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LTE; 5G;

Internet Protocol (IP)

multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)

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Contents

| Intelle | ectual Property Rights | 2 |
|------------|--|----|
| Legal | l Notice | 2 |
| Moda | al verbs terminology | 2 |
| Forew | word | 5 |
| Introd | duction | 5 |
| 1 | Scope | 6 |
| 2 | References | 6 |
| 3 | Definitions and abbreviations | 9 |
| 3.1 | Definitions | |
| 3.2 | Abbreviations | |
| | Requirements on the TTCN development | |
| 5 | Test method and test model | |
| 5.1 5.2 | Test method | |
| 5.2.1 | IMS CC test model | |
| 5.2.1 | IMS CC test cases over IP-CAN test model | |
| 5.2.2 | Upper Tester (UT) | |
| 5.4 | TTCN-3 | |
| 5.5 | Support of XCAP | |
| 5.5.1 | XCAP Server | |
| 5.5.2 | HTTP Signalling | |
| 5.6 | Void | |
| _ | | |
| 6 | ASP definitions | |
| 6.1 | Void | |
| 6.2 | Void | |
| 6.3 | Void | |
| 6.4 | Void | |
| 6.5 | XCAP server ASP definitions | |
| 7 | Codec definitions for IP User Data | 19 |
| 7.1 | Introduction | 19 |
| 7.2 | General Aspects | |
| 7.3 | Requirements on abstract message syntax for IMS (SIP, SDP) | |
| 7.3.1 | Type definition - Syntax / Semantic aspects | 19 |
| 7.3.2 | Deviations of the type definition semantic | |
| 7.3.3 | Additional requirements for codec implementations (SIP/IMS Message | |
| 7.3.3.1 | 71 11 6 | |
| 7.3.3.2 | | |
| 7.3.4 | Additional requirements for codec implementations (Message Body) | |
| 7.3.5 | Additional requirements for codec implementations (SDP Body) | |
| 7.3.5.1 | | |
| 7.3.5.2 | | |
| 7.3.6 | Additional requirements for codec implementations (HTTP) | |
| 7.3.7 | Additional requirements for codec implementations (XML) | |
| 7.4 | Requirements for codec implementations (DHCP, DNS) | 28 |
| 8 | Design consideration | 28 |
| 8.1 | Void | |
| 8.2 | Void | |
| 8.3 | Void | 28 |
| 8.4 | AT commands | 28 |
| 8.5 | Timer Tolerances | 29 |
| 8.6 | Bearer information for UTRAN | 29 |

| Annex A (normative): | Abstract Test Suites (ATS) | 30 |
|---------------------------|---|----------|
| A.1 Baseline of specifica | ations | 30 |
| A.2.1 Void A.2.2 Void | | 34 34 |
| | | |
| _ | Partial IXIT proforma | |
| | | |
| | | |
| B.2 MMI Commands | | 38 |
| Annex C: | Void | 39 |
| Annex D: | Void | 40 |
| Annex E (informative): | TTCN-3 style guide for 3GPP IMS ATS | 41 |
| Annex F (informative): | BNF Message Definitions | 42 |
| Annex G (Normative): | SIP Type Definitions and XSD References | 43 |
| G.0.1 XML Schema Def | and SIP Type Definitions | 43 |
| | dyTypes | |
| G.2 References to TTCN | I-3 | 47 |
| Annex H (informative): | TTCN-3 Definitions of Common Interfaces | 48 |
| H.1 IMS_PTC_CoordM | sg | 48 |
| H.2 IMS_ASP_TypeDef | `s | 51 |
| H.3.1 HTTP_ASP_Defin | efsitionsitions | 55 |
| H.4 References to TTCN | 1-3 | 58 |
| Annex I (informative): | Change history | 59 |
| History | | 80 |

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Introduction

The present document is 3rd part of a multi-part conformance test specification for UE and is *valid for 3GPP Release 5* and above. The specification contains a TTCN design frame work and the detailed test specifications in TTCN for the UE conformance at the Gm reference point.

3GPP TS 34.229-1 [5] contains a conformance test description in prose for 3G and 4G.

3GPP TS 34.229-2 [6] contains a pro-forma for the UE Implementation Conformance Statement (ICS).

3GPP TS 34.229-3 the present document.

3GPP TS 34.229-5 [55] contains a conformance test description in prose for 5G.

1 Scope

The present document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Gm interface.

The present document is the 3rd part of a multi-part test specification, 3GPP TS 34.229. The following TTCN test specification and design considerations can be found in the present document:

- the overall test suite structure;
- the testing architecture;
- the test methods and PCO definitions;
- the test configurations;
- the design principles, assumptions, and used interfaces to the TTCN tester (System Simulator);
- TTCN styles and conventions;
- the partial PIXIT proforma;
- the TTCN files for the mentioned protocols tests.

The Abstract Test Suites designed in the document are based on the test cases specified in prose (3GPP TS 34.229-1 [5] and TS 34.229-5 [55]).

The present document is valid for UE implemented according 3GPP Releases starting from Release 5 up to the Release indicated on the cover page of the present document.

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. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [4] 3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract Test Suites (ATS)".
- [5] 3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

| [6] | 3GPP TS 34.229-2: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification". |
|------|---|
| [7] | 3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing". |
| [8] | ISO/IEC 9646-1: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts". |
| [9] | ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements". |
| [10] | ETSI ETS 300 406 (1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology". |
| [11] | 3GPP TS 24.229: "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3". |
| [12] | ETSI ES 201 873: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3". |
| [13] | IETF RFC 3320: "Signalling Compression (SigComp)". |
| [14] | IETF RFC 3485: "The Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Static Dictionary for Signalling Compression (SigComp)". |
| [15] | IETF RFC 3486: "Compressing the Session Initiation Protocol (SIP)". |
| [16] | IETF RFC 3261: "SIP: Session Initiation Protocol". |
| [17] | IETF RFC 4566: "SDP: Session Description Protocol". |
| [18] | IETF RFC 1035: "Domain names - implementation and specification". |
| [19] | IETF RFC 1533: "DHCP Options and BOOTP Vendor Extensions". |
| [20] | IETF RFC 2131: "Dynamic Host Configuration Protocol". |
| [21] | IETF RFC 3315: "Dynamic Host Configuration Protocol for Ipv6 (DHCPv6)". |
| [22] | IETF RFC 3319: "Dynamic Host Configuration Protocol (DHCPv6) Options for Session Initiation Protocol (SIP) Servers". |
| [23] | IETF RFC 3361: "Dynamic Host Configuration Protocol (DHCP-for-Ipv4) Option for Session Initiation Protocol (SIP) Servers". |
| [24] | IETF RFC 3680: "A Session Initiation Protocol (SIP) Event Package for Registrations". |
| [25] | 3GPP TS 24.173: "IMS multimedia telephony communication service and supplementary services; Stage 3". |
| [26] | IETF RFC 4825: "The Extensible Markup Language (XML) Configuration Access Protocol (XCAP)". |
| [27] | IETF RFC 2616: "Hypertext Transfer Protocol – HTTP/1.1". |
| [28] | 3GPP TS 36.523-1: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification". |
| [29] | 3GPP TS 36.523-2: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification". |
| [30] | 3GPP TS 36.523-3: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites". |

| [31] | 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing". |
|------|--|
| [32] | 3GPP TS 24.173: "IMS Multimedia telephony communication service and supplementary services; Stage 3". |
| [33] | 3GPP TS 24.109: "Bootstrapping interface (Ub) and network application function interface (Ua); Protocol details". |
| [34] | 3GPP TS 33.220: "Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture". |
| [35] | 3GPP TS 33.222: "Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)". |
| [36] | 3GPP TS 24.623: "Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services ". |
| [37] | RFC 2617: "HTTP Authentication: Basic and Digest Access Authentication". |
| [38] | RFC 3966: "The tel URI for Telephone Numbers". |
| [39] | RFC 2141: "URN Syntax". |
| [40] | 3GPP TS 24.604: "Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". |
| [41] | 3GPP TS 24.607: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". |
| [42] | 3GPP TS 24.608: "Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". |
| [43] | 3GPP TS 24.611: "Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification". |
| [44] | IETF RFC 4119 "A Presence-based GEOPRIV Location Object Format". |
| [45] | IETF RFC 4575: "A Session Initiation Protocol (SIP) Event Package for Conference State". |
| [46] | IETF RFC 5628: "Registration Event Package Extension for Session Initiation Protocol (SIP) Globally Routable User Agent URIs (GRUUs)". |
| [47] | IETF RFC 3863 "Presence Information Data Format (PIDF)". |
| [48] | IETF RFC 4745: "Common Policy: A Document Format for Expressing Privacy Preferences". |
| [49] | 3GPP TS 27.007: "AT command set for 3G User Equipment (UE)". |
| [50] | 3GPP TS 34.229-4: "User Equipment (UE) conformance specification; Part 4: Enabler for IP multimedia applications testing". |
| [51] | 3GPP TS 24.237: "IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) Service Continuity". |
| [52] | 3GPP TS 31.121: "UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification". |
| [53] | 3GPP TS 24.390: "Unstructured Supplementary Service Data (USSD) using IP Multimedia (IM) Core Network (CN) subsystem IMS". |
| [54] | 3GPP TS 38.523-3: "5GS; UE conformance specification; Part 3: Protocol Test Suites". |
| | |

- [55] 3GPP TS 34.229-5: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 5: Protocol conformance specification using 5G System (5GS)".
- [56] 3GPP TS 38.508-1: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1], TS 34.229-1 [5] and TS 34.229-5 [55] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1], TS 34.229-1 [5] and TS 34.229-5 [55] apply.

4 Requirements on the TTCN development

A number of requirements are identified for the development and production of TTCN specification for 3GPP UE at the Gm reference point.

- 1. Top-down design, following 3GPP TS 34.229-1 [5], TS 34.108 [7], TS 36.508 [31], TS 34.229-5 [55], TS 38.508-1 [56].
- 2. A unique testing architecture and test method for testing all protocol layers of UE.
- 3. Uniform TTCN style and naming conventions.
- 4. Improve TTCN readability.
- 5. Using TTCN-3 (ES 201 873-1 [12]).
- 6. TTCN specification feasible, implementable and compilable.
- 7. Test cases shall be designed in a way for easily adaptable, upwards compatible with the evolution of the 3GPP core specifications and the future Releases.
- 8. The test declarations, data structures and data values shall be largely reusable.
- 9. Modularity and modular working method.
- 10. Minimizing the requirements of intelligence on the emulators of the lower testers.
- 11. Giving enough design freedom to the test equipment manufacturers.
- 12. Maximizing reuse of RFC BNF definitions from the relevant IETF core specifications.

In order to fulfil these requirements and to ensure the investment of the test equipment manufacturers having a stable testing architecture for a relatively long period, a unique testing architecture and test method are applied to the 3GPP UE protocol tests.

5 Test method and test model

5.1 Test method

5.2 IMS CC test model

The test model over E-UTRA is shown in Figure 5.2-1a, the test model over UTRAN is shown in figure 5.2-1b, the test model over WLAN is shown in figure 5.2-1c, the test model over fixed access is shown in figure 5.2-1d (NOTE: the IPsec is not used by this model), and the test model over NR5GC is shown in Figure 5.2-1e.

The IMS CC test cases are executed on top of the multi-testers test model according to TS 36.523-3 [30] for E-UTRA, TS 34.123-3 [4] clause 6A for UTRAN and TS 38.523-3 [54] for NR5GC.

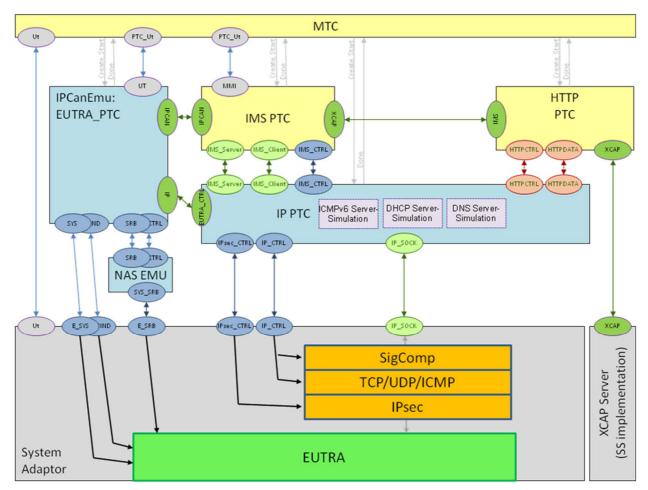


Figure 5.2-1a: Multi-TestersTest Model to support E-UTRA SS interface

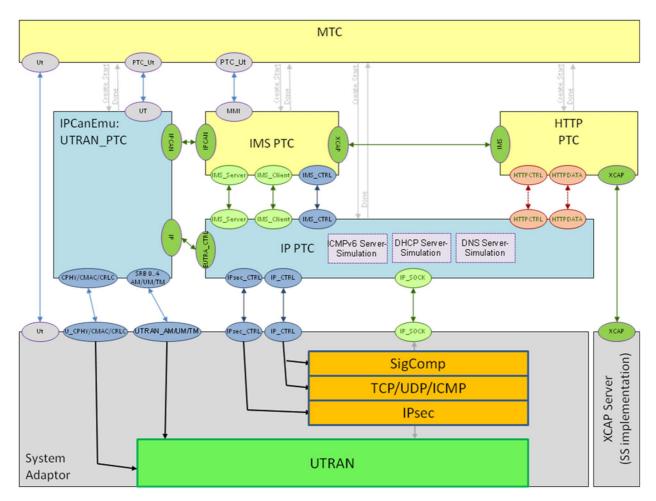


Figure 5.2-1b: Multi-Testers Test Model to support UTRAN SS interface

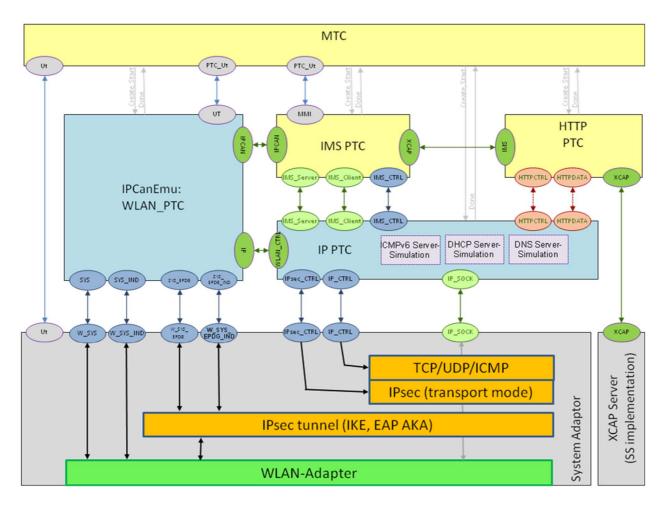


Figure 5.2-1c: Multi-Testers Test Model to support WLAN SS interface

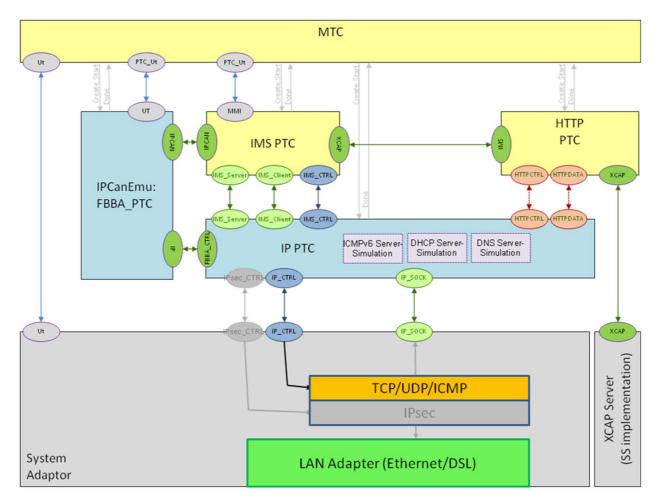


Figure 5.2-1d: Multi-Testers Test Model to support fixed access SS interface

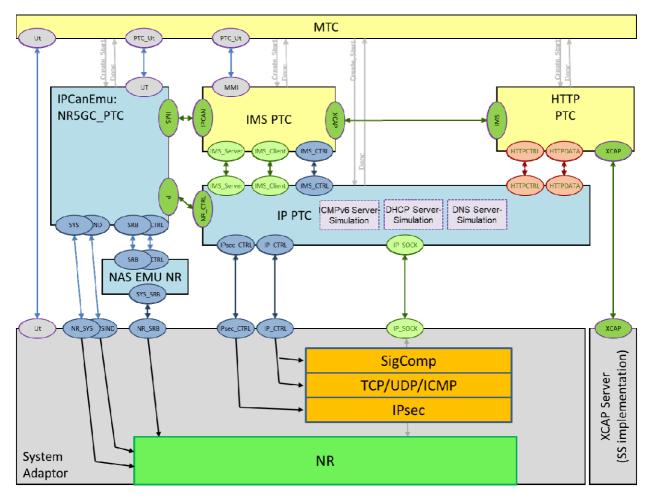


Figure 5.2-1e: Multi-Testers Test Model to support NR5GC SS interface

The IMS CC test cases run on the IMS-PTC which controls the IPCanEmu and the IP-PTC. IPCanEmu is responsible for cell setup and DRB/RAB establishment and the IP-PTC controls the IP related configurations. IPCanEmu and IP-PTC interface to the SS according to TS 36.523-3 [30] or TS 34.123-3 [4] or TS 38.523-3 [54].

Clauses 4.2.4, 4.2.5 and 4.4.1.1 of TS 36.523-3 [30] describe the common handling of IP data in the multi-testers model regarding IMS signalling. In addition to support HTTP over TLS a TCP server may be established with additional parameters for TLS which may be required for XCAP (depending on the authentication mechanism to be applied for XCAP test case).

The test model extensions for support of XCAP are shown in Figure 5.2-2. Clause 5.5 provides further information regarding support of XCAP.

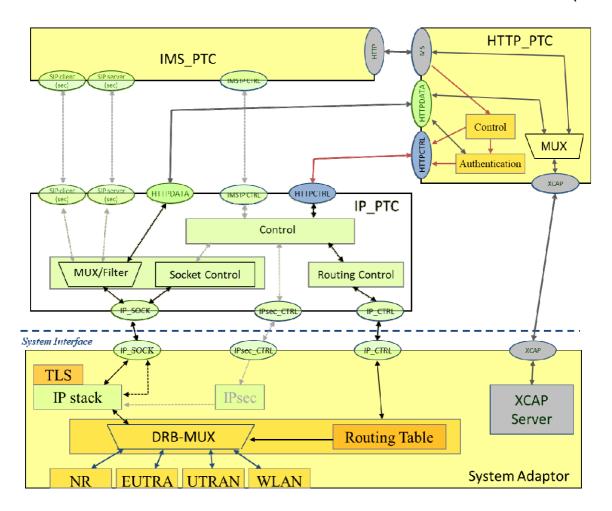


Figure 5.2-2: Extended IP model to handle HTTP/XCAP data

NOTE: Figure 5.2-2 is just an example; further details are SS implementation dependent.

5.2.1 Transport protocol

For SIP requests originated by the UE, the transport protocol in UL is selected by the UE. This information is extracted in the TTCN-3 and used in subsequent responses sent by the SS.

For SIP requests originated by the SS in DL UDP is used as transport protocol at the test. For the purpose of test coverage, TCP is used in the specific test cases as specified.

NOTE: According to RFC 3261 [16] clause 18.1.1 the server side (UE) has to be able to cope with a maximum datagram size of 65,535 bytes (independent of any guideline to restrict the maximum size of UDP packets at the client side).

5.2.2 IMS CC test cases over IP-CAN test model

The "Enabler for IP multimedia applications testing" is described in TS 34.229-4 [50]. In general IMS CC test cases can be run on this test model too as test case implementation - in general - is independent of the test model. The TTCN code for IMS and HTTP PTC is the same for TS 34.229-3 and TS 34.229-4 implementations whereas the MTC implementation is model specific. The implementation of the MTC, the IP-CAN/IP adaptor and the MMI system interface is part of TS 34.229-4 and out of scope for this document. Common interfaces are documented in annex H of this document.

5.3 Upper Tester (UT)

The upper tester interface is the same as defined in TS 36.523-3 [30] clause 5 for E-UTRA or TS 34.123-3 [4] clause 6A.4 for UTRAN or TS 38.523-3 [54] clause 6.1 for NR5GC, with additional, IMS-specific AT commands as specified in clause 8.4 and IMS-specific MMI commands as specified in annex B.2.

5.4 TTCN-3

TTCN is used as specification language. ES 201 873 [12] (TTCN-3) is applied to the notation.

5.5 Support of XCAP

MTSI supplementary services (TS 24.173[25]) like communication barring (CB) and communication diversion (CDIV) require the XCAP protocol (RFC 4825[26]) for transporting and manipulating XML documents in the network describing these services. Test cases for these services are specified in e.g. TS 34.229-1 [5] clause 15. As shown in figure 5.2-2 the SS shall provide an XCAP server to support XCAP test cases; the TTCN interface to this server is specified in clause 6.5.

5.5.1 XCAP Server

Supplementary services are managed by the XCAP server in the simservs documents according to TS 24.623 [36]. Test cases manipulating data related to supplementary services are specified in e.g. TS 34.229-1 [5] clause 15. For simplification of the TTCN implementation, the XCAP server functionality shall be provided by the SS i.e. it is not implemented in the TTCN. Access to the XCAP server can be distinguished into:

- HTTP based transaction between the UE and the XCAP server
- Initialisation and validation of the simservs document according to the test cases

In addition the UE may exchange HTTP messages for authentication (depending on the UE's security capabilities); see figure 5.5.1-1.

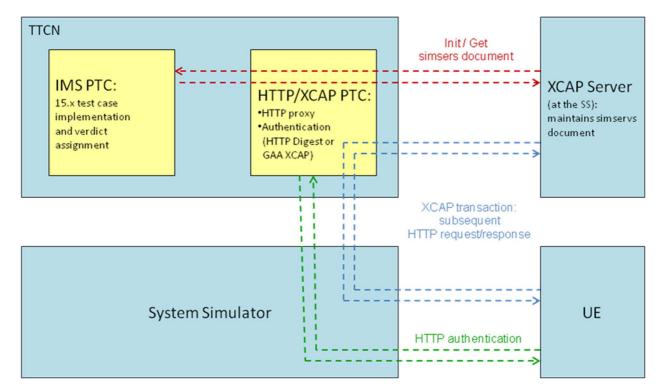


Figure 5.5.1-1: IMS CC test model

NOTE: In accordance to RFC 4825 clause 6.3 [26], the UE may use complex XPATH expressions to modify the simservs document but this shall be handled by the XCAP server; in the TTCN these expressions are not explicitly checked. Furthermore test case implementation itself does not use complex XPATH expressions to access the simservs document, but always considers the whole document.

5.5.2 HTTP Signalling

RFC 4825 [26] specifies the protocol for accessing user data in the XCAP server via HTTP requests. An HTTP request for an XCAP operation contains basically three components:

- Request line method, i.e. PUT, GET or DELETE
- Request line uri The XCAP expression to be evaluated to access the XCAP document. The XCAP expression
 consists of the document selector followed by the separator "~~" followed by the node selector pointing to the
 user data to accessed or evaluated
- body Describing the value (an xml fragment) referenced by the XCAP expression

Example 1

In order to set terminating-identity-presentation for user sip:ob.stf160@etsi.org, the UE sends following HTTP request:

```
PUT http://XCAP- Server/simservs.ngn.etsi.org/users/sip%3Aob.stf160%40etsi.org/simservs.xml/~~/simservs/terminating-identity-presentation/%40active
Body: true

If successful, the XCAP server responds with

HTTP/1.1 200 OK
```

Example 2

To get the value of terminating-identity-presentation for user sip:ob.stf160@etsi.org, the UE sends following HTTP request:

```
GET /simservs/terminating-identity-presentation/%40active If successful, the XCAP server responds with HTTP/1.1 200 OK Body: true
```

In this example

```
//XCAP-server/simservs.ngn.etsi.org/users/ sip%3Aob.stf160%40etsi.org/simservs.xml/-
Document selector for user .

~~ - Document selector separator, see RFC 4825
/simservs/terminating-identity-presentation/%40active - Node selector pointing to the information in the XCAP server to be accessed. This is an XPATH expression, see RFC 4825 section 6.3.
true - Is the xml fragment (in this case very simple) to be set as value of the XPATH expression

Following operations shall be implemented in the XCAP server, see RFC 4825.

GET - Returns the requested data as an XML fragment to be send to the UE
input parameters: charstring documentSelector, charstring xpathExpr
returns: XML fragment or XML document
```

PUT - Builds an XML subtree or sets an attribute given by the xmlFragment at the position pointed by the xpath expression

input parameters: charstring documentSelector, charstring xpathExpr, charstring xmlFragment or xmlDocument

 ${\tt DELETE-Deletes} \quad \text{an XML subtree or sets an attribute given by the xmlFragment at the position} \\ \text{pointed by the xpath expression}$

input parameters: charstring documentSelector, charstring xpathExpr

5.6 Void

6 ASP definitions

This clause defines abstract system primitives (ASPs) for system interfaces which are used additionally to the system interfaces defined in TS 36.523-3 [30], TS 34.123-3 [4] and TS 38.523-3 [54]. Further interfaces are documented in annex H to support the IP-CAN test model according to TS 34.229-4 [50] but these interfaces are not system interfaces in the scope of this document.

- 6.1 Void
- 6.2 Void
- 6.3 Void
- 6.4 Void

6.5 XCAP server ASP definitions

XCAP Layer ASPs are applicable to clause 5.2. and 5.6.

| Name | XCAP_REQ | | |
|----------------|--|--|--|
| Port | XCAP_PORT | XCAP PORT | |
| Comment | ASP type for sending a re according to RFC 4825 [2 | ASP type for sending a request to the external XCAP server | |
| Parameter Name | Parameter Type | Comment | |
| method | charstring | GET, PUT, DELETE or RESET | |
| xcapExpression | charstring | XCAP expression sent by the UE in its http request line | |
| contentType | charstring | media type as contained in the HTTP content type header (optional) | |
| xmlBody | charstring | XML fragment sent by the UE in its http body or simservs document initialised by the test cases (optional) | |

| Name | XCAP_RSP | |
|----------------|--|--|
| Port | XCAP_PORT | |
| Comment | ASP type for sending the response to the XCAP_REQ from the XCAP server to TTCN | |
| Parameter Name | Parameter Type Comment | |
| errorInfo | charstring | string indicating a system error (optional) |
| contentType | charstring | media type as contained in the HTTP content type header (optional) |
| xmlBody | charstring | Result returned by the XCAP server (optional) |

7 Codec definitions for IP User Data

7.1 Introduction

SIP is a text-based protocol, thus the message exchange between the UE and the SS are pure character strings. In the TTCN-3 ATS the messages are structured and optimized to take the advantage of TTCN-3 functionality, and to make the debugging and maintenance of the ATS easier.

7.2 General Aspects

IP user data for IMS conformance testing can be distinguished into:

- 1. text based: SIP (including SDP and XML messages), HTTP (see clause 7.4)
- 2. octetstring based: DHCP, DHCPv6, DNS (see clause 7.4)

In TTCN the following encoding information is used for user data:

Table 7.2-1

| Type definitions | Encoding |
|------------------|------------------------------|
| SMS Types | Tabular notated (see note 1) |
| DHCPv4-Codec | Tabular notated (see note 1) |
| DHCPv6-Codec | Tabular notated (see note 1) |
| DNS-Codec | Tabular notated (see note 1) |
| SIPCodec | (see clause 7.3) |
| SDPCodec | (see clause 7.3) |
| HttpCodec | (see clause 7.3) |

NOTE 1: Tabular notated is performed by concatenation of all the present fields in the TTCN-3 template.

NOTE 2: Encoding information is only needed for type definitions of peer-to-peer signalling; encoding of ASPs used for system configuration or as co-ordination messages between PTCs is out of scope for this document.

7.3 Requirements on abstract message syntax for IMS (SIP, SDP)

7.3.1 Type definition - Syntax / Semantic aspects

All given defined BNF grammars (e.g. the ABNF of RFC 3261) are unique. Thus the syntax tree for each syntactically correct message derived with these grammars are unique too and the parts of a message can be uniquely identified (represented) by the terminal phrase belonging to a non terminal symbol and its derivation path in the syntax tree.

The syntax tree of all given messages can be used to uniquely identify and describe the parts of the messages. The leaves are the part of every message and the nodes from the root to the leaves represent the sequence of rules to be applied to derive that part

The IMS/SIP root message type is an ordered structured type, which is represented as a record type in TTCN-3. For each grammar rule of the ABNF a TTCN-3 record type is declared with the specific name of the rule. The following rules are applied to the fields within a record:

- A non-terminal symbol is declared as a record type for this symbol.
- The order of the symbols in the rule are represented by an equal order of the fields.
- Repetitions are declared as 'set of' or 'record of' types.

- Options are represented as optional record/set fields.
- Alternatives are declared as union types.

7.3.2 Deviations of the type definition semantic

- Most of the 'literals' of a message (for example: the string "Via" or "v" in the message header fields) are not represented.
- The TTCN-3 charstring type is used where we stop structuring even if the ABNF uses structured types. More details found in clause 8.3.3.
- Wherever possible parts are mapped to their best type representation, e.g. DIGIT based rules are mapped to integer type not to a charstring type.
- All of the following delimiters (including preceding or following whitespace) defined by the ABNF grammar to separate the parts of a message are not represented (see note).

```
SWS "*" SWS ; asterisk
STAR
           SWS "/" SWS ; slash
SLASH
        = SWS "=" SWS ; equal
EOUAL
LPAREN = SWS "(" SWS ; left parenthesis
RPAREN = SWS ")" SWS ; right parenthesis
RAQUOT = ">" SWS ; right angle quote
LAQUOT = SWS "<"; left angle quote
COMMA = SWS ", " SWS ; comma
       = SWS ";" SWS; semicolon
= SWS ":" SWS; colon
SEMI
COLON
LDQUOT = SWS DQUOTE; open double quotation mark
RDQUOT = DQUOTE SWS ; close double quotation mark
HCOLON = *( SP / HTAB ) ":" SWS
        = single space
SP
HTAB
        = tab
         = sep whitespace
SWS
```

NOTE: If they are present within a pure charstring they will be handled like a normal character and are still included.

 Messages which are not of interest to the test suite are left undecoded as a charstring and will not be further structured.

Further clarifications on the handling of delimiters are provided hereafter:

In many cases the TTCN-3 type definitions are of lower granularity than the BNF and the codec shall consider the TTCN type definitions only. Therefore as stated in the NOTE above the rules for handling of delimiters do not require delimiters to be blindly removed from strings but the codec shall only deal with the delimiters needed to encode/decode the TTCN-3 types; sub-structures of the BNF being mapped to TTCN-3 charstrings need to be handled in TTCN and are out of scope of the codec implementation.

Example 1:

According to the BNF Alert-Info is defined as

```
Alert-Info = "Alert-Info" HCOLON alert-param *(COMMA alert-param) alert-param = LAQUOT absoluteURI RAQUOT *( SEMI generic-param )
```

The corresponding TTCN-3 type definition is

⇒ LAQUOT and RAQUOT are delimiters of the URI field which shall be removed by the codec in UL.

Example 2:

Some fields according to the BNF for SIP are defined as "(token LWS)/ quoted-string", i.e. the field can be either a (case-insensitive) token or a quoted string. In general in TTCN this can be mapped a) to a charstring or

b) to a union of two charstring (one for the token, one for the quoted string).

In case of a) the codec shall preserve the double-quotes for the quoted-string as otherwise it cannot be distinguished from a token anymore which is vital when case-sensitivity matters whereas in case of b) the double quotes shall be removed.

7.3.3 Additional requirements for codec implementations (SIP/IMS Message

The SIP/IMS codec is based on a normalized encoding which is always produced by an encoder. Decoder implementations, however, have to handle normalization before, or when constructing the structured message value, e.g. long versus compact form, whitespace compression, delimiter removal, same header grouping, etc. All these aspects will be handled in the next clause.

7.3.3.1 Differences between BNF - TTCN-3 Type Mapping

In normal cases the mapping is straight forward. Below you find the exceptions, including potential examples.

- The root message type is not a SIP-message but directly a Request or Response type which is represented as a TTCN-3 record. All Method - Message names (INVITE, BYE, ACK etc.) and all message header field names (To, From, CallID, Cseq, Via etc.) are mapped to an enumerated type in TTCN-3 to simplify the extension of new headers. During encoding, the long-form of these message header fields is always used. The respective field in the header type is restricted to values which are allowed.

| | BNF rules of RFC | TTCN-3 Type Mapping |
|---------------|--------------------|----------------------------------|
| SIP-message = | Request / Response | type record REGISTER_Request {}, |
| | | type record INVITE_Request {}, |
| | | type record PRACK_Request {}, |
| | | type record NOTIFY_Request {}, |
| | | type record UPDATE_Request {}, |
| | | |
| | | type record Response {} |

| Method = | INVITEm | type enumerated Method { ACK_E, BYE_E, CANCEL_E, |
|----------|-------------|--|
| | / ACKm | INVITE_E, OPTIONS_E, REGISTER_E,} |
| | / OPTIONSm | |
| | / BYEm | |
| | / CANCELm | |
| | / REGISTERm | |
| | / | |

- The structure of the message header fields are mapped to a "set" type in TTCN-3, because the order of these header fields is not mandatory. There is an Unknown Header List given in the type system to decode unknown headers with ID and Value.

- The various parameter lists defined in the BNF are mapped and combined into three different TTCN-3 sets of generic-param types. These types differ only in their name: SemicolonParam_List, AmpersandParam_List, CommaParam_List to distinguish between the relevant separators.

| Uri-parameters | = *(";" uri-parameter) | type set of GenericParam SemicolonParam_List; |
|------------------|--|--|
| Authentication-I | nfo = "Authentication-Info" HCOLON ainfo *(COMMA ainfo) | type record AuthenticationInfo { FieldName fieldName(AUTHENTICATION_INFO_E), CommaParam_List ainfo } |
| ainfo = | nextnonce / message-qop / response-auth / cnonce / nonce-count | type set of GenericParam CommaParam_List; |
| Headers = | "?" header *("&" header) | type set of GenericParam AmpersandParam_List; |

- Any more specific parameter rule (e.g. uri-param, user-param, lr-param, digest-cln, etc.) is simplified to the generic-param rule which will be mapped as a record structure of two charstrings (ID and paramValue). This is equivalent to a token with an optional generic value (token [EQUAL gen-value]).

| Digest-cln = | realm | type record GenericParam { |
|--------------|---------------|--------------------------------|
| | / domain | charstring id , |
| | / nonce | charstring paramValue optional |
| | / opaque | } |
| | / stale | |
| | / algorithm | |
| | / qop-options | |
| | / auth-param | |

- In addition to the pure charstring as a base type, the TTCN-3 type system provides base integer types which are unrestricted to the model e.g. the portField, Cseq number, maxForward digit.

| User = | 1*(unreserved / escaped / user-unreserved) | charstring |
|-----------------|--|------------|
| telephone-subsc | riber as defined in RFC 2806 | |
| password = | *(unreserved | charstring |
| | / escaped | |
| | /"&" / "=" | |
| | • | |
| | / "+" / "\$" | |
| | / D / " " | |
| |) , | |

| Port = | 1*DIGIT | integer |
|---------------|---|---------|
| Status-Code = | Informational / Redirection / Success / Client-Error / Server-Error / Global-Failure / extension-code | integer |

- Where the same header type can appear multiple times within a message, they will be decoded as a single header field, with multiple list elements. The order of appearance of the headers will be preserved within the header list value.

```
type record Contact {
                    ("Contact" / "m" ) HCOLON
Contact =
                       (STAR / (contact-param
                                                           FieldName fieldName(CONTACT E),
                          *(COMMA contact-param)
                                                           ContactBody contactBody
                    (name-addr / addr-spec)
                                                        type record ContactAddress {
contact-param =
                    *(SEMI contact-params)
                                                           Addr_Union addressField,
                                                           SemicolonParam_List contactParams optional
                                                        type union ContactBody {
                                                           charstring wildcard,
                                                           ContactAddress_List contactAddresses
                                                        Used in
                                                        type set of ContactAddress ContactAddress_List;
```

- The BNF (clause 7.3.1 Header Field Format RFC 3261 [16]) specifies that several WWW or Proxy Authentication/Authorization headers should not be combined into a single header; however they will be decoded into such in the codec. If these need to be sent downlink then a new, 'raw' (pure charstring) message type will be introduced.

| Authorization = | "Authorization" HCOLON credentials | type record Authorization { FieldName fieldName(AUTHORIZATION_E), Credentials body } |
|-----------------|------------------------------------|--|
| Credentials = | / other-response | type union Credentials { CommaParam_List digestResponse, OtherAuth otherResponse } |

- The different schemes (sip, sips, tel, fax, absoluteUri) in the SIP URI are all handled via the same type definition. The union "UriComponents" can be enhanced to support further specific URI formats. Nevertheless it is possible to use the "other" branch of "UriComponents" for any other URI format in which case the charstring shall contain the URI without the scheme and the first ":".

```
Request-URI =
                    SIP-URI
                                                          type record SipUriComponents {
                    / SIPS-URI
                                                           // sip-uri acc. To RFC 3261 [16] cl. 19.1
                    / absoluteURI
                                                                        userInfo optional,
                                                           UserInfo
                                                           HostPort
                                                                        hostPort
with
SIP-URI =
                    "sip:"
                                                          type record TelUriComponents {
                    [ userinfo ]
                                                           // tel-uri acc. To RFC 3966 [38]
                    hostport
                                                           charstring subscriber
                    uri-parameters
                    [headers]
                                                          type record UrnUriComponents {
and
                                                           // urn-uri acc. To RFC 2141 [39]
                                                                                        // e.g. "service"
                                                           charstring namespaceld,
SIPS-URI =
                    "sips:"
                                                                       namespaceSpecificString // e.g. "sos"
                                                           charstring
                    [userinfo]
                    hostport
                    uri-parameters
                                                          type union UriComponents {
                                                           SipUriComponents sip,
                                                                                     // scheme: "sip" or sips"
                    [headers]
                                                           TelUriComponents tel,
                                                                                     // scheme: "tel"
                                                           UrnUriComponents urn,
and
                                                                                     // scheme: "urn"
                                                           charstring
                                                                              other
absoluteURI =
                    scheme ":" ( hier-part / opaque-part )
                                                          type record SipUrl
                                                           charstring
                                                                              scheme,
                                                           UriComponents
                                                                              components,
                                                           SemicolonParam_List
                                                                                     urlParameters optional,
                                                           AmpersandParam_List
                                                                                     headers optional
                                                          type record SipUrl {
                                                             charstring scheme,
                                                             UserInfo userInfo optional,
                                                             HostPort hostPort,
                                                             SemicolonParam_List urlParameters optional,
                                                             AmpersandParam_List headers optional
```

- Universal charstrings shall be supported by the codec especially for the Display name in the URI.
- For downlink messages the len field in the ContentLength header is always set to 0 by TTCN; in case of the SIP message containing a message body SS shall replace the value by the actual length of the encoded message body (see clause 7.3.4).
- According to the SIP type definitions there are many 'charstring' fields being optional in records; ⇒ in UL the decoder shall map missing information by setting the respective field to omit rather than by assigning an empty string ("").
- type union Addr_Union
 As in 'NameAddr' the field 'displayName' is optional in the first place the two branches of 'Addr_Union' are
 equivalent when there is no 'displayName'; nevertheless in UL the decoder shall use the branch 'nameAddr' if –
 and only if the address information is surrounded by '<' and '>' (what is needed at least when there is a display
 name followed by the address information)
- Ipv6 address in URI
 When an Ipv6 address is used as hostname in a SIP URI it is typically surrounded by '[' and ']' what is matter of the codec: in DL the codec shall add '[' and ']' when needed, in UL the '[' and ']' shall be removed i.e. in the 'host' field of the SipUriComponents' hostPort there shall be no '[' or ']' at the beginning or at the end.

7.3.3.2 URL Encoding

Several fields or parameters in SIP headers require URL encoding (e.g. Contact header, Accept-Contact header). In TTCN there is no encoding rule defined for URL encoding and there is no specific type definition for URL encoded strings. For that reason URL encoding/decoding is not a matter of codec implementation but shall be done in TTCN.

7.3.4 Additional requirements for codec implementations (Message Body)

The message body of a SIP message may contain the message of other protocols (SDP, SMS, etc.) and can be represented e.g. by XML. Therefore the type definitions for these protocols can be TTCN-3 as well as XSD definitions.

As in principle the message body of a SIP message may host any XSD definition, SIP and XSD definitions are decoupled:

To avoid import of all potential XSD definitions the XML body of SIP messages is defined as a charstring. This requires a two-stage encoding and decoding: In DL an XML message needs to be encoded in TTCN first before it gets put in the message body of a SIP message, in UL the XML message contained in the message body needs to be explicitly decoded in TTCN. By defining the XML message body as a charstring the SIP definitions are independent from any XSD definitions and a specific XSD definition needs to be known only when it is really used.

An SDP message may be contained in the message body itself or in a MIME message. In both cases the SDP message is represented as charstring in the SIP message and as for XML a two-stage encoding and decoding is applied in TTCN. This allows explicit fail assignments in case of syntactically incorrect SDP messages when syntactical correctness is a test requirement.

NOTE: Test specifications (e.g. TS 34.229-1 [5]) define the criteria for syntactical correctness and codec implementations follow these criteria.

In detail the message body for SIP messages is defined as:

```
type charstring XmlBody;
type charstring SdpBody;
type union MessageBody {
                      sdpMessageBody
   SdpBody
   XmlBody
                       xmlBody,
   MIME_Message
                      mimeMessageBody,
   charstring
                       sipfrag,
   charstring
                      textplain,
   SimpleMsgSummary,impleMsgSummary,
   octetstring
                      smsMessage
         In contrast to SIP and SDP definitions which are commonly defined by ETSI the definition of the
NOTE:
         message body is project specific i.e. other IMS test projects at ETSI may use different definitions of the
         message body.
```

7.3.5 Additional requirements for codec implementations (SDP Body)

The Session Description Protocol is defined in RFC 4566.

- The 'type' fields (such as 'v' and 'o' are not represented).
- For the defined attributes, the att-field is also not represented (e.g. 'curr' is not represented in SDP_attribute_curr).
- The Messages which are not of interest to a test suite are left undecoded as a charstring and will not be further structured.

7.3.5.1 Differences between BNF - SDP Type Mapping

In normal cases the mapping is straight forward. Below are the exceptions which differ.

- The numerical fields in the origin-field, the time-field and the timezone field have been defined as charstring because they may not fit into a 32-bit signed integer.

| BNF Rules of RFC 4566 | TTCN 3 Type Mapping |
|--|---|
| origin = username sess-id sess-version nettype addrtype unicast-address | type record SDP_Origin { |
| time-fields = start-time stop-time repeat-fields [zone-adjustments] zone-adjustments = time | type record SDP_time_field { |
| typed-time | charstring adjustment_time, SDP_typed_time offset } |

- The zone-adjustments field in the time-fields has been included as an additional field in the top-level message definition.

| BNF Rules of RFC 4566 | TTCN 3 Type Mapping |
|-------------------------------------|---|
| session-description = proto-version | type record SDP_Message { |
| origin-field | integer protocol_version, |
| session-name-field | SDP_Origin origin, |
| information-field | charstring session_name, |
| uri-field | charstring information optional, |
| email-fields | charstring uri optional, |
| phone-fields | SDP_email_list emails optional, |
| connection-field | SDP_phone_list phone_numbers optional, |
| bandwitdh-fields | SDP_connection connection optional, |
| time-fields | SDP_bandwidth_list bandwidth optional, |
| key-fields | SDP_time_list times, |
| attribute-fields | SDP_timezone_list timezone_adjustments |
| media-descriptions | optional, |
| | SDP_key key optional, |
| | SDP_attribute_list attributes optional, |
| | SDP_media_desc_list media_list optional |
| time-fields = start-time | type record SDP_time { |
| stop-time | SDP_time_field time_field, |
| repeat-fields | SDP_repeat_list time_repeat optional |
| [zone-adjustments] | } |

- The mappings for the email-address, phone-number and connection-address fields have been simplified.

| BNF Rules of RFC 4566 | TTCN 3 Type Mapping |
|---|-----------------------------|
| email-address = address-and-comment / dispname-and-address / addrspec | type record SDP_contact { |
| phone-number = email-safe / email-safe "<" phone ">" / phone | type record SDP_contact { |
| connection-address = multicast-address / unicast-address | type record SDP_conn_addr { |

7.3.5.2 Defined attributes

The SDP_attribute type is defined as a union of the following attribute types. There is an unknown attribute given to decode undefined attributes with a name and value.

| SDP Attribute | TTCN 3 Type Mapping |
|---------------|--|
| cat | type record SDP_attribute_cat { |
| charset | type record SDP_attribute_charset { |
| conf | type record SDP_attribute_curr { |
| curr | type record SDP_attribute_curr { |
| des | type record SDP_attribute_des { |
| fmtp | type record SDP_attribute_fmtp { |
| framerate | type record SDP_attribute_framerate { |
| inactive | type record SDP_attribute_inactive { } |
| keywds | type record SDP_attribute_keywds { |
| lang | type record SDP_attribute_lang { |
| orient | type record SDP_attribute_orient { |
| ptime | type record SDP_attribute_ptime { |
| quality | type record SDP_attribute_quality { |
| recvonly | type record SDP_attribute_recvonly { } |
| rtcp | type record SDP_attribute_rtcp { |
| rtpmap | type record SDP_attribute_rtpmap { |
| sdplang | type record SDP_attribute_sdplang { |
| sendrecv | type record SDP_attribute_sendrecv { } |
| sendonly | type record SDP_attribute_sendonly { } |
| Tool | type record SDP_attribute_tool { |
| Туре | type record SDP_attribute_type { |
| | |

| SDP Attribute | TTCN 3 Type Mapping |
|---------------|----------------------------------|
| Unknown | type record SDP_attribute_tool { |

7.3.6 Additional requirements for codec implementations (HTTP)

For HTTP the same types and header are used as for SIP.

 \Rightarrow Rules and requirements are applicable as defined for SIP in clause 7.3.

7.3.7 Additional requirements for codec implementations (XML)

XML data schema is used in IMS conformance testing according to ETSI ES 201 873-9. No further requirements are necessary.

7.4 Requirements for codec implementations (DHCP, DNS)

The DHCP/DNS codec converts TTCN descriptions into/from octet streams as specified in the RFCs. The TTCN type defintions for DHCP/DNS types closely follow the data formats defined in the corresponding RFCs (RFC 1035, RFC 1533, RFC 2131, RFC 3315, RFC 3319 and RFC 3361).

8 Design consideration

- 8.1 Void
- 8.2 Void
- 8.3 Void

8.4 AT commands

All mandatory and optional AT commands are sent as AT command strings as defined above. If an optional AT command is not implemented in the UE, the system adaptor needs to parse the AT command and map it to an appropriate MMI command (which is out of scope for this document).

The following AT commands are applied in TTCN.

Table 8.4-1: AT Commands

| Command |
|-----------|
| AT+CLIP |
| AT+CLIR |
| AT+COLP |
| AT+CCFCU |
| AT+CHLD |
| AT+CDU |
| AT+CHCCS |
| AT+CDEFMP |
| AT+COLR |
| AT+CCWA |
| AT+CNAP |
| AT+CLCK |
| AT+CCMMD |

AT commands are referred to TS 27.007 [49].

8.5 Timer Tolerances

For timers used in conformance test cases according to TS 34.229-1 [5] and TS 34.229-5 [55], a tolerance of 10% shall be applied.

8.6 Bearer information for UTRAN

The Radio Access Bearer for IMS signalling is configured according to TS 34.108 [7] clause 6.10.2.4.1.26.

Annex A (normative): Abstract Test Suites (ATS)

This annex contains the approved ATSs.

The ATSs have been produced using the Testing and Test Control Notation version 3 (TTCN-3) according to ES 201 873 [12].

A.1 Baseline of specifications

Table A.1 lists the core specifications and the test specifications which the delivered ATSs are referred to.

Table A.1: References of the test and Core specifications

| Core specifications | 3GPP TS 24.229 [11] |
|---------------------|-----------------------|
| Test specifications | 3GPP TS 34.229-1 [5] |
| | 3GPP TS 34.229-2 [6] |
| | 3GPP TS 34.229-5 [55] |
| | 3GPP TS 34.123-3 [2] |
| | 3GPP TS 36.523-3 [30] |

A.2 IMS-CC ATS

Table A.2 lists all approved test cases from TS 34.229-1 [5].

Table A.2: IMS-CC TTCN test cases from TS 34.229-1 [5]

| Test case | Description |
|-----------------|--|
| 6.3 | Dedicated PDP Context Establishment |
| 7.1 | P-CSCF Discovery via PDP Context |
| 8.1 | Initial registration |
| 8.2 | User Initiated Re-Registration |
| 8.3 | Mobile Initiated Deregistration |
| 8.4 | Invalid behaviour- 423 Interval too brief |
| 8.15 | Refresh for ISIM parameters |
| 8.16 | User initiated re-registration- 423 Interval Too Brief |
| 9.1 | Invalid Behaviour – MAC Parameter Invalid |
| 9.2 | Invalid Behaviour – SQN out of range |
| 10.1 | Invalid Behaviour – 503 Service Unavailable |
| 11.1 | Network-initiated deregistration |
| 11.2 | Network initiated re-authentication |
| 12.2 | MO Call – 503 Service Unavailable |
| 12.2a | MO Call – 504 Server Time-out |
| 12.12 | MO MTSI Voice Call Successful with preconditions |
| 12.13 | MT MTSI speech call |
| 12.13a | MT MTSI speech call when MO reserves resources before sending INVITE |
| 12.18 | MTSL MO speech call / SSAC / 0% access probability for MTSL MO video call |
| 12.19 | MTSI MO video call / SSAC / 0% access probability for MTSI MO video call |
| 12.20 12.21 | Emergency call / Success / SSAC / 0% access probability for MTSI MO speech call MO MTSI Video call |
| 12.21 | MT MTSI Video call |
| 12.23 | MO MTSI speech call / EVS |
| 12.24 | MT MTSI speech call / EVS |
| 12.25 | MO MTSI speech call / EVS / AMR-WB |
| 12.26 | MT MTSI speech call / EVS / AMR-WB IO mode |
| 15.1 | Originating Identification Presentation |
| 15.2 | Originating Identification Restriction |
| 15.2a | Originating Identification Restriction / Signalling |
| 15.3 | Terminating Identification Presentation |
| 15.4 | Terminating Identification Restriction |
| 15.4a | Terminating Identification Restriction / Signalling |
| 15.5 | Communication Forwarding unconditional |
| 15.7 | Communication Forwarding on non Reply: activation |
| 15.8 | Communication Forwarding on non reply: MO call initiation |
| 15.9 | Communication Forwarding on Busy |
| 15.10 | Communication Forwarding on Not logged-in |
| 15.10a | Communication Forwarding on Not reachable |
| 15.11 | MO Call Hold without announcement |
| 15.11a | MO Video Call Hold without announcement |
| 15.12 | MT Call Hold without announcement MT Video Call Hold without announcement |
| 15.12a 15.13 | |
| 15.13 15.14a | Incoming Communication Barring except for a specific user Communication barring while roaming |
| 15.14b | Outgoing Communication Barring while roaming |
| 15.15 | Subscription to the MWI event package |
| 15.17 | Creating a conference |
| 15.19 | Inviting user to conference by sending a REFER request to the conference focus |
| 15.19a | Inviting user to conference by sending a REFER request to the conference focus / Video |
| 15.21a | Three way session creation |
| 15.21c | Three way session creation / Video |
| 15.25 | MO Explicit Communication Transfer – Consultative Call Transfer |
| 15.27 | Communication Waiting and answering the call |
| 15.28 | Communication Waiting and cancelling the call |
| 15.29 | GBA authentication |
| 16.2 | Speech AMR, indicate selective codec modes |
| 16.3 | Speech AMR-WB, indicate all codec modes |
| 16.4 | Speech AMR-WB, indicate selective codec modes |
| 17.1 | MO Speech, add video remove video |
| 17.2 | MT Speech, add video remove video |
| 18.1 | Mobile Originating SMS |
| 18.2 | Mobile Terminating SMS |
| 19.1.1 | Emergency call with emergency registration / Success / Location information available |

| 19.1.2 | Emergency call with emergency registration / Success / Location information not available |
|--------------------|---|
| 19.1.3 | Emergency call with emergency registration / Abnormal case / IM CN sends a 380 / UE performs emergency call via CS domain / UTRAN or GERAN |
| 19.1.5 | Emergency call with emergency registration / Emergency SIP signalling and media in parallel with an other ongoing IM CN subsystem signalling and media |
| 19.1.6 | Emergency call with emergency registration / Success / GIBA against a network with GIBA support only |
| 19.3.1 | Non-UE detectable emergency call / IM CN sends a 1xx response / UE geographical location information available |
| 19.3.2 | Non-UE detectable emergency call / IM CN sends 380 Alternative Service including emergency service URN and no emergency subservice type / Non-emergency IMS |
| 19.3.2b | registration / UTRAN or GERAN Non-UE detectable emergency call / IM CN sends a 380 with unavailable emergency |
| | service URN / UE performs normal call via CS domain / UTRAN or GERAN |
| 19.3.2c | Non-UE detectable emergency call / IM CN sends a 380 with available emergency service URN / UE performs CS Emergency call via CS domain / UTRAN or GERAN |
| 19.3.3 | Non-UE detectable emergency call / IM CN sends 380 Alternative Service / Emergency IMS registration |
| 19.3.4 | Non-UE detectable emergency call / IM CN sends 380 with an Alternative Service / Previous emergency IMS registration not expired |
| 19.4.1 | Emergency call without emergency registration / EPS / UE does not contain an ISIM or USIM |
| 19.4.2 | Emergency call without emergency registration / EPS / UE contains an ISIM or USIM / UE is in state EMM-REGISTERED.LIMITED-SERVICE |
| 19.4.5 | Emergency call without emergency registration / UE credentials are not accepted |
| 19.4.6 | Emergency call without emergency registration / Failure of registration / Rejected by 403(Forbidden) |
| 19.4.7 | Emergency call without emergency registration / Failure of registration / against a network with GIBA support only |
| 19.5.1 | New initial emergency registration / UE obtains from the serving IP-CAN an IP address |
| 10.5.0 | different than the IP address used for the emergency registration |
| 19.5.6 | User-initiated emergency reregistration / UE has emergency related ongoing dialog |
| 19.5.7 | User-initiated emergency reregistration / The user initiates an emergency call |
| 19.5.8 | User-initiated emergency reregistration / Standalone transactions exist |
| 19.5.9 | In parallel emergency and non-emergency registrations |
| 19.5.10 | Deregistration upon emergency registration expiration |
| 20.1 | Mobile Originating CAT – Forking Model |
| 21.1 | eCall over IMS / Manual initiation / Normal registration / Emergency registration / Success / 200 OK with ACK |
| 21.2 | eCall over IMS / Automatic initiation / Normal registration / Emergency registration / Success / 200 OK with ACK |
| 22.1 | MO Call – UE is able to refresh the session |
| 22.2 | MO Call – Remote end is refresher |
| 22.3 | MO Call – Remote end does not support Session Timer |
| 22.4 | MO Call – Remote end seems oblivious to Session Timer paramters |
| 22.5 | MT Call – Remote end does not send Session-Expires |
| 22.6 | MT Call – Remote end sends Session-Expires but does not choose refresher |
| 22.7 | MT Call – Remote end chooses UE as refresher |
| 22.8 | MT Call – Remote end does not support Session Timer |
| G.8.1 | Initial Registration / WLAN |
| G.12.1 | MO MTSI speech call / WLAN |
| G.12.2 | MT MTSI speech call / WLAN |
| G.12.2 G.12.3 | MO MTSI video call / WLAN |
| G.12.3 G.12.4 | MT MTSI video call / WLAN |
| G.12.4 G.15.2 | Originating Identification Restriction / WLAN |
| G.15.2 G.15.4 | Terminating Identification Restriction / WLAN |
| G.15.4 G.15.11 | MO Call Hold without announcement / WLAN |
| G.15.11 G.15.12 | |
| | MT Call Hold without announcement / WLAN |
| G.15.13 | MO video Call Hold without announcement / WLAN |
| G.15.14 | MT video Call Hold without announcement / WLAN |
| G.15.17 | Subscription to the MWI event package / WLAN |
| G.15.18 | Inviting user to conference by sending a REFER request to the conference focus / WLAN |
| G.15.20 | Three way session creation / WLAN |
| G.15.21 | Inviting user to conference by sending a REFER request to the conference focus for video / WLAN |
| - | |

| G.15.23 | Three way session creation for video / WLAN |
|---------|---|
| G.15.24 | Communication Waiting and answering the call / WLAN |
| G.15.25 | Communication Waiting and cancelling the call / WLAN |
| G.17.1 | MO Speech, add video remove video / WLAN |
| G.17.2 | MT Speech, add video remove video / WLAN |
| J.8.1 | Initial Registration / UE category M1 |
| J.12.1 | MO MTSI speech call / UE category M1 |
| J.12.2 | MT MTSI speech call / UE category M1 |
| J.15.1 | Communication Waiting and answering the call / UE category M1 |
| J.15.2 | Communication Waiting and cancelling the call / UE category M1 |
| J.15.3 | Subscription to the MWI event package / UE category M1 |
| J.15.4 | Originating Identification Restriction / UE category M1 |
| J.15.6 | Communication forwarding on non reply: MO call initiation / UE category M1 |
| J.18.2 | Mobile Terminating SMS / UE category M1 |
| J.19.1 | Emergency call with emergency registration / Success / Location information available |
| | / UE |
| J.19.2 | Emergency call with emergency registration / Success / Location information not |
| | available / UE category M1 |

The Test Suite in TTCN-3 is contained in multiple ASCII files which accompany the present document.

A.2.1 Void

A.2.2 Void

A.2.3 Void

A.3 IMS_NR5GC ATS

Table A.3 lists all approved test cases from TS 34.229-5 [55].

Table A.3: IMS_NR5GC TTCN test cases from TS 34.229-5 [55]

| Test case | Description |
|--------------------------|--|
| 6.1.NR5GC | Initial Registration / 5GS |
| 6.2.NR5GC | Initial Registration Failures / 5GS |
| 6.3.NR5GC | Re-Registration Scenarios / 5GS |
| 6.4.NR5GC | De-Registration Scenarios / 5GS |
| 6.6.NR5GC | Re-Registration after capability update / 5GS |
| 6.7.NR5GC | Authentication / MAC Parameter Invalid / Only two consecutive invalid challenges / |
| | 5GS |
| 6.8.NR5GC | Authentication / Security-Server missing / SQN out of range / 5GS |
| 6.9.NR5GC | Subscription / 503 Service Unavailable / 5GS |
| 7.1.NR5GC | MTSI MO Voice Call / 503 Service Unavailable / 5GS |
| 7.2.NR5GC | MTSI MO Voice Call / 504 Server Time-out / 5GS |
| 7.4.NR5GC | MTSI MO Voice Call with preconditions at both originating UE and terminating UE / |
| | 5GS |
| 7.5.NR5GC | MTSI MO Voice Call without preconditions at both originating UE and terminating UE / |
| | 5GS |
| 7.6.NR5GC | MTSI MT Voice Call with preconditions at both originating UE and terminating UE / |
| | 5GS |
| 7.7.NR5GC | MTSI MT Voice Call without preconditions at both originating UE and terminating UE / |
| | 5GS |
| 7.8.NR5GC | MTSI MT Voice Call without preconditions at originating UE and with preconditions at |
| 7.0 ND500 | terminating UE / 5GS |
| 7.9.NR5GC | MTSI MT Voice Call with preconditions at originating UE and without preconditions at |
| 7.40 NDCCC | terminating UE / 5GS |
| 7.10.NR5GC 7.11.NR5GC | MTSI MT Voice call without preconditions and without SDP offer in MT INVITE / 5GS |
| 7.11.NR5GC | MTSI MT Voice call without preconditions at terminating UE and originating UE requiring them / 5GS |
| 7.12.NR5GC | MTSI MO Voice Call with preconditions at originating UE and without preconditions at |
| 7.12.INIX3GC | terminating UE / 5GS |
| 7.13.NR5GC | MTSI MT Voice Call with RTCP disabled / 5GS |
| 7.18.NR5GC | MTSI MO Voice Call / EVS / AMR-WB / 5GS |
| 7.19.NR5GC | MTSI MT Voice Call / EVS / AMR-WB IO mode / 5GS |
| 7.25.NR5GC | MTSI MT Voice call without SDP offer in INVITE / 5GS |
| 7.26.NR5GC | Mobile Originating CAT / Forking Model / 5GS |
| 7.27.NR5GC | Session Timer / MO Call / UE is able to refresh the session / 5GS |
| 7.28.NR5GC | Session Timer / MO Call / Remote end is refresher / 5GS |
| 7.29.NR5GC | Session Timer / MO Call / Remote end does not support Session Timer / 5GS |
| 7.30.NR5GC | Session Timer / MO Call / Remote end supports but does not use Session Timer / 5GS |
| 7.31.NR5GC | Session Timer / MT Call / Remote end supports but does not send Session-Expires / |
| | 5GS |
| 7.32.NR5GC | Session Timer / MT Call / Remote end sends Session-Expires but does not choose |
| | refresher / 5GS |
| 7.33.NR5GC | Session Timer / MT Call / Remote end chooses UE as refresher / 5GS |
| 7.34.NR5GC | Session Timer / MT Call / Remote end does not support Session Timer / 5GS |
| 8.26.NR5GC | MO Call Hold without announcement / 5GS |
| 8.28.NR5GC | MT Call Hold without announcement / 5GS |
| 8.30.NR5GC | Subscription to the MWI event package / 5GS |
| 8.38.NR5GC | Communication Waiting and cancelling the call / 5GS |
| 9.1.NR5GC | Mobile Originating SMS / 5GS |
| 9.2.NR5GC | Mobile Terminating SMS / 5GS |
| 9.3.NR5GC | Mobile Originating Concatenated SMS / 5GS |
| 9.4.NR5GC | Mobile Terminating Concatenated SMS / 5GS |
| 9.5.NR5GC | Mobile Originating SMS / RP-ERROR / 5GS |
| 0.0.141.000 | product originating divident in Little 17 7000 |

Annex B (normative): Partial IXIT proforma

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the partial IXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed partial IXIT.

B.0 Introduction

This partial IXIT proforma contained in the present document is provided for completion, when the related Abstract Test Suite is to be used against the Implementation Under Test (IUT).

Text in *italics* is comments for guidance for the production of an IXIT, and is not to be included in the actual IXIT.

The completed partial IXIT will normally be used in conjunction with the completed ICS, as it adds precision to the information provided by the ICS.

B.1 Parameter values

B.1.1 PIXITs

Table B.1.1: PIXIT

| Parameter name | Description | Туре | Default value | Supported value |
|--|---|------------|--|--|
| px_IMS_AssociatedTelUri | TEL URI for the user | charstring | "+331234567" | format shall be TEL URI |
| px_IMS_CalleeUri | address the remote UE (NOTE 1) | charstring | "sip:User- B@3gpp.org" | |
| px_IMS_CalleeUri2 | remote UE (NOTE 1) | charstring | " sip:User- C@3gpp.org " | |
| px_IMS_CalleeContactUri | URI provided by the remote side (i.e. by SS) to be used by the UE as contact address in further SIP signalling of the dialog (NOTE 1) | charstring | "sip:User-B- Contact@3gpp.o rg" | |
| px_IMS_CalleeContactUri2 | URI provided by the remote side (i.e. by SS) to be used by the UE as contact address in further SIP signalling of the dialog (NOTE 1) | charstring | "sip:User-C- Contact@3gpp.o rg" | |
| px_IMS_CiphAlgo_Def | Ciphering Algorithm; NOTE: Unless specified otherwise in the test prose "nociph" shall not be used for verification | CiphAlgo | des_ede3_cbc | enumerated type: des_ede3_cbc, aes_cbc or nociph |
| px_IMS_HomeDomainNam e | Home Domain Name. Applicable when using an ISIM: same value as EFDOMAIN. (derived from the IMSI otherwise) FBBA: value as preconfigured at the UE | charstring | As defined in TS 34.229-1 [5], Annex E | |
| px_IMS_HomeDomainNam e_Refreshed | used in 8.15 | charstring | "refreshed3gpp. org" | |
| px_IMS_Private_UserId_Ref reshed | used in 8.15 | charstring | "privateuser@ref reshed3gpp.org" | |
| px_IMS_PublicUserIdentity1 _Refreshed | used in 8.15 | charstring | "sip:PublicId1@r efreshed3gpp.or g" | |
| px_IMS_MessageAccountId entity | used in 15.15 | charstring | "" | |

| Parameter name | Description | Туре | Default value | Supported value |
|------------------------------------|---|------------|---|---|
| | List of comma separated integer values that can be used as SPI values for IMS security on PDN1; each value shall be ≥ 256 | charstring | "" | ., |
| px_IMS_SPI_ValidValueList _PDN2 | List of comma separated integer values that can be used as SPI values for IMS security on PDN2; each value shall be ≥ 256 | charstring | "" | |
| px_IMS_IPSecAlgorithm | Integrity Algorithm | IntAlgo | hmac_sha_1_96 | enumerated type; hmac_md5_96, hmac_sha_1_96 |
| px_IMS_Private_UserId | Private User Identity. Applicable when using an ISIM: same value as EF _{IMPI} . (derived from the IMSI otherwise) FBBA: username as used for authorization | charstring | As defined in TS 34.229-1 [5], Annex E | |
| px_IMS_PublicUserIdentity1 | Public User Identity. It is set to the same value as the first record in EF _{IMPU} . FBBA: IMPU preconfigured in the UE | Charstring | As defined in TS 34.229-1 [5], Annex E | |
| px_IMS_PublicUserIdentity2 | It is set to the same value as the second record in EF _{IMPU} . | Charstring | As defined in TS 34.229-1 [5], Annex E | |
| px_IMS_PublicUserIdentity3 | It is set to the same value as the third record in EF _{IMPU} . | Charstring | As defined in TS 34.229-1 [5], Annex E | |
| px_SMS_SMSC_Internation alNumber | international number of the SMSC: Dialled number string of the TS-Service Centre Address according to clause 4.5.3.9 "EFSMSP (Short message service parameters)" in TS 31.121 [52] (TON is assumed to be "International Number"). | charstring | As defined in Annex E.3.2.14 of TS 34.229-1 [5]: "112233445566 778" according to TS 31.121 [52]. | |
| px_UEwithISIM | true: UE has ISIM false: UE has USIM only | boolean | true | |
| px_DigestPasswordForXCA P | XCAP password | charstring | "XCAP- Password" | |
| px_XCAP_RootUri | the UE | | "/XCAP.3gpp.or g" | |
| px_XCAP_TargetUri | Target (SIP or TEL URI) where to forward to | charstring | "sip:user@doma in.com" | |
| px_XCAP_Username | username to be used for HTTP authentication in case of pc_XCAP_UsernameIsConfiguredInUE ==true | charstring | | |

B.2 MMI Commands

In addition to the MMI commands defined in TS 36.523-3 clause 5 there are further MMI commands for IMS:

Table B.2.1-1: MMI commands

| Command | Paran | neters |
|------------------------------|----------------------------|------------------------------|
| Command | Name | Value |
| "DEREGISTER" | (no | ne) |
| "ACCEPT_MTSI_TEXT" | (no | ne) |
| "ACTIVATE_MESSAGE_WAIT_INDIC | _MESSAGE_WAIT_INDIC (none) | |
| ATION" | | |
| "TRIGGER_SMS" | (none) | |
| "REFRESH" | "Uri" | <callee's uri=""></callee's> |
| "INVITE_TO_CONFERENCE" | "Uri" | <refer-to uri=""></refer-to> |
| "IMS_INITIATE_CONFERENCE" | (no | ne) |
| "ACTIVATE_IMS_TIR" (none) | | ne) |
| "DEACTIVATE_IMS_TIR" | (none) | |

Annex C: Void

Annex D: Void

Annex E (informative): TTCN-3 style guide for 3GPP IMS ATS

For IMS conformance tests, the style guide of 36.523-3[30], Annex B shall be applied.

Annex F (informative): BNF Message Definitions

The BNF definitions required for the ATS are defined in the following RFCs:

3261, 3262, 3265, 3311, 3313, 3323, 3325, 3326, 3327, 3329, 3428, 3455, 3515, 3608, 3840, 3841, 3891, 3892, 3903, 3911, 4028.

Annex G (Normative): SIP Type Definitions and XSD References

G.0 References of XSD and SIP Type Definitions

G.0.1 XML Schema Definitions (XSD)

The XSD references listed in this Annex are imported in the Test Suite.

Table G.0.1-1: Common Definitions

| XML Schema | Source | Name space | Modifications |
|--|---|--|--|
| RFC3680_reginfo | RFC 3680 [24] | urn:ietf:params:xml:ns:reginfo | |
| RFC4575_conference-info | RFC 4575 [45] | urn:ietf:params:xml:ns:conference-info | |
| RFC5628_gruuinfo | RFC 5628 [46] | urn:ietf:params:xml:ns:gruuinfo | |
| 24229_AlternativeService | TS 24.229 [11] Table 7.6.1 | NoTargetNamespace | |
| RFC3863_pdif | RFC 3863 [47] | urn:ietf:params:xml:ns:pidf | definitions modified according to errata id 1606 |
| RFC4119_pdif_geopriv10 | RFC 4119 [44] | urn:ietf:params:xml:ns:pidf:geopriv10 | NOTE: RFC's errata has no impact on definitions |
| RFC4119_pdif_geopriv10_ basicPolicy | RFC 4119 [44] | urn:ietf:params:xml:ns:pidf:geopriv10:bas icPolicy | NOTE: RFC's errata has no impact on definitions |
| RFC4119_pdif_geopriv10_ civicLoc | RFC 4119 [44] | urn:ietf:params:xml:ns:pidf:geopriv10:civi cLoc | NOTE: RFC's errata has no impact on definitions |
| 24237_SRVCC | TS 24.237 [51] Annex D.2 | NoTargetNamespace | |
| Xml | http://w ww.w3. org/200 1/03/x ml.xsd | http://www.w3.org/XML/1998/namespace | |
| RFC8147_next_generation ecall | RFC 8147 | urn:ietf:params:xml:ns:EmergencyCallDat a:control | |
| 24390_ussd_data | TS 24.390 [53] clause 5.1.3.4 | NoTargetNamespace | |

Table G.0.1-2: XCAP specific definitions

| XML Schema | Source | Name space |
|-----------------------|----------------|--|
| TS24604 | TS 24.604 [40] | http_uri_etsi_org_ngn_params_xml_simservs_xcap |
| TS24607-OIP-OIR | TS 24.607 [41] | http_uri_etsi_org_ngn_params_xml_simservs_xcap |
| TS24608-TIP-TIR R2 | TS 24.608 [42] | http_uri_etsi_org_ngn_params_xml_simservs_xcap |
| TS24611 | TS 24.611 [43] | http_uri_etsi_org_ngn_params_xml_simservs_xcap |
| XCAP | TS 24.623 [36] | http_uri_etsi_org_ngn_params_xml_simservs_xcap |
| xdm_commonPolicy-V1_0 | | urn_oma_xml_xdm_common_policy |
| RFC4745-common-policy | RFC 4745 [48] | urn_ietf_params_xml_ns_common_policy |

Table G.0.1-3: GBA specific definitions

| XML Schema | Source | Name space |
|------------|----------------|--------------|
| TS24109 | TS 24.109 [33] | uri_3gpp_gba |

In order to avoid ambiguities and unexpected side effects due to tool specific behaviour the schemaLocation in xs:import statements of XSD files are modified to use local references rather than references to internet locations.

The schemaLocations are shown in table G.0.1-4.

Table G.0.1-4: schemaLocation of imported namespaces

| XML Schema | Imported name space | Original schemaLocation | Modified schemaLocation |
|--|--|-----------------------------------|--|
| RFC3680_reg info | http://www.w3.org/XML/ 1998/namespace | http://www.w3.org/2001/03/xml.xsd | //Common/IMS_XSD/xml.xsd |
| RFC3863_pdif | http://www.w3.org/XML/ 1998/namespace | http://www.w3.org/2001/xml.xsd | //Common/IMS_XSD/xml.xsd |
| RFC4119_pdif _geopriv10 | http://www.w3.org/XML/ 1998/namespace | http://www.w3.org/2001/xml.xsd | //Common/IMS_XSD/xml.xsd |
| RFC4119_pdif _geopriv10_b asicPolicy | http://www.w3.org/XML/ 1998/namespace | http://www.w3.org/2001/xml.xsd | //Common/IMS_XSD/xml.xsd |
| RFC4575_con ference-info | http://www.w3.org/XML/ 1998/namespace | http://www.w3.org/2001/03/xml.xsd | //Common/IMS_XSD/xml.xsd |
| TS24604 | urn:ietf:params:xml:ns: common-policy | common-policy.xsd | //Common/IMS_XSD/RFC4745- common-policy.xsd |
| TS24604 | urn:oma:xml:xdm:com mon-policy | xdm_commonPolicy-V1_0 | (no change needed) |
| TS24611 | urn:ietf:params:xml:ns: common-policy | common-policy.xsd | //Common/IMS_XSD/RFC4745- common-policy.xsd |
| TS24611 | urn:oma:xml:xdm:com mon-policy | xdm_commonPolicy-V1_0 | (no change needed) |

G.0.2 Common TTCN-3 Libraries

Additionally the Test Suite imports the following modules of ETSI's LibSip (ETSI SIP Library, see):

| Module | Revision |
|------------------------------|---------------|
| LibSip_Common | LibSip v3.0.5 |
| LibSip_SDPTypes | LibSip v3.0.5 |
| LibSip_SimpleMsgSummaryTypes | LibSip v3.0.5 |
| LibSip_SIPTypesAndValues | LibSip v3.0.5 |

The LibSip module LibSip_MessageBodyTypes (imported by LibSip_SIPTypesAndValues) contains type definitions for the message body of SIP messages which in general are project specific. For 3GPP conformance testing LibSip_MessageBodyTypes is defined as shown below.

G.1 LibSip_MessageBodyTypes

LibSip_MessageBodyTypes: Basic Type Definitions

| TTCN-3 Basic Types | | |
|--------------------|------------|--|
| XmlBody | charstring | |
| SdpBody | charstring | |

MIME_FieldName

| TTCN-3 Enumerated T | TTCN-3 Enumerated Type | | |
|--------------------------------|------------------------|--|--|
| Name | MIME_FieldName | | |
| Comment | | | |
| MIME_CONTENT_DI SPOSITION_E | | | |
| MIME_CONTENT_T YPE_E | | | |
| MIME_CONTENT_ID _E | | | |

MessageBody

| TTCN-3 Union T | TTCN-3 Union Type | | | |
|----------------------|-------------------|---|--|--|
| Name | MessageBody | | | |
| Comment | | | | |
| sdpMessageBo dy | SdpBody | to be applied when contentType is "application/sdp" | | |
| xmlBody | XmlBody | to be applied when contentType indicates an XML body, e.g. matches "application/xml", "text/xml", "application/(.*)+xml" | | |
| mimeMessage Body | MIME_Message | to be applied when contentType is "multipart/mixed" | | |
| simpleMsgSum mary | SimpleMsgSummary | RFC 3842 (Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol); to be applied when contentType is "application/simple-message-summary" | | |
| smsMessage | octetstring | encoded SMS message 3GPP 23.040, 24.011; to be applied when contentType is "application/vnd.3gpp.sms" | | |
| commonText | charstring | to be applied when contentType indicates text based content other than SDP, XML or simple message summary, e.g. "application/mikey" (base64encoded), "application/json", "text/html", "application/x-www-form-urlencoded" | | |
| commonBinary | octetstring | to be applied when contentType indicates binary data other than SMS, e.g. "application/EmergencyCallData.eCall.MSD" | | |

G.1.1 MIMETypes

MIME_ContentDisposition

| TTCN-3 Record | TTCN-3 Record Type | | |
|-----------------------|--|-----|--|
| Name | MIME_ContentDisposition | | |
| Comment | RFC 2183 | | |
| fieldName | MIME_FieldName (MIME_CONTENT_DISPO SITION_E) | | |
| dispositionType | charstring | | |
| dispositionPara ms | SemicolonParam_List | opt | |

MIME_ContentType

| TTCN-3 Record | TTCN-3 Record Type | | |
|--------------------|---|-----|--|
| Name | MIME_ContentType | | |
| Comment | RFC 2045 clause 5 | | |
| fieldName | MIME_FieldName (MIME_CONTENT_TYPE_ E) | | |
| typeAndSubtyp e | charstring | | |
| typeParams | SemicolonParam_List | opt | |

MIME_ContentId

| TTCN-3 Record | TTCN-3 Record Type | | |
|---------------|---------------------|--|--|
| Name | MIME_ContentId | | |
| Comment | RFC 2045 clause 7 | | |
| fieldName | MIME_FieldName | | |
| | (MIME_CONTENT_ID_E) | | |
| msgld | charstring | | |

MIME_Part_Header

| TTCN-3 Set Type | | | |
|-----------------|-------------------------|-----|--|
| Name | MIME_Part_Header | | |
| Comment | | | |
| contentType | MIME ContentType | | |
| contentDisposit | MIME_ContentDisposition | opt | |
| ion | | | |
| contentId | MIME ContentId | opt | |

MIME_Part_Body

| TTCN-3 Union T | TTCN-3 Union Type | | |
|--------------------|-------------------|--|--|
| Name | MIME_Part_Body | | |
| Comment | | | |
| sdpMessageBo dy | SdpBody | to be applied when contentType is "application/sdp" | |
| xmlBody | XmlBody | to be applied when contentType indicates an XML body, e.g. matches "application/xml", "text/xml", "application/(.*)+xml" | |
| commonText | charstring | to be applied when contentType indicates text based content other than SDP or XML, e.g. "application/mikey" (base64encoded), "application/json", "text/html", "application/xwww-form-urlencoded" | |
| commonBinary | octetstring | to be applied when contentType indicates binary data, e.g. "application/EmergencyCallData.eCall.MSD" | |

MIME_Part

| TTCN-3 Record Type | | |
|--------------------|------------------|--|
| Name | MIME_Part | |
| Comment | | |
| header | MIME Part Header | |
| body | MIME_Part_Body | |

MIME_Message

| TTCN-3 Record Type | | |
|--------------------|----------------|---|
| Name | MIME_Message | |
| Comment | | |
| boundary | charstring | boundary according to RFC 2046 clause 5.1.1 |
| mimePartList | MIME Part List | |

MIME_Part_List

| TTCN-3 Set of Type | |
|--------------------|----------------|
| Name | MIME_Part_List |
| Comment | |
| set of MIME_Part | |

G.2 References to TTCN-3

| References to TTCN-3 | | |
|----------------------|---|-----------|
| LibSip_MessageBo | IMS_LibSip/LibSip_MessageBodyTypes.ttcn | Rev 28285 |
| dvTvpes | | |

Annex H (informative): TTCN-3 Definitions of Common Interfaces

The multi-testers model according to clause 5 provides interfaces which can be re-used by implementations of the IP-CAN test model according to TS 34.229-4 [50].

NOTE: Common type definitions are according to annex D of TS 36.523-3 [30].

H.1 IMS_PTC_CoordMsg

IMS_TestProcedure_Type

| TTCN-3 Enumerated Type | | | |
|------------------------|---|--|--|
| Name | IMS_TestProcedure_Type | | |
| Comment | | | |
| IPCAN_InitialRegistra | EUTRA/EPS signalling acc. to 36.508 cl. 4.5.2.3 without RRC Connection Release at the end of | | |
| tion | the procedure | | |
| | NOTE: As working assumption the UE does IMS REGISTRATION automatically after RRC/NAS registration | | |
| IPCAN_EmergencyC | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.4.3 | | |
| all_NormalService | | | |
| IPCAN_EmergencyC | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.4.3, but with Call Release according to 34.229-1 | | |
| all_NoRegistration | C.32a | | |
| IPCAN_EmergencyC | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.5.3 | | |
| all_LimitedService | | | |
| IPCAN_MO_Speech | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.6.3 | | |
| Call | | | |
| IPCAN_MT_SpeechC | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.7.3 | | |
| all | | | |
| IPCAN_MO_VideoCa | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.8.3 | | |
| IPCAN_MT_VideoCal | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.9.3 | | |
| I | | | |
| IPCAN_MO_AddVide | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.11.3 | | |
| 0 | | | |
| IPCAN_MT_AddVide | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.12.3 | | |
| IPCAN_ReleaseVide | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.15.3 | | |
| 0 | 25 11 0 V21 0 digitalining doc. to 00.000 di. 1.0/1.10.0 | | |
| IPCAN_MO_IMS_Sig | EUTRA/EPS signalling acc. to 36.508 cl. 4.5.3.3 with m = n = 0; used e.g. for MT SMS test case | | |
| nalling | 18.2 | | |
| IPCAN_MT_IMS_Sig | EUTRA/EPS signalling acc. to 36.508 cl. 4.5.3.3 Steps 3 to 9 with m = n = 0; used e.g. for MT | | |
| nalling | SMS test case 18.1 | | |
| IPCAN_XCAP_Signal | EUTRA/EPS signalling acc. to 36.508 cl. 4.5A.14 | | |
| ling | | | |
| IPCAN_AdditionalIPA | CR 213400 | | |
| ddress | | | |

IMS_TestConfiguration_Type

| TTCN-3 Enumerated T | TTCN-3 Enumerated Type | | |
|---------------------|--|--|--|
| Name | IMS_TestConfiguration_Type | | |
| Comment | | | |
| IPCAN_SignallingOnl | EUTRA: default DRB is used only | | |
| у | | | |
| IPCAN_SpeechCall | EUTRA: one dedicated UM bearer; for normal speech calls and emergency call for limited | | |
| | services | | |
| IPCAN_VideoCall | EUTRA: two dedicated UM bearers | | |
| IPCAN_EmergencyC | EUTRA: second default bearer (AM) and one dedicated UM bearer | | |
| all | | | |
| IPCAN_SpeechAndE | EUTRA: default bearer + dedicated bearer for normal speech call and another default bearer + | | |
| mergencyCall | dedicated bearer for emergency call | | |
| IPCAN_XCAP | EUTRA: second default bearer (AM) for second PDN used for XCAP signalling | | |

IPCAN_INFO_Type

| TTCN-3 Record Type | | |
|--------------------|---|---|
| IPCAN_INFO_Type | | |
| | | |
| IPCAN_RAN_Type | opt | |
| integer | opt | |
| integer | opt | |
| boolean | | |
| | IPCAN_INFO_Type IPCAN_RAN_Type integer integer | IPCAN_INFO_Type IPCAN_RAN_Type opt integer opt |

IMS_IPCAN_CommandName_Type

| TTCN-3 Enumerated Type | | |
|--|--|--|
| Name | IMS_IPCAN_CommandName_Type | |
| Comment | | |
| IPCAN_INIT | trigger the IPCAN_PTC to create a cell and do further appropriate initialisation; which RAN technology to be use is decided by the IPCAN_PTC based on PIXITs; as test procedure shall be specified which procedure is used during the test body to know which DRBs need to be pre-configured; IPCAN returns response indicating the RAN type | |
| IPCAN_STARTPRO CEDURE | trigger the IPCAN to expect (MO) or page (MT) the UE to establish an RRC connection; depending on the connection type triggers may need to be sent from IPCAN to IMS or from IMS to IPCAN to synchronise establishment of dedicated DRBs (EUTRA) or secondary PDP contexts (UTRAN) | |
| IPCAN_ENDPROCE DURE | trigger RRC connection release by the IPCAN_PTC; as a SIP message may be sent out just before end of the procedure in general a delay of 2s shall be added before sending IPCAN_ENDPROCEDURE to IPCAN; for UTRAN it is up to IPCAN and SS implementation to cope with possible/necessary release of (secondary) PDP context; a trigger shall be sent from IPCAN to IMS to indicate when RRC connection is released | |
| IPCAN_RELEASE | Detach UE and release cell (postamble); a trigger is shall be sent from IPCAN to IMS to indicate when IPCAN is released | |
| IPCAN_QUERY | query information from the IPCAN PTC | |
| IPCAN_PROVIDELO CATIONINFORMATI ON | trigger IPCAN to provide UELocationInformation to the UE acc. to 36.509 | |

IMS_IPCAN_Command_Type

| TTCN-3 Record Type | | | |
|--------------------|---------------------------|-----|--|
| Name | IMS_IPCAN_Command_Typ | е | |
| Comment | Messages IMS_PTC -> IPCA | N | |
| Name | IMS IPCAN CommandNa | | |
| | me_Type | | |
| TestConfigurati | IMS TestConfiguration Typ | opt | |
| on | <u>e</u> | | |
| TestProcedure | IMS TestProcedure Type | opt | |

IMS_IPCAN_ResponseName_Type

| TTCN-3 Enumerated | TTCN-3 Enumerated Type | | |
|-------------------|--|--|--|
| Name | IMS_IPCAN_ResponseName_Type | | |
| Comment | | | |
| IPCAN_INIT | response for INIT command: carries the RAN type as used by the IPCAN PTC; the RAN type depends on PIXIT settings: part 4 model: px_RANTech part 3 model: EUTRA_FDD or EUTRA_TDD depending on px_ePrimaryFrequencyBand (px_ePrimaryFrequencyBand < 33 => FDD) | | |
| IPCAN_QUERY | | | |

IPCAN_IMS_Response_Type

| TTCN-3 Record Type | | | |
|--------------------|---------------------------------|-----|--|
| Name | IPCAN_IMS_Response_Type | | |
| Comment | | | |
| Name | IMS IPCAN ResponseNa me_Type | | |
| IpcanInfo | IPCAN_INFO_Type c | opt | |

IPCAN_IMS_Control_Type

| TTCN-3 Union T | TTCN-3 Union Type | | |
|----------------------|------------------------|--|--|
| Name | IPCAN_IMS_Control_Type | | |
| Comment | | | |
| Reset | Null_Type | to reset IMS after UE has been switched off and gets switched on again | |
| IpcanInd | Null_Type | to indicate to IMS which IPCAN is active (at port IPCAN or at port OtherIPCAN) | |
| ReregistrationS tart | IPCAN_RAN_Type | to prepare IMS PTC for (optional) re-registration | |
| ReregistrationS top | Null_Type | to indicate to IMS PTC that no re-registration will happen anymore | |
| NoRegistration | Null_Type | no IMS registration shall happen (e.g. due to test loop mode being activated) | |

IMS_IPCAN_Coordination_MSG

| TTCN-3 Union T | TTCN-3 Union Type | | |
|---------------------------|---------------------------------|--|--|
| Name | IMS_IPCAN_Coordination_MSG | | |
| Comment | | | |
| TriggerEvent | Null_Type | any trigger of confirmation | |
| AbortEvent | Null_Type | sent instead of TriggerEvent if procedure shall be aborted | |
| IPCAN_IMS_C ontrol | IPCAN IMS Control Type | IMS <- IPCAN: to control IMS (default behaviour) | |
| IMS_IPCAN_C ommand | IMS_IPCAN_Command_Type | IMS -> IPCAN: command from the IPCAN to control IMS (mainly for IMS default behaviour) | |
| IPCAN_IMS_R esponse | IPCAN IMS Response Type | IMS <- IPCAN: response for previous command | |
| ProtocolConfig Options | NAS_ProtocolConfigOptions_Typ e | IMS <-> IPCAN: PCOs to be used in NAS signalling | |
| IPCAN_IMS_D ata | charstring | IMS <- IPCAN: to send data from IPCAN to IMS | |
| DrbInfo | IP_DrbInfo_Type | IMS <- IPCAN: to send DrbInfo for MediaControlInfo (MCX) and HTTP to MCX_IMS_PTC | |

IMS_IPCAN_CO_ORD_PORT

| TTCN-3 Port Type | | |
|------------------|----------------------------|--|
| Name | IMS_IPCAN_CO_ORD_PORT | |
| Comment | | |
| out | IMS_IPCAN_Coordination_MSG | |
| in | IMS IPCAN Coordination MSG | |

H.2 IMS_ASP_TypeDefs

IMS_ASP_TypeDefs: Basic Type Definitions

| TTCN-3 Basic Types | | | | |
|--|--------------|---|--|--|
| IMS_Request_Type | RequestUnion | Alias for "RequestUnion" as defined in LibSip_SIPTypesAndValues | | |
| IMS_Response_Type | Response | Alias for "Response" as defined in LibSip_SIPTypesAndValues | | |
| IMS_PortsAndSecurityCo nfigCnf_Type | Null_Type | SPIs and protected ports are fully controlled by the IMS PTC => it is not necessary anymore to return IMS_ProtectedPorts_Type, IMS_SPIs_Type to the IMS PTC | | |

IMS_SecurityContextEnum_Type

| TTCN-3 Enumerated Type | | |
|------------------------|------------------------------|--|
| Name | IMS_SecurityContextEnum_Type | |
| Comment | | |
| unprotected | | |
| protectedContext1 | | |
| protectedContext2 | | |

IMS_RoutingInfo_Type

| TTCN-3 Record Type | | | |
|--------------------|-------------------------|-----|---|
| Name | IMS_RoutingInfo_Type | | |
| Comment | | | |
| Protocol | InternetProtocol_Type | | UDP or TCP |
| Security | IMS SecurityContextEnum | opt | protected or unprotected (in DL omit when IP PTC shall decide |
| | <u>Type</u> | | what to do) |
| UE_Address | IP_AddrInfo_Type | opt | sent by the IP PTC when there is an initial request on |
| | | | unprotected connection |
| NW_Address | IP_AddrInfo_Type | opt | sent by the IP PTC when there is an initial request on |
| | | | unprotected connection |

IMS_DATA_REQ

| TTCN-3 Record Type | | |
|--------------------|----------------------|--|
| Name | IMS_DATA_REQ | |
| Comment | | |
| RoutingInfo | IMS RoutingInfo Type | |
| Request | IMS Request Type | |

IMS_DATA_RSP

| TTCN-3 Record Type | | |
|--------------------|----------------------|--|
| Name | IMS_DATA_RSP | |
| Comment | | |
| RoutingInfo | IMS RoutingInfo Type | |
| Response | IMS Response Type | |

IMS_ProtectedPorts_Type

| TTCN-3 Record Type | | | |
|--------------------|-------------------------|----------------------|--|
| Name | IMS_ProtectedPorts_Type | | |
| Comment | | | |
| Port_us | PortNumber_Type | UE side: Server | |
| Port_uc | PortNumber_Type | UE side: Client | |
| Port_ps | PortNumber_Type | network side: Server | |
| Port_pc | PortNumber_Type | network side: Client | |

IMS_SPIs_Type

| TTCN-3 Record Type | | | |
|--------------------|----------------|-----|---|
| Name | IMS_SPIs_Type | | |
| Comment | | | |
| SPI_us | IPsec_SPI_Type | | SPI at UE side: assigned by the UE |
| SPI_uc | IPsec_SPI_Type | | SPI at UE side: assigned by the UE |
| SPI_ps | IPsec_SPI_Type | opt | SPI at network side: to be assigned by TTCN |
| SPI_pc | IPsec_SPI_Type | opt | SPI at network side: to be assigned by TTCN |

IMS_SecurityInfo_Type

| TTCN-3 Record | TTCN-3 Record Type | | |
|-------------------|----------------------------|--|--|
| Name | IMS_SecurityInfo_Type | | |
| Comment | | | |
| ProtectedPorts | IMS_ProtectedPorts_Type | | |
| SPIs | IMS SPIs Type | | |
| IntegrityAlgorith | IPsec_IntegrityAlgorithm_T | | |
| m | ype | | |
| CipheringAlgori | IPsec_CipheringAlgorithm_ | | |
| thm | Туре | | |

IMS_RegistrationInfo_Type

| TTCN-3 Record Type | | | |
|--------------------|---------------------------|-----|--|
| Name | IMS_RegistrationInfo_Type | | |
| Comment | | | |
| NW_Address | IP_AddrInfo_Type | | network address of the chosen IMS server (e.g. IPv4, IPv6) |
| UE_Address | IP_AddrInfo_Type | | UE address as used for security protected connections |
| SecurityInfo | IMS SecurityInfo Type | opt | omit in case of GIBA |

IMS_PortsAndSecurityConfigReq_Type

| TTCN-3 Record Type | | | |
|--------------------|------------------------------------|-----|------------------|
| Name | IMS_PortsAndSecurityConfigReq_Type | | |
| Comment | | | |
| UnprotectedPor | PortNumber_Type | opt | 5060 per default |
| t_us | | | |
| RegistrationInfo | IMS RegistrationInfo Type | opt | |

IMS_SecurityRelease_Type

| TTCN-3 Enumerated T | TTCN-3 Enumerated Type | | |
|--------------------------------|--------------------------|--|--|
| Name | IMS_SecurityRelease_Type | | |
| Comment | | | |
| full | | | |
| oldestProtectedConte xtOnly | | | |

IMS_RestartPCSCF_Type

| TTCN-3 Record Type | | | |
|--------------------|-----------------------|--|--|
| Name | IMS_RestartPCSCF_Type | | |
| Comment | | | |
| PdnIndex | PDN_Index_Type | | |
| IPAddressIPv4 | charstring | | |
| IPAddressIPv6 | charstring | | |

IMS_CONFIG_REQ

| TTCN-3 Union T | TTCN-3 Union Type | | |
|----------------|-------------------------------|--|--|
| Name | IMS_CONFIG_REQ | | |
| Comment | | | |
| InstallKey | IPsec_SecurityKeys_Type | | |
| PortsAndSecuri | IMS PortsAndSecurityConfigReq | | |
| tyConfig | _Type | | |
| SecurityReleas | IMS_SecurityRelease_Type | | |
| е | | | |
| CloseTCP | Null_Type | | |
| RestartPCSCF | IMS RestartPCSCF Type | | |

IMS_CONFIG_CNF

| TTCN-3 Union T | TTCN-3 Union Type | | |
|----------------|-------------------------------|--|--|
| Name | IMS_CONFIG_CNF | | |
| Comment | | | |
| InstallKey | Null_Type | | |
| PortsAndSecuri | IMS PortsAndSecurityConfigCnf | | |
| tyConfig | <u>Type</u> | | |
| SecurityReleas | Null_Type | | |
| е | | | |
| CloseTCP | Null_Type | | |
| RestartPCSCF | Null_Type | | |

IMS_IP_CTRL_PORT

| TTCN-3 Port Type | | | |
|------------------|---|--|--|
| Name | IMS_IP_CTRL_PORT | | |
| Comment | Control port at the IMS PTC to configure IP for IMS | | |
| out | IMS_CONFIG_REQ | | |
| in | IMS CONFIG CNF | | |

IMS_IP_CLIENT_PORT

| TTCN-3 Port Type | | | |
|------------------|---|--|--|
| Name | IMS_IP_CLIENT_PORT | | |
| Comment | IMS client: send requests, receive response | | |
| out | IMS_DATA_REQ | | |
| in | IMS DATA RSP | | |

IMS_IP_SERVER_PORT

| TTCN-3 Port Type | | | |
|------------------|---|--|--|
| Name | IMS_IP_SERVER_PORT | | |
| Comment | IMS server: send response, receive requests | | |
| out | IMS_DATA_RSP | | |
| in | IMS DATA REQ | | |

H.3 HTTP_ASP_TypeDefs

H.3.1 HTTP_ASP_Definitions

HttpServerInfo_Type

| TTCN-3 Recoi | TTCN-3 Record Type | | | |
|--------------|---------------------|-----|---|--|
| Name | HttpServerInfo_Type | | | |
| Comment | | | | |
| serverAddr | IP_AddrInfo_Type | | IP address of simulated server | |
| serverPort | PortNumber_Type | | Port number of simulated server | |
| drbInfo | IP_DrbInfo_Type | | DRB info as used by the IP PTC (LTE model, see TS 36.523-3 [30]) | |
| tlsConfig | TLSConfig_Type | opt | TLS parameters as used by the IP PTC (LTE model, see TS 36.523-3 [30]) (omit: no TLS) | |

HttpServerList_Type

| TTCN-3 Record of Type | | |
|---|---------------------|--|
| Name | HttpServerList_Type | |
| Comment | | |
| record length (1 infinity) of <u>HttpServerInfo</u> Type | | |

HTTP_CTRL_REQ

| TTCN-3 Record Type | | | |
|--------------------|---|-----|---|
| Name | HTTP_CTRL_REQ | | |
| Comment | ASP type to configure the http layer; | | |
| | when any of the optional fields is omitted the previous configuration of this field is kept | | |
| httpServerList | HttpServerList Type | opt | IP address and port of simulated HTTP servers |

HTTP_CTRL_CNF

| TTCN-3 Record Type | | | |
|--------------------|-----------------------------------|-----|----------------------------------|
| Name | HTTP_CTRL_CNF | | |
| Comment | ASP type to confirm HTTP_CTRL_REQ | | |
| errorInfo | charstring | opt | string indicating a system error |

HTTP_DATA_IND

| TTCN-3 Record Type | | | | |
|--------------------|---|--|---|--|
| Name | HTTP_DATA_IND | | | |
| Comment | ASP type for sending a messi it transports relevant informat | | om the http layer to TTCN; a http Request from the UE to the Tester | |
| routingInfo | IP_Connection_Type | | TCP connection from which the request has been received; => response shall use the same | |
| httpRequest | HttpRequest_Type | | | |

HttpRequest_Type

| TTCN-3 Record Type | | | | |
|------------------------|-----------------------|------------------|---|--|
| Name | HttpRequest_Type | HttpRequest_Type | | |
| Comment | | | | |
| requestLine | HttpRequestLine Type | | RFC 2616 clause 5.1 | |
| userAgent | UserAgent | opt | User Agent according to RFC 2616 [27] clause 14.43 | |
| authorization | Authorization | opt | Authorization according to RFC 2616 [27] clause 14.8 (optional; NOTE: Same type definition as for SIP type definitions) | |
| host | Host | opt | host according to RFC 2616 [27] clause 14.23 | |
| contentType | ContentType | opt | Content-Type according to RFC 2616 [27] clause 14.17 (optional, NOTE: Same type definition as for SIP type definitions) | |
| cacheControl | HttpCacheControl Type | opt | RFC 2616 clause 14.9 | |
| x3GPPIntende dldentity | charstring | opt | 3GPP TS 24.109 [33] clause G.2 | |
| messageBody | charstring | opt | e.g. XCAP Message | |

HttpResponse_Type

| TTCN-3 Record Type | | | | |
|--------------------|-----------------------|-----|---|--|
| Name | HttpResponse_Type | | | |
| Comment | | | | |
| statusLine | HttpStatusLine_Type | | Status-Line in RFC 2616 [27] clause 6.1 | |
| date | Date | opt | Date according to RFC 2616 [27] clause 14.18 | |
| eTag | SIP_ETag | opt | ETag according to RFC 2616 [27] clause 14.19 | |
| server | Server | opt | Server according to RFC 2616 [27] clause 14.38 | |
| wwwauthentica | WwwAuthenticate | opt | WWW-Authenticate in RFC 2616 [27] clause 14.47 (NOTE: | |
| te | | | Same type definition as for SIP type definitions) | |
| authenticationI | AuthenticationInfo | opt | Authentication-Info in RFC 2617 [37] clause 3.2.3 (NOTE: Same | |
| nfo | | | type definition as for SIP type definitions) | |
| contentType | ContentType | opt | Content-Type in RFC 2616 [27] clause 14.17 (NOTE: Same type | |
| | | | definition as for SIP type definitions) | |
| location | HttpLocation Type | opt | RFC 2616 clause 14.30 | |
| contentLength | ContentLength | opt | Content-Length in RFC 2616 [27] clause 14.13 (NOTE: Same | |
| | | | type definition as for SIP type definitions) | |
| expires | Expires | opt | Expires in RFC 2616 [27] clause 14.21 (NOTE: Same type | |
| | | | definition as for SIP type definitions) | |
| cacheControl | HttpCacheControl Type | opt | Cache-Control in RFC 2616 [27] clause 14.9 | |
| pragma | HttpPragma Type | opt | Pragma in RFC 2616 [27] clause 14.32 | |
| messageBody | charstring | opt | e.g. XCAP Message (XML document or XML fragment) | |

HTTP_DATA_REQ

| TTCN-3 Record Type | | | |
|--------------------|--|---|--|
| Name | HTTP_DATA_REQ | | |
| Comment | ASP type for sending messages from TTCN to the http layer; | | |
| | it transports information needed by the http layer to generate a http Response to the UE | | |
| routingInfo | IP_Connection_Type | TCP connection to be used in DL: shall be the same as for corresponding request | |
| httpResponse | HttpResponse Type | | |

HttpRequestLine_Type

| TTCN-3 Record Type | | | | |
|--------------------|--|---|--|--|
| Name | HttpRequestLine_Type | | | |
| Comment | request line according to RFC 2616 [27] clause 5.1 | | | |
| method | charstring | | | |
| uri | charstring | XCAP: selection expression, RFC 4825 [26] | | |
| version | charstring | | | |

HttpStatusLine_Type

| TTCN-3 Record Type | | | |
|--------------------|---|--|--|
| Name | HttpStatusLine_Type | | |
| Comment | status line according to RFC 2616 [27] clause 5.1 | | |
| version | charstring | | |
| code | integer | | |
| reasonPhrase | charstring | | |

HttpCacheControl_Type

| TTCN-3 Record Type | | |
|--------------------|-----------------------|--|
| Name | HttpCacheControl_Type | |
| Comment | RFC 2616 clause 14.9 | |
| cacheDirective | charstring | |

HttpPragma_Type

| TTCN-3 Record Type | | |
|---------------------|-----------------------|--|
| Name | HttpPragma_Type | |
| Comment | RFC 2616 clause 14.32 | |
| pragmaDirectiv e | charstring | |

HttpLocation_Type

| TTCN-3 Record Type | | | |
|--------------------|--|--|--|
| Name | HttpLocation_Type | | |
| Comment | RFC 2616 clause 14.30, see also RFC 3986 section 4.3 | | |
| uri | charstring | | |

H.3.2 HTTP_Port_Definitions

HTTP_CTRL_PORT

| TTCN-3 Port Typ | TTCN-3 Port Type | | | | | | | | | | |
|-----------------|------------------|--|--|--|--|--|--|--|--|--|--|
| Name | HTTP_CTRL_PORT | | | | | | | | | | |
| Comment | | | | | | | | | | | |
| out | HTTP_CTRL_REQ | | | | | | | | | | |
| in | HTTP CTRL CNF | | | | | | | | | | |

HTTP_DATA_PORT

| TTCN-3 Port Type | | | | | | | | | | |
|------------------|----------------|--|--|--|--|--|--|--|--|--|
| Name | HTTP_DATA_PORT | | | | | | | | | |
| Comment | | | | | | | | | | |
| in | HTTP_DATA_IND | | | | | | | | | |
| out | HTTP DATA REQ | | | | | | | | | |

H.4 References to TTCN-3

| References to TTCN-3 | | | | | | | | | | |
|----------------------|-----------------------------|-----------|--|--|--|--|--|--|--|--|
| IMS_PTC_CoordMs | IMS/IMS_PTC_CoordMsg.ttcn | Rev 30988 | | | | | | | | |
| g | | | | | | | | | | |
| IMS_ASP_TypeDefs | IMS/IMS_ASP_TypeDefs.ttcn | Rev 30648 | | | | | | | | |
| HTTP_ASP_TypeDef | HTTP/HTTP_ASP_TypeDefs.ttcn | Rev 26176 | | | | | | | | |
| s | | | | | | | | | | |

Annex I (informative): Change history

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New | WG doc |
|-------|-----------|----------|-----|---|-----|-------------|-------|-----------|
| RP-31 | RP-060054 | - | - | Update to version 1.0.0 and present to RAN#31 for information | - | - | 1.0.0 | R5-060513 |
| RP-34 | RP-060664 | - | - | Present version 1.3.0 to RAN#34 for information | - | - | 1.3.0 | R5-063500 |
| RP-35 | RP-070010 | - | - | Presented as version 2.0.0 for approval to go under revision control | - | - | 2.0.0 | R5-070456 |
| - | - | - | - | Upgraded to version 5.0.0 by the 3GPP support | - | - | 5.0.0 | - |
| RP-36 | RP-070352 | 0001 | - | Addition of IMS-CC test case 8.6 to IMS_CC ATS V1.3.0 | F | 5.0.0 | 5.1.0 | R5s070101 |
| RP-36 | RP-070353 | 0002 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 5.0.0 | 5.1.0 | - |
| RP-37 | RP-070594 | 0003 | - | Extension to TTCN ASP DeactivatePDPContextReq | F | 5.1.0 | 5.2.0 | R5-072509 |
| RP-37 | RP-070594 | 0004 | - | IMS CC / PIXIT parameter px_CellId | F | 5.1.0 | 5.2.0 | R5-072546 |
| RP-38 | RP-070870 | 0007 | | Addition of IMS-CC test case 8.5 to IMS_CC ATS V5.1.0 | В | 5.2.0 | 5.3.0 | R5s070489 |
| RP-38 | RP-070870 | 8000 | | Addition of IMS-CC test case 8.7 to IMS_CC ATS V5.3.0 | В | 5.2.0 | 5.3.0 | R5s070259 |
| RP-38 | RP-070870 | 0009 | | Addition of IMS-CC test case 9.1 to IMS_CC ATS V5.3.0 | В | 5.2.0 | 5.3.0 | R5s070261 |
| RP-38 | RP-070889 | 0010 | | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 5.2.0 | 5.3.0 | - |
| RP-38 | RP-070869 | 0006 | | Production of 34.229-3 pointer version in Rel-5 pointing to Rel-6 version | F | 5.2.0 | 5.3.0 | R5-073439 |
| RP-38 | RP-070869 | 0005 | | Addition of an MMI command | F | 5.2.0 | 6.0.0 | R5-073046 |
| RP-39 | RP-080098 | 0011 | | Update of MMI command strings | F | 6.0.0 | 6.1.0 | R5-080041 |
| RP-39 | RP-080089 | 0012 | | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 6.0.0 | 6.1.0 | - |
| RP-39 | RP-080094 | 0013 | | Addition of IMS-CC test case 7.2 to IMS_CC ATS V5.3.0 | В | 6.0.0 | 6.1.0 | R5s070535 |
| RP-39 | RP-080094 | 0014 | | Addition of IMS-CC test case 10.1 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070549 |
| RP-39 | RP-080094 | 0015 | | Addition of IMS-CC test case 8.3 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070545 |
| RP-39 | RP-080094 | 0016 | | Addition of IMS-CC test case 8.2 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070543 |
| RP-39 | RP-080094 | 0017 | | Addition of IMS-CC test case 7.6 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070539 |
| RP-39 | RP-080094 | 0018 | | Addition of IMS-CC test case 7.4 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070537 |
| RP-39 | RP-080094 | 0019 | | Addition of IMS-CC test case 11.1 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070551 |
| RP-39 | RP-080094 | 0020 | | Addition of IMS-CC test case 14.1 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070555 |
| RP-39 | RP-080094 | 0021 | | Addition of IMS-CC test case 13.1 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070553 |
| RP-39 | RP-080094 | 0022 | | Addition of IMS-CC test case 8.4 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070547 |
| RP-39 | RP-080094 | 0023 | | Addition of IMS-CC test case 8.1 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070541 |
| RP-39 | RP-080094 | 0024 | | Addition of IMS-CC test case 7.1 to IMS_CC ATS V5.1.0 | В | 6.0.0 | 6.1.0 | R5s070491 |
| RP-39 | RP-080094 | 0025 | | Common corrections to IMS-CC test cases | F | 6.0.0 | 6.1.0 | R5s070534 |
| RP-40 | RP-080369 | 0027 | | Correction to regular expressions in IMS | F | 6.1.0 | 7.0.0 | R5s080036 |
| RP-40 | RP-080369 | 0028 | | IMS ATS / handling of P-Access-Network-Info header over non secure ports | F | 6.1.0 | 7.0.0 | R5s080063 |
| RP-40 | RP-080369 | 0029 | | IMS ATS / test case 9.1 / handling of authorization header in Register messages | F | 6.1.0 | 7.0.0 | R5s080085 |
| RP-40 | RP-080376 | 0030 | | Extend test model supporting XCAP test | F | 6.1.0 | 7.0.0 | R5-081036 |
| RP-41 | RP-080654 | 0031 | | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 7.0.0 | 7.1.0 | - |
| RP-41 | RP-080615 | 0032 | | Addition of IMS-CC test case 9.2 to IMS_CC ATS v.7.0.0 | F | 7.0.0 | 7.1.0 | R5s080115 |
| RP-41 | RP-080615 | 0033 | | Addition of IMS-CC test case 7.3 to IMS_CC ATS v.7.0.0 | F | 7.0.0 | 7.1.0 | R5s080114 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
|----------------|------------------------|--------------|----------------|---|--------|----------------|----------------|------------------------|
| RP-41 | RP-080615 | 0034 | | Implementation of IPCanCtl code as a parallel test component | F | 7.0.0 | 7.1.0 | R5s080138 |
| RP-41 | RP-080615 | 0035 | | | F | 7.0.0 | 7.1.0 | R5s080145 |
| RP-41 | RP-080615 | 0036 | | Addition of IMS-CC test case 8.8 to IMS_CC ATS v.6.2.0 | F | 7.0.0 | 7.1.0 | R5s080143 |
| RP-41 | RP-080615 | 0037 | | Addition of IMS-CC test case 7.5 to IMS_CC ATS | F | 7.0.0 | 7.1.0 | R5s080151 |
| RP-41 | RP-080740 | 0038 | | | F | 7.1.0 | 7.2.0 | R5-083065 |
| RP-42 | RP-080959 | 0039 | | Correction of HW Type and HW Length fields in DHCP response messages | F | 7.1.0 | 7.2.0 | R5s080171 |
| RP-42 | RP-080959 | 0040 | | initial Register message | F | 7.1.0 | 7.2.0 | R5s080168 |
| RP-43 | RP-090210 | 0041 | | Update of TS 34.229-3 from Rel-7 to Rel-8 | F | 7.2.0 | 8.0.0 | R5-090765 |
| RP-43 | RP-090210 | 0042 | | IMS CC ATS / Improvement: Stopping test case execution once a PTC fails | F | 8.0.0 | 8.1.0 | R5s090019 |
| RP-43 | RP-090210 | 0043 | | IMS CC ATS / Handling of non-default port number in the Contact Header | F | 8.0.0 | 8.1.0 | R5s090018 |
| RP-43 | RP-090210 | 0044 | | IMS CC ATS / Handling of Contact Header | F | 8.0.0 | 8.1.0 | R5s090005 |
| RP-43 | RP-090210 | 0045 | | IMS CC / Minor corrections on test 11.2 (reauthentication) | F | 8.0.0 | 8.1.0 | R5s090004 |
| RP-43 | RP-090210 | 0046 | | | F | 8.0.0 | 8.1.0 | R5s080313 |
| RP-43 | RP-090210 | 0047 | | IMS CC test model / Addition of new ASP to reconfigure IP Layer | F | 8.0.0 | 8.1.0 | R5-090032 |
| RP-43 | RP-090210 | 0048 | | Removal of an unused pixit and other routine updates | F | 8.0.0 | 8.1.0 | R5-090056 |
| RP-46 | RP-091156 | 0049 | - | CR to 34.229-3 (prose) update to v820 | F | 8.1.0 | 8.2.0 | - |
| RP-47 | RP-100146 | 0050 | - | CR to 34.229-3 (prose) update to v830 | F | 8.2.0 | 8.3.0 | - |
| RP-47 | RP-100155 | 0051 | - | | F | 8.2.0 | 8.3.0 | R5-100087 |
| RP-47 | RP-100140 | 0052 | - | Add bearer information for E-UTRA | F | 8.2.0 | 8.3.0 | R5-100414 |
| RP-48 RP-48 | RP-100514 | 0053 | - | CR to 34.229-3 (prose) update to v840 | F F | 8.3.0 | 8.4.0 | - DE 402202 |
| RP-48 | RP-100511 RP-101146 | 0054 0055 | - | Update IMS test model Routine maintenance of TS 34.229-3 | F | 8.3.0 8.4.0 | 8.4.0 8.5.0 | R5-103382 R5-106088 |
| RP-50 | RP-101150 | 0056 | - | CR to 34.229-3 update to v850 | F | 8.4.0 | 8.5.0 | - |
| RP-51 | RP-110165 | 0057 | - | Mapping of some PIXIT parameters to ISIM Efs – 3 | F | 8.5.0 | 8.6.0 | R5-110694 |
| RP-51 | RP-110169 | 0058 | - | CR to 34.229-3 (prose) update to v860 | F | 8.5.0 | 8.6.0 | - |
| RP-52 | RP-110651 | 0059 | - | Removal of technical content in 34.229-3 v8.6.0 and substitution with pointer to the next Release | F | 8.6.0 | 8.7.0 | R5-112246 |
| RP-52 | RP-110651 | 0060 | - | Routine maintenance | F | 8.6.0 | 9.0.0 | R5-112648 |
| RP-52 | RP-110655 | 0061 | - | CR to 34.229-3 (prose) update to v870 | F | 8.6.0 | 9.0.0 | - |
| RP-53 | RP-111160 | 0062 | - | CR to 34.229-3 (prose) update to v910 | F | 9.0.0 | 9.1.0 | - |
| RP-54 | RP-111584 | 0063 | - | Routine maintenance and updates for IMS ASP | F | 9.1.0 | 9.2.0 | R5-115670 |
| RP-55 RP-56 | RP-120187 RP-120649 | 0064 0065 | - | CR to 34.229-3 (prose) update to v930 Routine maintenance and updates | F F | 9.2.0 | 9.3.0 9.4.0 | - DE 101000 |
| RP-56 | RP-120649 RP-120802 | 0066 | | Correction to IMS CC test cases / Ipv6 address | F | 9.3.0 | 9.4.0 | R5-121090 R5s120108 |
| | | | | handling | | | | |
| RP-57 RP-57 | RP-121103 | 0067 | - | 34229-3: Routine maintenance and updates TTCN IMS correction | F F | 9.4.0 | 9.5.0 | R5-123085 |
| RP-57 | RP-121221 RP-121221 | 0068 0069 | - | Addition of GCF WI-031 IMS test case 8.10 | F | 9.4.0 9.4.0 | 9.5.0 9.5.0 | R5s120530 R5s120537 |
| RP-57 | RP-121221 | 0009 | - | Addition of GCF WI-031 IMS test case 8.10 Addition of GCF WI-031 IMS test case 8.12 | F | 9.4.0 | 9.5.0 | R5s120537 |
| RP-57 | RP-121221 | 0070 | - | Addition of GCF WI-031 IMS test case 8.13 | F | 9.4.0 | 9.5.0 | R5s120541 |
| RP-57 | RP-121221 | 0072 | Ŀ | Addition of GCF WI-128 IMS test case 18.1 | F | 9.4.0 | 9.5.0 | R5s120543 |
| RP-57 | RP-121221 | 0073 | - | Addition of GCF WI-128 IMS test case 18.2 | F | 9.4.0 | 9.5.0 | R5s120545 |
| RP-57 | RP-121221 | 0074 | - | Addition of GCF WI-103 IMS test case 16.1 | F | 9.4.0 | 9.5.0 | R5s120547 |
| RP-57 | RP-121221 | 0075 | - | Addition of GCF WI-103 IMS test case 16.2 | F | 9.4.0 | 9.5.0 | R5s120549 |
| RP-57 | RP-121106 | 0076 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 9.4.0 | 9.5.0 | - |
| RP-58 | RP-121664 | 0077 | E | 34229-3: Routine maintenance and updates | F | 9.5.0 | 9.6.0 | R5-125120 |
| RP-58 | RP-121669 | 0078 | - | | В | 9.5.0 | 9.6.0 | R5s120605 |
| RP-58 | RP-121669 | 0079 | | | В | 9.5.0 | 9.6.0 | R5s120607 |
| RP-58 | RP-121669 | 0800 | - | | В | 9.5.0 | 9.6.0 | R5s120609 |
| RP-58 | RP-121669 | 0081 | - | IMS TTCN correction | F | 9.5.0 | 9.6.0 | R5s120729 |
| RP-58 RP-58 | RP-121669 RP-121669 | 0082 0083 | E | | B B | 9.5.0 9.5.0 | 9.6.0 9.6.0 | R5s120730 R5s120732 |
| RP-58 | RP-121669 | 0083 | [| | В | 9.5.0 | 9.6.0 | R5s120732 R5s120733 |
| RP-58 | RP-121669 | 0085 | - | | В | 9.5.0 | 9.6.0 | R5s120736 |
| RP-58 | RP-121668 | 0086 | - | | F | 9.5.0 | 9.6.0 | - |
| | | | | TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | | | | |
| RP-59 | RP-130145 | 0087 | - | 34229-3: Routine maintenance and updates | F | 9.6.0 | 9.7.0 | R5-130198 |
| RP-59 | RP-130150 | 0088 | 1- | Re-verification of IMS Registration test case 8.10 over | F | 9.6.0 | 9.7.0 | R5s120858 |
| | | | | LTE with 36.523-3 test model | | | 1 | |

| Meet- ing | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-59 | RP-130150 | 0089 | - | Corrections for IMS test cases with 34.229-3 test model | F | 9.6.0 | 9.7.0 | R5s120907 |
| RP-59 | RP-130150 | 0090 | - | Re-verification of IMS Registration test case 8.4 over LTE with new 34.229-3 test model | F | 9.6.0 | 9.7.0 | R5s120945 |
| RP-59 | RP-130150 | 0091 | - | Re-verification of IMS Authentication test case 9.1 over LTE with the new 34.229-3 test model | F | 9.6.0 | 9.7.0 | R5s120947 |
| RP-59 | RP-130150 | 0092 | - | Corrections to IMS_36523_IWD_12wk48 test suite | F | 9.6.0 | 9.7.0 | R5s130011 |
| RP-59 | RP-130150 | 0093 | - | Corrections for IMS TC 8.1 regarding Ipv6 privacy | F | 9.6.0 | 9.7.0 | R5s130049 |
| RP-59 | RP-130149 | 0094 | - | CR to 34.229-3 (prose) update to v970 | F | 9.6.0 | 9.7.0 | - |
| RP-60 | RP-130611 | 0095 | - | 34229-3: Routine maintenance and updates | F | 9.7.0 | 9.8.0 | R5-131140 |
| RP-60 | RP-130617 | 0096 | - | Corrections to feature parameter in MT call invitation | F | 9.7.0 | 9.8.0 | R5s130109 |
| RP-60 | RP-130617 | 0097 | - | Re-verification of IMS Registration (IPSec) test case 8.1 over LTE with 36.523-3 test model | F | 9.7.0 | 9.8.0 | R5s130133 |
| RP-60 | RP-130617 | 0098 | - | Re-verification of IMS test case 8.3 over LTE with 36.523-3 test model | F | 9.7.0 | 9.8.0 | R5s130181 |
| RP-60 | RP-130617 | 0099 | - | Re-verification of IMS SMS test case 18.2 over LTE with 36.523-3 test model | F | 9.7.0 | 9.8.0 | R5s130183 |
| RP-60 | RP-130617 | 0100 | - | Corrections for IMS TC 8.1 | F | 9.7.0 | 9.8.0 | R5s130187 |
| RP-60 | RP-130617 | 0101 | - | Re-verification of IMS Registration test case 8.2 over LTE with 34.229-3 test model | F | 9.7.0 | 9.8.0 | R5s130233 |
| RP-60 | RP-130617 | 0102 | - | Re-verification of IMS SMS test case 18.1 over LTE with 34.229-3 test model | F | 9.7.0 | 9.8.0 | R5s130235 |
| RP-60 | RP-130617 | 0103 | - | Correction to SIP template cr_FromWithTag | F | 9.7.0 | 9.8.0 | R5s130256 |
| RP-60 | RP-130617 | 0104 | - | Re-verification of IMS Authentication test case 9.2 over LTE with 34.229-3 test model | F | 9.7.0 | 9.8.0 | R5s130264 |
| RP-60 | RP-130617 | 0105 | - | Re-verification of IMS Notification test case 11.2 over LTE with 34.229-3 test model | F | 9.7.0 | 9.8.0 | R5s130266 |
| RP-60 | RP-130617 | 0106 | - | Corrections for IMS Registration TC 8.3 over LTE with 34.229-3 test model | F | 9.7.0 | 9.8.0 | R5s130274 |
| RP-60 | RP-130617 | 0107 | - | Re-verification of IMS Subscription test case 10.1 over LTE with 34.229-3 test model | F | 9.7.0 | 9.8.0 | R5s130294 |
| RP-60 | RP-130617 | 0108 | - | Re-verification of IMS Registration test case 11.1 over LTE with 34.229-3 test model | F | 9.7.0 | 9.8.0 | R5s130296 |
| RP-60 | RP-130617 | 0109 | - | Re-verification of IMS Call Control test case 12.12 over LTE with 36.523-3 test model | F | 9.7.0 | 9.8.0 | R5s130333 |
| RP-61 | RP-131107 | 0111 | - | Correction to EPS ATTACH procedure to enable IMS Registration via NAS signalling | F | 9.8.0 | 9.9.0 | R5s130383 |
| RP-61 | RP-131107 | 0112 | - | Correction to IMS test cases 8.1, 8.2, 8.3 and 8.4 | F | 9.8.0 | 9.9.0 | R5s130454 |
| RP-61 | RP-131107 | 0113 | - | Correction to encoding rules to be used for Reginfo_Type | F | 9.8.0 | 9.9.0 | R5s130474 |
| RP-61 | RP-131107 | 0114 | - | Corrections for IMS call control test case 12.12 | F | 9.8.0 | 9.9.0 | R5s130497 |
| RP-61 | RP-131107 | 0115 | - | Addition of GCF WI-154/ee1 IMS Emergency Call over EPS test case 19.1.2 (using TS 36.523-3 test model) | В | 9.8.0 | 9.9.0 | R5s130508 |
| RP-61 | RP-131107 | 0116 | - | Re-verification for IMS TC 12.13 over LTE with 34.229-3 test model | F | 9.8.0 | 9.9.0 | R5s130510 |
| RP-61 | RP-131107 | 0117 | - | Corrections to GCF WI-128 SMS over IMS Testcase 18.1 | F | 9.8.0 | 9.9.0 | R5s130514 |
| RP-61 | RP-131107 | 0118 | - | Correction of IMS test case 9.2 over LTE with 34.229-3 test model | F | 9.8.0 | 9.9.0 | R5s130573 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-61 | RP-131107 | 0119 | - | Verification for IMS test case 12.2 over LTE with 34.229-1 test model | В | 9.8.0 | 9.9.0 | R5s130580 |
| RP-61 | RP-131107 | 0120 | - | Correction of IMS test case 12.12 over LTE with 34.229-3 test model | F | 9.8.0 | 9.9.0 | R5s130586 |
| RP-61 | RP-131106 | 0121 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 9.8.0 | 9.9.0 | RP-131106 |
| RP-61 | RP-131100 | 0110 | - | 34229-3: Routine maintenance and updates | F | 9.9.0 | 10.0.0 | R5-133632 |
| RP-62 | RP-131875 | 0122 | - | Splitting 34.229-3 | F | 10.0.0 | 10.1.0 | R5-134070 |
| RP-62 | RP-132006 | 0123 | - | 34229-3: Routine maintenance and updates for multitesters model | F | 10.0.0 | 10.1.0 | R5-134290 |
| RP-62 | RP-131868 | 0125 | - | Regression CR for IMS registration procedure in ATS_13wk35 | F | 10.0.0 | 10.1.0 | R5s130681 |
| RP-62 | RP-131868 | 0126 | - | Correction of IMS test case 12.2 over LTE with 34.229-3 test model | F | 10.0.0 | 10.1.0 | R5s130684 |
| RP-62 | RP-131868 | 0127 | - | Correction of IMS test case 12.13 over LTE with 34.229-3 test model | F | 10.0.0 | 10.1.0 | R5s130685 |
| RP-62 | RP-131868 | 0128 | - | Correction of IMS test case 8.1 over LTE with 34.229-3 test model | F | 10.0.0 | 10.1.0 | R5s130710 |
| RP-62 | RP-131868 | 0129 | - | Correction to usage of constant tsc_IMS_AcceptContactValue | F | 10.0.0 | 10.1.0 | R5s130738 |
| RP-62 | RP-131868 | 0130 | - | Correction to SMS over IMS test case 18.2 | F | 10.0.0 | 10.1.0 | R5s130739 |
| RP-62 | RP-131868 | 0131 | - | Corrections to IMS codec selection test case 16.1 and 16.2 | F | 10.0.0 | 10.1.0 | R5s130742 |
| RP-62 | RP-131868 | 0132 | - | Correction to IMS Call Control test case 12.13 | F | 10.0.0 | 10.1.0 | R5s130743 |
| RP-62 | RP-131868 | 0133 | - | Correction to GCF WI-154 IMS Emergency Call over EPS test case 19.1.2 | F | 10.0.0 | 10.1.0 | R5s130760 |
| RP-62 | RP-131868 | 0134 | - | Corrections to number of channels in SDP in 34.229-3 test model | F | 10.0.0 | 10.1.0 | R5s130798 |
| RP-62 | RP-131867 | 0135 | - | CR to 34.229-3 (prose) update to v10.1.0 | F | 10.0.0 | 10.1.0 | RP-131867 |
| RP-63 | R5-140319 | 0136 | - | Routine maintenance and updates | F | 10.1.0 | 10.2.0 | R5-140931 |
| RP-63 | RP-140313 | 0137 | - | Addition of GCF WI-171 MTSI MO speech call / SSAC test case 12.18 (using TS 36.523-3 test model) | В | 10.1.0 | 10.2.0 | R5s130766 |
| RP-63 | RP-140313 | 0138 | - | Addition of GCF WI-171 IMS Emergency call / SSAC test case 12.20 (using TS 36.523-3 test model) | В | 10.1.0 | 10.2.0 | R5s130768 |
| RP-63 | RP-140313 | 0139 | - | Re-verification of MTSI MT speech call test case 12.13 (using TS 36.523-3 test model) | F | 10.1.0 | 10.2.0 | R5s130770 |
| RP-63 | RP-140313 | 0140 | - | Re-verification of IMS test case 16.1 over LTE with 34.229-3 test model | F | 10.1.0 | 10.2.0 | R5s130808 |
| RP-63 | RP-140313 | 0141 | - | Re-verification of IMS test case 16.2 over LTE with 34.229-3 test model | F | 10.1.0 | 10.2.0 | R5s130810 |
| RP-63 | RP-140313 | 0142 | - | Correction of IMS test case 12.2 over LTE with 34.229-3 test model | F | 10.1.0 | 10.2.0 | R5s130885 |
| RP-63 | RP-140313 | 0143 | - | Correction of IMS test case 12.12 over LTE with 34.229-3 test model | F | 10.1.0 | 10.2.0 | R5s130894 |
| RP-63 | RP-140313 | 0144 | - | Corrections for common IMS functions | F | 10.1.0 | 10.2.0 | R5s130897 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
|-------|-----------|------|-----|---|-----|-------------|-------------|-----------|
| RP-63 | RP-140313 | 0145 | - | Correction to GCF WI-103 IMS test case 11.2 with 36.523-3 Test Model | F | 10.1.0 | 10.2.0 | R5s130900 |
| RP-63 | RP-140313 | 0146 | - | Correction to Postamble handling for IMS deregistration procedure | F | 10.1.0 | 10.2.0 | R5s130901 |
| RP-63 | RP-140313 | 0147 | - | Correction to fl_EUTRA_IPCAN_ActivateDedicatedEpsBearer_Spe echCall | F | 10.1.0 | 10.2.0 | R5s130916 |
| RP-63 | RP-140313 | 0148 | - | Correction of IMS test case 8.10 over LTE with 34.229-3 test model | F | 10.1.0 | 10.2.0 | R5s130925 |
| RP-63 | RP-140313 | 0149 | - | Addition of GCF WI-103 IMS MTSI test case 16.3 over 36.523-3 Test Model | В | 10.1.0 | 10.2.0 | R5s130956 |
| RP-63 | RP-140313 | 0150 | - | Addition of GCF WI-103 IMS MTSI test case 16.4 over 36.523-3 Test Model | В | 10.1.0 | 10.2.0 | R5s130958 |
| RP-63 | RP-140313 | 0151 | - | Correction to GCF WI-154 IMS Emergency Call over EPS test case 19.1.2 | F | 10.1.0 | 10.2.0 | R5s130978 |
| RP-63 | RP-140313 | 0152 | - | Correction to GCF WI-103 IMS MTSI test case 12.13 | F | 10.1.0 | 10.2.0 | R5s130985 |
| RP-63 | RP-140313 | 0153 | - | Addition of GCF WI-154 IMS Emergency Call over EPS test case 19.4.1 | В | 10.1.0 | 10.2.0 | R5s130990 |
| RP-63 | RP-140313 | 0154 | - | Correction to GCF WI-103 IMS MTSI test case 9.2 | F | 10.1.0 | 10.2.0 | R5s131004 |
| RP-63 | RP-140313 | 0155 | - | Correction to GCF WI-103 IMS MTSI test case 11.2 | F | 10.1.0 | 10.2.0 | R5s131040 |
| RP-63 | RP-140313 | 0156 | - | Correction of common altsteps in IMS PTC for test case 11.2 | F | 10.1.0 | 10.2.0 | R5s140003 |
| RP-63 | RP-140313 | 0157 | - | Correction for IMS common function f_IMS_InviteRequest_MessageHeaderRX() | F | 10.1.0 | 10.2.0 | R5s140005 |
| RP-63 | RP-140313 | 0158 | - | Re-verification of IMS test case 15.11 over LTE with 34.229-3 test model | F | 10.1.0 | 10.2.0 | R5s140017 |
| RP-63 | RP-140312 | 0159 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 10.1.0 | 10.2.0 | RP-140312 |
| RP-64 | RP-140812 | 0160 | - | Routine maintenance and updates | F | 10.2.0 | 10.3.0 | R5-142961 |
| RP-64 | RP-140822 | 0161 | - | Addition of GCF WI-154 IMS Emergency Call over EPS test case 19.5.6 (with TS 36.523-3 test model) | F | 10.2.0 | 10.3.0 | R5s140037 |
| RP-64 | RP-140822 | 0162 | - | Addition of GCF WI-154 IMS Emergency Call over EPS test case 19.5.10 (with TS 36.523-3 test model) | F | 10.2.0 | 10.3.0 | R5s140039 |
| RP-64 | RP-140822 | 0163 | - | Addition of GCF WI-103 IMS MTSI Testcase 15.28 with 36.523-3 Test Model | F | 10.2.0 | 10.3.0 | R5s140092 |
| RP-64 | RP-140822 | 0164 | - | Re-verification of GCF WI-103 IMS MTSI Testcase 15.11 over 36.523-3 Test Model | F | 10.2.0 | 10.3.0 | R5s140121 |
| RP-64 | RP-140822 | 0165 | - | Addition of GCF WI-154 IMS Emergency Testcase 19.4.5 with 36.523-3 Test Model | F | 10.2.0 | 10.3.0 | R5s140123 |
| RP-64 | RP-140822 | 0166 | - | Correction of GCF WI-103 IMS MTSI Testcase 9.1 | F | 10.2.0 | 10.3.0 | R5s140136 |
| RP-64 | RP-140822 | 0167 | - | Correction to GCF WI-171 IMS SSAC testcase 12.20 | F | 10.2.0 | 10.3.0 | R5s140137 |
| RP-64 | RP-140822 | 0168 | - | Correction of P-Preferred-Service and P-Asserted- Service usage over LTE with 34.229-3 test model | F | 10.2.0 | 10.3.0 | R5s140141 |
| RP-64 | RP-140822 | 0169 | - | Addition of GCF WI-103 IMS MO Call test case 12.2a (with both TS 36.523-3 and TS 34.229-3 test model) | F | 10.2.0 | 10.3.0 | R5s140142 |
| RP-64 | RP-140822 | 0170 | - | Correction to GCF WI-171 SSAC testcase 12.20 | F | 10.2.0 | 10.3.0 | R5s140168 |

| Meet- ing | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-64 | RP-140822 | 0171 | - | Correction to GCF WI-154 IMS Emergency Call testcase 19.1.2 | F | 10.2.0 | 10.3.0 | R5s140171 |
| RP-64 | RP-140822 | 0172 | - | Correction to GCF WI-154 IMS Emergency Call testcase 19.5.6 | F | 10.2.0 | 10.3.0 | R5s140172 |
| RP-64 | RP-140822 | 0173 | - | Correction to IMS function f_IMS_Dialog_SetRemoteTag | F | 10.2.0 | 10.3.0 | R5s140173 |
| RP-64 | RP-140822 | 0174 | - | Correction of IMS function f_IMS_PTC_ImsInfo_DialogInit | F | 10.2.0 | 10.3.0 | R5s140174 |
| RP-64 | RP-140822 | 0175 | - | Correction to Postamble Procedure for IMS Testcases | F | 10.2.0 | 10.3.0 | R5s140175 |
| RP-64 | RP-140822 | 0176 | - | Correction to GCF WI-103 IMS MTSI Testcases 9.1 and 9.2 | F | 10.2.0 | 10.3.0 | R5s140176 |
| RP-64 | RP-140822 | 0177 | - | Correction of GCF WI-103 IMS MTSI Testcase 15.28 | F | 10.2.0 | 10.3.0 | R5s140178 |
| RP-64 | RP-140822 | 0178 | - | Correction to IMS Route header in ACK sent by SS | F | 10.2.0 | 10.3.0 | R5s140194 |
| RP-64 | RP-140822 | 0179 | - | Correction to 183 Session Progress Message | F | 10.2.0 | 10.3.0 | R5s140204 |
| RP-64 | RP-140822 | 0180 | - | Correction to TCP Connection Close procedure for IMS Testcases | F | 10.2.0 | 10.3.0 | R5s140219 |
| RP-64 | RP-140822 | 0181 | - | Correction to IMS Main PTC Function | F | 10.2.0 | 10.3.0 | R5s140243 |
| RP-64 | RP-140822 | 0182 | - | Correction of f_IMS_AckRequest_MessageHeaderRX() | F | 10.2.0 | 10.3.0 | R5s140264 |
| RP-64 | RP-140822 | 0183 | - | Correction of f_IPCAN_StartProcedure | F | 10.2.0 | 10.3.0 | R5s140265 |
| RP-64 | RP-140822 | 0184 | - | spi and port values | F | 10.2.0 | 10.3.0 | R5s140266 |
| RP-64 | RP-140822 | 0185 | - | Correction to GCF WI-103 IMS Call Control Test Case 11.2 | F | 10.2.0 | 10.3.0 | R5s140303 |
| RP-64 | RP-140822 | 0186 | - | Correction to SMS over IMS Test Case 18.1 | F | 10.2.0 | 10.3.0 | R5s140304 |
| RP-64 | RP-140822 | 0187 | - | Re-verification of IMS test case 15.27 over LTE with 34.229-3 test model | F | 10.2.0 | 10.3.0 | R5s140307 |
| RP-64 | RP-140822 | 0188 | - | Re-verification of IMS test case 15.12 over LTE with 34.229-3 test model | F | 10.2.0 | 10.3.0 | R5s140324 |
| RP-64 | RP-140822 | 0189 | - | Addition of GCF WI-154 IMS Emergency Call over EPS test case 19.5.9 with 36.523-3 test model | F | 10.2.0 | 10.3.0 | R5s140329 |
| RP-64 | RP-140822 | 0190 | - | Correction to GCF WI-171 IMS SSAC Testcase 12.18 | F | 10.2.0 | 10.3.0 | R5s140334 |
| RP-64 | RP-140822 | 0191 | - | Correction to WI-103 IMS MTSI Testcase 11.1 | F | 10.2.0 | 10.3.0 | R5s140342 |
| RP-64 | RP-140822 | 0192 | - | Correction for checking of via Header in IMS response messages | F | 10.2.0 | 10.3.0 | R5s140350 |
| RP-64 | RP-140822 | 0193 | - | Verification of IMS test case 8.11 over LTE with 34.229-3 test model | F | 10.2.0 | 10.3.0 | R5s140356 |
| RP-64 | RP-140822 | 0194 | - | Corrections for IMS MO call setup sequence with preconditions | F | 10.2.0 | 10.3.0 | R5s140359 |
| RP-64 | RP-140822 | 0195 | - | Corrections to de-registration procedure | F | 10.2.0 | 10.3.0 | R5s140428 |
| RP-64 | RP-140821 | 0196 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 10.2.0 | 10.3.0 | RP-140821 |
| RP-65 | RP-141571 | 0197 | - | Routine maintenance and updates | F | 10.3.0 | 10.4.0 | R5-144747 |

| Meet- ing | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-65 | RP-141580 | 0217 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 10.3.0 | 10.4.0 | - |
| RP-65 | RP-141581 | 0198 | - | Addition of GCF WI-154 IMS Emergency Call test case 19.5.7 with TS 36.523-3 test model | В | 10.3.0 | 10.4.0 | R5s140338 |
| RP-65 | RP-141581 | 0199 | - | Correction for IMS Codec Selection test cases 16.3 and 16.4 | F | 10.3.0 | 10.4.0 | R5s140360 |
| RP-65 | RP-141581 | 0200 | - | IMS test case 18.1 for GIBA | F | 10.3.0 | 10.4.0 | R5s140469 |
| RP-65 | RP-141581 | 0201 | - | Addition of GCF WI-154 IMS Emergency Call test case 19.3.3 with TS 36.523-3 test model | В | 10.3.0 | 10.4.0 | R5s140490 |
| RP-65 | RP-141581 | 0202 | - | Correction to IMS function f_IMS_MTCallSetup_SendPRACK_ReceiveOK. | F | 10.3.0 | 10.4.0 | R5s140551 |
| RP-65 | RP-141581 | 0203 | - | Correction to GCF WI-103 IMS MTSI test case 11.2. | F | 10.3.0 | 10.4.0 | R5s140561 |
| RP-65 | RP-141581 | 0204 | - | Regression CR for IMS modules in ATS_14wk24 | F | 10.3.0 | 10.4.0 | R5s140565 |
| RP-65 | RP-141581 | 0205 | - | Corrections for IMS Codec Selection test cases 16.3 and 16.4 | F | 10.3.0 | 10.4.0 | R5s140567 |
| RP-65 | RP-141581 | 0206 | - | Correction to GCF WI-103 IMS test case 15.12 | F | 10.3.0 | 10.4.0 | R5s140571 |
| RP-65 | RP-141581 | 0207 | - | Correction of IMS SSAC Testcases 12.18, 12.19, 12.20, 12.18a, 12.19a and 12.20a | F | 10.3.0 | 10.4.0 | R5s140577 |
| RP-65 | RP-141581 | 0208 | - | Re-verification of GCF WI-103 IMS Codec Selecting test case 16.2 with 36.523-3 test model | F | 10.3.0 | 10.4.0 | R5s140580 |
| RP-65 | RP-141581 | 0209 | - | Corrections to IMS test case 15.11 | F | 10.3.0 | 10.4.0 | R5s140602 |
| RP-65 | RP-141581 | 0210 | - | Correction to IMS test case 15.27 | F | 10.3.0 | 10.4.0 | R5s140606 |
| RP-65 | RP-141581 | 0211 | - | Re-verification of IMS test case 15.8 over LTE with 34.229-3 test model | F | 10.3.0 | 10.4.0 | R5s140621 |
| RP-65 | RP-141581 | 0212 | - | Correction to IMS test case 16.2 | F | 10.3.0 | 10.4.0 | R5s140646 |
| RP-65 | RP-141581 | 0213 | - | Correction to GCF WI-154 IMS Emergency Call Testcase 19.5.7 | F | 10.3.0 | 10.4.0 | R5s140647 |
| RP-65 | RP-141581 | 0214 | - | Correction to ContactIE and UL Grant to IMS messages | F | 10.3.0 | 10.4.0 | R5s140676 |
| RP-65 | RP-141581 | 0215 | - | Bandwidth values for TCs 16.2, 16.3, and 16.4 | F | 10.3.0 | 10.4.0 | R5s140678 |
| RP-65 | RP-141581 | 0216 | - | Correction to Socket Handling during IMS registration procedure | F | 10.3.0 | 10.4.0 | R5s140713 |
| RP-66 | RP-142054 | 0218 | - | Routine maintenance and updates | F | 10.4.0 | 10.5.0 | R5-145191 |
| RP-66 | RP-142064 | 0219 | - | Correction of IMS test case 8.2 over LTE | F | 10.4.0 | 10.5.0 | R5s140779 |
| RP-66 | RP-142064 | 0220 | - | Correction of IMS test case 12.2a | F | 10.4.0 | 10.5.0 | R5s140780 |
| RP-66 | RP-142064 | 0221 | - | Correction to IMS Emergency Call test case 19.4.5 | F | 10.4.0 | 10.5.0 | R5s140786 |
| RP-66 | RP-142064 | 0222 | - | Addition of GCF WI-154 IMS emergency call testcase 19.1.3 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s140788 |
| RP-66 | RP-142064 | 0223 | - | Correction to IMS Emergency Call test case 19.5.7 | F | 10.4.0 | 10.5.0 | R5s140791 |
| RP-66 | RP-142064 | 0224 | - | Correction to GCF WI-103 IMS testcase 11.2 | F | 10.4.0 | 10.5.0 | R5s140801 |
| RP-66 | RP-142064 | 0225 | - | Correction to IMS test case 12.2a on branch parameter | F | 10.4.0 | 10.5.0 | R5s140802 |
| RP-66 | RP-142064 | 0226 | - | Correction to GCF WI-103 IMS test case 12.2a | F | 10.4.0 | 10.5.0 | R5s140856 |

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| RP-66 | RP-142064 | 0227 | - | Correction to GCF WI-103 IMS test case 15.8 | F | 10.4.0 | 10.5.0 | R5s140905 |
| RP-66 | RP-142064 | 0228 | - | Correction to WI-154 IMS Emergency Call Testcases 19.5.6 and 19.5.7 | F | 10.4.0 | 10.5.0 | R5s140909 |
| RP-66 | RP-142064 | 0229 | - | Correction of IMS test case 15.11 | F | 10.4.0 | 10.5.0 | R5s140919 |
| RP-66 | RP-142064 | 0230 | - | Corrections for Ipv6 address checking in common IMS functions | F | 10.4.0 | 10.5.0 | R5s140934 |
| RP-66 | RP-142064 | 0231 | - | Correction of IMS test case 18.1 | F | 10.4.0 | 10.5.0 | R5s140968 |
| RP-66 | RP-142064 | 0232 | - | Verification of IMS test case 15.5 | F | 10.4.0 | 10.5.0 | R5s140975 |
| RP-66 | RP-142064 | 0233 | - | Verification of IMS test case 15.7 | F | 10.4.0 | 10.5.0 | R5s140976 |
| RP-66 | RP-142064 | 0234 | - | Verification of IMS test case 15.9 | F | 10.4.0 | 10.5.0 | R5s140977 |
| RP-66 | RP-142064 | 0235 | - | Correction to IMS Emergency Call test case 19.3.3 | F | 10.4.0 | 10.5.0 | R5s140997 |
| RP-66 | RP-142064 | 0236 | - | Correction to GCF WI-103 IMS MTSI test case 15.11 | F | 10.4.0 | 10.5.0 | R5s141020 |
| RP-66 | RP-142064 | 0237 | - | Addition of GCF WI-103 IMS XCAP Supplementary Service Testcase 15.1 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141051 |
| RP-66 | RP-142064 | 0238 | - | Addition of GCF WI-103 XCAP supplementary service Testcase 15.3 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141053 |
| RP-66 | RP-142064 | 0239 | - | Addition of GCF WI-103 XCAP supplementary service Testcase 15.4 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141055 |
| RP-66 | RP-142064 | 0240 | - | Addition of XCAP supplementary service Testcase 15.14 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141113 |
| RP-66 | RP-142064 | 0241 | - | Addition of GCF WI-103 XCAP supplementary service Testcase 15.14a over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141115 |
| RP-66 | RP-142064 | 0242 | - | Addidtion of IMS over UTRAN testcase 6.3 to IMS Utran testsuite | F | 10.4.0 | 10.5.0 | R5s141125 |
| RP-66 | RP-142064 | 0243 | - | Re-Verification of IMS over UTRAN testcase 7.1 to IMS Utran testsuite | F | 10.4.0 | 10.5.0 | R5s141127 |
| RP-66 | RP-142064 | 0244 | - | Re-verification of GCF WI-103 IMS XCAP Supplementary Service Testcase 15.5 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141130 |
| RP-66 | RP-142064 | 0245 | - | Re-verification of GCF WI-103 IMS XCAP Supplementary Service Testcase 15.7 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141133 |
| RP-66 | RP-142064 | 0246 | - | Re-verification of GCF WI-103 IMS XCAP Supplementary Service Testcase 15.9 over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141135 |
| RP-66 | RP-142064 | 0247 | - | Changes to XML templates | F | 10.4.0 | 10.5.0 | R5s141138 |
| RP-66 | RP-142064 | 0248 | - | Verification of IMS test case 15.2 over LTE with 34.229-4 test model | F | 10.4.0 | 10.5.0 | R5s141140 |
| RP-66 | RP-142064 | 0249 | - | Verification of IMS test case 15.13 over LTE with 34.229-4 test model | F | 10.4.0 | 10.5.0 | R5s141142 |
| RP-66 | RP-142064 | 0250 | - | Correction to GCF WI-103 IMS call control test case 12.2a | F | 10.4.0 | 10.5.0 | R5s141154 |
| RP-66 | RP-142064 | 0251 | - | Addition of GCF WI-103 XCAP supplementary service Testcase 15.10a over 36.523-3 Test Model | F | 10.4.0 | 10.5.0 | R5s141162 |
| RP-66 | RP-142063 | 0252 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 10.4.0 | 10.5.0 | RP-142063 |

| Meet- ing | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-67 | RP-150332 | 0253 | - | Routine maintenance for TS 34.229-3 | F | 10.5.0 | 10.6.0 | R5-150355 |
| RP-67 | RP-150332 | 0283 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 10.5.0 | 10.6.0 | - |
| RP-67 | RP-150333 | 0254 | - | Addition of GCF WI-154 IMS emergency call testcase 19.3.1 over 36.523-3 Test Model | В | 10.5.0 | 10.6.0 | R5s141155 |
| RP-67 | RP-150333 | 0255 | - | Correction of IMS test case 8.1: sip-instance | F | 10.5.0 | 10.6.0 | R5s141212 |
| RP-67 | RP-150333 | 0256 | - | Addition of GCF WI-198 MO MTSI Video Call test case 12.21 (using 36.523-3 test model) | В | 10.5.0 | 10.6.0 | R5s141221 |
| RP-67 | RP-150333 | 0257 | - | Correction to IMS Emergency call test case 19.4.1 | F | 10.5.0 | 10.6.0 | R5s141232 |
| RP-67 | RP-150333 | 0258 | - | Addition of GCF WI-154 Emergency Call Testcase 19.3.4 over 36.523-3 Test Model | В | 10.5.0 | 10.6.0 | R5s141237 |
| RP-67 | RP-150333 | 0259 | - | Correction of o-lines in SDP bodies sent by SS | F | 10.5.0 | 10.6.0 | R5s141244 |
| RP-67 | RP-150333 | 0260 | - | Correction to GCF WI-171 IMS SSAC test case 12.18 | F | 10.5.0 | 10.6.0 | R5s141273 |
| RP-67 | RP-150333 | 0261 | - | Addition of GCF WI-154 IMS Emergency Call test case 19.1.5 | В | 10.5.0 | 10.6.0 | R5s141286 |
| RP-67 | RP-150333 | 0262 | - | Correction to IMS Registration Procedure | F | 10.5.0 | 10.6.0 | R5s141322 |
| RP-67 | RP-150333 | 0263 | - | Correction to GCF WI-103 IMS test case 11.2 | F | 10.5.0 | 10.6.0 | R5s141326 |
| RP-67 | RP-150333 | 0264 | - | Addition of GCF WI-198 MO MTSI Video Call test case 12.22 over 36.523-3 Test Model | В | 10.5.0 | 10.6.0 | R5s141329 |
| RP-67 | RP-150333 | 0265 | - | Correction to GCF WI-154 IMS emergency test case 19.5.6 and 19 5.7 | F | 10.5.0 | 10.6.0 | R5s141335 |
| RP-67 | RP-150333 | 0266 | - | Correction to GCF WI-198 IMS MO Video Call Testcase 12.21 | F | 10.5.0 | 10.6.0 | R5s141336 |
| RP-67 | RP-150333 | 0267 | - | Correction to GCF WI-154 IMS emergency test case 19.3.4 | F | 10.5.0 | 10.6.0 | R5s141337 |
| RP-67 | RP-150333 | 0268 | - | Addition of GCF WI-103 IMS Conference Call Testcase 15.17 over 36.523-3 Test Model | В | 10.5.0 | 10.6.0 | R5s141341 |
| RP-67 | RP-150333 | 0269 | - | Addition of GCF WI-103 IMS Conference Call Testcase 15.19 over 36.523-3 Test Model | В | 10.5.0 | 10.6.0 | R5s141343 |
| RP-67 | RP-150333 | 0270 | - | Correction of IMS TC 15.10a: not-registered condition | F | 10.5.0 | 10.6.0 | R5s141350 |
| RP-67 | RP-150333 | 0271 | - | Correction to GCF WI-103 IMS 15.x XCAP Testcases | F | 10.5.0 | 10.6.0 | R5s141351 |
| RP-67 | RP-150333 | 0272 | - | Correction of XCAP TCs on usage of str2oct | F | 10.5.0 | 10.6.0 | R5s141353 |
| RP-67 | RP-150333 | 0273 | - | Correction of IMS Emergency Call testcase 19.4.5 | F | 10.5.0 | 10.6.0 | R5s141370 |
| RP-67 | RP-150333 | 0274 | - | Correction of IMS SSAC Testcases 12.18, 12.19, 12.20, 12.18a, 12.19a and 12.20a | F | 10.5.0 | 10.6.0 | R5s141381 |
| RP-67 | RP-150333 | 0275 | - | Correction of prefix to XCAP Root Uri | F | 10.5.0 | 10.6.0 | R5s150030 |
| RP-67 | RP-150333 | 0276 | - | Correction to UPDATE message for IMS MT Call Testcases | F | 10.5.0 | 10.6.0 | R5s150035 |
| RP-67 | RP-150333 | 0277 | - | Correction for record-route header in IMS MT call scenarios | F | 10.5.0 | 10.6.0 | R5s150039 |
| RP-67 | RP-150333 | 0278 | - | Correction to cr_UE_RadioAccessCapability template for IMS UTRA test cases | F | 10.5.0 | 10.6.0 | R5s150054 |
| RP-67 | RP-150333 | 0279 | - | Correction to IMS Multiple PDN | F | 10.5.0 | 10.6.0 | R5s150055 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-67 | RP-150333 | 0280 | - | Correction to DNS Query procedure for IMS Testcases | F | 10.5.0 | 10.6.0 | R5s150085 |
| RP-67 | RP-150333 | 0281 | _ | Correction to SessionID in IMS signalling procedures | F | 10.5.0 | 10.6.0 | R5s150086 |
| RP-67 | RP-150333 | 0282 | - | Addition of GCF WI-171 MO MTSI Video Call test case 12.19 (using 36.523-3 test model) | В | 10.5.0 | 10.6.0 | R5s150115 |
| RP-68 | RP-150884 | 0284 | - | Routine maintenance for TS 34.229-3 | F | 10.6.0 | 10.7.0 | R5-151102 |
| RP-68 | RP-150894 | 0286 | = | Corrections to Emergency Services Over IMS test case 19.1.3 | F | 10.6.0 | 10.7.0 | R5s150061 |
| RP-68 | RP-150894 | 0287 | - | Corrections for Emergency Services over IMS test case 19.1.5 | F | 10.6.0 | 10.7.0 | R5s150091 |
| RP-68 | RP-150894 | 0288 | - | Correction to IMS XCAP Testcases | F | 10.6.0 | 10.7.0 | R5s150148 |
| RP-68 | RP-150894 | 0289 | _ | Correction of RR and RS modifiers | F | 10.6.0 | 10.7.0 | R5s150153 |
| RP-68 | RP-150894 | 0290 | _ | Correction to IMS Emergency Call testcase 19.4.5 | F | 10.6.0 | 10.7.0 | R5s150157 |
| RP-68 | RP-150894 | 0291 | - | Correction to IMS Emergency Call testcase 19.3.1 | F | 10.6.0 | 10.7.0 | R5s150158 |
| RP-68 | RP-150894 | 0292 | - | Correction of SPI matching error at runtime | F | 10.6.0 | 10.7.0 | R5s150174 |
| RP-68 | RP-150894 | 0293 | - | Correction for checking of video feature tag | F | 10.6.0 | 10.7.0 | R5s150180 |
| RP-68 | RP-150894 | 0294 | - | Correction to IMS Emergency Call testcase 19.3.1 | F | 10.6.0 | 10.7.0 | R5s150193 |
| RP-68 | RP-150894 | 0295 | = | Correction to GCF WI-154 IMS Emergency Call testcase 19.5.7 | F | 10.6.0 | 10.7.0 | R5s150195 |
| RP-68 | RP-150894 | 0296 | - | Correction regarding XCAP Root URI | F | 10.6.0 | 10.7.0 | R5s150202 |
| RP-68 | RP-150894 | 0297 | - | Correction to Annex Procedure C.28 | F | 10.6.0 | 10.7.0 | R5s150205 |
| RP-68 | RP-150894 | 0298 | - | Correction in IMS MTSI Video call test case 12.21 | F | 10.6.0 | 10.7.0 | R5s150236 |
| RP-68 | RP-150894 | 0299 | - | Correction of Require header in 200 OK | F | 10.6.0 | 10.7.0 | R5s150237 |
| RP-68 | RP-150894 | 0300 | - | Corrections for upper tester for IMS XCAP call forwarding test cases | F | 10.6.0 | 10.7.0 | R5s150244 |
| RP-68 | RP-150894 | 0301 | - | Corrections for Emergency Services over IMS test case 19.5.7 | F | 10.6.0 | 10.7.0 | R5s150245 |
| RP-68 | RP-150894 | 0302 | - | Addition of GCF WI-103 MTSI Message Waiting Indication test case 15.15 (using 36.523-3 and 34.229-4 test models) | В | 10.6.0 | 10.7.0 | R5s150259 |
| RP-68 | RP-150894 | 0303 | - | Correction of multi-PDN PCO handling | F | 10.6.0 | 10.7.0 | R5s150267 |
| RP-68 | RP-150894 | 0304 | - | Correction for inactivity timer in IMS XCAP test cases | F | 10.6.0 | 10.7.0 | R5s150269 |
| RP-68 | RP-150894 | 0305 | - | Corrections for TCP connection handling for IMS test cases | F | 10.6.0 | 10.7.0 | R5s150270 |
| RP-68 | RP-150894 | 0306 | - | Correction to IMS emergency services test case 19.1.3 | F | 10.6.0 | 10.7.0 | R5s150273 |
| RP-68 | RP-150894 | 0307 | - | Correction of Require header in 200 OK - continued | F | 10.6.0 | 10.7.0 | R5s150274 |
| RP-68 | RP-150894 | 0308 | _ | Correction of IMS TC 15.19 | F | 10.6.0 | 10.7.0 | R5s150276 |
| RP-68 | RP-150894 | 0309 | - | Addition of GCF WI-103 IMS XCAP Testcase 15.10 over 36.523-3 Test Model | В | 10.6.0 | 10.7.0 | R5s150289 |
| RP-68 | RP-150894 | 0310 | - | Addition of GCF WI-154 IMS Emergency Call test case 19.4.2 (using 36.523-3 test model) | В | 10.6.0 | 10.7.0 | R5s150327 |
| RP-68 | RP-150894 | 0312 | - | Correction to TC 8.2 on expiration values | F | 10.6.0 | 10.7.0 | R5s150342 |

| Meet- ing | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-68 | RP-150894 | 0313 | - | Addition of GCF WI-103 IMS Testcase 15.12a over 36.523-3 Test Model | В | 10.6.0 | 10.7.0 | R5s150371 |
| RP-68 | RP-150894 | 0314 | - | Addition of GCF WI-198 IMS Testcase 15.19a over 36.523-3 Test Model | В | 10.6.0 | 10.7.0 | R5s150373 |
| RP-68 | RP-150894 | 0315 | - | Addition of GCF WI-103 IMS Testcase 15.21a over 36.523-3 Test Model | В | 10.6.0 | 10.7.0 | R5s150382 |
| RP-68 | RP-150894 | 0316 | - | Correction to IMS Emergency Call test case 19.3.1 | F | 10.6.0 | 10.7.0 | R5s150414 |
| RP-68 | RP-150894 | 0317 | - | Correction of IMS TC 8.1 | F | 10.6.0 | 10.7.0 | R5s150446 |
| RP-68 | RP-150893 | 0285 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 10.7.0 | 11.0.0 | - |
| RP-68 | RP-150894 | 0311 | - | IMS type definition updates for rSRVCC | F | 10.7.0 | 11.0.0 | R5s150339 |
| RP-69 | RP-151409 | 0318 | - | Routine maintenance for TS 34.229-3 | F | 11.0.0 | 11.1.0 | R5-153257 |
| RP-69 | RP-151416 | 0319 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 11.0.0 | 11.1.0 | - |
| RP-69 | RP-151417 | 0320 | - | Correction to IMS emergency services test case 19.3.3 with 34.229-3 IPCAN model | F | 11.0.0 | 11.1.0 | R5s150412 |
| RP-69 | RP-151417 | 0321 | - | Addition of IMS test case 8.16 (using 36.523-3 test model) | F | 11.0.0 | 11.1.0 | R5s150534 |
| RP-69 | RP-151417 | 0322 | - | Correction to IMS video conferencing test case 15.19a | F | 11.0.0 | 11.1.0 | R5s150537 |
| RP-69 | RP-151417 | 0323 | - | Correction for IMS test cases | F | 11.0.0 | 11.1.0 | R5s150630 |
| RP-69 | RP-151417 | 0324 | - | Correction to de-registration sequence for IMS test cases | F | 11.0.0 | 11.1.0 | R5s150647 |
| RP-69 | RP-151417 | 0325 | - | Correction to testcase 13.4.3.26 regarding 200 OK in C.28 | F | 11.0.0 | 11.1.0 | R5s150665 |
| RP-69 | RP-151417 | 0326 | - | Correction to IMS Call forwarding testcase 15.8 | F | 11.0.0 | 11.1.0 | R5s150666 |
| RP-69 | RP-151417 | 0327 | - | Correction to GCF WI-154 IMS emergency Call testcase 19.3.1 | F | 11.0.0 | 11.1.0 | R5s150667 |
| RP-69 | RP-151417 | 0328 | - | Correction to procedure for IPv6 address comparison | F | 11.0.0 | 11.1.0 | R5s150668 |
| RP-69 | RP-151417 | 0329 | - | Addition of IMS test case 20.1 (using 36.523-3 test model) | F | 11.0.0 | 11.1.0 | R5s150714 |
| RP-69 | RP-151417 | 0330 | - | Correction to XCAP Call Forwarding testcases | F | 11.0.0 | 11.1.0 | R5s150725 |
| RP-69 | RP-151417 | 0331 | - | Addition of IMS video conference call test case 15.21c | F | 11.0.0 | 11.1.0 | R5s150775 |
| RP-69 | - | - | - | update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC | - | 11.0.0 | 11.1.0 | - |
| RP-70 | RP-151693 | 0333 | - | Correction to IMS Emergency Call test case 19.3.1 | F | 11.1.0 | 11.2.0 | R5s150692 |
| RP-70 | RP-151693 | 0334 | - | Correction to usage of GRUU in IMS registration | F | 11.1.0 | 11.2.0 | R5s150721 |
| RP-70 | RP-151693 | 0335 | - | Correction to GCF WI-154 IMS emergency Call testcase 19.3.1 | F | 11.1.0 | 11.2.0 | R5s150739 |
| RP-70 | RP-151693 | 0336 | - | Addition of IMS video call test case 15.11a | F | 11.1.0 | 11.2.0 | R5s150755 |
| RP-70 | RP-151693 | 0337 | - | Correction to IMS test case 10.1 | F | 11.1.0 | 11.2.0 | R5s150786 |
| RP-70 | RP-151693 | 0338 | - | Correction to IMS emergency test case 19.5.7 | F | 11.1.0 | 11.2.0 | R5s150809 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-70 | RP-151693 | 0339 | - | Correction to initiation of Emergency Calls | F | 11.1.0 | 11.2.0 | R5s150817 |
| RP-70 | RP-151693 | 0340 | - | Correction to IMS Emergency Call Test Case 19.1.5 | F | 11.1.0 | 11.2.0 | R5s150818 |
| RP-70 | RP-151693 | 0341 | - | Correction to IMS Registration | F | 11.1.0 | 11.2.0 | R5s150835 |
| RP-70 | RP-151693 | 0342 | - | Correction to MTSI MO speech call procedures in AnnexC21 | F | 11.1.0 | 11.2.0 | R5s150841 |
| RP-70 | RP-151693 | 0343 | = | Correction to common IMS functions to handling IMS Dialogs | F | 11.1.0 | 11.2.0 | R5s150843 |
| RP-70 | RP-151693 | 0344 | - | Correction to usage of Max-Forwards | F | 11.1.0 | 11.2.0 | R5s150850 |
| RP-70 | RP-151693 | 0345 | - | Corrections to IMS emergency test case 19.3.1 | F | 11.1.0 | 11.2.0 | R5s150851 |
| RP-70 | RP-151693 | 0346 | - | Correction to number of SIP dialogs | F | 11.1.0 | 11.2.0 | R5s150854 |
| RP-70 | RP-151693 | 0347 | - | Correction in IMS Emergency Call test case 19.5.7 | F | 11.1.0 | 11.2.0 | R5s150864 |
| RP-70 | RP-151693 | 0348 | - | Corrections to RTP and RTCP handling | F | 11.1.0 | 11.2.0 | R5s150865 |
| RP-70 | RP-151693 | 0349 | - | Corrections to IMS Emergency call Testcase 19.1.3 | F | 11.1.0 | 11.2.0 | R5s150868 |
| RP-70 | RP-151693 | 0350 | - | Corrections to IMS authentication test cases 9.1 and 9.2 | F | 11.1.0 | 11.2.0 | R5s150873 |
| RP-70 | RP-151693 | 0351 | - | Correction to IMS registration expiry time | F | 11.1.0 | 11.2.0 | R5s150886 |
| RP-70 | RP-151693 | 0352 | - | Correction to IMS REGISTER message | F | 11.1.0 | 11.2.0 | R5s150888 |
| RP-70 | RP-151693 | 0353 | - | Correction to Emergency Call Normal Services in 34.229-1 | F | 11.1.0 | 11.2.0 | R5s150900 |
| RP-70 | RP-151693 | 0354 | - | Corrections to usage of GRUU | F | 11.1.0 | 11.2.0 | R5s150908 |
| RP-70 | RP-151693 | 0355 | - | Corrections to IMS three-way session creation test cases | F | 11.1.0 | 11.2.0 | R5s150909 |
| RP-70 | RP-151693 | 0356 | - | Correction to GCF WI-103 15.21a Three way session testcase | F | 11.1.0 | 11.2.0 | R5s150910 |
| RP-70 | RP-151693 | 0357 | - | Correction to postamble for test cases 6.3 and 7.1 | F | 11.1.0 | 11.2.0 | R5s150919 |
| RP-70 | RP-151693 | 0358 | - | Correction to IMS emergency test case 19.5.6 | F | 11.1.0 | 11.2.0 | R5s150972 |
| RP-70 | RP-151692 | 0359 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 11.1.0 | 11.2.0 | - |
| RP-71 | RP-160117 | 0382 | 1 | Routine maintenance for TS 34.229-3 | F | 11.2.0 | 11.3.0 | R5-160912 |
| RP-71 | RP-160123 | 0362 | - | Correction to IMS test case 15.21a regarding Route header in REFER | F | 11.2.0 | 11.3.0 | R5s160011 |
| RP-71 | RP-160123 | 0365 | - | Corrections to IMS emergency call test case 19.4.1 | F | 11.2.0 | 11.3.0 | R5s160031 |
| RP-71 | RP-160123 | 0366 | - | Corrections to IMS IRAT Emergency Call Limited Service Functionality | F | 11.2.0 | 11.3.0 | R5s160032 |
| RP-71 | RP-160123 | 0367 | - | Correction to IMS test case 15.21a regarding TEL URI | F | 11.2.0 | 11.3.0 | R5s160043 |
| RP-71 | RP-160123 | 0368 | - | Correction to Unsubscribe function in IMS De- Registration procedure | F | 11.2.0 | 11.3.0 | R5s160045 |
| RP-71 | RP-160123 | 0369 | - | Corrections to bit rate for video calls | F | 11.2.0 | 11.3.0 | R5s160046 |
| RP-71 | RP-160123 | 0371 | - | Correction to NOTIFY for 200 OK in Conferencing test cases | В | 11.2.0 | 11.3.0 | R5s160055 |
| RP-71 | RP-160123 | 0373 | - | Addition of test case 19.3.2b | В | 11.2.0 | 11.3.0 | R5s160070 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-71 | RP-160123 | 0375 | - | Addition of test case 19.3.2c | F | 11.2.0 | 11.3.0 | R5s160072 |
| RP-71 | RP-160123 | 0377 | - | Correction to IMS test case 8.16 | В | 11.2.0 | 11.3.0 | R5s160075 |
| RP-71 | RP-160123 | 0378 | - | Addition of test case 19.3.2 | F | 11.2.0 | 11.3.0 | R5s160076 |
| RP-71 | RP-160123 | 0381 | - | Correction to IMS_UTRAN_IWD_15wk50 test suite | В | 11.2.0 | 11.3.0 | R5s160090 |
| RP-71 | RP-160123 | 0363 | 1 | Addition of IMS test case 15.14b | В | 11.2.0 | 11.3.0 | R5s160096 |
| RP-71 | RP-160123 | 0384 | - | Addition of IMS test case 19.5.1 | F | 11.2.0 | 11.3.0 | R5s160131 |
| RP-71 | RP-160123 | 0387 | - | Correction to IMS test case 15.11 regarding Geolocation header | В | 11.2.0 | 11.3.0 | R5s150846 |
| RP-71 | RP-160123 | 0388 | - | Addition of IMS test case 15.29 | F | 11.2.0 | 11.3.0 | R5s150945 |
| RP-71 | RP-160123 | 0389 | - | Correction to IMS test case 15.10 | F | 11.2.0 | 11.3.0 | R5s150965 |
| RP-71 | RP-160123 | 0390 | - | Corrections to fl_SIP_ParseURI for tel uri with phone context | F | 11.2.0 | 11.3.0 | R5s150968 |
| RP-71 | RP-160123 | 0391 | - | Correction to f_URL_Decoding | F | 11.2.0 | 11.3.0 | R5s151006 |
| RP-71 | RP-160122 | 0385 | - | CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 11.2.0 | 11.3.0 | R5s160177 |
| RP-72 | RP-160845 | 0406 | - | Routine maintenance for TS 34.229-3 | F | 11.3.0 | 11.4.0 | R5-162025 |
| RP-72 | RP-160849 | 0400 | - | Correction to GCF WI-154 IMS emergency call TC 19.5.1 | F | 11.3.0 | 11.4.0 | R5s160313 |
| RP-72 | RP-160849 | 0401 | - | Correction to host name in Temp GRUU returned in 200 OK for REGISTER | F | 11.3.0 | 11.4.0 | R5s160324 |
| RP-72 | RP-160849 | 0402 | - | Corrections to GRUU in XML body of NOTIFY request | F | 11.3.0 | 11.4.0 | R5s160325 |
| RP-72 | RP-160849 | 0403 | - | Correction to authentication method used in XCAP test cases | F | 11.3.0 | 11.4.0 | R5s160338 |
| RP-72 | RP-160849 | 0404 | - | Correction to IMS emergency call test cases 19.1.3, 19.3.2, 19.3.2b | F | 11.3.0 | 11.4.0 | R5s160339 |
| RP-72 | RP-160849 | 0405 | - | Correction to XCAP encoding rules | F | 11.3.0 | 11.4.0 | R5s160353 |
| RP-72 | RP-160849 | 0407 | - | Corrections to Contact header of MO INVITE | F | 11.3.0 | 11.4.0 | R5s160366 |
| RP-72 | RP-160849 | 0410 | - | Addition of IMS EVS test case 12.23 | F | 11.3.0 | 11.4.0 | R5s160379 |
| RP-72 | RP-160849 | 0411 | - | Addition of IMS EVS test case 12.25 | F | 11.3.0 | 11.4.0 | R5s160381 |
| RP-72 | RP-160849 | 0413 | - | Correction to emergency call Testcases 19.3.2, 19.3.2b and 19.3.2c | F | 11.3.0 | 11.4.0 | R5s160406 |
| RP-72 | RP-160849 | 0416 | - | Correction to IMS emergency call test case 19.5.1 | F | 11.3.0 | 11.4.0 | R5s160439 |
| RP-72 | RP-160849 | 0417 | - | Correction to XCAP GBA authentication procedure. | F | 11.3.0 | 11.4.0 | R5s160442 |
| RP-72 | RP-160849 | 0383 | 1 | Corrections to IMS-IRAT Emergency Call test case 19.4.2 | F | 11.3.0 | 11.4.0 | R5s160460 |
| RP-72 | RP-160849 | 0392 | 1 | Correction to IMS Emergency Call test case 19.1.5 | F | 11.3.0 | 11.4.0 | R5s160472 |
| RP-72 | RP-160849 | 0394 | 1 | Correction to encoding for SipUrI type | F | 11.3.0 | 11.4.0 | R5s160490 |
| RP-72 | RP-160849 | 0396 | 1 | Correction for IMS video call test cases | F | 11.3.0 | 11.4.0 | R5s160502 |
| RP-72 | RP-160849 | 0398 | 1 | Corrections for IMS emergency call test cases 19.1.3, 19.3.2, 19.3.2b and 19.3.2c | F | 11.3.0 | 11.4.0 | R5s160514 |
| RP-72 | RP-160849 | 0399 | 1 | Correction of fl_SIP_BuildReferToUri_RX | F | 11.3.0 | 11.4.0 | R5s160516 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New | WG doc |
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| RP-72 | RP-160848 | 0421 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 11.4.0 | 12.0.0 | R5s160457 |
| RP-73 | RP-161426 | 0441 | - | Routine maintenance for TS 34.229-3 | F | 12.0.0 | 12.1.0 | R5-165259 |
| RP-73 | RP-161397 | 0442 | - | MTSI over WLAN: Introduction of Test Model | F | 12.0.0 | 12.1.0 | R5-165261 |
| RP-73 | RP-161396 | 0443 | - | MTSI over fixed access: Introduction of Test Model | F | 12.0.0 | 12.1.0 | R5-165262 |
| RP-73 | RP-161430 | 0431 | - | Correction to Recv-Info header checking in MO INVITE | F | 12.0.0 | 12.1.0 | R5s160616 |
| RP-73 | RP-161430 | 0434 | - | Correction of fl_Authorization_GBA | F | 12.0.0 | 12.1.0 | R5s160642 |
| RP-73 | RP-161430 | 0435 | - | Correction to applicability of IMS EVS test cases | F | 12.0.0 | 12.1.0 | R5s160645 |
| RP-73 | RP-161430 | 0418 | 2 | Correction of URIs used in From and To headers | F | 12.0.0 | 12.1.0 | R5s160655 |
| RP-73 | RP-161430 | 0420 | 1 | Correction to XML encoding of SIP instance ID for GRUU | F | 12.0.0 | 12.1.0 | R5s160656 |
| RP-73 | RP-161430 | 0422 | 1 | Correction to IMS test case 19.5.1 for Multi-PDN configured UE's | F | 12.0.0 | 12.1.0 | R5s160658 |
| RP-73 | RP-161430 | 0424 | 1 | Corrections to fl_HTTP_AuthenticationMethod | F | 12.0.0 | 12.1.0 | R5s160665 |
| RP-73 | RP-161430 | 0426 | 1 | Corrections to IMS Emergency Call test case 19.4.5 | F | 12.0.0 | 12.1.0 | R5s160669 |
| RP-73 | RP-161430 | 0427 | 1 | Correction to GCF WI-103 IMS TC 11.1 | F | 12.0.0 | 12.1.0 | R5s160674 |
| RP-73 | RP-161430 | 0436 | - | Addition of IMS Supplementary Services test case 15.2a | В | 12.0.0 | 12.1.0 | R5s160687 |
| RP-73 | RP-161430 | 0438 | - | Corrections for GBA authentication | F | 12.0.0 | 12.1.0 | R5s160710 |
| RP-73 | RP-161430 | 0444 | - | Correction and simplification of the release of security contexts for IMS | F | 12.0.0 | 12.1.0 | R5s160735 |
| RP-73 | RP-161430 | 0445 | - | Correction for IMS test case initialisation | F | 12.0.0 | 12.1.0 | R5s160736 |
| RP-73 | RP-161430 | 0446 | - | Correction for IMS test cases | F | 12.0.0 | 12.1.0 | R5s160737 |
| RP-73 | RP-161430 | 0448 | - | Corrections to IMS IRAT emergency call test cases 19.1.3, 19.3.2, 19.3.2b, 19.3.2c | F | 12.0.0 | 12.1.0 | R5s160754 |
| RP-73 | RP-161430 | 0414 | 2 | Correction to IMS test case 15.11a on assigning the value of Logical Channel Priority for DRB-AM EPS bearers | F | 12.0.0 | 12.1.0 | R5s160804 |
| RP-73 | RP-161430 | 0415 | 2 | Addition of IMS test case 19.5.8 | В | 12.0.0 | 12.1.0 | R5s160805 |
| RP-73 | RP-161430 | 0423 | 2 | Addition of IMS test case 17.2 | В | 12.0.0 | 12.1.0 | R5s160806 |
| RP-73 | RP-161430 | 0428 | 2 | Correction to IMS Conference call test case 15.17 | F | 12.0.0 | 12.1.0 | R5s160807 |
| RP-73 | RP-161430 | 0429 | 2 | Addition of IMS test case 17.1 | В | 12.0.0 | 12.1.0 | R5s160808 |
| RP-73 | RP-161429 | 0449 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 12.0.0 | 12.1.0 | R5s160803 |
| RP-73 | RP-161430 | 0440 | - | Rel-13 baseline upgrade for IMS Test Suites | F | 12.1.0 | 13.0.0 | R5s160714 |
| RP-74 | RP-162106 | 0457 | - | Corrections to IMS test case 17.2 | F | 13.0.0 | 13.1.0 | R5s160842 |
| RP-74 | RP-162106 | 0458 | - | Correction to IMS Mobile Originated Call test cases | F | 13.0.0 | 13.1.0 | R5s160855 |
| RP-74 | RP-162106 | 0459 | - | Correction to GCF WI-154 IMS Emergency Call test case 19.3.2 | F | 13.0.0 | 13.1.0 | R5s160856 |
| RP-74 | RP-162106 | 0460 | - | Correcting the applicability check of IMS test case 19.5.8 | F | 13.0.0 | 13.1.0 | R5s160862 |
| RP-74 | RP-162106 | 0461 | - | Correction to CDU AT Command for IMS Video Call Establishment | F | 13.0.0 | 13.1.0 | R5s160879 |
| RP-74 | RP-162106 | 0450 | 1 | Correction to GCF WI-154 IMS Emergency Call testcase 19.5.1 | F | 13.0.0 | 13.1.0 | R5s160916 |

| Meet- ing | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
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| RP-74 | RP-162106 | 0451 | 1 | Correction for HTTP authentication | F | 13.0.0 | 13.1.0 | R5s160923 |
| RP-74 | RP-162106 | 0452 | 1 | Correction to IP PTC altstep a_IP_IMS_Config() | F | 13.0.0 | 13.1.0 | R5s160925 |
| RP-74 | RP-162106 | 0453 | 1 | Correction to cr_ReferTo template as used in IMS Conferencing test cases | F | 13.0.0 | 13.1.0 | R5s160927 |
| RP-74 | RP-162106 | 0455 | 1 | Correction to postamble procedure for IMS XCAP Testcases | F | 13.0.0 | 13.1.0 | R5s160931 |
| RP-74 | RP-162106 | 0454 | 1 | Correction to Authentication-Info header used in fl AuthenticationInfo_GBA | F | 13.0.0 | 13.1.0 | R5s160962 |
| RP-75 | RP-170095 | 0475 | - | Routine maintenance for TS 34.229-3 | F | 13.1.0 | 13.2.0 | R5-170558 |
| RP-75 | RP-170099 | 0468 | - | Correction to GCF WI-154 IMS Emergency Call test case 19.1.3 | F | 13.1.0 | 13.2.0 | R5s170044 |
| RP-75 | RP-170099 | 0469 | - | Correction for IMS conferencing test cases | F | 13.1.0 | 13.2.0 | R5s170046 |
| RP-75 | RP-170099 | 0470 | - | Correction for IMS authentication test case 9.1 and 9.2 | F | 13.1.0 | 13.2.0 | R5s170050 |
| RP-75 | RP-170099 | 0471 | - | Correction for IMS video call test case 12.22 | F | 13.1.0 | 13.2.0 | R5s170056 |
| RP-75 | RP-170099 | 0472 | - | Addition of IMS test case 12.24 | В | 13.1.0 | 13.2.0 | R5s170066 |
| RP-75 | RP-170099 | 0473 | - | Addition of IMS test case 12.26 | В | 13.1.0 | 13.2.0 | R5s170074 |
| RP-75 | RP-170099 | 0474 | - | Addition of IMS test case 15.4a | В | 13.1.0 | 13.2.0 | R5s170078 |
| RP-75 | RP-170099 | 0476 | - | Removing temp-gruu from Contact header for IMS emergency registration | F | 13.1.0 | 13.2.0 | R5s170098 |
| RP-75 | RP-170099 | 0477 | - | Adding P-Access-Network-Info header to f_IMS_PrackRequest_MessageHeaderRX() | F | 13.1.0 | 13.2.0 | R5s170099 |
| RP-75 | RP-170099 | 0462 | 1 | Correction for AT command used in IMS Call forwarding Supplementary Service test cases | F | 13.1.0 | 13.2.0 | R5s170108 |
| RP-75 | RP-170099 | 0463 | 1 | Correction to IMS Emergency call test case 19.5.6 | F | 13.1.0 | 13.2.0 | R5s170112 |
| RP-75 | RP-170099 | 0464 | 1 | Correction for IMS XCAP test cases using GBA Authentication | F | 13.1.0 | 13.2.0 | R5s170122 |
| RP-75 | RP-170099 | 0465 | 1 | Correction to IMS Emergency Registration test case 19.5.9 | F | 13.1.0 | 13.2.0 | R5s170143 |
| RP-75 | RP-170099 | 0467 | 1 | Correction to WI-198 test case 17.2 | F | 13.1.0 | 13.2.0 | R5s170148 |
| RP-75 | RP-170099 | 0466 | 1 | Correction to WI-198 test case 17.1 | F | 13.1.0 | 13.2.0 | R5s170166 |
| RP-75 | RP-170098 | 0482 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 13.1.0 | 13.2.0 | R5s170184 |
| RP-76 | RP-171363 | 0494 | - | Routine maintenance for TS 34.229-3 | F | 13.2.0 | 13.3.0 | R5-172048 |
| RP-76 | RP-171367 | 0486 | - | Correction to Annex C.11, C.26, C.45 and C.51 | F | 13.2.0 | 13.3.0 | R5s170228 |
| RP-76 | RP-171367 | 0487 | - | Corrections to IMS test case 12.2a | F | 13.2.0 | 13.3.0 | R5s170231 |
| RP-76 | RP-171367 | 0488 | - | Further corrections to IMS test case 12.26 | F | 13.2.0 | 13.3.0 | R5s170232 |
| RP-76 | RP-171367 | 0489 | - | Correction for IMS authentication test cases 9.x | F | 13.2.0 | 13.3.0 | R5s170297 |
| RP-76 | RP-171367 | 0490 | - | Correction for IMS video call test cases | F | 13.2.0 | 13.3.0 | R5s170299 |
| RP-76 | RP-171367 | 0491 | - | Correction to SessionID in IMS signalling procedures | F | 13.2.0 | 13.3.0 | R5s170305 |
| RP-76 | RP-171367 | 0493 | - | Correction for IMS emergency call test cases | F | 13.2.0 | 13.3.0 | R5s170327 |
| RP-76 | RP-171367 | 0495 | - | Correction for IMS EVS test cases | F | 13.2.0 | 13.3.0 | R5s170336 |
| RP-76 | RP-171367 | 0496 | - | Correction to GCF WI-198 IMS MTSI video Test Case 17.1 | F | 13.2.0 | 13.3.0 | R5s170344 |
| RP-76 | RP-171367 | 0497 | - | Correction to function fl_IMS_Server_SecurityContextCloseTCP | F | 13.2.0 | 13.3.0 | R5s170346 |
| RP-76 | RP-171367 | 0479 | 1 | Correction to function fl_SS_CallForward | F | 13.2.0 | 13.3.0 | R5s170377 |
| RP-76 | RP-171367 | 0480 | 1 | Correction to GCF WI-154 emergency call TC 19.5.8 | F | 13.2.0 | 13.3.0 | R5s170378 |
| RP-76 | RP-171367 | 0483 | 1 | Addition of IMS test case 8.15 | В | 13.2.0 | 13.3.0 | R5s170390 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
|-------|-----------|------|-----|---|-----|-------------|-------------|-----------|
| RP-76 | RP-171367 | 0484 | 1 | Correction to Remove security context procedure | F | 13.2.0 | 13.3.0 | R5s170391 |
| RP-76 | RP-171366 | 0500 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 13.2.0 | 13.3.0 | R5s170415 |
| RP-76 | RP-171367 | 0481 | 1 | Introduction of PIXIT for SPI calculation | F | 13.2.0 | 13.3.0 | R5s170417 |
| RP-76 | RP-171367 | 0485 | 1 | Corrections to 180 Ringing | F | 13.2.0 | 13.3.0 | R5s170418 |
| RP-77 | RP-171688 | 0513 | 1 | Routine maintenance for TS 34.229-3 | F | 13.3.0 | 13.4.0 | R5-174564 |
| RP-77 | RP-171692 | 0507 | - | Correction for UTRAN IMS test case 6.3 and 7.1 | F | 13.3.0 | 13.4.0 | R5s170541 |
| RP-77 | RP-171692 | 0508 | - | Correction to function fl_IMS_PTC_SPI_ValidValueList_Init() | F | 13.3.0 | 13.4.0 | R5s170544 |
| RP-77 | RP-171692 | 0509 | - | Correction to IMS test cases 19.4.6 and 19.4.7 | F | 13.3.0 | 13.4.0 | R5s170554 |
| RP-77 | RP-171692 | 0510 | - | Correction to function to GCF WI-103 IMS TCs 16.2, 16.3 and 16.4 | F | 13.3.0 | 13.4.0 | R5s170578 |
| RP-77 | RP-171692 | 0514 | - | Correction to function fl_IMS_Server_GetServerAddrRx() | F | 13.3.0 | 13.4.0 | R5s170604 |
| RP-77 | RP-171692 | 0498 | 1 | Addition of IMS test case 19.4.6 | В | 13.3.0 | 13.4.0 | R5s170614 |
| RP-77 | RP-171692 | 0499 | 1 | Addition of IMS test case 19.4.7 | В | 13.3.0 | 13.4.0 | R5s170615 |
| RP-77 | RP-171692 | 0501 | 1 | Correction to bandwidth used in IMS test case 12.23 | F | 13.3.0 | 13.4.0 | R5s170622 |
| RP-77 | RP-171692 | 0502 | 1 | Correction of f_IMS_BuildSDP_MOCallAudioVideo_Step4 | F | 13.3.0 | 13.4.0 | R5s170626 |
| RP-77 | RP-171692 | 0503 | 1 | Correction for IMS deregistration procedure | F | 13.3.0 | 13.4.0 | R5s170643 |
| RP-77 | RP-171692 | 0505 | 1 | Correction to SPI initialization | F | 13.3.0 | 13.4.0 | R5s170645 |
| RP-77 | RP-171692 | 0504 | 1 | Addition of IMS test case G.8.1 | В | 13.3.0 | 13.4.0 | R5s170690 |
| RP-77 | RP-171691 | 0516 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 13.3.0 | 13.4.0 | R5s170705 |
| RP-77 | RP-171692 | 0512 | - | Rel-14 baseline upgrade for IMS Test Suites | F | 13.4.0 | 14.0.0 | R5s170600 |
| RP-78 | RP-172217 | 0521 | - | EIEI: Introduction of Test Model | F | 14.0.0 | 14.1.0 | R5-176171 |
| RP-78 | RP-172241 | 0517 | - | Correction to bandwidth value in IMS test case 12.26 | F | 14.0.0 | 14.1.0 | R5s170817 |
| RP-78 | RP-172241 | 0515 | 1 | Correction to IMS test case 12.2a | F | 14.0.0 | 14.1.0 | R5s170836 |
| RP-78 | RP-172241 | 0518 | - | Extending timer tolerance for 19.5.7 | F | 14.0.0 | 14.1.0 | R5s170876 |
| RP-78 | RP-172241 | 0519 | - | Correction to SRVCC feature tag handling in IMS test case 12.22 | F | 14.0.0 | 14.1.0 | R5s170877 |
| RP-78 | RP-172241 | 0520 | - | Correction to f_IMS_MTCallSetup_Common_Steps12_13 | F | 14.0.0 | 14.1.0 | R5s170883 |
| RP-78 | RP-172241 | 0522 | - | Addition of IMS test case G.12.1 | F | 14.0.0 | 14.1.0 | R5s170904 |
| RP-78 | RP-172241 | 0523 | - | Addition of IMS test case G.12.3 | F | 14.0.0 | 14.1.0 | R5s170906 |
| RP-78 | RP-172241 | 0511 | 1 | Addition of IMS test case 19.1.6 | F | 14.0.0 | 14.1.0 | R5s170951 |
| RP-78 | RP-172240 | 0526 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 14.0.0 | 14.1.0 | R5s170959 |
| RP-79 | RP-180089 | 0551 | - | EIEI: Test Model updates | F | 14.1.0 | 14.2.0 | R5-180613 |
| RP-79 | RP-180104 | 0552 | - | Routine maintenance for TS 34.229-3 | F | 14.1.0 | 14.2.0 | R5-180632 |
| RP-79 | RP-180112 | 0531 | - | Correction of function f_IMS_CC_StartCall | F | 14.1.0 | 14.2.0 | R5s180023 |
| RP-79 | RP-180112 | 0538 | - | Correction to IMS three way session creation test cases 15.21a and 15.21c | F | 14.1.0 | 14.2.0 | R5s180053 |
| RP-79 | RP-180112 | 0539 | - | Correction for IMS UTRAN test cases 6.3 and 7.1 | F | 14.1.0 | 14.2.0 | R5s180061 |
| RP-79 | RP-180112 | 0524 | 1 | Clean-up and harmonisation of IMS test case implementation for EUTRA/WLAN/FBBA/CatM1 | F | 14.1.0 | 14.2.0 | R5s180092 |
| RP-79 | RP-180112 | 0525 | 1 | Correction of f_UTRAN_IPCAN_Release | F | 14.1.0 | 14.2.0 | R5s180093 |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
|-------|-----------|------|-----|--|-----|-------------|-------------|-----------|
| RP-79 | RP-180112 | 0541 | - | Correction to IMS function fl_IMS_Server_RemoveSecurityContext | F | 14.1.0 | 14.2.0 | R5s180112 |
| RP-79 | RP-180112 | 0530 | 1 | Addition of IMS test case G.15.17 | F | 14.1.0 | 14.2.0 | R5s180116 |
| RP-79 | RP-180112 | 0542 | - | Addition of IMS test case J.8.1 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180126 |
| RP-79 | RP-180112 | 0543 | - | Addition of IMS test case J.12.1 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180128 |
| RP-79 | RP-180112 | 0544 | - | Addition of IMS test case J.12.2 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180130 |
| RP-79 | RP-180112 | 0545 | - | Addition of IMS test case J.15.1 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180132 |
| RP-79 | RP-180112 | 0546 | - | Addition of IMS test case J.15.3 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180134 |
| RP-79 | RP-180112 | 0547 | - | Addition of IMS test case J.15.4 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180136 |
| RP-79 | RP-180112 | 0548 | - | Addition of IMS test case J.15.6 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180138 |
| RP-79 | RP-180112 | 0549 | - | Addition of IMS test case J.15.2 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180142 |
| RP-79 | RP-180112 | 0550 | - | Addition of IMS test case J.19.2 for CAT-M1 UEs | F | 14.1.0 | 14.2.0 | R5s180144 |
| RP-79 | RP-180112 | 0555 | - | Addition of IMS test case G.12.2 | F | 14.1.0 | 14.2.0 | R5s180162 |
| RP-79 | RP-180112 | 0527 | 1 | Postponing activation of dedicated bearer in MT call scenarios | F | 14.1.0 | 14.2.0 | R5s180200 |
| RP-79 | RP-180111 | 0564 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 14.1.0 | 14.2.0 | R5s180209 |
| RP-80 | RP-180728 | 0569 | - | Correction for IMS over UTRAN test cases 6.3 and 7.1 | F | 14.2.0 | 14.3.0 | R5s180247 |
| RP-80 | RP-180728 | 0570 | - | Addition of IMS test case G.17.1 | F | 14.2.0 | 14.3.0 | R5s180267 |
| RP-80 | RP-180728 | 0571 | - | Correction for IMS call control test case 12.2 | F | 14.2.0 | 14.3.0 | R5s180278 |
| RP-80 | RP-180728 | 0574 | - | Correction to IMS test case 17.2 regarding strength tag in video media | F | 14.2.0 | 14.3.0 | R5s180304 |
| RP-80 | RP-180728 | 0553 | 1 | Follow-up to R5s170904 regarding IMS test case G.12.1 | F | 14.2.0 | 14.3.0 | R5s180320 |
| RP-80 | RP-180728 | 0556 | 1 | Addition of IMS test case G.12.4 | F | 14.2.0 | 14.3.0 | R5s180323 |
| RP-80 | RP-180728 | 0557 | 1 | Addition of IMS test case G.15.2 | F | 14.2.0 | 14.3.0 | R5s180329 |
| RP-80 | RP-180728 | 0558 | 1 | Addition of IMS test case G.15.11 | F | 14.2.0 | 14.3.0 | R5s180330 |
| RP-80 | RP-180728 | 0559 | 1 | Addition of IMS test case G.15.13 | F | 14.2.0 | 14.3.0 | R5s180331 |
| RP-80 | RP-180728 | 0560 | 1 | Addition of IMS test case G.15.18 | F | 14.2.0 | 14.3.0 | R5s180332 |
| RP-80 | RP-180728 | 0561 | 1 | Addition of IMS test case G.15.21 | F | 14.2.0 | 14.3.0 | R5s180333 |
| RP-80 | RP-180728 | 0562 | 1 | Check of codec parameters for C.44 | F | 14.2.0 | 14.3.0 | R5s180342 |
| RP-80 | RP-180728 | 0563 | 1 | Generic implementation of common checks for 180 | F | 14.2.0 | 14.3.0 | R5s180343 |
| RP-80 | RP-180728 | 0565 | 1 | and 183 responses Addition of IMS test case G.15.20 | F | 14.2.0 | 14.3.0 | R5s180357 |
| RP-80 | RP-180728 | 0566 | 1 | Addition of IMS test case G.15.23 | F | 14.2.0 | 14.3.0 | R5s180358 |
| RP-80 | RP-180728 | 0567 | 1 | Addition of IMS test case G.15.12 | F | 14.2.0 | 14.3.0 | R5s180362 |
| RP-80 | RP-180728 | 0568 | 1 | Addition of IMS test case G.15.14 | F | 14.2.0 | 14.3.0 | R5s180363 |
| RP-80 | RP-180727 | 0577 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 24.220.2 (press). Appendix | F | 14.2.0 | 14.3.0 | R5s180396 |
| RP-81 | RP-181585 | 0580 | - | in the TC lists in 34.229-3 (prose), Annex A Addition of IMS test case G.15.4 | В | 14.3.0 | 14.4.0 | R5s180433 |
| RP-81 | RP-181585 | 0581 | - | Corrections to WLAN MT calls over IMS regarding | F | 14.3.0 | 14.4.0 | R5s180436 |
| RP-81 | RP-181585 | 0582 | - | returning 180 Ringing Corrections to IMS emergency test case 19.1.6 | F | 14.3.0 | 14.4.0 | R5s180463 |
| RP-81 | RP-181585 | 0575 | 1 | Correction to | F | 14.3.0 | 14.4.0 | R5s180483 |
| | | | | f_IMS_MTCallSetup_AnnexC11aC11cC26aC26b | | | | |

| Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
|-------|-------------------------|------|-----|---|-----|-------------|-------------|-----------|
| RP-81 | RP-181585 | 0578 | 1 | Addition of IMS test case G.15.24 | В | 14.3.0 | 14.4.0 | R5s180505 |
| RP-81 | RP-181585 | 0579 | 1 | Addition of IMS test case G.15.25 | В | 14.3.0 | 14.4.0 | R5s180506 |
| RP-81 | RP-181584 | 0584 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 14.3.0 | 14.4.0 | R5s180524 |
| RP-82 | RP-182288 | 0591 | - | MCPTT: Updates to common type definitions | F | 14.4.0 | 14.5.0 | R5-187458 |
| RP-82 | RP-182291 | 0586 | - | Addition of IMS test case 15.25 | F | 14.4.0 | 14.5.0 | R5s180548 |
| RP-82 | RP-182291 | 0588 | - | Correction to race condition in IMS test case 12.2a | F | 14.4.0 | 14.5.0 | R5s180561 |
| RP-82 | RP-182291 | 0589 | - | Addition of IMS test case J.19.1 | F | 14.4.0 | 14.5.0 | R5s180564 |
| RP-82 | RP-182291 | 0590 | - | Corrections to IMS test case 19.4.6 | F | 14.4.0 | 14.5.0 | R5s180586 |
| RP-82 | RP-182291 | 0583 | 1 | Addition of IMS test case 19.1.1 | F | 14.4.0 | 14.5.0 | R5s180604 |
| RP-82 | RP-182291 | 0585 | 1 | Addition of IMS Testcase J.18.2 | F | 14.4.0 | 14.5.0 | R5s180609 |
| RP-82 | RP-182290/ R5s180635 | 0592 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 14.4.0 | 14.5.0 | R5s180635 |
| RP-82 | RP-182291 | 0587 | - | Rel-15 Sep'18 baseline upgrade for IMS Test Suites | F | 14.5.0 | 15.0.0 | R5s180555 |
| RP-83 | RP-190099 | 0594 | - | Addition of IMS test case G.17.2 | В | 15.0.0 | 15.1.0 | R5s190003 |
| RP-83 | RP-190099 | 0595 | - | Correction to IMS video call test case 17.2 | F | 15.0.0 | 15.1.0 | R5s190006 |
| RP-83 | RP-190098 | 0596 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 15.0.0 | 15.1.0 | R5s190125 |
| RP-85 | RP-191708 | 0599 | - | Routine maintenance for TS 34.229-3 | F | 15.1.0 | 15.2.0 | R5-195959 |
| RP-85 | RP-191713 | 0597 | - | Addition of IMS test case 12.13a | В | 15.1.0 | 15.2.0 | R5s190458 |
| RP-85 | RP-191713 | 0598 | - | Correction to support Geolocation information for IMS test cases. | F | 15.1.0 | 15.2.0 | R5s190580 |
| RP-85 | RP-191713 | 0602 | - | Changes to IMS common functions to support MCX development | F | 15.1.0 | 15.2.0 | R5s190727 |
| RP-85 | RP-191712 | 0605 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 15.1.0 | 15.2.0 | R5s190818 |
| RP-86 | RP-192489 | 0607 | - | Further changes to IMS common functions to support MCX development | F | 15.2.0 | 15.3.0 | R5s190882 |
| RP-86 | RP-192489 | 0608 | - | Correction to generic function f_IMS_PTC_ImsInfo_GetNextBranch | F | 15.2.0 | 15.3.0 | R5s190963 |
| RP-86 | RP-192489 | 0609 | - | Correction to IMS test case 19.3.1 for checking Geolocation information | F | 15.2.0 | 15.3.0 | R5s190985 |
| RP-86 | RP-192489 | 0610 | - | | F | 15.2.0 | 15.3.0 | R5s191000 |
| RP-86 | RP-192489 | 0601 | 1 | Correction to postamble procedure for IMS XCAP Testcases | F | 15.2.0 | 15.3.0 | R5s191010 |
| RP-86 | RP-192489 | 0604 | 1 | Correction to IMS Emergency Call test case 19.3.2c | F | 15.2.0 | 15.3.0 | R5s191029 |
| RP-86 | RP-192489 | 0603 | 1 | Corrections to IMS emergency test cases 19.4.5, 19.4.6, and 19.4.7 | F | 15.2.0 | 15.3.0 | R5s191145 |
| RP-87 | RP-200061 | 0616 | - | IMS over NR/5GC: Initial Test Model | F | 15.3.0 | 15.4.0 | R5-200257 |
| RP-87 | RP-200077 | 0617 | - | Routine maintenance for TS 34.229-3 | F | 15.3.0 | 15.4.0 | R5-200260 |
| RP-87 | RP-200077 | 0614 | - | Addition of IMS test case 22.2 | F | 15.3.0 | 15.4.0 | R5s200206 |
| RP-87 | RP-200077 | 0615 | - | Correction of MT re-INVITE and MT BYE for MO call | F | 15.3.0 | 15.4.0 | R5s200210 |
| RP-87 | RP-200077 | 0611 | 1 | Enhancements and improvements of common IMS code | F | 15.3.0 | 15.4.0 | R5s200251 |
| RP-87 | RP-200077 | 0612 | 1 | Addition of IMS test case 22.1 | F | 15.3.0 | 15.4.0 | R5s200267 |
| RP-87 | RP-200077 | 0618 | - | Addition of IMS test case 22.6 | F | 15.3.0 | 15.4.0 | R5s200297 |
| RP-87 | RP-200077 | 0619 | - | Addition of IMS test case 22.8 | F | 15.3.0 | 15.4.0 | R5s200299 |
| RP-87 | RP-200077 | 0620 | - | Addition of IMS test case 22.4 | F | 15.3.0 | 15.4.0 | R5s200301 |
| RP-87 | RP-200077 | 0621 | - | Addition of IMS test case 22.3 | F | 15.3.0 | 15.4.0 | R5s200303 |

| RP-97 RP-20077 0622 - Addition of IMS test case 2.2.5 F 45.3.0 15.4.0 85x200320 RP-87 RP-20077 0624 - Add new verified and e-mail agreed TTCN test cases F 15.3.0 15.4.0 85x200324 RP-88 RP-200599 0625 - Routine maintenance for TS 34;229-3 F 15.4.0 15.5.0 R5x200324 RP-88 RP-200599 0626 - Enhancement of delog survy for support of additional F 15.4.0 15.5.0 85x200743 RP-88 RP-200599 0623 - Add new verified and e-mail agreed TTCN test cases F 15.6.0 15.5.0 85x200345 RP-88 RP-201467 0630 - Mdd new verified and e-mail agreed TTCN test cases F 15.6.0 15.6.0 85x200345 RP-89 RP-201467 0633 - Correction and enhancement of test cases F 15.5.0 15.6.0 85x20145 RP-89 RP-201467 0627 1 Correction of MS PpM Inadiate F 15.5.0< | Meet- | TSG doc | CR | Rev | Subject | Cat | Old vers | New vers | WG doc |
|--|-------|-----------|------|-----|---|-----|-------------|-------------|-----------|
| In the TC lists in 34.229-3 (prose), Annex A F 15.4.0 15.5.0 15.6.0 15.5 | | RP-200077 | 0622 | - | Addition of IMS test case 22.5 | F | | | R5s200320 |
| RP-808 RP-200593 0625 Routine maintenance for TS 34.229-3 F 15.4.0 15.5.0 R5-201585 RP-88 RP-200599 0626 Enhancement of dialog array for support of additional for the process of the event packages F 15.4.0 15.5.0 R5.8200940 RP-88 RP-200599 0623 1 Addition of IMS test case 22.7 F 15.4.0 15.5.0 R5.200940 RP-88 RP-200599 0623 1 Addition of IMS test case 27.7 F 15.5.0 15.5.0 R5.200940 RP-89 RP-2014467 0632 1 Modern RYSGS RF 15.5.0 15.5.0 R5.201544 RP-89 RP-201467 0632 1 Corrections of IMS DNI handling F 15.5.0 15.6.0 R58201156 RP-89 RP-201467 0632 1 Corrections for IMS Common functions F 15.5.0 15.6.0 R58201172 RP-89 RP-201467 0627 1 Corrections for IMS Common functions F 15.6.1 15.6.0 15.6.0 15 | RP-87 | RP-200077 | 0624 | - | | F | 15.3.0 | 15.4.0 | R5s200384 |
| RP-88 RP-200599 0622 | RP-88 | RP-200593 | 0625 | - | Routine maintenance for TS 34.229-3 | F | 15.4.0 | 15.5.0 | R5-201585 |
| RP-88 RP-200599 0623 1 Addition of I/MS test case 22.7 F 15.4.0 15.5.0 R5.5200840 RP-88 RP-200599 0628 - Add new verified and e-mail agreed TTCN test cases F 15.4.0 15.5.0 R5.200848 RP-89 RP-201448 0631 - IMS over NR/SGC: Misc updates F 15.5.0 15.6.0 R5-203544 RP-89 RP-201467 0630 - Update of XSD Long Long Long F 15.5.0 15.6.0 R5-201014 RP-89 RP-201467 0632 - Correction and enhancement of Long Long F 15.5.0 15.6.0 R5-201156 RP-89 RP-201467 0633 - Correction of IMS PDIN handling F 15.5.0 15.6.0 R5-201156 RP-89 RP-201467 0633 - Corrections for IMS common functions F 15.6.0 15.6.0 R5-201156 RP-89 RP-201467 0633 - Corrections of further XCAP test cases regarding rule F 15.6.0 15 | RP-88 | RP-200599 | 0626 | - | | F | 15.4.0 | 15.5.0 | R5s200743 |
| In the TC lists in 34.229-3 (prose), Annex A | RP-88 | RP-200599 | 0623 | 1 | | F | 15.4.0 | 15.5.0 | R5s200840 |
| RP-89 RP-201448 0631 IMS over NR/SGC: Misc updates F 15.5.0 15.6.0 R5-203544 RP-89 RP-201467 0630 Update of XSD.ttten F 15.5.0 15.6.0 R5s201161 RP-89 RP-201467 0632 Correction and enhancement of LUTC. Formal Date Time F 15.5.0 15.6.0 R5s201156 RP-89 RP-201467 0633 Corrections for IMS common functions F 15.5.0 15.6.0 R5s2011273 RP-89 RP-201467 0627 1 Corrections of further XCAP test cases regarding rule elements F 15.5.0 15.6.0 15.6.0 R5s201282 RP-80 RP-202249 0645 Addition of IMS over SGS test case 6.8 B 15.6.1 15.7.0 R5s201378 RP-90 RP-202249 0647 Enhancement of IP_PTC F 15.6.1 15.7.0 R5s20158 RP-90 RP-202249 0639 Correction to function I_WLAN_IPCAN_MainLoop F 15.6.1 15.7.0 R5s201508 RP-90 RP-202249 0635< | RP-88 | RP-200599 | 0628 | - | | F | 15.4.0 | 15.5.0 | R5s200916 |
| RP-89 RP-201467 0632 Correction and enhancement of further XCAP test case (a.) RF-89 RP-201467 Correction of IMS PDM handling F 15.5.0 15.6.0 R5.201177 RP-89 RP-201467 0629 Corrections for IMS common functions F 15.5.0 15.6.0 R5.201177 RP-89 RP-201467 0627 Corrections for IMS common functions F 15.5.0 15.6.0 R5.201273 RP-89 RP-201467 0627 Corrections of further XCAP test cases regarding rule F 15.5.0 15.6.0 R5.201282 RP-89 RP-201467 0627 Corrections of further XCAP test cases regarding rule F 15.5.0 15.6.0 R5.201282 RP-89 RP-202249 0645 Addition of IMS over 5GS test case 6.8 B 15.6.1 15.7.0 R5.201378 RP-90 RP-202249 0647 Enhancement of IP_PTC F 15.6.1 15.7.0 R5.201440 RP-90 RP-202249 0634 Enhancement of a_IMS_SUBSCRIBE_Request F 15.6.1 15.7.0 R5.201583 RP-90 RP-202249 0635 Correction to function f_WLAN_IPCAN_MainLoop F 15.6.1 15.7.0 R5.201593 RP-90 RP-202249 0636 Correction to IMS TCS F 15.6.1 15.7.0 R5.201593 RP-90 RP-202249 0636 Correction to IMS TCS F 15.6.1 15.7.0 R5.201593 RP-90 RP-202249 0636 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 R5.201609 RP-90 RP-202249 0642 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 R5.201609 RP-90 RP-202249 0638 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5.201609 RP-90 RP-202249 0639 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5.201630 RP-90 RP-202249 0640 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5.201630 RP-90 RP-202249 0640 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5.201630 RP-90 RP-202249 0640 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5.201630 RP-90 RP-202249 0640 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5.201630 RP-90 RP-201667 0660 Addition of IMS | RP-89 | RP-201448 | 0631 | - | IMS over NR/5GC: Misc updates | F | 15.5.0 | 15.6.0 | R5-203544 |
| F90 RP-201467 0633 Correction of IMS PDN handling F. 15.5.0 15.6.0 R5s201177 | RP-89 | RP-201467 | 0630 | - | Update of XSD.ttcn | F | 15.5.0 | 15.6.0 | R5s201014 |
| RP-89 RP-201467 0633 Correction of IMS PDN handling F 15.5.0 15.6.0 R5s201177 RP-89 RP-201467 0629 1 Corrections of IMS common functions F 15.5.0 15.6.0 R5s201273 RP-89 RP-201467 0627 1 Corrections of further XCAP test cases regarding rule in the policy of the pdf version of the | RP-89 | RP-201467 | 0632 | - | | F | 15.5.0 | 15.6.0 | R5s201156 |
| RP-89 RP-201467 0627 1 Corrections of further XCAP test cases regarding rule F 15.5.0 15.6.0 RSs201282 elements new version to fix distorted figures for the pdf version F 15.6.0 15.6.1 15.6.0 RP-90 RP-202249 0645 - Addition of IMS over 5GS test case 6.8 B 15.6.1 15.7.0 RSs201378 RP-90 RP-202249 0647 - Enhancement of IP_PTC F 15.6.1 15.7.0 RSs201378 RP-90 RP-202249 0649 - Correction to function f_WLAN_IPCAN_MainLoop F 15.6.1 15.7.0 RSs201508 RP-90 RP-202249 0634 1 Enhancement of a_IMS_SUBSCRIBE_Request F 15.6.1 15.7.0 RSs201583 RP-90 RP-202249 0635 1 Correction to IMS TCs F 15.6.1 15.7.0 RSs201590 RP-90 RP-202249 0636 1 Correction to XCAP test cases F 15.6.1 15.7.0 RSs201590 RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 RSs201607 RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 RSs201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 RSs201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 RSs201609 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 RSs201609 RP-90 RP-202249 0631 1 Addition of IMS 5GS sMS test case 9.1 B 15.6.1 15.7.0 RSs201609 RP-90 RP-202249 0631 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 RSs201609 RP-90 RP-202249 0630 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 RSs201630 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 RSs201630 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 RSs201630 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 RSs201630 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 RSs201630 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 RSs201630 RP-90 RP-202249 0646 - Rel-16 Sep 20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 RSs201632 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 RSs21009 RP-91 RP-210167 0662 | RP-89 | RP-201467 | 0633 | - | | F | 15.5.0 | 15.6.0 | R5s201177 |
| elements | RP-89 | RP-201467 | 0629 | 1 | Corrections for IMS common functions | F | 15.5.0 | 15.6.0 | R5s201273 |
| RP-89 - - new version to fix distorted figures for the pdf version F 15.6.0 15.6.1 - RP-90 RP-202249 0645 - Addition of IMS over 5GS test case 6.8 B 15.6.1 15.7.0 RS5201378 RP-90 RP-202249 0647 - Enhancement of IP_PTC F 15.6.1 15.7.0 RS5201440 RP-90 RP-202249 0649 - Correction to function f_WLAN_IPCAN_MainLoop F 15.6.1 15.7.0 R55201508 RP-90 RP-202249 0634 1 Enhancement of a_IMS_SUBSCRIBE_Request F 15.6.1 15.7.0 R55201508 RP-90 RP-202249 0635 1 Correction to IMS TCs F 15.6.1 15.7.0 R55201590 RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 R55201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R55201609 RP-90 <td>RP-89</td> <td>RP-201467</td> <td>0627</td> <td>1</td> <td></td> <td>F</td> <td>15.5.0</td> <td>15.6.0</td> <td>R5s201282</td> | RP-89 | RP-201467 | 0627 | 1 | | F | 15.5.0 | 15.6.0 | R5s201282 |
| RP-90 RP-202249 0647 Enhancement of IP_PTC F 15.6.1 15.7.0 R5s201440 RP-90 RP-202249 0649 Correction to function f_WLAN_IPCAN_MainLoop F 15.6.1 15.7.0 R5s201508 RP-90 RP-202249 0634 1 Enhancement of a_IMS_SUBSCRIBE_Request F 15.6.1 15.7.0 R5s201503 RP-90 RP-202249 0635 1 Correction to IMS TCs F 15.6.1 15.7.0 R5s201590 RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 R5s201591 RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 R5s201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS sMS test case 9.1 B 15.6.1 15.7.0 R5s201609 RP- | RP-89 | - | - | - | | F | 15.6.0 | 15.6.1 | - |
| RP-90 RP-202249 0634 1 Enhancement of a_IMS_SUBSCRIBE_Request F 15.6.1 15.7.0 R5s201508 RP-90 RP-202249 0635 1 Correction to IMS TCs F 15.6.1 15.7.0 R5s201590 RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 R5s201591 RP-90 RP-202249 0636 1 Correction of IMS TCs F 15.6.1 15.7.0 R5s201591 RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 R5s201591 RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 R5s201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0656 - Add new verified and e-mail agreed TTCN test cases F 15.6.1 15.7.0 R5s201647 in the TC lists in 34.229-3 (prose), Annex A Rel-16 Sep 20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201037 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210039 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.5 F 16.0.0 16.1.0 R5s210030 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test case 7.1 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0666 - Corrections for 5GS IMS SMS test case 7.1 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Corrections for 5GS IMS SMS test case 7.1 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Corrections for 5GS IMS SMS test case 7.1 F 16.0.0 16.1.0 R5s210112 | RP-90 | RP-202249 | 0645 | - | Addition of IMS over 5GS test case 6.8 | В | 15.6.1 | 15.7.0 | R5s201378 |
| RP-90 RP-202249 0636 1 Correction to IMS TCs F 15.6.1 15.7.0 R5s201590 RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 R5s201591 RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 R5s201691 RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 R5s201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0666 - Add new verified and e-mail agreed TTCN test cases F 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0666 - Rel-16 Sep?20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201632 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0665 - Correction to Generic IMS SMS test case 8.1 In 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test case 8.1 In 16.0.0 16.1.0 R5s210109 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test case 8.1 In 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test case 8.1 In 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function IMS 5GS Call control test case 7.11 F 16.0.0 16.1.0 R5s210136 | RP-90 | RP-202249 | 0647 | - | Enhancement of IP_PTC | F | 15.6.1 | 15.7.0 | R5s201440 |
| RP-90 RP-202249 0636 1 Correction to IMS TCs F 15.6.1 15.7.0 R5s201590 RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 R5s201591 RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 R5s201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0656 - Add new verified and e-mail agreed TTCN test cases F 15.6.1 15.7.0 R5s201647 in the TC lists in 34.229-3 (prose), Annex A RP-20166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5s201409 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Correction to function B 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0666 - Addition of IMS over 5GS test case 7.1 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0666 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0666 - Addition of IMS over 5GS test case 7.1 F 16.0.0 16.1.0 R5s2101100 RP-91 RP-210167 0666 - Addition of IMS SGS call control test case 7.11 F 16.0.0 16.1.0 R5s2101100 RP-91 RP-210167 0666 - Addition of IMS SGS call control test case 7.11 F 16.0.0 16.1.0 R5s2101114 | RP-90 | RP-202249 | 0649 | - | Correction to function f_WLAN_IPCAN_MainLoop | F | 15.6.1 | 15.7.0 | R5s201508 |
| RP-90 RP-202249 0636 1 Correction of XCAP test cases F 15.6.1 15.7.0 R5s201591 RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 R5s201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201629 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15 | RP-90 | RP-202249 | 0634 | 1 | Enhancement of a_IMS_SUBSCRIBE_Request | F | 15.6.1 | 15.7.0 | R5s201583 |
| RP-90 RP-202249 0641 1 Addition of IMS 5GS registration test case 6.1 B 15.6.1 15.7.0 RSs201607 RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201629 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0666 - Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Anne | RP-90 | RP-202249 | 0635 | 1 | Correction to IMS TCs | F | 15.6.1 | 15.7.0 | R5s201590 |
| RP-90 RP-202249 0642 1 Addition of IMS 5GS registration test case 6.6 B 15.6.1 15.7.0 R5s201608 RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201629 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0656 - Add new verified and e-mail agreed TTCN test cases F 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201409 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test case 8.1 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0667 - Addition of IMS over 5GS test case 7.1 F 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0666 - Corrections for 5GS IMS SMS test case 8.1 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS over 5GS test case 7.1 F 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS SGS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Corrections for 5GS IMS SMS test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210136 | RP-90 | RP-202249 | 0636 | 1 | Correction of XCAP test cases | F | 15.6.1 | 15.7.0 | R5s201591 |
| RP-90 RP-202249 0643 1 Addition of IMS 5GS registration test case 6.9 B 15.6.1 15.7.0 R5s201609 RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201629 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0666 - Add new verified and e-mail agreed TTCN test cases F 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201647 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 | RP-90 | RP-202249 | 0641 | 1 | Addition of IMS 5GS registration test case 6.1 | В | 15.6.1 | 15.7.0 | R5s201607 |
| RP-90 RP-202249 0637 1 Addition of IMS 5GS SMS test case 9.1 B 15.6.1 15.7.0 R5s201629 RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0666 - Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A F 15.6.1 15.7.0 R5s201647 RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201647 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0661 - Correction to Generic IMS functions < | RP-90 | RP-202249 | 0642 | 1 | Addition of IMS 5GS registration test case 6.6 | В | 15.6.1 | 15.7.0 | R5s201608 |
| RP-90 RP-202249 0638 1 Addition of IMS 5GS SMS test case 9.2 B 15.6.1 15.7.0 R5s201630 RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0656 - Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A F 15.6.1 15.7.0 R5s201647 RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201647 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5-210203 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 | RP-90 | RP-202249 | 0643 | 1 | Addition of IMS 5GS registration test case 6.9 | В | 15.6.1 | 15.7.0 | R5s201609 |
| RP-90 RP-202249 0639 1 Addition of IMS 5GS SMS test case 9.4 B 15.6.1 15.7.0 R5s201631 RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0656 - Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A F 15.6.1 15.7.0 R5s201647 RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201409 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5s210033 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.2 | RP-90 | RP-202249 | 0637 | 1 | Addition of IMS 5GS SMS test case 9.1 | В | 15.6.1 | 15.7.0 | R5s201629 |
| RP-90 RP-202249 0640 1 Addition of IMS 5GS SMS test case 9.5 B 15.6.1 15.7.0 R5s201632 RP-90 RP-202249 0656 - Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A F 15.6.1 15.7.0 R5s201647 RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201409 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5-210203 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test cases | RP-90 | RP-202249 | 0638 | 1 | Addition of IMS 5GS SMS test case 9.2 | В | 15.6.1 | 15.7.0 | R5s201630 |
| RP-90 RP-202249 0656 - Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A F 15.6.1 15.7.0 R5s201647 RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201409 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5-210203 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210110 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test cases B 16.0.0 16.1.0 R5s210136 RP-91 | RP-90 | RP-202249 | 0639 | 1 | Addition of IMS 5GS SMS test case 9.4 | В | 15.6.1 | 15.7.0 | R5s201631 |
| in the TC lists in 34.229-3 (prose), Annex A RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201409 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5-210203 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test case 7.11 F 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS 5GS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-90 | RP-202249 | 0640 | 1 | Addition of IMS 5GS SMS test case 9.5 | В | 15.6.1 | 15.7.0 | R5s201632 |
| RP-90 RP-202249 0646 - Rel-16 Sep'20 baseline upgrade for IMS Test Suites F 15.7.0 16.0.0 R5s201409 RP-91 RP-210166 0669 - Routine maintenance for TS 34.229-3 F 16.0.0 16.1.0 R5-210203 RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 | RP-90 | RP-202249 | 0656 | - | | F | 15.6.1 | 15.7.0 | R5s201647 |
| RP-91 RP-210167 0661 - Correction to Generic IMS functions B 16.0.0 16.1.0 R5s210037 RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test cases B 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS 5GS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-90 | RP-202249 | 0646 | - | | F | 15.7.0 | 16.0.0 | R5s201409 |
| RP-91 RP-210167 0662 - Addition of IMS over 5GS test case 7.12 B 16.0.0 16.1.0 R5s210096 RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test cases B 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS 5GS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-91 | RP-210166 | 0669 | 1- | Routine maintenance for TS 34.229-3 | F | 16.0.0 | 16.1.0 | R5-210203 |
| RP-91 RP-210167 0663 - Addition of IMS over 5GS test case 7.5 B 16.0.0 16.1.0 R5s210098 RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test cases B 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS 5GS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-91 | RP-210167 | 0661 | - | Correction to Generic IMS functions | В | 16.0.0 | 16.1.0 | R5s210037 |
| RP-91 RP-210167 0664 - Addition of IMS over 5GS test case 7.2 F 16.0.0 16.1.0 R5s210100 RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test cases B 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS 5GS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-91 | RP-210167 | 0662 | - | Addition of IMS over 5GS test case 7.12 | В | 16.0.0 | 16.1.0 | R5s210096 |
| RP-91 RP-210167 0665 - Corrections for 5GS IMS SMS test cases B 16.0.0 16.1.0 R5s210112 RP-91 RP-210167 0667 - Addition of IMS 5GS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-91 | RP-210167 | 0663 | - | Addition of IMS over 5GS test case 7.5 | В | 16.0.0 | 16.1.0 | R5s210098 |
| RP-91 RP-210167 0667 - Addition of IMS 5GS call control test case 7.11 F 16.0.0 16.1.0 R5s210136 RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-91 | RP-210167 | 0664 | 1- | Addition of IMS over 5GS test case 7.2 | F | 16.0.0 | 16.1.0 | R5s210100 |
| RP-91 RP-210167 0668 - Correction to function B 16.0.0 16.1.0 R5s210144 | RP-91 | RP-210167 | 0665 | 1- | Corrections for 5GS IMS SMS test cases | В | 16.0.0 | 16.1.0 | R5s210112 |
| | RP-91 | RP-210167 | 0667 | 1- | Addition of IMS 5GS call control test case 7.11 | F | 16.0.0 | 16.1.0 | R5s210136 |
| | RP-91 | RP-210167 | 0668 | 1- | Correction to function f_IMS_UpdateRequest_MessageHeaderTX | В | 16.0.0 | 16.1.0 | R5s210144 |

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| RP-91 | RP-210167 | 0648 | 1 | Addition of IMS 5GS SMS test case 9.3 | F | 16.0.0 | 16.1.0 | R5s210177 |
| RP-91 | RP-210167 | 0655 | 1 | Improvements and common implementation of SIP over 4G/5G procedures | F | 16.0.0 | 16.1.0 | R5s210212 |
| RP-91 | RP-210167 | 0657 | 1 | FBBA cleanup | В | 16.0.0 | 16.1.0 | R5s210228 |
| RP-91 | RP-210167 | 0658 | 1 | Addition of IMS 5GS test case 6.7 | F | 16.0.0 | 16.1.0 | R5s210247 |
| RP-91 | RP-210167 | 0671 | - | Correction to usage of TCP in DL requests in IMS lover 5GS test cases | F | 16.0.0 | 16.1.0 | R5s210268 |
| RP-91 | RP-210167 | 0672 | - | Correction to IMS test case 9.3 | В | 16.0.0 | 16.1.0 | R5s210281 |
| RP-91 | RP-210167 | 0654 | 1 | Addition of IMS over 5GS test case 6.3 | В | 16.0.0 | 16.1.0 | R5s210311 |
| RP-91 | RP-210167 | 0659 | 1 | Addition of eCall over IMS test case 21.1 | В | 16.0.0 | 16.1.0 | R5s210317 |
| RP-91 | RP-210167 | 0660 | 1 | Addition of eCall over IMS test case 21.2 | F | 16.0.0 | 16.1.0 | R5s210318 |
| RP-91 | RP-210167 | 0673 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 16.0.0 | 16.1.0 | R5s210320 |
| RP-92 | RP-211032 | 0677 | - | a=sendrecv | F | 16.1.0 | 16.2.0 | R5s210392 |
| RP-92 | RP-211032 | 0678 | - | Correction to f_IMS_MTCallSetup_NoSdpInINVITE_Step1_6 | F | 16.1.0 | 16.2.0 | R5s210393 |
| RP-92 | RP-211032 | 0680 | - | Correction for IMS common function f_IMS_MOCallSetup_NR5GC_A_4_1_Step6_7() | F | 16.1.0 | 16.2.0 | R5s210397 |
| RP-92 | RP-211032 | 0681 | - | Correction for IMS NR5GC test case 7.10 | F | 16.1.0 | 16.2.0 | R5s210413 |
| RP-92 | RP-211032 | 0682 | - | Addition of IMS over 5GS test case 7.4 | В | 16.1.0 | 16.2.0 | R5s210418 |
| RP-92 | RP-211032 | 0683 | - | Addition of IMS over 5GS test case 7.6 | В | 16.1.0 | 16.2.0 | R5s210419 |
| RP-92 | RP-211032 | 0684 | - | Addition of IMS over 5GS test case 7.7 | В | 16.1.0 | 16.2.0 | R5s210420 |
| RP-92 | RP-211032 | 0685 | - | Addition of IMS over 5GS test case 7.9 | В | 16.1.0 | 16.2.0 | R5s210421 |
| RP-92 | RP-211032 | 0686 | - | Correction to bearer activation for no preconditions MT calls | F | 16.1.0 | 16.2.0 | R5s210423 |
| RP-92 | RP-211032 | 0688 | - | Correction to IA5toGsm7Bit functions | F | 16.1.0 | 16.2.0 | R5s210441 |
| RP-92 | RP-211032 | 0689 | - | Addition of IMS 5GS call control test case 7.31 | В | 16.1.0 | 16.2.0 | R5s210450 |
| RP-92 | RP-211032 | 0692 | - | Addition of IMS 5GS call control test case 7.32 | В | 16.1.0 | 16.2.0 | R5s210467 |
| RP-92 | RP-211032 | 0693 | - | Addition of IMS 5GS call control test case 7.34 | В | 16.1.0 | 16.2.0 | R5s210469 |
| RP-92 | RP-211032 | 0697 | - | Correction for IMS 5GS call control test case 7.4 applicability | F | 16.1.0 | 16.2.0 | R5s210494 |
| RP-92 | RP-211032 | 0698 | - | Addition of IMS 5GS call control test case 7.27 | В | 16.1.0 | 16.2.0 | R5s210497 |
| RP-92 | RP-211032 | 0699 | - | Addition of IMS 5GS call control test case 7.29 | В | 16.1.0 | 16.2.0 | R5s210499 |
| RP-92 | RP-211032 | 0700 | - | Addition of IMS over 5GS test case 8.38 | В | 16.1.0 | 16.2.0 | R5s210505 |
| RP-92 | RP-211032 | 0701 | - | Addition of IMS 5GS call control test case 7.28 | В | 16.1.0 | 16.2.0 | R5s210514 |
| RP-92 | RP-211032 | 0674 | 1 | Addition of IMS over 5GS call control test case 7.1 | В | 16.1.0 | 16.2.0 | R5s210553 |
| RP-92 | RP-211032 | 0675 | 1 | Addition of IMS over 5GS call control test case 7.8 | В | 16.1.0 | 16.2.0 | R5s210554 |
| RP-92 | RP-211032 | 0676 | 1 | Addition of IMS over 5GS call control test case 7.10 | В | 16.1.0 | 16.2.0 | R5s210555 |
| RP-92 | RP-211032 | 0708 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 16.1.0 | 16.2.0 | R5s210649 |
| RP-93 | RP-211737 | 0734 | 1 | Routine maintenance for TS 34.229-3 | F | 16.2.0 | 16.3.0 | R5-216341 |
| RP-93 | RP-211736 | 0726 | - | Addition of IMS 5GS registration test case 6.2 | F | 16.2.0 | 16.3.0 | R5s210720 |
| RP-93 | RP-211736 | 0729 | - | Correction for IMS 5GS call control test cases | F | 16.2.0 | 16.3.0 | R5s210734 |
| RP-93 | RP-211736 | 0730 | - | Addition of IMS 5GS call control test case 7.26 | F | 16.2.0 | 16.3.0 | R5s210788 |

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| ing | | | | | | vers | vers | |
| RP-93 | RP-211736 | 0732 | - | Correction to IMS Emergency call over EPS testcase 19.4.1 | F | 16.2.0 | 16.3.0 | R5s210815 |
| RP-93 | RP-211736 | 0733 | - | Correction of f_IMS_CommunicationWaiting_CancelCall | F | 16.2.0 | 16.3.0 | R5s210825 |
| RP-93 | RP-211736 | 0705 | 1 | Correction of f_IMS_SDP_AudioMediaAttributes_InitialAnswer_TX | F | 16.2.0 | 16.3.0 | R5s210907 |
| RP-93 | RP-211736 | 0706 | 1 | Improved handling of preconditions in 200 OK's Require header field | F | 16.2.0 | 16.3.0 | R5s210915 |
| RP-93 | RP-211736 | 0707 | 1 | Addition of IMS 5GS supplementary services test case 8.30 | F | 16.2.0 | 16.3.0 | R5s210920 |
| RP-93 | RP-211736 | 0711 | 1 | Addition of IMS over 5GS test case 7.19 | F | 16.2.0 | 16.3.0 | R5s210934 |
| RP-93 | RP-211736 | 0713 | 1 | Correction to f_IMS_BuildSDP_InitialOfferAudio_TX | F | 16.2.0 | 16.3.0 | R5s210937 |
| RP-93 | RP-211736 | 0716 | 1 | Addition of IMS over 5GS test case 7.18 | F | 16.2.0 | 16.3.0 | R5s210940 |
| RP-93 | RP-211736 | 0717 | 1 | Addition of IMS 5GS call control test case 7.30 | F | 16.2.0 | 16.3.0 | R5s210942 |
| RP-93 | RP-211736 | 0718 | 1 | Addition of IMS over 5GS test case 8.26 | F | 16.2.0 | 16.3.0 | R5s210943 |
| RP-93 | RP-211736 | 0719 | 1 | Addition of IMS over 5GS test case 7.13 | F | 16.2.0 | 16.3.0 | R5s210944 |
| RP-93 | RP-211736 | 0722 | 1 | Addition of IMS over 5GS test case 8.28 | F | 16.2.0 | 16.3.0 | R5s210945 |
| RP-93 | RP-211736 | 0710 | 1 | Addition of IMS over 5GS test case 6.4 | F | 16.2.0 | 16.3.0 | R5s210955 |
| RP-93 | RP-211736 | 0712 | 1 | Addition of IMS over 5GS test case 7.33 | F | 16.2.0 | 16.3.0 | R5s210956 |
| RP-93 | RP-211736 | 0715 | 1 | Addition of IMS 5GS call control test case 7.25 | F | 16.2.0 | 16.3.0 | R5s210959 |
| RP-93 | RP-211736 | 0740 | - | Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A | F | 16.2.0 | 16.3.0 | R5s211176 |

History

| Document history | | |
|------------------|--------------|-------------|
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