

ITU Product Conformity & Testing Laboratories Databases

GENERAL OVERVIEW

The ITU C&I Programme was initiated at the request of ITU's membership to:

- enhance the conformity and interoperability of ICT products implementing ITU Recommendations or part thereof
- improve the quality of ITU Recommendations
- reduce the digital divide and the Standardization Gap by assisting developing countries with human resource and infrastructure capacity building

ITU Conformance and Interoperability programme (C&I), <http://itu.int/go/citest>

Key pillars:

- Pillar 1: Conformity assessment
- Pillar 2: Interoperability events
- Pillar 3: Capacity building
- Pillar 4: Establishment of test centres and a C&I programme in developing countries

Core ITU Resolutions:

- [Resolution 177 \(PP-22\)](#)
- [Resolution 76 \(WTSA-20\)](#)
- [Resolution 47 \(WTDC-22\)](#)
- [Resolution 62-2 \(RA-19\)](#)

Implementation of C&I programme:

- [ITU-T SG11](#): lead group on testing (<http://itu.int/go/tsg11>)
- All other ITU-T SGs are developing test specifications in areas of their responsibilities
- [ITU-D SG2 \(Q4/2\)](#): assistance to developing countries on implementing C&I programme
- [Conformity Assessment Steering Committee \(CASC\)](#): Testing Laboratories Recognition procedure
- [ITU test events](#)
- [ITU training events on C&I](#)

Contact: conformity@itu.int

Overview

Conformity with international standards such as ITU Recommendations is one of the core principles underlying the global interoperability of ICT networks, devices and services.

The ITU Conformity and Interoperability (C&I) programme was initiated at the request of ITU's membership to enhance the conformity and interoperability of ICT products implementing ITU Recommendations or part thereof, solicit feedback to improve the quality of ITU Recommendations, and reduce the digital divide and the Standardization Gap by assisting developing countries with human resource and infrastructure capacity building.



Outcomes:

- **Product Conformity Database** (launched in 2014)
Note: around 500 entries
- **Testing Laboratories database** (launched in 2022)
Note: 11 TLs are registered
- **List of ITU-T Technical experts** (10 experts)
Note: they might be involved in the TL assessment
- **Testing specifications for different ICT technologies**
- **Number of test events** (23 events)
- **Number of training events and Workshops**

Rev. Resolution 76 (WTSA-20)

“Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU Mark programme”

resolves

...

4 to continue working with accreditation bodies to recognize testing laboratories with competence to test in accordance with ITU-T Recommendations;

instructs the study groups

...

4 to submit to CASC a list of ITU-T Recommendations which could be candidates for the **certification scheme**, taking into account market needs,

Instructs the TSB Director

...

6 to facilitate the development and implementation of an ITU-T C&I test laboratory recognition procedure;

instructs the ITU-T CASC

...

to study and define an ITU procedure to recognize testing laboratories that are competent to test according to ITU-T Recommendations, in collaboration with existing accreditation bodies,

Rev. Resolution 177 (PP-22)

“Conformance and interoperability”

...

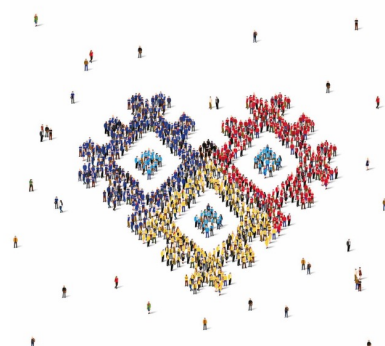
7 to develop the criteria for assessing the maturity of Pillar 1 of the Action Plan for the C&I Programme mentioned in recognizing further j) above and report to the Council;

8 to define the ITU Mark concept and its implications for ITU and its membership,

...

ITU Publications International Telecommunication Union

Final Acts of the Plenipotentiary Conference Bucharest, 2022



Communication Standardization Bureau

Communication Standardization Bureau
Action Plan for the C&I Programme endorsed by the
Director of the Telecommunication Development
human capacity building and assistance in the
development of countries;

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- 2 to continue to carry out pilot projects for conformity to ITU-T recommendations to increase the probability of interoperability in accordance with the Action Plan for the C&I Programme;
- 3 to enhance and improve standards-setting processes in order to improve interoperability through conformity;
- 4 to continuously update the Action Plan for the C&I Programme for the long-term implementation of this resolution;
- 5 to provide the Council with progress reports, including the results of studies, relating to the implementation of this resolution;
- 6 in cooperation with the Director of BDT, to implement the Action Plan for the C&I Programme agreed by the Council at its 2012 session and revised by the Council at its 2013 session;
- 7 to develop the criteria for assessing the maturity of Pillar 1 of the Action Plan for the C&I Programme mentioned in recognizing further j) above and report to the Council;**
- 8 to define the ITU Mark concept and its implications for ITU and its membership,**
instructs the Director of the Telecommunication Development Bureau, in close collaboration with the Director of the Telecommunication Standardization Bureau and the Director of the Radiocommunication Bureau

- 1 to advance the implementation of Resolution 47 (Rev. Kigali, 2022) and the relevant parts of the Action Plan for the C&I Programme, and to report to the Council;
- 2 to assist Member States in addressing their concerns with respect to non-compliant equipment;
- 3 to continue providing on-the-job capacity-building activities, in collaboration with recognized institutions and benefiting from the ITU Academy ecosystem, including activities related to preventing radiocommunication interference caused or received by ICT equipment;
- 4 under Pillars 3 and 4 of the Action Plan for the C&I Programme:
 - a) to raise awareness of the applicability of C&I programmes to certain IoT devices;
 - b) to provide capacity building on technical regulations and compliance testing to support developers, including SMEs and youth, as they design their telecommunication/ICT equipment, to enable them to access local, regional and global markets;
- 5 to use ITU seed money allocated for projects and encourage donor agencies to fund annual capacity-building and training programmes in testing centres adopted as ITU centres of excellence;

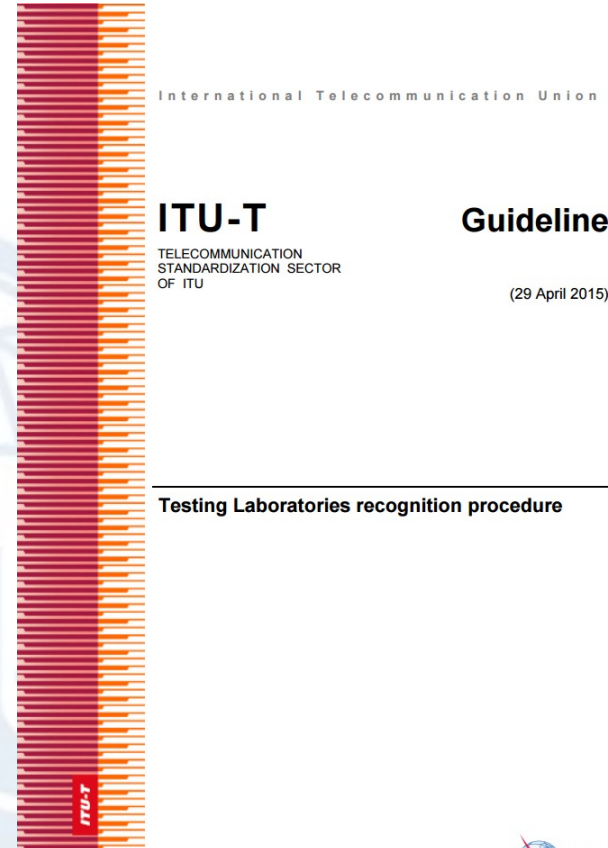
2015

SG11 established ITU-T Conformity Assessment Steering Committee ITU-T CASC, <http://itu.int/go/casc>

Main objective is elaborate the TL recognition procedure in close collaboration with existing accreditation entities (e.g., IEC, ILAC, IAF, etc.).

The screenshot shows the ITU-T website with the following content:

- Header: ITU logo, "Committed to connecting the world", and Sustainable Development Goals logo.
- Search bar: "What would you like to search for?"
- Navigation menu: ITU, General Secretariat, Radiocommunication, Standardization, Development, ITU Telecom, Members' Zone, Join ITU.
- Breadcrumb: About ITU-T, Events, All Groups, Standards, Resources, BSG, Study Groups, Regional Presence, Join ITU-T.
- Section: Conformity Assessment Steering Committee
- Path: YOU ARE HERE ITU > HOME > ITU-T > STUDY GROUPS > STUDY GROUP 11 > CASC
- Main text: "The Conformity Assessment Steering Committee (ITU-T CASC) was established in April 2015 by ITU-T SG11 to elaborate detailed procedures for the implementation of a test laboratory recognition procedure in ITU-T."
- Text: "The ITU-T CASC works in accordance with the ITU-T SG11 Guideline 'Testing laboratories recognition procedure' which describes the procedure for recognition of Testing Laboratories that have competence for testing against ITU-T Recommendations."
- Text: "For more background information see here."
- Section: TERMS OF REFERENCE
- Section: Scope: "The ITU-T CASC (Conformity Assessment Steering Committee) is working under the auspices of ITU-T SG11 with the participation of ITU-T experts from all ITU-T SGs."
- MEETINGS sidebar: "Next ITU-T CASC meeting Geneva, 8 July 2022" with sub-points: Announcement, Draft Time Plan, Cs | TDs. Also includes "CASC Sharepoint" and "CASC meetings (2015-2021)".
- Footer: "A TIES account is required to access the documents"



SG11 agreed a [Guideline on "Testing Laboratories recognition procedure"](#).

It describes the process on how ITU may recognize Testing Laboratories which competence covers ITU-T standards.

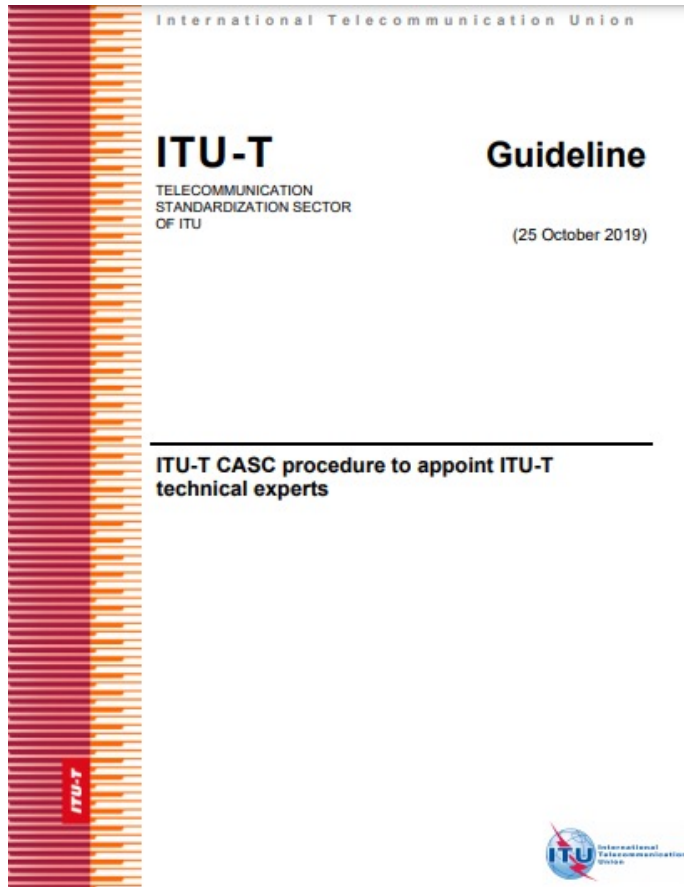
The Guideline was revised in July 2022.



2017-2019

SG11 agreed a [Guideline “ITU-T CASC procedure to appoint ITU-T technical experts”](#).

Those experts could be included in the assessment team of IEC or ILAC in order to evaluate TL which have competence on particular ITU-T Recommendations.



List of ITU-T technical experts appointed by ITU-T CASC

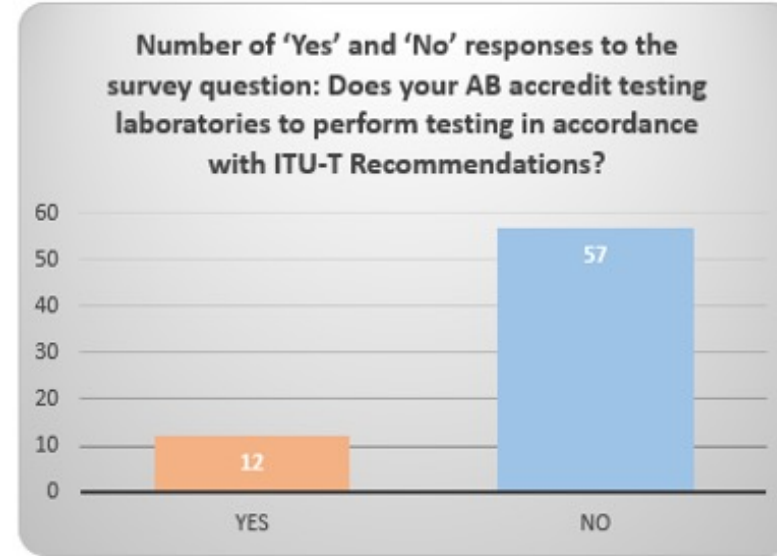
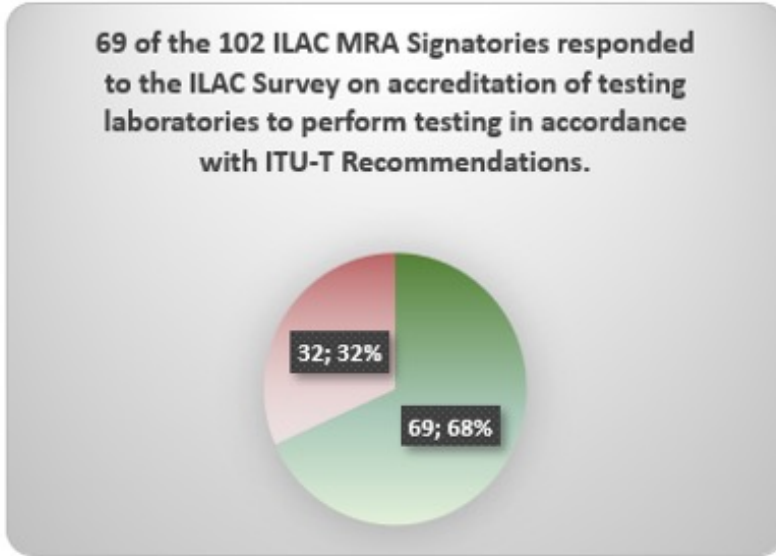
(Geneva, 18 October 2019, ref. Annex C of [SG11-TD1020R1/GEN](#))

#	Name	ITU-T Recommendation	Country	Company	Email
1.	Feng Qi	ITU-T M.3101 (07/1995); ITU-T M.3170.4 (04/2015); ITU-T X.781 (08/2001); ITU-T X.783 (07/2014); ITU-T X.784 (03/2016)	China	BUPT, China	qifeng[at]bupt.edu.cn
2.	Awad Mulah	ITU-T K.48 (09/2006); ITU-T K.116 (11/2015)	Sudan	Telecommunication and Post Regulatory Authority (TPRA), Khartoum-Sudan	awadmulah[at]tpra.gov.sd
3.	Michael Maytum	ITU-T K.12 ITU-T K.77 ITU-T K.82 ITU-T K.95 ITU-T K.102 ITU-T K.129 ITU-T K.117 ITU-T K.20 ITU-T K.21 ITU-T K.45	UK	Bourns Ltd., United Kingdom	m.j.maytum[at]iecc.org
4.	Yuan Zhang	ITU-T H.626 (Rev.), ITU-T H.626.4, ITU-T H.626.5, ITU-T H.627, ITU-T H.627.1	China	China Telecom	zhangyuan1.sh[at]chinatelecom.cn
5.	Haitao Zhang	ITU-T H.626 (Rev.), ITU-T H.626.2, ITU-T H.626.3, ITU-T H.627	China	Beijing University of Posts and Telecomm	zht[at]bupt.edu.cn
6.	Yalan Zhang	ITU-T H.626 (Rev.), ITU-T H.626.2, ITU-T H.626.3, ITU-T H.627	China	Huawei Technologies Co., Ltd	zhangyalan[at]huawei.com
7.	Kai Liao	ITU-T H.626 (Rev.), ITU-T	China	ZTE	liao.kai[at]zte.com.cn

SG11 appointed several [ITU technical experts](#) on different ITU-T Recommendations.

2020

Collaboration with ILAC



ILAC presented outcomes of ILAC survey to identify Testing Laboratories accredited to perform testing in accordance with ITU-T Recommendations (see [SG11-TD1370/GEN](#)).

The results indicated that:

- 12 Accreditation Bodies (ABs) out of the 57 who replied to the survey, are accrediting laboratories for ITU Recommendations.
- Out of the 12 ABs 10 had fewer than 5 accredited labs while 2 members indicated they have accredited 23 and 37 laboratories respectively for ITU-T Recommendations.



2021

SG11 decided that ITU recognizes the Testing Laboratories (TLs) which are accredited by an AB that is a signatory to the ILAC MRA for testing, which scope of accreditation contains ITU-T Recommendation(s).

There are no financial implications for ITU for implementing such procedures. Financial implications for TLs are to be covered by the cost structures of the ABs.

Ref.: SG11 Report, March 2021, [SG11-R42](#)



2022

Key achievements: CASC

- **Aligned its ToR with Resolutions of WTSA-20**
- **Established collaboration with International Laboratory Accreditation Cooperation (ILAC) on Testing Laboratory recognition procedure**
- **Approved the ITU Guidelines on TL recognition procedure and appointment of ITU technical experts**
- **Appointed 10 ITU-T Technical experts on ITU-T Recommendations H., K., M. and X.series.**
- **Recognized 11 TLs** which are accredited by an Accreditation Body (AB) that is a signatory to the [ILAC Mutual Recognition Arrangement \(MRA\)](#) for testing, which scope of accreditation contains ITU-T Recommendation(s).
 - [ITU Operational Bulletins \(OB.1253, OB.1256, OB.1263, OB.1266\)](#)
 - [Newslog](#)

[TSB Circular 368](#)

Testing Laboratories Database

YOU ARE HERE: HOME > ITU-T > ITU CONFORMITY AND INTEROPERABILITY > TESTING LABORATORIES DATABASE

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DISCLAIMER: The database lists Testing Laboratories (TLs) recognized by ITU which compliant with criteria defined in ITU-T Guideline "Testing Laboratories recognition procedure".

The recognition of a TL by ITU does not imply or otherwise suggest approval of a product or that the recognized TL acts as an agent or representative of the ITU. The ITU does not accept any responsibility for the effects or consequences of services provided by the recognized TL on users of such services.

The status as recognized TL for ITU-T Recommendations is valid within the terms of TL accreditation. Once validity is expired, it will be reflected in ITU database for particular TL entry. The recognized TL needs to inform ITU (conformity@itu.int) on any changes in their scope of accreditation and their validity accordingly. In the event of misalignment, it may result in full delisting of TL from ITU Database.

TL Name	Country	Scope of Accreditation (ITU-T Recommendations)	Accreditation body name (AB of ILAC MRA)	Laboratory ID	Validity of accreditation
Hermon Laboratories Ltd	Israel	K.20; K.21; K.41; K.44; K.45; G.703; G.823; G.991.2; G.992.1; G.992.3 Cor. 3; G.992.5 Cor. 1; G.993.1; G.993.2; P.313; P.340; P.370; P.862; P.863; T.30; T.38; Q.552	American Association for Laboratory Accreditation (A2LA)	0839.01	31 May 2023
Bharat Test House Pvt. Ltd.	India	G.664; G.691; G.693; G.694.1; G.695; G.698.3; G.703; G.709; G.783; G.823; G.824; G.825; G.957; G.959.1; G.984.1; G.984.2; G.984.3; G.987.1; G.987.2; G.989.2; G.991.2; G.992.3; G.992.5;	National Accreditation Board for Testing and Calibration Laboratories (NABL)	TC-6451	25 December 2023

MoU between ITU-T, International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC)

24 August 2022: The MoU between ITU-T, IAF and ILAC provides critical support to ITU's Conformance and Interoperability (C&I) programme. Conformance with international standards is one of the core principles underlying the global interoperability of ICT networks and devices.

The ITU Conformity and Interoperability (C&I) programme was initiated at the request of ITU's membership to enhance the conformity and interoperability of ICT products implementing ITU Recommendations or part thereof.

The purpose of this MoU is to establish effective collaborative linkages between the ITU-T, IAF and ILAC in the area of conformity and interoperability of ICT products, to facilitate achieving the desired level of connectivity and 'usability' of services to the end-users.



MEMORANDUM OF UNDERSTANDING (MoU)
BETWEEN
THE INTERNATIONAL TELECOMMUNICATION UNION
AND
THE INTERNATIONAL ACCREDITATION FORUM
AND
THE INTERNATIONAL LABORATORY ACCREDITATION COOPERATION

1. Parties and Purpose

The Parties

- 1.1 The International Telecommunication Union (hereafter ITU) is the United Nations specialized agency for information and communication technologies (ICTs). It allocates global radio-frequency spectrum and satellite orbits, develops technical standards that ensure networks and technologies seamlessly interconnect, and strives to improve access to ICTs to underserved communities worldwide.
- 1.2 The International Accreditation Forum (hereafter IAF) is the specialised body administering a global multilateral mutual recognition arrangement among accreditation bodies responsible for accrediting conformity assessment bodies including management system certification bodies, product certification bodies, personnel certification bodies and verification and validation bodies, having as their objective the formal recognition of competent conformity assessment bodies, for specified scopes.
- 1.3 The International Laboratory Accreditation Cooperation (hereafter ILAC) is the specialised body administering a global multilateral mutual recognition arrangement (MRA) among accreditation bodies responsible for accreditation of conformity assessment bodies including calibration laboratories, testing laboratories, medical laboratories, inspection bodies, proficiency testing providers, reference material producers and biobanks, having as their objective the formal recognition of competent conformity assessment bodies, for specified scopes.

The Purpose

- 1.4 The purpose of this MoU is to establish effective collaborative linkages between the Parties in the area of conformity and interoperability of ICT products, to facilitate achieving the desired level of connectivity and 'usability' of services to the end-users.

ILAC-ITU Partnership



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» ILAC – ITU PARTNERSHIP

Memorandum of Understanding

The [International Telecommunications Union \(ITU\)](#), the [International Accreditation Forum \(IAF\)](#) and the International Laboratory Accreditation Cooperation (ILAC) have reviewed and re-signed the Memorandum of Understanding (MoU) from May 2012. The re-signing of the [ITU-IAF-ILAC MoU](#) continues to support and strengthen the three organizations' commitment to cooperation and collaboration and the ongoing development of ITU-T's [Conformity and Interoperability \(C&I\) programme](#).

ITU Recognised Test laboratories.

The ITU maintains a register of test laboratories that are eligible to test ICT equipment against the ITU-T Recommendations in the ITU list of recognized test laboratories.

The [ILAC Assessment Procedure in the field of Telecommunications](#) has been produced to inform ILAC MRA signatory accreditation bodies about the requirements that must be met by testing laboratories seeking to be registered on the ITU list of recognized test laboratories.

ITU Testing Laboratories Database (TLDB)

<http://itu.int/go/tldb>

In order to be recognized by the ITU, Testing Laboratories (TL) shall be:

- accredited by an Accreditation Body that is a signatory to the ILAC MRA for Testing (using ISO/IEC 17025)
Note: the list of ABs is available at: <https://ilac.org/signatory-search/>.
- have ITU-T Recommendations in the TL's scope of accreditation

Ref: revised ITU-T Guideline, July 2022

According to ITU Guideline: “Based on received applications, if they are in line with the criteria defined in cl.9, TSB Director is asked to register the Testing Laboratory in the ITU Testing Laboratory Database accordingly.”

Any TL including non-ITU members are encouraged to apply

ITU Testing Laboratories Database - Application form


YOU ARE HERE: HOME > ITU-T > ITU CONFORMITY AND INTEROPERABILITY > ITU TESTING LABORATORIES DATABASE - APPLICATION FORM

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1. APPLICANT

Testing Laboratory Name *:
Note: please provide the name as identified by the Accreditation Body of ILAC MRA signatory in the scope of accreditation

Laboratory ID:
Note: please indicate the registration number provided by the Accreditation Body of the ILAC MRA signatory to the testing laboratory, if applicable

Accreditation validity *: 
(yyyy-MM-dd)
Note: please indicate the date when the given accreditation is expired

Street/P.O. Box *:

Town/City *:

Country *:

Website *:

Contact Person *:

Job title *:

Phone *:

Email *:

2. ACCREDITATION INFORMATION

Accreditation body name *:
Note: please provide the name of the Accreditation Body that need to be an ILAC MRA signatory in testing

Email of Accreditation Body *:

Website *:

The request needs to be sent via online form. It is available on ITU C&I Portal:

<http://itu.int/go/citest>

ITU Product Conformity Database (PCDB)

<http://itu.int/go/tcdb>

The PCDB can be populated by **testing laboratories**, [Online application form](#) **conformity assessment bodies (CABs)**, **vendors** and others, **including non-members of ITU**, provided that the product is either (see [here](#)):

- **tested** by a testing laboratory which has an accreditation with ISO/IEC 17025 and at least one ITU-T Recommendation; or,
- **certified** to be in conformance with at least one ITU-T Recommendation by a CAB with ISO/IEC 17065 accreditation
- **tested by testing laboratory recognized by ITU (accredited by ILAC MRA signatories AB which have ITU Recommendations in its scope of accreditation), see ITU-T Guideline.**

Applicant

Company Name *

Category of applicant *
(The relevant confirmation from a vendor is required if the applicant is not the vendor)

Testing Laboratory
 Certification Body
 Customer
 Vendor
 Standardization Development Organization
 Other (please specify below)

Street/PO Box *

Town/City *

Country *

E-mail *

Product Conformity Database

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DISCLAIMER: This database is not certified to be either accurate or complete, but only reflects the information that has been communicated to the ITU secretariat. The ITU secretariat has not verified the veracity or accuracy of such information, nor the relevance of the products to ITU Recommendations

[E-Health Devices](#) | [Mobile Phones](#) | [Ethernet Services](#) | [IPTV](#) | [Mobile Number Portability Systems](#)

Product	Company	Model Number	Conformity to ITU-T Recommendation
HealthUp HIS	Openit, Inc.	OI-PROD-HU-HIS	
nHealthcare - Smart Healthcare	NTELS Co., LTD	NSH-16	
NoninConnect - Connected Fingertip	Nonin	3230, 3240, and 3245	
Accu-Chek Instant (BTLE & USB) and Instant S meter (USB)	Roche	958	
Wireless Blood Glucose Meter	Ascensia Diabetes Care	Contour Next ONE and Contour Plus ONE	
Windriver Intel Manager (Bluetooth HDP)	Wind River	BT App	
Austonio Application for Android	Intel	Asus Memo Pad 8	ITU-T H.810 (2013-12)
Digital Thermometer	A & D Medical	UT-201BLE	ITU-T H.810 (2013-12)
Digital Blood Pressure Monitor	A & D Medical	UA-651BLE as Type A	ITU-T H.810 (2013-12)
Energy Smart Blood pressure monitor	IDT	BPU321 (as Type A)	ITU-T H.810 (2013-12)
Accu-Chek Active GB	Roche	GB revision 2	ITU-T H.810 (2013-12)

Product is to be tested to applicable ITU-T Recommendations using ITU-T test specifications or procedures adopted by an SDO or forum qualified in accordance with Recommendation ITU-T A.5.

At this early stage of the database's implementation, the entry of products is possible through two other channels:

- if these products were tested in an [ITU test event](#)
- as part of an ITU conformity testing [pilot project](#)

Potential approach on safe listening project

- **Appoint ITU-T technical experts on ITU-T H.870-series who might be involved by Accreditation Bodies of ILAC MRA to assess Testing Laboratories**
- **Register Testing Laboratories (TLs), which fulfill the criteria of ITU TL recognition procedure, in ITU TL Database**
- **Register ICT products tested by recognized TLs in ITU Product Conformity Database**

Contacts

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