, 6)	o	
6.1	access transfer in the alerting phase with an active speech media component and active video media component?	4.1, 6) a)	c.2	
6.2	PS to CS SRVCC access transfer for originating calls in pre-alerting phase with an active speech media component and an active video media component?	4.1, 6) b)	c.3	
7.1	CS to PS SRVCC access transfer for an active session with an active speech media component?	4.1, 7)	c.4	
7.2	access transfer for a session with an inactive speech media component?	4.1, 7) a)	c.5	
7.3	access transfer for a session with conference control with active speech media component or inactive speech media component?	4.1, 7) b)	c.6	
7.4	access transfer in the alerting phase with an active speech media component?	4.1, 7) c)	c.7	

Item	Does the IUT support ...	Reference	Status	Support
8	dual radio access transfer for originating calls in pre-alerting phase with an active speech media component?	4.1, 8)	c.8	
9	procedures related to the MSC server assisted mid-call feature?	4.1	o	
o.1: At least one of these features shall be supported. c.1: o if A.2/4 supported, else n/a. c.2: o if A.2/6 supported, else n/a. c.3: o if A.2/6.1 supported, else n/a. c.4: o if A.2/1.3 supported, else n/a. c.5: o if A.2/7.1 AND A.2/2 supported, else n/a. c.6: o if A.2/7.1 AND A.2/3 supported, else n/a. c.7: o if A.2/7.1 AND A.2/4 supported, else n/a. c.8: o if A.2/1.1 AND A.2/1.4 supported, else n/a.				

A.6.2.2 System Capabilities of SCC-AS for service continuity

Table A.3: System Capabilities of SCC-AS for service continuity

Item	Does the IUT support ...	Reference	Status	Support
1	procedures for registration in the IM CN subsystem for service continuity?	6.3	m	
1.1	provision of PS to CS SRVCC related information to the ATCF?	6.3.2, 6.3.3	c.9	
1.2	provision of PS to CS SRVCC related information to the MSC server?	6.3.4, 6.3.5	c.9	
2	common procedures for setting up SIP messages sent by SCC AS?	6A.4	m	
2.1	handling of OMR specific attributes?	6A.4.4	o	
2.2	rejection of malicious SIP REFER requests from remote UE?	6A.4.6	c.10	
2.3	handling of SDP media description conflicts?	5.3, 6A.5	m	
2.4	SCC AS server procedure for indicating traffic leg?	5.3, 6A.6.1	o	
3	procedures for call origination for service continuity?	7.3	m	
3.1	removal of the g.3gpp.mid-call media feature tag in SIP INVITE requests towards the remote UE?	7.3.2	c.11	
3.2	removal of the g.3gpp.srvcc-alerting media feature tag in SIP INVITE requests towards the remote UE?	7.3.2	c.9	
4	procedures for call termination for service continuity?	8.3	m	
4.1	removal of the g.3gpp.mid-call media feature tag from the SIP 2xx response towards the remote UE?	8.3.2	c.11	
5	procedures for PS-CS access transfer?	9.3.2, 9.3.3, 9.3.6	c.12	
5.1	procedures for PS to CS access transfer with MSC server assisted mid-call feature?	9.3.2A, 9.3.4	c.13	
5.2	procedures for PS to CS dual radio access transfer of calls in an early dialog or alerting phase?	9.3.5.1, 9.3.5.2, 9.3.5.4, 9.3.5.5	c.14	
5.3	procedures for PS to CS dual radio, access transfer of a originating session in the pre-alerting phase?	9.3.5.3	c.15	
5.4	procedures for CS to PS dual radio access transfer for calls in an early phase?	9.3.7	c.16	
6	procedures for PS-PS access transfer?	10.3.1, 10.3.2, 10.3.4, 10.3.5	c.17	
6.1	Procedure for P-CSCF releasing early dialog during PS to PS access transfer?	10.3.6	c.18	
7	procedures for PS-PS access transfer in conjunction with PS-CS access transfer?	11.3	c.19	

Item	Does the IUT support ...	Reference	Status	Support
8	procedures for PS-CS access transfer, Single Radio (PS to CS SRVCC)?	12.3.0, 12.3.0A, 12.3.0B, 12.3.1, 12.3.3.1, 12.3.3.2, 12.3.3.4, 12.3.5, 12.3.6, 12.3.7, 12.3.8, 12.3.9, 12.3.11	c.20	
8.1	inclusion of the g.3gpp.srvcc-alerting feature-capability indicator in the Feature-Caps header field in SIP 200 (OK) responses to SIP INVITE requests due to STN-SR on the target access leg?	12.3.1, 3 rd numbered list item 2)	c.21	
8.2	procedures for PS to CS SRVCC access transfer with MSC server assisted mid-call feature?	12.3.2	c.22	
8.3	procedures for PS to CS SRVCC access transfer when call is in alerting phase or pre-alerting phase?	12.3.3.1A, 12.3.3.3, 12.3.3.5, 12.3.4	c.21	
8.4	procedures for CS to PS SRVCC access transfer?	12.3.10	c.23	
9	procedures for media adding/deleting for access transfer?	13.3	m	
10	procedures for access transfer and supplementary services interaction?	20.1	m	
10.1.1	delivery of Explicit Communication Transfer (ECT) requests on the CS access leg?	20.1.11	o	
10.1.2	delivery of ECT requests on the PS access leg?	20.1.11	o	
10.2.1	delivery of Advice of Charge (AOC) charging information on the CS access leg?	20.1.12	o	
10.2.2	delivery of AOC charging information on the PS access leg?	20.1.12	o	
11	procedures for detection of remote leg information?	5.3, 22.3	c.9	
c.9: m if A.2/1.3 supported, else n/a. c.10: m if A.2/1.3 AND (A.2/4 OR A.2/9) supported, else n/a. c.11: m if A.2/9 supported, else n/a. c.12: m if A.2/1.1 supported, else n/a. c.13: m if A.2/9 AND A.3/5 supported, else n/a. c.14: m if (A.2/4 OR A.2/6.1) AND A.3/5 supported, else n/a. c.15: m if A.2/8 AND A.3/5 supported, else n/a. c.16: m if A.2/1.4 AND (A.2/4 OR A.2/6.1 OR A.2/8) supported, else n/a. c.17: m if A.2/1.2 supported, else n/a. c.18: m if (A.2/4 OR A.2/6.1 OR A.2/8) AND A.3/6 supported, else n/a. c.19: m if A.2/1.1 AND A.2/1.2 supported, else n/a. c.20: m if A.2/1.3 supported, else n/a. c.21: m if (A.2/5 OR A.2/6.2) AND A.3/8 supported, else n/a. c.22: m if A.2/9 AND A.3/8 supported, else n/a. c.23: m if A.2/7.1 supported, else n/a.				

A.7 PICS pro forma tables for SCC-AS for ICS

A.7.1 Introduction

In clause A.7 of the present document, only the IUT role of SCC-AS is considered for ICS. However, this role is split into three sub-roles as described in ETSI TS 124 292, clause 5.4.

In the tabulations which follow, all references are to ETSI TS 124 292 unless another numbered reference is explicitly indicated.

A.7.2 PICS Items for SCC-AS for ICS

A.7.2.1 Sub-roles of SCC-AS for ICS

Table A.4: Sub-roles of SCC-AS for ICS

Item	Sub-roles	Reference	Status	Support
Sub-roles				
1	ICS User Agent (IUA)	5.4 a)	o.1	
2	Terminating Access Domain Selection (T-ADS)	5.4 b)	o.1	
3	AS acting as routing B2BUA performing 3 rd party call control	5.4 c)	m	
o.1: At least one of these sub-roles shall be supported.				

A.7.2.2 System Capabilities of SCC-AS for ICS

Table A.5: System Capabilities of SCC-AS for ICS

Item	Does the IUT support ...	Reference	Status	Support
1	procedures for registration in the IM CN subsystem?	6.4	m	
2	procedures for call origination (serving the originating ICS UE)?	7.4	m	
2.1	call origination service control over Gm?	7.4.2	m	
2.2	call origination service control over CS?	7.4.3	m	
2.3	call origination service control over I1?	7.4.4	m	
3	procedures for call modification initiated from the ICS UE?	8.4	m	
3.1	actions when the UE adds a CS bearer?	8.4.2	m	
3.2	actions when the SCC AS adds media in the PS domain? (note 1)	8.4.3	m	
4	procedures for call modification initiated towards an ICS UE?	9.4	m	
4.1	terminating access domain selection for call modification?	9.4.1	m	
4.2	call modification actions when the SCC AS adds a CS bearer?	9.4.2	m	
4.3	call modification actions when the SCC AS adds a PS bearer? (note 1)	9.4.3	m	
4.4	call modification actions when the SCC AS removes a CS bearer?	9.4.4	m	
4.5	actions when the SCC AS adds or removes a CS video media? (note 1)	9.4.5	m	
5	procedures for call termination (serving the terminating UE)?	10.4	m	
5.1	terminating access domain selection for call termination?	10.4.2	m	
5.2	actions for call termination in IM CN?	10.4.3	m	
5.3	actions for call control over Gm and voice or voice and video over CS?	10.4.4	m	
5.3.1	Inclusion of CS video media stream in the SDP offer towards the terminating ICS UE?	10.4.4 First numbered list - item 2 c) i)	o	
5.4	actions for call termination to CS network via MSC Server enhanced for ICS?	10.4.5	o	
5.5	actions for allowing UE to execute T-ADS?	10.4.6	m	
5.6	actions for call termination over CS?	10.4.7	o	
5.7	actions for call control over I1 and media over CS?	10.4.8	m	
6	procedures for session release (serving the terminating ICS UE)?	11.4	m	
6.1	session release service control over Gm?	11.4.2	m	
6.1.1	session release service control procedures upon loss of Gm service control? (note 1)	11.4.3	m	

Item	Does the IUT support ...	Reference	Status	Support
6.2	session release service control over I1? (note 2)	11.4.4	m	
7	procedures for supplementary service invocation for ICS?	12	m	
7.1	supplementary service invocation for an ICS UE with IMS sessions using CS bearer?	12.1	m	
7.2	supplementary service invocation using the MSC Server enhanced for ICS? (note 3)	12.2	m	
7.3	supplementary service invocation for non ICS UE when attached to an MSC Server not enhanced for ICS?	12.3	m	
NOTE 1: The description in the referenced clause does not add requirements in addition to the ones defined in ETSI TS 124 229.				
NOTE 2: The description in the referenced clause does not add requirements in addition to the ones defined in ETSI TS 124 294.				
NOTE 3: The descriptions in the referenced clause and the related subclauses do not add requirements in addition to the ones defined in base specifications of the supplementary services.				

History

Document history		
V1.1.1	December 2022	Publication