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| INTERNATIONAL TELECOMMUNICATION UNION | **Joint Coordination Activity  On Conformance and Interoperability Testing** |
| **TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2013-2016 | **JCA-CIT-I-063**  |
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| **DOCUMENT** |
| **Source:** | Chairman of JCA-CIT |
| **Title:** | Updates to the Living list of key technologies which are suitable for conformance and/or interoperability testing |

**Living list of key technologies which are suitable for conformance and/or interoperability testing**

This document is based on the living list of key technologies which are suitable for conformance and/or interoperability testing, which was agreed at the SG11 meeting (9-16 July 2014) and contains some changes.

Annex A Updated living list of key technologies which are suitable for conformance and/or interoperability testing

Annex B Template of the proposal which has to be submitted to SG11 on Living list of key technologies which are suitable for conformance and/or interoperability testing

**Annex A**

**Living list of key technologies which are suitable for conformance and/or interoperability testing**

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[3. IMS architecture, signalling protocols, interfaces 6](#_Toc400975597)

[4. IMS Basic call 8](#_Toc400975598)

[5. IMS supplementary services 11](#_Toc400975599)

[6. IMS interconnection 22](#_Toc400975600)

[7. SIP/PSN and ISDN/PSTN interworking 23](#_Toc400975601)

[8. NGN monitoring system 25](#_Toc400975602)

[9. NGN interworking 26](#_Toc400975603)

[10. Network and equipment performance (Benchmarking) 30](#_Toc400975604)

[11. QoS/QoE and NP 32](#_Toc400975605)

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[13. Internet speed access 36](#_Toc400975607)

[14. Internet Access as perceived by user 37](#_Toc400975608)

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[16. Broadband Cable Television Networks 39](#_Toc400975610)

[17. Cable Television Terminal Devices 41](#_Toc400975611)

[18. Cable Television Quality Assessment 42](#_Toc400975612)

[19. Cloud Computing interoperability testing 43](#_Toc400975613)

# NGN functionality

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**Other SDOs involved to this activity:** ETSI

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| **ETSI requirements (NGN architecture)** | **ITU-T Requirements** |
| **—** | [Y.2201](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9879) NGN release 1 requirements |
| **—** | [Y.2012](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=10710) Functional requirements and architecture of next generation networks |
| **—** | [Q.3909 The framework and overview of NGN conformance and interoperability testing](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11437) |
| **ETSI Test suites** | **ITU-T Test suites** |
| **—** | [Q.3900 Methods of testing and model network architecture for NGN technical means testing as applied to public telecommunication networks](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=8910) |
| **—** | [Q.3901 Testing topology for networks and services based on NGN technical means](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9248) |

# Functions of a broadband network as a part of NGN

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**Other SDOs involved to this activity:** none

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| --- | --- |
| **SDOs requirements** | **ITU-T Requirements** |
| **—** | [Y.2012](http://www.itu.int/rec/T-REC-Y.2012-201004-I/en)Functional requirements and architecture of next generation networks |
| **SDOs test suites** | **ITU-T Test suites** |
| — | [Q.3906.1 Test scenarios and catalogue for testing fixed-broadband access networks using a model network - Part I](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11006) |

# IMS architecture, signalling protocols, interfaces, basic call

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**Other SDOs involved to this activity:** ETSI/3GPP

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| **ETSI Requirements** | **ITU-T Requirements** |
| ETSI TS 124 228Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Signalling flows for the IP multimedia call control based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 | **—** |
| ETSI TS 124 229Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 | **—** |
| ETSI TS 124 238Universal Mobile Telecommunications System (UMTS); LTE; Session Initiation Protocol (SIP) based user configuration; Stage 3 | **—** |
| ETSI TS 124 428Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); TISPAN; Common Basic Communication procedures; Protocol specification | **—** |
| ETSI TS 132 297Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Charging Data Record (CDR) file format and transfer | **—** |
| **—** | Recommendation ITU-T Y.2012 (2010), Functional requirements and architecture of next generation networks |
| **ETSI test suites** | **ITU-T Test suites** |
| **—** | [Q.3904 Testing principles for IMS model networks, and identification of relevant conformance, interoperability and functionality tests](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=10852) |
| ETSI TS 102 027-1; Conformance Test Specification for SIP (IETF RFC 3261); Part 1: Protocol Implementation Conformance Statement (PICS) proforma | [Q.3946.1](http://www.itu.int/rec/T-REC-Q.3946.1-201408-P) Conformance Tests Specification for the session initiation protocol - Part 1: Protocol Implementation Conformance Statement (PICS) proforma |
| — [ETSI TS 102 027-2 V4.1.1 (2006-07)](http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=19800" \t "_blank)Methods for Testing and Specification (MTS); Conformance Test Specification for SIP (IETF RFC 3261); Part 2: Test Suite Structure and Test Purposes (TSS & TP) | [Q.3946.2](http://www.itu.int/rec/T-REC-Q.3946.2-201304-I) Conformance test specification for the session initiation protocol – Part 2: Test suite structure and test purposes |

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| — [ETSI TS 102 027-3 V4.2.5 (2008-01)](http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=27294" \t "_blank)Methods for Testing and Specification (MTS); Conformance Test Specification for SIP (IETF RFC 3261); Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma | [Q.3946.3](http://www.itu.int/rec/T-REC-Q.3946.3-201408-I) Conformance Tests Specification for the session initiation protocol - Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma |
| [TS 102 790-](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=31830&curItemNr=13&totalNrItems=36&optDisplay=50&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Schmitting&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)1Title: Technical Committee for IMS Network Testing (INT);Network Integration Testing;IMS specific use of Session Initiation Protocol (SIP) and Session Description Protocol (SDP);Conformance Testing;Part 1: Protocol Implementation Conformance Statement (PICS) | Draft [Q.IMS-Confor.-Basic-Call-PICS-Rel.10 (ex Q.39yy.1)](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9607) “Basic Call - Part 1: Basic Call (PICS) for IMS Rel- 10” |
| [TS 102 790-2](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=31830&curItemNr=13&totalNrItems=36&optDisplay=50&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Schmitting&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)Technical Committee for IMS Network Testing (INT); Network Integration Testing; IMS specific use of Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Conformance Testing; Part 2: Test Suite Structure (TSS) and Test Purposes (TP) Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) | Draft [Q.IMS-Network-side-Confor.-Basic-Call-TSS&TP-Rel.10 (ex Q.39yy.2)](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9874) “Basic Call - Part 2: Network side; Test Suite Structure and Test Purposes (TSS&TP) for IMS Rel.10” |
|  | Draft [Q.IMS-User-side-Confor.-Basic-Call-TSS&TP-Rel.10 (ex Q.39yy.3)](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9606) “Basic Call - Part 3: User side; Test Suite Structure and Test Purposes (TSS&TP) for IMS Rel.10” |
| [TS 102 790-](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=31830&curItemNr=13&totalNrItems=36&optDisplay=50&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Schmitting&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)3Title: Technical Committee for IMS Network Testing (INT);Network Integration Testing;IMS specific use of Session Initiation Protocol (SIP) and Session Description Protocol (SDP);Conformance Testing;Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification |  |
| [TS 101 553-1](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=34688&curItemNr=27&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)Technical Committee for IMS Network Testing (INT); Testing of the IBCF requirements; Part 1: PICS | **—** |
| [TS 101 553-2](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=34688&curItemNr=27&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)Technical Committee for IMS Network Testing (INT); Testing of the IBCF requirements; Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| TS 101 580-1IMS Network Testing (INT);Diameter Conformance testing for Rx interface; Part 1: PICS | — |
| TS 101 580-2IMS Network Testing (INT);Diameter Conformance testing for Rx interface; Part 2: Test Suite Structure (TSS) and Test Purposes (TP) | — |
| [ETSI TS 186 011-1 V4.1.3 (2012-05)](http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=37163" \t "_blank)IMS Network Testing (INT); IMS NNI Interoperability Test Specifications; Part 1: Test purposes for IMS NNI Interoperability |  |
| [ETSI TS 186 011-2 V4.1.3 (2012-05)](http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=37162" \t "_blank)IMS Network Testing (INT); IMS NNI Interoperability Test Specifications; Part 2: Test description for IMS NNI Interoperability |  |
| [ETSI TS 186 011-3 V4.1.3 (2012-05)](http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=37159" \t "_blank)IMS Network Testing (INT); IMS NNI Interoperability Test Specifications; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) |  |
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| **ETSI Requirements** | **ITU-T Requirements** |
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| **Test suites ETSI** | **ITU-T Test suites** |
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# IMS supplementary services

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**Other SDOs involved to this activity:** ETSI/3GPP

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| **ETSI Requirements** | **ITU-T Requirements** |
| 3GPP TS 24.173: "IMS multimedia telephony communication service and supplementary services; Stage 3". | **—** |
| 3 GPP TS [24.604](http://www.3gpp.org/ftp/Specs/html-info/24508.htm)Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.605Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.606Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.607Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.608Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.610Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.611Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.615Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol Specification | **—** |
| 3 GPP TS 24.616Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.623Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services | **—** |
| 3 GPP TS 24.629Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.642Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | **—** |
| 3 GPP TS 24.647Advice Of Charge (AOC) using IP Multimedia (IM) Core Network (CN) subsystem | **—** |
| 3 GPP TS 24.654Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem, Protocol Specification | **—** |
| — |  |
| **Test suites ETSI** | **ITU-T Test suites** |
| TS 186 006-1Technical Committee for IMS Network Testing (INT); Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 1:PICS | [Q.3943.1](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11925) "Conformance tests specification for the originating identification presentation and originating identification restriction using the IP multimedia core network subsystem – Part 1: Protocol Implementation Conformance Statement (PICS)" |

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| TS 186 006-2Technical Committee for IMS Network Testing (INT); Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 2: Test Suite Structure and Test Purposes (TSS&TP) OIP/OIR TSS&TP |  |
|  | [Q.3943.2](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11926) "Conformance tests specification for the originating identification presentation and originating identification restriction using the IP multimedia core network subsystem – Part 2: Network side – Test suite structure and test purposes" |
|  | [Q.3943.3](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11927) “Conformance tests specification for the originating identification presentation and originating identification restriction using the IP multimedia core network subsystem – Part 3: User side – Test suite structure and test purposes” |
| TS 186 006-3IMS Network Testing (INT);Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification |  |
|  |  |
| TS 101 596-1IMS Network Testing (INT); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing Part 1: PICS | [Q.3942.1](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11924) Conformance test specification for the terminating identification restriction using IP multimedia core network subsystem – Part 1: Protocol implementation conformance statement |
| TS 101 596-2IMS Network Testing (INT); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
|  | DRAFT [Q.3942.2](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11924) Conformance test specification for the terminating identification restriction using IP multimedia core network subsystem – Part 2: Network side - Test Suite Structure and Test Purposes (TSS&TP) |
|  | DRAFT [Q.3942.3](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11924) Conformance test specification for the terminating identification restriction using IP multimedia core network subsystem – Part 3: User side - Test Suite Structure and Test Purposes (TSS&TP) |
| TS 186 007-1Technical Committee for IMS Network Testing (INT); Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 1: PICS | — |
| TS 186 007-2Technical Committee for IMS Network Testing (INT); Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 2: Test Suite Structure and Test Purposes (TSS&TP) Communication HOLD (CH); (TSS&TP) | — |
| TS 186 007-3IMS Network Testing (INT);Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | — |
| [TS 186 014-1](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=35171&curItemNr=26&totalNrItems=36&optDisplay=50&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Schmitting&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)Technical Committee for IMS Network Testing (INT); PSTN/ISDN simulation services; Communication Diversion (CDIV); Part 1: PICS | — |
| [TS 186 014-2](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=35171&curItemNr=26&totalNrItems=36&optDisplay=50&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Schmitting&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)Technical Committee for IMS Network Testing (INT); PSTN/ISDN simulation services; Communication Diversion (CDIV); Part 2: Test Suite Structure and Test Purposes (TSS&TP) Communication Diversion (CDIV); TSS&TP | — |
| [TS 186 014-](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=35171&curItemNr=26&totalNrItems=36&optDisplay=50&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Schmitting&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)3IMS Network Testing (INT);Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | — |
| TS 186 022-1Technical Committee for IMS Network Testing (INT); Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 1: PICS | — |
| TS 186 022-2Technical Committee for IMS Network Testing (INT); Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 2: Test Suite Structure and Test Purposes (TSS&TP) Communication Waiting (CW) Testing; TSS&TP | — |
| TS 186 022-3IMS Network Testing (INT);Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | — |
| [TS 101 597-1](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=38380&curItemNr=16&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)IMS Network Testing (INT);Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification; (3GPP Release 10); Part 1:PICS | — |
| [TS 101 597-2](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=38380&curItemNr=16&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)IMS Network Testing (INT);Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification; (3GPP Release 10); Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| [TS 186 017-1](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=38378&curItemNr=4&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)IMS Network Testing (INT); Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem; 3GPP Release 10; Conformance Test Specification; Part 1: PICS | — |
| [TS 186 017-2](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=38378&curItemNr=4&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)IMS Network Testing (INT); Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem; 3GPP Release 10; Conformance Test Specification; Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| [TS 186 017-3](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=38378&curItemNr=4&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)Technical Committee for IMS Network Testing (INT); Anonymous Communication Rejection (ACR) and Communication Barring (CB) conformance testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | — |
| TS 101 595-1IMS Network Testing (INT); Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing Part 1: PICS | — |
| TS 101 595-2IMS Network Testing (INT); Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| TS 101 588-1IMS Network Testing (INT); Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem 3GPP Release 10; Conformance Test Specification; Part 1: PICS | — |
| TS 101 588-2IMS Network Testing (INT);Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem 3GPP Release 10; Conformance Test Specification; Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| TS 102 891-1Technical Committee for IMS Network Testing (INT); Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Part 1:PICS | — |
| TS 102 891-2Technical Committee for IMS Network Testing (INT); Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Part 2: Test Suite Structure and Test Purposes (TSS&TP) Message Waiting Indication (MWI) TSS&TP | — |
| TS 102 891-3IMS Network Testing (INT);Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | — |
| TS 186 010-1Technical Committee for IMS Network Testing (INT); Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 2: Test Suite Structure and Test Purposes (TSS&TP) Conference (CONF); PICS | — |
| TS 186 010-2Technical Committee for IMS Network Testing (INT); Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 2: Test Suite Structure and Test Purposes (TSS&TP) Conference (CONF); TSS&TP | — |
| TS 186 010-3IMS Network Testing (INT);Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | — |
| TS 186 017-1IMS Network Testing (INT); Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem 3GPP Release 10; Conformance Test Specification; Part 1: PICS | — |
| TS 186 017-2IMS Network Testing (INT); Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem 3GPP Release 10; Conformance Test Specification; Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| TS 186 017-3Technical Committee for IMS Network Testing (INT); Anonymous Communication Rejection (ACR) and Communication Barring (CB) conformance testing; Part 3: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | — |
| TS 101 594-1Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification (3GPP Release 10); Part 1:PICS | — |
| TS 101 594-2Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification (3GPP Release 10); Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| — | [Q.3945 Test specifications for next generation network services on model networks - Test set 1](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11438) |
| — | [Q.3948 Service testing framework for VoIP at the user-to-network interface of next generation networks](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11360) |
| — | [Q.3949 Real-time multimedia service testing framework at the user-to-network interface of next generation networks](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11718) |
| — | Draft [Q.NGN-Net. Conf-OIP-OIR TSS&TP](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9365) "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Conformance Tests Specification, Network side, Part 2: Test Suite Structure and Test Purposes (TSS&TP)" |
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# IMS interconnection

**SGs Focal Point:**

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**Other SDOs involved to this activity:** ETSI

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| --- | --- |
| ETSI Requirements | **ITU-T Requirements** |
| ETSI TS 29.165Digital cellular telecommunications system (Phase 2+);Universal Mobile Telecommunications System (UMTS); LTE;Inter-IMS Network to Network Interface (NNI) (3GPP TS 29.165 version 11.5.0 Release 11) | [Q.3401](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=8962) NGN NNI signalling profile (protocol set 1) |
| **Test suites ETSI** | **ITU-T Test suites** |
| TS 101 585NGN/IMS interconnection tests at the Ic Interface; Part 1: TSS & TP | [Q.3940 NGN/IMS interconnection tests between network operators at the IMS 'Ic' interface and NGN NNI / SIP-I](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11717) |

# SIP/PSN and ISDN/PSTN interworking

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**Other SDOs involved to this activity:** ETSI

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| **ETSI Requirements** | **ITU-T Requirements** |
| **—** | **—** |
| **ETSI Test suites** | **ITU-T Test suites** |
| ETSI TR 101 667 (1999)Methods for Testing and Specification (MTS); Network Integration Testing (NIT); Interconnection; Reasons and goals for a global service testing approach | **—** |
| ETSI TS 186 001-1 for Rel. 7Network Integration Testing between SIP and ISDN/PSTN network signalling protocols; Part 1: Test Suite Structure and Test Purposes (TSS&TP) for SIP-ISDN NIT based on 3GPP Rel. 10 - Part 1: TSS&TPNetwork Integration Testing between SIP and ISDN/PSTN NIT SIP-ISDN | [Q.3941.1 Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 1: Test suite structure and test purposes for SIP-ISDN](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11356) |
| ETSI TS 186 001-2 for Rel. 7Title: Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);Network Integration Testing between SIP and ISDN/PSTN network signalling protocols; Part 2: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | [Q.3941.2 Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 2: Abstract test suite and partial protocol implementation extra information for testing proforma specification for SIP-ISDN](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11357) |
| ETSI TS 186 001-3 for Rel. 7Title: Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Network Integration Testing between SIP and ISDN/PSTN network signalling protocols; Part 3: Test Suite Structure and Test Purposes (TSS&TP) for SIP-SIP | [Q.3941.3 Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 3: Test suite structure and test purposes for SIP-SIP](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11358) |
| ETSI TS 186 001-4 for Rel. 7Title: IMS Network Testing (INT);Network Integration Testing; Part 4: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification | [Q.3941.4 Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 4: Abstract test suite and partial protocol implementation extra information for testing proforma specification for SIP-SIP](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11359) |

# NGN monitoring system

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**Other SDOs involved to this activity:** none

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| **SDOs Requirements** | **ITU-T Requirements** |
| — | [Q.3902 Operational parameters to be monitored when implementing NGN technical means in public telecommunication networks](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9249) |
| — | [Q.3910 Parameters for monitoring NGN protocols](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=10853) |
| — | [Q.3911 Parameters for monitoring voice services in NGN](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=10854) |
| — | [Q.3912 Set of parameters for monitoring next generation network streaming services](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11715) |
| **ETSI Test suites** | **ITU-T Test suites** |
| — | — |

# NGN interworking

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**Other SDOs involved to this activity:** ETSI, 3GPP

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| --- | --- |
| **ETSI/3GPP requirements** | **ITU-T Requirements** |
| ETSI TS 1[29.162](http://www.3gpp.org/ftp/Specs/html-info/29162.htm)/3GPP TS [29.162](http://www.3gpp.org/ftp/Specs/html-info/29162.htm)Interworking between the IM CN subsystem and IP networks | — |
| ETSI TS 1[29.163](http://www.3gpp.org/ftp/Specs/html-info/29163.htm)/3GPP 29 163Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks | — |
| ETSI TS 1[29.164](http://www.3gpp.org/ftp/Specs/html-info/29163.htm)/3GPP 29 164Interworking between the 3GPP CS domain with BICC or ISUP as signalling protocol and external SIP-I networks | — |
| ETSI TS 1[29.165](http://www.3gpp.org/ftp/Specs/html-info/29163.htm)/3GPP 29 165Inter-IMS Network to Network Interface (NNI) | — |
| **—** | [Q.1912.5](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=6999)Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control protocol or ISDN User Part |
| **—** | [Q.3401](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=8962) NGN NNI signalling profile (protocol set 1) |
| **—** | [Q.3402](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9344) NGN UNI signalling profile (protocol set 1) |
| **ETSI Test suites** | **ITU-T Test suites** |
| ETSI TS 186 002-1Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN User Part (ISUP);Part 1: Protocol Implementation Conformance Statement (PICS) | [Q.1912.5 B](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9556) “Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Protocol implementation conformance statement (PICS)” |
| ETSI TS 186 002-2Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN);Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN User Part (ISUP);Part 2: Test Suite Structure and Test Purposes (TSS&TP) for Profile A and B | [Q.1912.5 C](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9557) “Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Test suite structure and test purposes (TSS&TP) for profiles A and B” |
| ETSI TS 186 002-3Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN);Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN User Part (ISUP);Part 3: Test Suite Structure and Test Purposes (TSS&TP) for Profile C | [Q.1912.5 D](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9558) “Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Test suite structure and test purposes (TSS&TP) for profile C” |
| ETSI TS 186 002-4Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN);Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN User Part (ISUP);Part 4: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) for Profiles A and B | [Q.1912.5 E](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=9559) “Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) for profiles A and B” |
| ETSI TS 186 002-5Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol (BICC) or ISDN UserPart (ISUP);Part 5: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) for Profile C | [Q.1912.5 F](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11090) “Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) for profile C” |
| [TS 102 710-1](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=38937&curItemNr=29&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)IMS Network Testing (INT); Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (Release 8); Part 1: PICS | — |
| [TS 102 710-2](http://webapp.etsi.org/WorkProgram/Report_WorkItem.asp?WKI_ID=38937&curItemNr=29&totalNrItems=29&optDisplay=29&titleType=all&qSORT=HIGHVERSION&qETSI_ALL=&SearchPage=TRUE&qETSI_STANDARD_TYPE=%27TS%27&qTB_ID=715%3BINT&qINCLUDE_SUB_TB=True&qRAPTR_NAME=Ott&qINCLUDE_MOVED_ON=&qSTOP_FLG=N&qKEYWORD_BOOLEAN=OR&qSTOPPING_OUTDATED=&butExpertSearch=Search&includeNonActiveTB=FALSE&includeSubProjectCode=FALSE&qREPORT_TYPE=SUMMARY)IMS Network Testing (INT); Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (Release 8); Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |
| TS 101 572-2IMS Network Testing (INT); Interworking between SIP-I based circuit-switched core network and other networks Part 2: TSS&TP Conformance tests according to 3GPP 29.235; Part 2: TSS&TP | — |
| TS 102 709-2Technical Committee for IMS Network Testing (INT);Interworking between the 3GPP Cs domain with BICC or ISUP as signalling protocol and external SIP-I networks;Part 2: Test Suite Structure and Test Purposes (TSS&TP) | — |

# Network and equipment performance (Benchmarking)

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**Other SDOs involved to this activity:** ETSI (INT; STQ; MTS)

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| **ETSI Requirements** | **ITU-T Requirements** |
|  |  |
| **ETSI TR 101 577**Methods for Testing and Specifications (MTS);Performance Testing of Distributed Systems; Concepts and Terminology | [Q.3930 Performance testing of distributed systems - Concepts and terminology](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11716) |
| **ETSI Test suites** | **ITU-T Test suites** |
| **TS 186 025-1**IMS/PES Performance Benchmark; Part 1: Core concept | [Q.3931.1 Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system - Part 1: Core concepts](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11091) |
| **TS 186 025-2**IMS/PES Performance BenchmarkPart 2: Subsystem Configurations and Benchmarks | [Q.3931.2 Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system - Part 2: Subsystem configurations and benchmarks](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11092) |
| **TS 186 025-3**IMS/PES Performance Benchmark Part 3: Traffic Sets and Traffic Profiles | [Q.3931.3](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=12220) Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system Part 3: Traffic Sets and Traffic Profiles |
| **186 025- 4**IMS/PES Performance Benchmark;Part 4: Reference Load network quality parameters | Draft [Q.3931.4](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9347) Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system; Part 4: Subsystem Reference Load network quality parameters |
| **186 008- 1**IMS/NGN Performance Benchmark; Part 1: Core concept | Draft [Q.3932.1](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9330) "IMS/NGN Performance Benchmark; Part 1: Core concepts" |
| **186 008- 2**IMS/NGN Performance BenchmarkPart 2: Subsystem Configurations and Benchmarks | Draft [Q.3932.2](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9331) "IMS/NGN Performance Benchmark; Part 2: Subsystem Configurations and Benchmarks" |
| **186 008-3**IMS/NGN Performance Benchmark Part 3: Traffic Sets and Traffic Profiles | Draft [Q.3932.3](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9332) IMS/NGN Performance Benchmark Part 3: Traffic Sets and Traffic Profiles |
| **186 008-4**IMS/NGN Performance Benchmark;Part 4: Reference Load network quality parameters | Draft  [Q.3932.4](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9786) "IMS/NGN Performance Benchmark; Part 4: Subsystem Reference Load network quality parameters" |

# QoS/QoE and NP

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**Other SDOs involved to this activity:** ITU-T SG12, ETSI

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| --- | --- |
| **ETSI Requirements** | **ITU-T Requirements** |
| **—** | [Q.3925 Traffic flow types for testing quality of service parameters on model networks](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11572) |
| **—** | [Y.1542](http://www.itu.int/rec/T-REC-Y.1542/en) Framework for achieving end-to-end IP performance objectives |
| **—** | [Y.1543](http://www.itu.int/rec/T-REC-Y.1543/en) Measurements in IP networks for inter-domain performance assessment |
| **ETSI TR 102 775**Speech and multimedia Transmission Quality (STQ); Guidance on objectives for Quality related Parameters at VoIP Segment-Connection Points;A support to NGN transmission planners**ETSI TS 101 563**IMS/PES exchange performance requirements | [Y.1541](http://www.itu.int/rec/T-REC-Y.1541/en) Network performance objectives for IP-based services |
| **TS 102 928 (draft)**End-to-End Transmission Planning Requirements for Real Time Services in an NGN context | — |
| **—** | [Q.MSPQuality](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9372) "The signaling protocol of the quality of service monitoring system for controlling and data exchanging" |
| **—** | [Q.NP-req](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9780) "Requirements for network performance and quality measurements services (network probes)" |
| **ETSI test suites** | **ITU-T Test suites** |
| — | The draft [Q.QMS](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9603) “The Framework of the QoS/QoE Monitoring system” |
| ETSI TR 101 577Methods for Testing and Specifications (MTS);Performance Testing of Distributed Systems;Concepts and Terminology | [Q.3930: Performance testing of distributed systems - Concepts and terminology](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11716) |
| ETSI TS 186 025-1Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);IMS/PES Performance Benchmark;Part 1: Core Concepts | [Q.3931.1: Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system - Part 1: Core concepts](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11091) |
| ETSI TS 186 025-2Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);IMS/PES Performance Benchmark;Part 2: Subsystem Configurations and Benchmarking | [Q.3931.2: Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system - Part 2: Subsystem configurations and benchmarks](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11092) |
| ETSI TS 186 025-3IMS Network Testing (INT);IMS/PES Performance Benchmark;Part 3: Traffic Sets and Traffic Profiles | - |
| ETSI TS 186 025-4Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN);IMS/PES Performance Benchmark;Part 4: Reference Load network quality parameter | - |
| ETSI TS 186 008-1Title: IMS Network Testing (INT);IMS/NGN Performance Benchmark;Part 1: Core Concepts | - |
| ETSI TS 186 008-2Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);IMS/NGN Performance Benchmark Part 2: Subsystem Configurations and Benchmarks | - |
| ETSI TS 186 008-3Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);IMS/NGN Performance Benchmark Part 3: Traffic Sets and Traffic Profiles | - |

# RFID

**SGs Focal Point:**

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**Other SDOs involved to this activity:** JCA-IoT

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| **SDOs Requirements** | **ITU-T Requirements** |
| — | — |
| **SDOs Test suites** | **ITU-T Test suites** |
| — | [Q.3950 Testing and model network architecture for tag-based identification systems and functions](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11439) |

# Internet speed access

**SGs Focal Point:**

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**Other SDOs involved to this activity:** None

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| --- | --- |
| **SDOs Requirements** | **ITU-T Requirements** |
| **ETSI EG 202 057-4 V1.2.1 (2008-07)**Speech Processing, Transmission and Quality Aspects (STQ); User related QoS parameter definitions and measurements; Part 4: Internet access | [G.1000](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=5597) Communications Quality of Service: A framework and definitions |
| **SDOs Test suites** | **ITU-T Test suites** |
| — | [Q.Int\_speed\_test](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9972) “Unified methodology of Internet speed quality measurement usable by end-users on the fixed and mobile network” |

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# Network management

**SGs Focal Point:**

SG2

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**Other SDOs involved to this activity:** TM Forum

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| **TMF Requirements** | **ITU-T Requirements** |
| TMF513TMF608TMF814 | M.3170.0M.3170.1M.3170.2M.3170.3 |
| **SDOs Test suites** | **ITU-T Test suites** |
| — | None. (may not be needed, X.781 provided the generic ICS proformas for CORBA based systems.) |

# Broadband Cable Television Networks

**SGs Focal Point:**

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**Other SDOs involved to this activity:** Japan Cable Laboratories, CableLabs, National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China

| **SDOs Requirements** | **ITU-T Requirements** |
| --- | --- |
| Requirements of:* Japan Cable Laboratories
* CableLabs
* National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China
 |  |
| **SDOs Test suites** | **ITU-T Test suites** |
| Test specifications of:* Japan Cable Laboratories
* CableLabs
* National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China
 | — |

# Cable Television Terminal Devices

**SGs Focal Point:**

SG9

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**Other SDOs involved to this activity:** Japan Cable Laboratories, CableLabs, National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China

| **SDOs Requirements** | **ITU-T Requirements** |
| --- | --- |
| Requirements of:* Japan Cable Laboratories
* CableLabs
* National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China
 |  |
| **SDOs Test suites** | **ITU-T Test suites** |
| Test specifications of:* Japan Cable Laboratories
* JLabs Test specifications for SPEC-023 (ITU-T J.296) compliant set-top box
* CableLabs
* National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China
 | — |

# Cable Television Quality Assessment

**SGs Focal Point:**

SG9

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**Other SDOs involved to this activity:** Japan Cable Laboratories, CableLabs, National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China

| **SDOs Requirements** | **ITU-T Requirements** |
| --- | --- |
| Requirements of:* Japan Cable Laboratories
* CableLabs
* National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China
 | J.144J.242J.244J.246J.247J.248J.249J.340J.341J.342P.931 |
| **SDOs Test suites** | **ITU-T Test suites** |
| Test specifications of:* Japan Cable Laboratories
* CableLabs
* National Technical Committee 239 on Radio, Film and Television of Standardization Administration of China
 | — |

# Cloud Computing interoperability testing

**SGs Focal Point:**

SG11 (Q14/11)

Hideo Himeno, NEC Corporation (Japan), h-himeno@bc.jp.nec.com

HE Xiaowu, China Telecom (P.R.China), hexw@gsta.com

**Other SDOs involved to this activity:**

None

| **SDOs Requirements** | **ITU-T Requirements** |
| --- | --- |
| — | — |
| **SDOs Test suites** | **ITU-T Test suites** |
| — | Q.FW-Cloud-iop |

**Annex B**

**Template of the proposal which has to be submitted to SG11 on**

**Living list of key technologies which are suitable for conformance and/or interoperability testing**

**Title of technology**

*This title should specify the technology which is demanded by ICT market as a good candidate for C&I testing. This title may cover different ITU-T Recommendations which are under ITU-T SGs responsibilities. The list of ITU-T Recommendations should be based at least on the ITU-T requirements and relevant ITU-T testing specifications (test suites). The relevant SDOs standards as well as test suites might also be specified.*

**SGs Focal Point**

*Please, indicate the SG’s responsible experts (at least name and E-mail)*

**Other SDOs involved to this activity**

*Please, specify other SDOs which are involved in the same activities*

|  |  |
| --- | --- |
| **SDO requirements** | **ITU-T Requirements** |
| *Please specify the SDO standards with requirements which conform with the ITU-T requirements shown in the right column.**If SDO standard doesn’t align with any ITU-T Recommendations (requirements) shown in the right column, please, create the new row with the empty cell in the right column.* | *Please specify the ITU-T recommendation which describes the requirements to the designated technology* |
| **SDO Test suites** | **ITU-T Test suites** |
| *Please specify the SDO test suite which is relevant to the ITU-T test suite shown in the right column.**If SDO test suite doesn’t align with any ITU-T Recommendations (test suites) shown in the right column, please, create the new row with the empty cell in the right column.* | *Please specify ITU-T test suite which can be used for testing against above ITU-T recommendations* |

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