ASIA-PACIFIC TELECOMMUNITY

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Document:
C&I-2/ INP-11

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ITU Conformity & Interoperability Programme

Pillar 1 & 2 Updates

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ITU Conformity & Interoperability Programme

Pillar 1 & 2 Updates

C&I basic terms

- Conformity assessment (CA): *the process used to demonstrate that a product, service or system conform to specified requirements.* – ISO/IEC 17000
  - 1st party CA – manufactures' self-declaration of conformity
  - 2nd party CA - by user, e.g. purchaser, importer, retailer…
  - 3rd party CA – ISO/IEC 17025, 17065, etc
- Interoperability: *the ability of two or more systems or applications to exchange information and to mutually use the information that has been exchanged*. - Rec. ITU-T Y.101
- conformance increases the probability of interoperability, but CAN NOT guarantee

ITU C&I Programme in 4 "Pillars"

- **The Standardization Sector side**

  ❖ Pillar 1: Conformity Assessment

  ❖ Pillar 2: Interoperability Events

- **The Development Sector side**

  ❖ Pillar 3: Capacity building

  ❖ Pillar 4: Establishment of test centres in developing countries
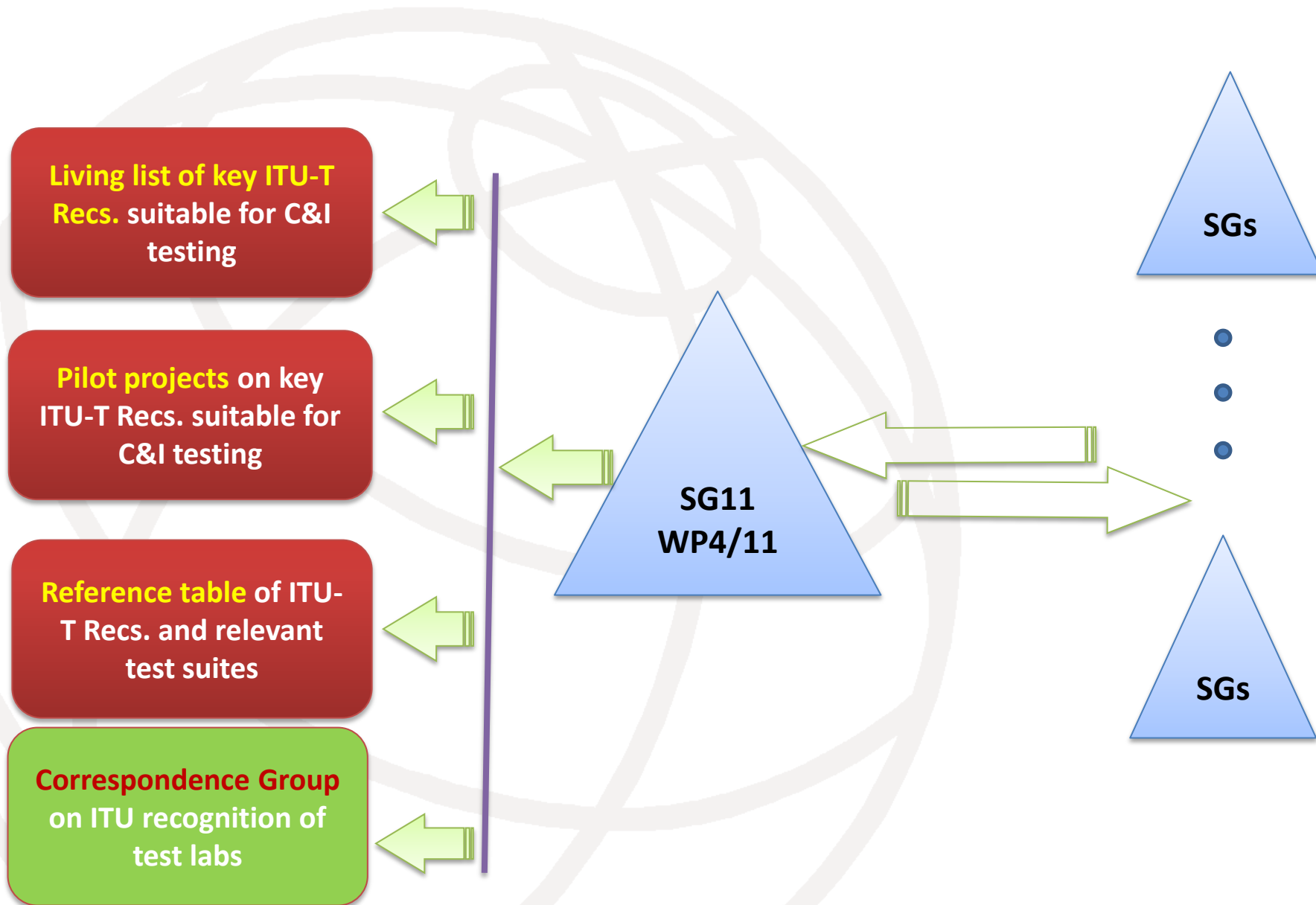
Pillar 1

Conformity Assessment

Pillar 1 as defined in ITU PP-10 Resolution 177

- **Res. 177**
  - mentioned a pilot ITU Conformity Database as informative only
  - invited ITU Sector Members to populate the pilot conformity database with details of products tested to applicable ITU-T Recommendations in accredited test laboratories (1st, 2nd or 3rd party), or by accredited certification bodies, or according to procedures adopted by a standards development organization or forum qualified in accordance with Recommendation ITU-T A.5
  - Continue to study a possible ITU Mark as a voluntary conformity declaration

Pillar 1 Objectives

1. Produce interoperable standards - ITU-T SGs are identifying ITU-T Recommendations with demonstrated market need for C&I testing and developing testing specifications if needed, in collaboration with partner SDOs if appropriate

2. Promote conformity assessment on products/services against ITU-T Recommendation(s) - ITU Conformity database

The living list of Recommendations and related specifications within key technologies suitable for C&I testing

ITU-T SG11 output document:

TD 371 (GEN/11) (9-16 July 2014)

#	Title	Focal Point	Other SDOs	ITU-T SGs	References to SDOs docs	References to ITU-T Recs.
1	NGN Functionality	Martin Brand Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at	ETSI	SG11	ETSI (Requirements) - - -	ITU (Requirements) Y.2201 Y.2012 Q.3909
		Andrey Koucheryavy (Russia) akouch@mail.ru			ETSI (Test suites) - -	ITU (Test suites) Q.3900 Q.3901
		Dmitry Tarasov (Russia) tarasov@zniis.ru				
2	Functions of broadband network as a part of NGN	Dmitry Tarasov (Russia) tarasov@zniis.ru	-	SG11	-	ITU (Requirements) Y.2012 ITU (Test suites) Q.3906.1
3	IMS architecture, signalling protocols, interfaces	Martin Brand Vice-chairman of SG11 (Austria) martin.brand@A1telekom.at	ETSI/3GPP	SG11	ETSI (Requirements) TS 124 228 TS 124 229 TS 124 238 TS 124 428	ITU (Requirements) - - - -

Network and equipment performance (benchmarking) – Req: Draft Q.39zz-1;   TS:Q.3930, Q.3931.1-4, Q.3932.1-4,

QoS/QOE/NP – Req: Q.3925, Y.1541, Y.1542, Y.1543, draft Q.MSPQuality, Q.NP-req; TS:Q.QMS, Q.3930, Q.3931.1, Q.3931.2

NGN Functionality – Req: Y.2201, Y.2012; TS: Q.3909; TS: Q.3900; Q.3901

Functions of broadband network as a part of NGN – Req: Y.2012; TS: Q.3906.1

IMS architecture, signaling protocols, interfaces – Req: Y.2012; TS: Q.3904

IMS basic call – Protocol conformance testing – Req: Draft Q.39xx-1; TS: Q.3904

IMS supplementary services. Protocol specifications – Req: -; TS: Q.3943.1/2/4, Q.3942.1

IMS interconnection – Re: Q.3401; TS: -

Interoperability testing – Req: - ; TS: Q.3940, Q.3941.1-4

NGN monitoring system – Req: Q.3902, Q.3910, Q.3911, Q.3912; TS: -

Interworking of signaling protocols of NGN – Req: Q.1912.5, Q.3401, Q.3402; TS: Q.1912.5 B-F

RFID – Req: - ; TS: Q.3950

Internet speed access – Req: - ; TS: Q.InSpMs

Internet Access as perceived by user – Req: G.1000; TS: -

Pilot projects on C&I testing against ITU-T Recommendations (1/3)

Title of planned/on going Pilot Project under C&I Programme	ITU-T Recs.	SGs focal point	Interested companies	Motivations	Short-term strategy
The title of planned or on-going Pilot Project which SG is going to start and maintain		The contact of responsible person/expert (rapporteur, editor, etc)	The companies are going or have already involved to the project	The reason and expecting results under ITU C&I Programme	The short-term strategy (one year) for achieving the goals of the Pilot Project

1. **ITU-T C&I Pilot project "Network management interface related Recommendations (ITU-T M.3170 series)" in cooperation with ITU-T SG2**

2. **ITU-T C&I Pilot project "G.hn conformance testing" (ITU-T G.9960 series) in collaboration with ITU-T SG15 and HGF**

First ITU-T Pilot project

Testing scope: conformance testing of the Multi-technology network interface in accordance with series of Recs. ITU-T M.3170.x

Involved companies: China Telecom, FiberHome, ZTE, CTTL, BUPT, etc.

Goal: improvement of an interconnection between EMS, NMS, and OSS for the MTNM interface

Short-term strategy:

- ✓ harmonize requirements based on the inputs provided by vendors, labs, operators
- ✓ select an appropriate TL that has a competence to perform the relevant tests
- ✓ perform testing at the appointed TL
- ✓ populate ITU product conformity DB

Reference Table is a list of ITU-T Recs and applicable test suites (ITU/other SDOs) which indicate relevant parameters to be tested for conformity/interoperability

ITU Conformity Database

to **showcase** products (/systems/services) implementing and conformant to ITU-T Recommendations

- voluntary and for information only
- it supports all types of CA, esp.:
    - 1st party CA - SDoC
    - 3rd party CA
        - partner with existing CA scheme – IECEE, ILAC/IAF, etc (ITU-T SG11 CG's proposal)

Pillar 2

Interoperability Events

ITU Interop events

- ITU Interoperability testing events:
  - cross-connect various manufacturers
  - evaluate of interoperability of all participants on a peer basis
  - check end to end performance at common "interfaces"

  to validate different implementations of standard, and feedback to standard-making.

- ✓ **ITU conducted test events:**
  - ✓ IPTV Interop and showcasing events on ITU-T H.760
  - ✓ NGN Interop and showcasing events
  - ✓ Continua Health Alliance Interoperability event on e-health (Geneva, Oct. 13)
  - ✓ Performance assessment of mobile phones in conjunction with HFT in a car against Recs. ITU-T P.1100/P.1110 (May. 14)
  - ✓ Interoperability of IMS-NNI, IoT (Bangkok, Aug. 14)
- ✓ Future events planned:
  - ✓ Continua Health Alliance Interoperability event on e-health (Geneva, 1st Quarter 2015)

Performance assessment of mobile phones in conjunction with vehicle's HFT in accordance with Recs. ITU-T P.1100/P.1110 www.itu.int/go/test-event

Background

Many mobile phones do not work properly with HFT's system and thereby significantly degrading the speech quality of the complete system

Findings

- ✓ an incorrect behavior of the mobile phone in the wireless connection to a vehicle's HFT
- ✓ an unacceptable quality of a voice-call inside the car and outside the car for the conversational partner

Only 30 % of phones passed the tests

Key outcomes

- ✓ **'Anonymized' report published on ITU website**
- ✓ **Updated Recs. ITU-T P.1100/P.1110 with the new values of performance**

Venue: ITU Headquarters
TL: HEAD Acoustics
Date: 12-16 May 2014
Participants: Mercedes-Benz, Volvo, Bosch, Toyota
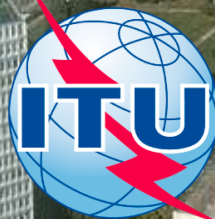Number of tests: 40 (30 phones)
ITU press-release

Conclusions

We invite:

➢ all interested parties, esp. test labs and other SDOs, to contribute test specifications of ITU-T Recommendations;

➢ all interested parties, esp. test labs/accreditation bodies, to discuss and trial voluntary 3rd CA for products implementing particular ITU-T Recommendation(s) with market needs;

➢ Vendors (and/or test labs with their agreement) to populate the ITU Conformity Database

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Thank You !