INTERNATIONAL TELECOMMUNICATION UNION

TELECOMMUNICATION STANDARDIZATION SECTOR

STUDY PERIOD 2013-2016

STUDY GROUP 11

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Title: Living list of key technologies which are under study in SG11 and are suitable for conformance and/or interoperability testing

Living list of key technologies which are under study in SG11 and are suitable for conformance and/or interoperability testing

The SG11 was appointed in WTSA-12 as a lead group on testing in this study period (Resolution 76 of WTSA-12 resolves that "ITU-T Study Group 11 coordinates the sector's activities related to the ITU C&I programme across all study groups and reviews the recommendations in the Conformance and Interoperability Business Plan for the long term implementation of the C&I programme").

In agreement with the WTSA-12 decisions (Resolution 76 and 7) and C&I Action plan agreed by Council-12 (C12/48), SG11 established its own Action plan (C-40/SG11). The scope of the SG11 Action plan is to assist ITU-T SGs in their work concerning the development of ITU C&I Programme within their responsibilities and is aimed at helping developing countries in the implementation of their C&I plans in the regions.

The Annex A of the SG11 C&I Action plan (C-40/SG11) is directed to find out the new key technologies suitable for conformance and interoperability testing which will help to confirm the leadership position of ITU in the relevant fields.

In this regard WP4/11 recommends to all SG11 questions to study and provide comments to the draft living list of technologies under study in SG11 and suitable for C&I testing. Also, WP4/11 requests **all Rapporteurs of SG11** to provide to Q11/11 session on 28 February 2013 the proposals in the area of their study.

The final version of living list will be included to WP4/11 report and will be made available in the ITU C&I Portal as well as the SG11 C&I Action Plan (C-40/SG11) for the benefit of the membership and of developing countries.

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Annex A to the SG11 Action Plan document (C-40/SG11)
Living list of key technologies which are under study in SG11 and are suitable for conformance and/or interoperability testing

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
1.	**Network and equipment performance (Benchmarking)**	Martin Brand Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at Michael Mild Rapporteur of Q10/11 (Sweden) michael.mild@softwell.se	ETSI (INT; STQ; MTS)	**ETSI Requirements (draft):**	**Requirements (draft):**
				Only first draft available 'DTR/STQ-207'	Draft Q.39zz-1 "Reference load profiles and background traffic load"
				ETSI Test suites (in force):	**Test suites (in force):**
				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
				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
				TS 186 025-2 IMS/PES Performance Benchmark Part 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
				TS 186 025-3 IMS/PES Performance Benchmark Part 3: Traffic Sets and Traffic Profiles	**The Draft Q.3931.3** Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system Part 3: Traffic Sets and Traffic Profiles

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				186 025- 4 IMS/PES Performance Benchmark; Part 4: Reference Load network quality parameters	**The Draft 186 025.4** Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system; Part 4: Reference Load network quality parameters
				ETSI Test suites (in force)	**Test suites (draft)**
				186 008- 1 IMS/NGN Performance Benchmark; Part 1: Core concept	The draft Q.3932.1 "IMS/NGN Performance Benchmark; Part 1: Core concept"
				186 008- 2 IMS/NGN Performance Benchmark Part 2: Subsystem Configurations and Benchmarks	The draft Q.3932.2 "IMS/NGN Performance Benchmark; Part 2: Subsystem Configurations and Benchmarks"
				186 008- 3 IMS/NGN Performance Benchmark Part 3: Traffic Sets and Traffic Profiles	The draft Q.3931.4 "IMS/PES Performance Benchmark; Part 4: Reference Load network quality parameters"

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				186 008- 4 IMS/NGN Performance Benchmark; Part 4: Reference Load network quality parameters	The draft Q.3931.3 IMS/PES Performance Benchmark Part 3: Traffic Sets and Traffic Profiles
2.	**QoS/QoE and NP**	Martin Brand Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at Eva Ibarrola (Spain) eva.ibarrola@ehu.es Minrui Shi (China) shimr@sttri.com.cn Andrey Koucheryavy (Russia) akouch@mail.ru	ITU-T SG12 ETSI	**ETSI requirements (in force)**	**Requirements (in force)**
				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	Q.3925 Traffic flow types for testing quality of service parameters on model networks Y.1541 Network performance objectives for IP-based services Y.1542 Framework for achieving end-to-end IP performance objectives Y.1543 Measurements in IP networks for inter-domain performance assessment
				ETSI requirements (draft)	**Requirements (draft)**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
		Dmitry Tarasov (Russia) tarasov@zniis.ru		**TS 102 928** End-to-End Transmission Planning Requirements for Real Time Services in an NGN context	Q.QMS "The Framework of the QoS/QoE Monitoring system" Q.MSPQuality "The signaling protocol of the quality of service monitoring system for controlling and data exchanging" Q.NP-req "Requirements for network performance and quality measurements services (network probes)"
				ETSI test suites	**Test suites**
				—	—
3.	**NGN functionality**	Andrey Koucheryavy (Russia)	ETSI	**ETSI requirements (NGN architecture)**	**Requirements (in force)**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
		akouch@mail.ru Dmitry Tarasov (Russia) tarasov@zniis.ru Martin Brand Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at		**FFS**	Y.2001 General overview of NGN Y.2011 General principles and general reference model for Next Generation Networks Y.2201 NGN release 1 requirements Y.2012 Functional requirements and architecture of next generation networks Y.2014 Network attachment control functions in next generation networks Y.2021 IMS for Next Generation Networks Y.2111 Resource and admission control functions in next generation networks Y.2211 IMS-based real-time conversational multimedia services over NGN

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				ETSI Test suites (in force)	**Test suites (in force)**
				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 102 237-1 (2003),** Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON) Release 4; Interoperability test methods and approaches; Part 1: Generic approach to interoperability testing **ETSI TS 102 237-2 V4.1.1 (2003),** Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON) Release 4; Interoperability test methods and approaches; Part 2: H.323-SIP interoperability test scenarios to support multimedia communications in NGN environments	Q.3900 Methods of testing and model network architecture for NGN technical means testing as applied to public telecommunication networks Q.3901 Testing topology for networks and services based on NGN technical means Q.3903 Formalized presentation of testing results Q.3909 The framework and overview of NGN conformance and interoperability testing
4.	**Functions of broadband**	Dmitry Tarasov		**SDOs requirements**	**Requirements (in force)**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
	network as a part of NGN	(Russia) tarasov@zniis.ru		—	Y.2012 Functional requirements and architecture of next generation networks
				SDOs test suites	**Test suites (in force)**
				—	Q.3906.1 Test scenarios and catalogue for testing fixed-broadband access networks using a model network - Part I
				SDOs Test suites: —	**Test suites (in force):** Q.3904: Testing principles for IMS model networks, and identification of relevant conformance, interoperability and functionality tests
5.	**IMS**	Martin Brand	ETSI/3GPP	**Requirements (in force)**	**Requirements (in force)**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
		Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at Dmitry Tarasov (Russia) tarasov@zniis.ru		**ETSI TS 124 228** Digital 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 124 229** Digital 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 124 238** Universal Mobile Telecommunications System (UMTS); LTE; Session Initiation Protocol (SIP) based user configuration; Stage 3 **ETSI TS 124 428** Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); TISPAN; Common Basic Communication procedures; Protocol specification ETSI TS 132 297 Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications	Recommendation ITU-T Y.2012 (2010), Functional requirements and architecture of next generation networks

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				System (UMTS); LTE; Telecommunication management; Charging management; Charging Data Record (CDR) file format and transfer **ETSI TS 124 072 /3GPP TS 24.072** Call Deflection (CD) supplementary service; Stage 3 **ETSI TS 124 080 / 3GPP TS 24.080** Mobile radio interface layer 3 supplementary services specification; Formats and coding **ETSI TS 124 081/ 3GPP TS 24.081** Line Identification supplementary services; Stage 3 **ETSI TS 124 082 / 3GPP TS 24.082** Call Forwarding (CF) supplementary services; Stage 3 **ETSI TS 124 083 / 3GPP TS 24.083** Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 3 **ETSI TS 124 084 / 3GPP TS 24.084** Multi Party (MPTY) supplementary service; Stage 3 **ETSI TS 124 085 / 3GPP TS 24.085** Closed User Group (CUG) supplementary service; Stage 3	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				ETSI TS 124 086 / 3GPP TS 24.086 Advice of Charge (AoC) supplementary services; Stage 3 **ETSI TS 124 087 / 3GPP TS 24.087** User-to-User Signalling (UUS) Supplementary Service; Stage 3 **ETSI TS 124 088 / 3GPP TS 24.088** Call Barring (CB) supplementary service; Stage 3 **ETSI TS 124 091 / 3GPP TS 24.091** Explicit Call Transfer (ECT) supplementary service; Stage 3 **ETSI TS 124 082 / 3GPP TS 24.082** Completion of Calls to Busy Subscriber (CCBS); Stage 3 *The complete list of services is available at http://www.3gpp.org/ftp/Specs/html-info/24-series.htm*	
				SDOs Test suites	**Test suites (in force)**
				—	Q.3904: Testing principles for IMS model networks, and identification of relevant conformance, interoperability and functionality tests

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
6.	**IMS interconnection**		ETSI	**ETSI requirements (in force)**	**Requirements (in force)**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				ETSI TS 29.165 Digital 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) **ETSI TS 129.163** Digital cellular telecommunications system (Phase 2+);Universal Mobile Telecommunications System (UMTS);LTE;Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 11.5.0 Release 11) **ETSI TS 129.235** Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS);LTE; Interworking between SIP-I based circuit-switched core network and other networks (3GPP TS 29.235 version 8.1.0 Release 8) **ETSI TS 129.164** Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS);LTE; Interworking between the 3GPP Cs domain with BICC or ISUP as signalling protocol and external SIP-I networks (3GPP TS 29.164 version 8.0.0 Release 8)	**Q.1912.5** Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control protocol or ISDN User Part

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				Test suites (in force)	**Test suites (in force)**
				TS 101 585 NGN/IMS interconnection tests at the Ic Interface; Part 1: TSS & TP; **ETSI TS 186 001-1 for Rel. 7** Network 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&TP Network Integration Testing between SIP and ISDN/PSTN NIT SIP-ISDN **ETSI TS 186 001-2 for Rel. 7** Title: 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 **ETSI TS 186 001-3 for Rel. 7** Title: Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN);Network Integration Testing between SIP and ISDN/PSTN network signalling	Q.3940 NGN/IMS interconnection tests between network operators at the IMS 'Ic' interface and NGN NNI / SIP-I 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 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 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 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

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				protocols;Part 3: Test Suite Structure and Test Purposes (TSS&TP) for SIP-SIP\ **ETSI TS 186 001-4 for Rel. 7** Title: IMS Network Testing (INT);Network Integration Testing;Part 4: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification	
7.	**NGN monitoring system**			**SDOs Requirements**	**Requirements (in force)**
				—	Q.3902 Operational parameters to be monitored when implementing NGN technical means in public telecommunication networks Q.3910 Parameters for monitoring NGN protocols Q.3911 Parameters for monitoring voice services in NGN Q.3912 Set of parameters for monitoring next generation network streaming services
				SDOs Test suites	**Test suites**
				—	—
8.	**IMS services**	Martin Brand Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at Gerhard Ott	ETSI	**ETSI requirements**	**Requirements**
				—	—
				ETSI Test suites (in force)	**Test suites (draft)**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
		(Germany) gerhard.ott@telekom.de		**TS 186 006-1** Technical 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 **TS 186 006-2** Technical 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 **TS 101 596-1** IMS 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 **TS 101 596-2** IMS Network Testing (INT); Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing Part 2:	Q.3943.1 "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance test specification; Part 1: Protocol Implementation Conformance Statement (PICS)" Q.3943.2 "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Tests Specification, Network side, Part 2: Test Suite Structure and Test Purposes (TSS&TP)" Q.3943.4 "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Tests Specification; User side Part 4: Test Suite Structure and Test Purposes (TSS&TP) Q.3942.1 "Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification;" Part 1: Protocol Implementation Conformance Statement (PICS)"

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				Test Suite Structure and Test Purposes (TSS&TP) **TS 102 790-2** 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) **TS 101 553-1** Technical Committee for IMS Network Testing (INT); Testing of the IBCF requirements; Part 1: PICS **TS 101 553-2** Technical Committee for IMS Network Testing (INT); Testing of the IBCF requirements; Part 2: Test Suite Structure and Test Purposes (TSS&TP) **TS 102 710-1** 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**	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				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 101 572-2** IMS 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 186 007-1** Technical Committee for IMS Network Testing (INT); Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 1: PICS **TS 186 007-2** Technical 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 186 014-1** Technical Committee for IMS Network Testing (INT); PSTN/ISDN simulation	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				services; Communication Diversion (CDIV); Part 1: PICS **TS 186 014-2** 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 186 022-1** Technical Committee for IMS Network Testing (INT); Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing; Part 1: PICS **TS 186 022-2** Technical 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 101 597-1** 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	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				TS 101 597-2 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** 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** 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 101 595-1** IMS Network Testing (INT); Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing Part 1: PICS **TS 101 595-2** IMS Network Testing (INT); Malicious Communication Identification (MCID) using	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				IP Multimedia (IM) Core Network (CN) subsystem; Conformance Testing Part 2: Test Suite Structure and Test Purposes (TSS&TP) **TS 101 588-1** IMS 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 101 588-2** IMS 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 102 891-1** Technical Committee for IMS Network Testing (INT); Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Part 1:PICS **TS 102 891-2** Technical Committee for IMS Network Testing (INT); Message Waiting Indication (MWI) using IP Multimedia (IM) Core	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				Network (CN) subsystem; Part 2: Test Suite Structure and Test Purposes (TSS&TP) Message Waiting Indication (MWI) TSS&TP **TS 186 010-1** Technical 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 186 010-2** Technical 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 186 017- 1** 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** IMS Network Testing (INT); Anonymous	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				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 101 594-1** Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Conformance Test Specification (3GPP Release 10); Part 1:PICS **TS 101 594-2** Explicit 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) **TS 101 580-1** IMS Network Testing (INT);Diameter Conformance testing for Rx interface; Part 1: PICS **TS 101 580-2** IMS Network Testing (INT);Diameter Conformance testing for Rx interface; Part 2: Test Suite Structure (TSS) and Test Purposes (TP)	

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				TS 102 709-2 Technical 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)	
9.	**NGN Requirements**		ETSI	**SDOs Requirements**	**Requirements (in force)**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				—	Q.1912.5 Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control protocol or ISDN User Part Q.3401 NGN NNI signalling profile Q.3402 NGN UNI signalling profile
					Requirements (draft)
					Draft Q.OIP/OIR Draft Q.TIP/TIR
10.	**NGN tests**	Martin Brand Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at Gerhard Ott (Germany) gerhard.ott@telekom.de Dmitry Tarasov	ETSI	**Test suites (in force)**	**Test suites (in force)**
				ETSI TS 102 027-1 Draft IETF SIP RFC3261; Part 1: Test Suite Structure and Test Purposes (TSS&TP) specification **ETSI TS 186 002-1** Telecommunications and Internet converged	Q.3945 Test specifications for next generation network services on model networks - Test set 1 Q.3948 Service testing framework for VoIP at the user-to-network interface of next generation networks

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
		(Russia) tarasov@zniis.ru		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) **ETSI TS 186 002-2** Telecommunications 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 **ETSI TS 186 002-3** Telecommunications 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 **ETSI TS 186 002-4** Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN);Interworking between Session Initiation Protocol (SIP) and Bearer	Q.3949 Real-time multimedia service testing framework at the user-to-network interface of next generation networks **Test suites (draft)** Q.NGN Net. Conf-OIP-OIR TSS&TP "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Conformance Tests Specification, Network side, Part 2: Test Suite Structure and Test Purposes (TSS&TP)" **Q.39xx-1** IETF SIP RFC3261 Conformance Tests Specification; Part1: Test Suite Structure and Test Purposes (TSS&TP)" Q.NGN Net. Conf-OIP-OIR TSS&TP "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Conformance Tests Specification, Network side, Part 2: Test Suite Structure and Test Purposes (TSS&TP)" **Q.39xx-1** IETF SIP RFC3261 Conformance Tests Specification; Part1: Test Suite Structure and Test Purposes (TSS&TP)" **Q.1912.5 B**

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
				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 **ETSI TS 186 002-5** Telecommunications 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	Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Protocol implementation conformance statement (PICS) **Q.1912.5 C** 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 D** 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 E** Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) for Profiles A and B
				ETSI Test suites (draft)	**Q.1912.5 F** Interworking between Session Initiation

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				ETSI TS 102 027-1 Draft IETF SIP RFC3261; Part 1: Test Suite Structure and Test Purposes (TSS&TP) specification	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 B** Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Protocol implementation conformance statement (PICS) **Q.1912.5 C** 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 D** 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 E** Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) for Profiles A and B **Q.1912.5 F** 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

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
11.	**RFID**	Yong-Woon KIM (Korea) qkim@etri.re.kr	JCA-IoT	**SDOs Requirements**	**Requirements**
				—	—
				SDOs Test suites	**Test suites (in force)**
				—	Q.3950 Testing and model network architecture for tag-based identification systems and functions
12.	**Internet speed access**	Andrey Koucheryavy (Russia) akouch@mail.ru Dmitry Tarasov (Russia) tarasov@zniis.ru Victor Shalaginov (Russia) shalaginov@zniis.ru		**SDOs Requirements**	**Requirements**
				—	—
				SDOs Test suites	**Test suites (draft)**
				—	Draft Q.InSpMs "The Framework and protocol requirements for testing of Internet speed access and speed on interconnection among carriers networks"

#	Title of technologies have to be tested on C&I	SG's Focal point	Other SDOs involved to this activity	References to SDOs docs	References to ITU-T Recs.
13.	**Internet Access as perceived by user**	Eva Ibarrola (Spain) eva.ibarrola@ehu.es Armando Ferro (Spain) armando.ferro@ehu.es Jose Luis Jodra (Spain) Joseluis.jodra@ehu.es Eduardo Saiz (Spain) (Spain) eduardo.saiz@ehu.es	ETSI, ITU-T (SG12)	**ETSI Requirements (in force)**	**ITU Requirements (in force)**
				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 Communications Quality of Service: A framework and definitions
				SDOs Test suites	**ITU Test suites**
				—	—