



Agenda Item 10.1:
Report by the OIML-CS
Management Committee Chairperson



OIML Certification System (OIML-CS)

Annual report to the CIML by the OIML-CS Management Committee Chairperson 2021

Contents

Report by the OIML-CS Management Committee Chairperson

Annexes

- Annex A: Measuring instrument categories
- Annex B: OIML-CS certificates registered with the BIML
- Annex C: Summary of OIML Issuing Authorities and their scopes
- Annex D: Summary of Test Laboratories and their scopes
- Annex E: Summary of Utilizers and Associates
- Annex F: Summary of Management System Experts
- Annex G: Summary of Legal Metrology Experts

Report by the OIML Certification System (OIML-CS) Management Committee Chairperson

1 Activities of the OIML-CS Management Committee, Review Committee and Working Groups

1.1 Management Committee Membership

The following countries are voting members of the OIML-CS Management Committee:

Australia	Belgium	Cambodia	Canada
Colombia	Cuba	Czech Republic	Denmark
France	Germany	India	Japan
Korea (R.)	Netherlands	New Zealand	P.R. China
Russian Federation	Slovakia	South Africa	Switzerland
United Kingdom	United States		

1.2 Meetings and Working Groups

Online meetings of the Review Committee and Maintenance Group were held on 24 February and 3 March respectively. These meetings preceded the Sixth OIML-CS Management Committee Meeting which was held on 24-25 March 2021. This replicated the approach normally taken when in-person meetings were held in 2018 and 2019, and enabled the Review Committee and Maintenance Group to discuss key issues and to develop proposals for consideration and decision at the Management Committee meeting.

The Sixth Management Committee Meeting was chaired by the new Management Committee Chairperson, Mr Mannie Panesar, and 20 of the 22 Management Committee Members from OIML Member States were present or represented. In addition, there were representatives from the following liaison organisations: CECIP, CECOD, ILAC/IAF, and ISO CASCO.

Some of the key items that were discussed and considered at the Sixth Management Committee Meeting were:

- feedback and experiences of participants in the OIML-CS, covering items such as acceptance of certificates, modular approvals, and experience of remote assessments;
- reports by the Review Committee Chairperson and Maintenance Group Chairperson, including proposals on the activities of the RC and approvals of OIML-CS documents;
- recommendations from the ISO/IEC 17065 Working Group to allow OIML Issuing Authorities to use ISO/IEC 17020 (with additional requirements) as an alternative to ISO/IEC 17065 to demonstrate competence (see Addendum 10.2 to the Working Document for the 56th CIML Meeting);
- review of OIML Issuing Authority Annual Reports for 2020 and confirmation of the continued participation of the OIML Issuing Authorities in the OIML-CS;
- a progress report on the update of OIML R 60:2017;
- high priority publications and periodic reviews;
- the need for a Test Laboratory Forum Chairperson; and
- an update on the work of the OIML-IECEX Joint Working Group.

1.3 Changes to OIML-CS Documentation

1.3.1 B 18 *Framework for the OIML Certification System (OIML-CS)*

There are no changes to OIML B 18, although updated clarifications and interpretations relating to OIML B 18 arising from Management Committee decisions have been included in CID-01 Edition 3 (see 1.3.4).

1.3.2 Operational Documents (OD-01 and OD-02)

Operational Document OD-01 was amended to:

- change the Legal Metrology Expert qualification criteria to competence criteria;
- remove the review of “old test data” from the tasks of the Review Committee; and
- remove references to the Test Laboratory Forum Chairperson.

OD-01 Edition 3 was published on 10 June 2021.

1.3.3 Procedural Documents (PD-01 to PD-08)

Procedural Documents PD-05 and PD-06 were amended to implement:

- a decision taken by the OIML-CS Management Committee to allow an OIML Issuing Authority to make use of a test report issued by a Test Laboratory of another OIML Issuing Authority as the basis for issuing an OIML certificate under Scheme A;
- CIML resolution no. 2020/25 relating to the removal from OIML-CS publications of references to the marking of instruments with the OIML certificate number; and
- the clarifications and interpretations relating to PD-05 and PD-06 from CID-01 Edition 1.

PD-05 Edition 3 and PD-06 Edition 3 were published on 26 February 2021.

Procedural Document PD-07 was amended to remove the need for the Review Committee to review of “old test data”. PD-07 Edition 3 was published on 10 June 2021.

1.3.4 Clarifications and Interpretations Document (CID-01)

CID-01 collates decisions taken at Management Committee meetings relating to clarifications and interpretations of the text in OIML-CS documents. CID-01 Edition 2 was published 26 February 2021 as the clarifications and interpretations included in PD-05 Edition 3 and PD-06 Edition 3 were removed.

CID-01 Edition 3 (published 10 June 2021) was updated as follows:

- the clarifications and interpretations included in OD-01 Edition 3 and PD-07 Edition 3 were removed;
- the transition period for OIML Issuing Authorities to use self-declaration changed to six years (PD-03); and
- new clarifications/interpretations included for OIML B 18 and OD-02 to remove reference to the Test Laboratory Forum Chairperson.

2 Categories of measuring instruments and respective Scheme

The categories of measuring instruments and the respective OIML Recommendations included in the OIML-CS under Scheme A or Scheme B are shown in Annex A.

3 Functioning of the OIML-CS

3.1 Number of registered OIML-CS certificates

Information on the OIML-CS certificates registered with the BIML is shown at Annex B.

3.2 Reasons for non-acceptance

Although there has been some mention by manufacturer associations of OIML-CS certificates not being accepted, the OIML-CS Executive Secretary has not been made aware of any specific instances (with evidence) of non-acceptance of OIML-CS certificates.

4 OIML Issuing Authorities and Test Laboratories

4.1 Approvals

Since the 56th CIML Meeting, the following changes have taken place regarding OIML Issuing Authorities and their associated Test Laboratories approved under the OIML-CS (*status at 2021-07-13*):

OIML Issuing Authority	Change	Date
CMI (Czech Republic)	Addition of R 117:2019 under Scheme A	21 December 2020
	Deletion of R 75:2002, R 134:2006 and R 139:2014 (Scheme B)	01 January 2021
FORCE (Denmark)	Addition of R 137:2012 under Scheme A	06 November 2020
	Addition of R 139:2018 under Scheme B for Horsholm TL.	18 December 2020
	Deletion of R 139:2018	01 January 2021
	Addition of R 139:2014 and R 139:2018 under Scheme A	23 June 2021
LNE (France)	Deletion of R 50:2014 and R 126:1998 (Scheme B)	01 January 2021
	Addition of R 126:1998 under Scheme A	05 July 2021
METAS (Switzerland)	Deletion of R 50:2014, R 106:2011, R 107:2007, R 126:1998 and R 134:2006	01 January 2021
NIM (P.R. China)	Deletion of R 50:2014, R 107:2007 and R 134:2006 (Scheme B)	01 January 2021
NMi (Netherlands)	Transition of R 21, R 50, R 107, R 134 and R 139 to Scheme A.	01 January 2021
	Deletion of R 75:2002, R 99:2008, R 106:2011, R 107:2007 and R 126:1998 (Scheme B)	01 January 2021
NMIA (Australia)	Deletion of R 50:2014 (Scheme B)	01 January 2021
NMIJ/AIST (Japan)	Addition of R 117:1995, R 117:2007 and R 117:2019 under Scheme A	14 June 2021
NMO (United Kingdom)	Deletion of R 21:2007, R 50:2014, R 106:2011, R 107:2007 and R 134:2006 (Scheme B)	01 January 2021
RISE (Sweden)	Addition of R 117:2019	25 March 2021

A summary of the OIML Issuing Authorities and their scopes can be found at Annex C and a summary of the Test Laboratories and their scopes can be found at Annex D.

This information is also provided on the OIML website at:

<https://www.oiml.org/en/oiml-cs/oiml-issuing-authorities>

4.2 Rejections

The Management Committee has not rejected any applications to be an OIML Issuing Authority or Test Laboratory.

4.3 Suspensions

The Management Committee has not suspended any OIML Issuing Authorities or Test Laboratories.

4.4 Continuing compliance of OIML Issuing Authorities and their Test Laboratories

In accordance with PD-03, OIML Issuing Authorities need to demonstrate continued compliance with the requirements for participation in the OIML-CS. Consequently, each of the OIML Issuing Authorities submitted an annual report on their activities in 2020. The 2020 annual reports have been reviewed by the Management Committee, and the Management Committee Members have agreed that each of the OIML Issuing Authorities and their associated Test Laboratories continue to fulfil the requirements for continued participation.

5 Utilizers and Associates

There are currently 33 Utilizers and Associates participating in the OIML-CS. Since the previous report in 2020, the following changes have taken place regarding Utilizers and Associates participating in the OIML-CS (*status at 2021-07-13*):

Country	Change	Date
Czech Republic	Addition of R 117:2019	07 January 2021
	Inclusion of Additional National Requirements	04 March 2021
Denmark	Addition of R 60:2017, R 61:2017, R 117:2007, R 117:2019, R 129:2020 and R 137:2012	13 January 2021
	Inclusion of Additional National Requirements	13 April 2021
Iran	New Utilizer	19 April 2021
Japan	Addition of R 60:2017	13 January 2021
	Addition of R 117:1995, R 117:2007 and R 117:2019	29 June 2021

A summary of the Utilizers and Associates and their scopes can be found at Annex E.

Some Utilizers and Associates have specified Additional National Requirements. Information on the Additional National Requirement for these organisations is available on the OIML website at:

<https://www.oiml.org/en/oiml-cs/utilizers-and-associates>

6 Legal Metrology Experts and Management System Experts

6.1 Appointment of experts

Since the 55th CIML Meeting, the Review Committee has reviewed and made positive recommendations on the approval of a number of Management System Experts and Legal Metrology Experts. The applications have been approved by the Management Committee by electronic ballot. Applications continue to be received and these will be reviewed by the Review Committee and approved by the Management Committee on a continual basis.

6.2 Status and scope of experts

A summary of the Management System Experts and Legal Metrology Experts that have been approved by the Management Committee is shown at Annex F and Annex G respectively. The lists of experts are published as ILAC/IAF/OIML experts.

6.3 On-going competence and suitability of experts

The OIML-CS requires that the on-going competence and suitability of experts is reviewed every three years. A process has been implemented to review and re-approve the experts that were originally approved in 2018.

7 Appeals

There have been no appeals against decisions of the Management Committee.

The constitution of the Board of Appeal is as follows.

Board of Appeal Chairperson: Roman Schwartz

Board of Appeal Members: Mairead Buckley
Himba Cheelo
Sergey Golubev
Toshiyuki Takatsuji

8 Promotional activities

8.1 Seminars, workshops and awareness raising activities

Promotion and awareness raising activities have been undertaken at various online events. Some examples of these include:

- GULFMET TC Legal Metrology meeting on 31 January 2021
- WELMEC WG8 meeting on 9/10 February 2021
- SADCAS Workshop on 31 March 2021
- Measuring Instruments Working Group meeting on 20/21 April 2021

In addition, the Promotion and Awareness Raising Working Group has developed a standard presentation for the OIML-CS that can be used by Management Committee members and other interested parties when participating in events. Colombia has taken over as Chair of the Promotion of Awareness Raising Working Group.

8.2 OIML-CS webpages

The OIML-CS webpages on the OIML website can be found at: <https://www.oiml.org/en/oiml-cs>

The webpages provide stakeholders with access to all of the relevant information regarding the OIML-CS. An update to the OIML Issuing Authority, Test Laboratory, Utilizer and Associate webpages has been undertaken to:

- improve the updating of scope information (back-office administrative function);
- improve the presentation of information relating to OIML Issuing Authorities, Test Laboratories, Utilizers and Associates;
- provide additional information regarding acceptance by Utilizers and Associates of test data relating to Additional National Requirements;
- provide additional information regarding the ability of OIML Issuing Authorities to evaluate Additional National Requirements; and
- provide dynamic search facilities for OIML Issuing Authorities, Test Laboratories, Utilizers and Associates and their respective scopes.

9 Finances of the OIML-CS

Information on the income from OIML certificate registration fees and the expenditure associated with the operation of the OIML-CS during 2020 is provided under agenda item 7.1 of the 56th CIML Meeting.

10 Liaison activities

As ILAC is the international organisation for accreditation bodies operating in accordance with ISO/IEC 17011 and involved in the accreditation of inspection bodies (using ISO/IEC 17020), the Executive Secretary consulted with ILAC on the proposal* to allow OIML Issuing Authorities to use ISO/IEC 17020 (with additional requirements) as an alternative to ISO/IEC 17065 to demonstrate competence.

* see Addendum 10.2 to the Working Document for the 56th CIML Meeting for information on the proposal.

Regarding the Joint OIML-IECEX Working Group, the ad-hoc working group developing a comparison document between the OIML-CS and the IECEX systems presented a first draft to at the Sixth Management Committee Meeting. Further work is ongoing, with the intention of sharing the document with IECEX later this year.

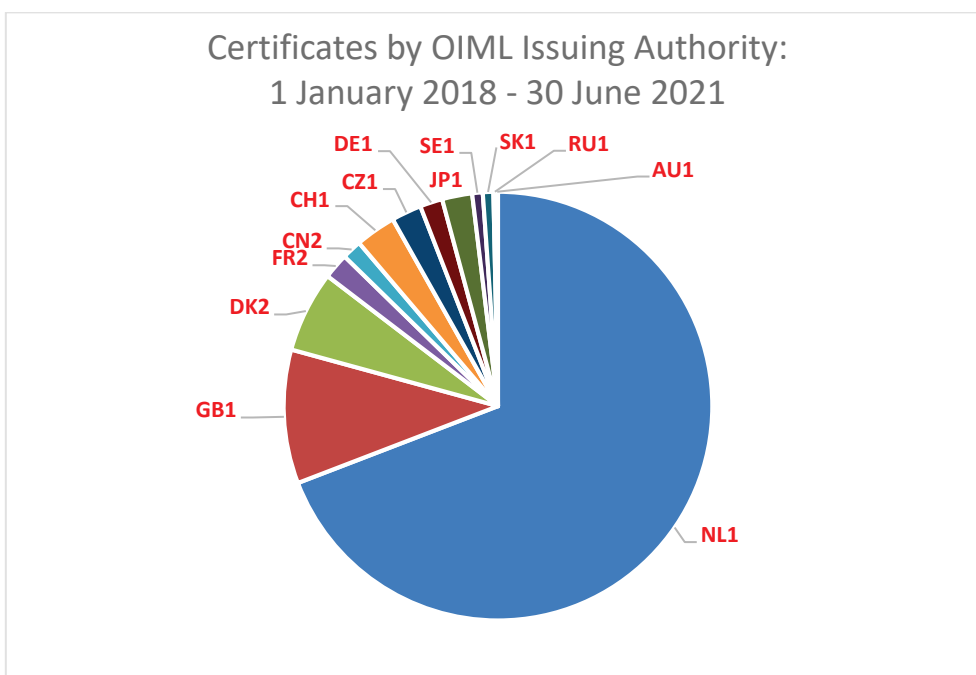
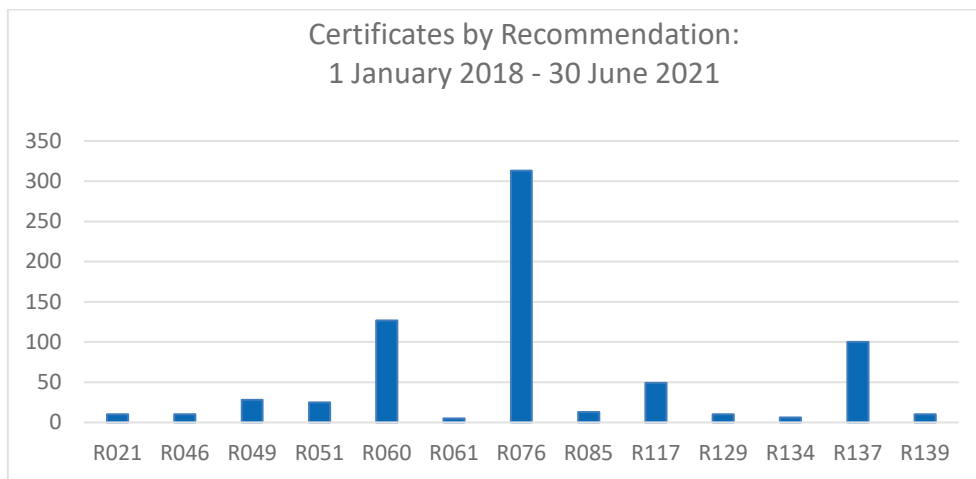
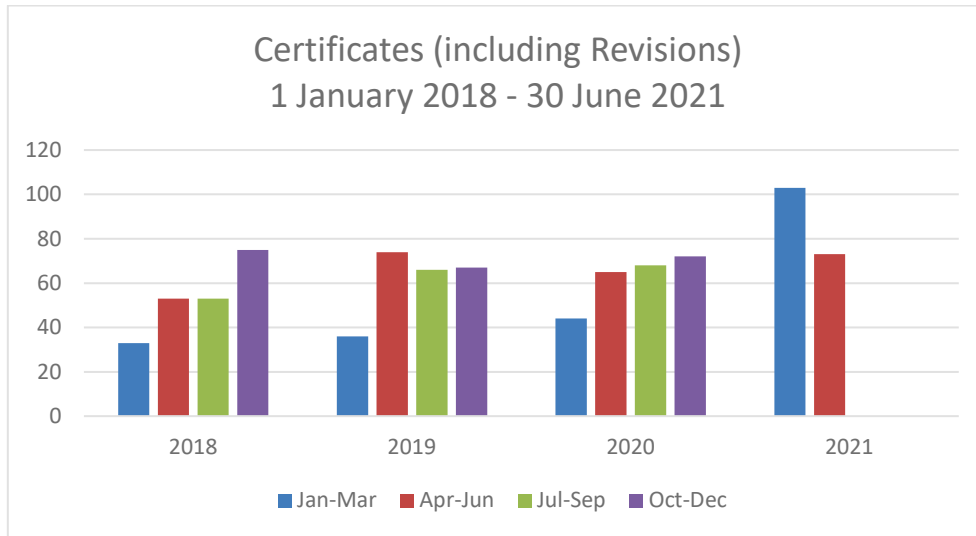
Annexes

Annex A: Measuring instrument categories

Measuring Instrument Category		Scheme
R 21:2007	Taximeters	A
R 35:2007	Material measures of length	A
R 46:2012	Active electrical energy meters	A
R 49:2006	Water meters	A
R 49:2013		A
R 50:2014	Continuous totalizers	A
R 51:2006	Automatic catchweighers	A
R 58:1998	Sound level meters	A
R 59:2016	Moisture meters for cereal grains and oilseeds	A
R 60:2000	Load cells	A
R 60:2017		A
R 61:2004	Automatic gravimetric filling instruments	A
R 61:2017		A
R 75:2002	Heat meters	A
R 76:1992	Non-automatic weighing instruments	A
R 76:2006		A
R 81:1998	Cryogenic liquids	A
R 85:2008	Level gauges for stationary storage tanks	A
R 88:1998	Integrating-averaging sound level meters	A
R 93:1993	Focimeters	A
R 99:2008	Vehicle exhaust emissions	A
R 102:1992	Sound calibrators	A
R 104:1993	Pure-tone audiometers	A
R 106:2011	Automatic rail-weighbridges	A
R 107:2007	Discontinuous totalizers	A
R 110:1994	Pressure balances	A
R 117:1995	Liquids other than water	A
R 117:2007		A
R 117:2019		A
R 122:1996	Speech audiometry	A
R 126:2012	Evidential breath analysers	A
R 128:2000	Ergometers for foot crank work	A
R 129:2000	Multi-dimensional measuring instruments	A
R 129:2020		A
R 133:2002	Liquid-in-glass thermometers	A
R 134:2006	Weighing road vehicles in motion	A
R 136:2004	Areas of leather	A
R 137:2012	Gas meters	A
R 139:2014	Compressed gaseous fuel systems for vehicles	A
R 139:2018		A
R 143:2009	Continuous measurement of SO ₂ in stationary source emissions	A
R 144:2013	Continuous measurement of CO, NO _x in stationary source emissions	A
R 145:2015	Ophthalmic instruments - Impression and applanation tonometers	A
R 146:2016	Protein measuring instruments for cereal grains and oilseeds	A
R 148:2020	Non-invasive non-automated sphygmomanometers ¹	A
R 149:2020	Non-invasive automated sphygmomanometers ²	A
R 150:2020	Continuous totalizing automatic weighing instruments of the arched chute type	B ³

- 1 Replaced the revised R 16-1 (withdrawn)
- 2 Replaced the revised R 16-2 (withdrawn)
- 3 Transition to Scheme A on 1 January 2023

Annex B: OIML-CS certificates registered with the BIML (1 January 2018 – 30 June 2021)



Annex C: Summary of OIML Issuing Authorities and their scope

		R 21:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 60:2000	R 60:2017	R 61:2004	R 61:2017	R 75:2002	R 76:1992	R 76:2006	R 85:2008	R 99:2008	R 106:2011	R 107:2007	R 117:1995	R 117:2007	R 117:2019	R 126:1998	R 129:2000	R 134:2006	R 137:2012	R 139:2014	R 139:2018	
AU1	National Measurement Institute Australia (NMIA)												■	■														
CH1	Federal Institute of Metrology (METAS)						■							■														
CN2	National Institute of Metrology, China (NIM)						■	■	■	■	■		■	■														
CZ1	Czech Metrology Institute (CMI)				■		■				■			■						■	■					■		
DE1	Physikalisch-Technische Bundesanstalt (PTB)				■		■	■	■	■		■		■														
DK2	FORCE Certification A/S				■	■	■	■	■	■	■			■			■	■					■	■	■			
FR2	Laboratoire National de Métrologie et d'Essais (LNE)			■	■		■	■	■					■								■						
GB1	NMO				■		■	■	■				■	■							■	■						
JP1	NMIJ/AIST							■	■				■	■						■	■	■						
NL1	NMi Certin B.V.	■	■	■	■	■	■	■	■	■	■		■	■	■			■	■	■	■		■	■	■	■	■	■
SE1	Research Institutes of Sweden (RISE)						■	■	■	■	■			■	■				■	■	■							
SK1	Slovak Legal Metrology (SLM)			■	■									■														

Status at 2021-07-13

Annex D: Summary of Test Laboratories and their scope

OIML IA	Test Laboratory	R 21:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 60:2000	R 60:2017	R 61:2004	R 61:2017	R 75:2002	R 76:1992	R 76:2006	R 85:2008	R 99:2008	R 106:2011	R 107:2007	R 117:1995	R 117:2007	R 117:2019	R 126:1998	R 129:2000	R 134:2006	R 137:2012	R 139:2014	R 139:2018	
AU1	National Measurement Institute Australia (NMIA)												■	■														
CH1	Federal Institute of Metrology (METAS)							■						■														
	Mettler Toledo													■														
	Sartorius													■														
CN2	National Institute of Metrology, China (NIM)						■	■	■	■	■		■	■														
	Beijing Institute of Metrology (BJIM)																											
	Shanghai Institute of Measurement and Testing Technology (SIMT)																											
	Zhejiang Province Institute of Metrology (ZJIM)																											
CZ1	CMI Testing Laboratory				■		■				■			■						■	■				■			
DE1	Physikalisch-Technische Bundesanstalt (PTB)						■	■	■	■		■		■														
	Bizerba													■														
	Endress + Hauser Flowtec AG				■																							
	Mettler Toledo													■														
	Sartorius													■														

Status at 2021-07-13

OIML IA	Test Laboratory	R 21:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 60:2000	R 60:2017	R 61:2004	R 61:2017	R 75:2002	R 76:1992	R 76:2006	R 85:2008	R 99:2008	R 106:2011	R 107:2007	R 117:1995	R 117:2007	R 117:2019	R 126:1998	R 129:2000	R 134:2006	R 137:2012	R 139:2014	R 139:2018	
DK2	FORCE (Brøndby)				■																							
	FORCE (Horsholm)				■	■	■	■	■	■	■			■			■	■					■	■	■			
	FORCE (Vejen)																									■		
	ESIT							■	■																			
FR2	Laboratoire National de Métrologie et d'Essais (LNE)						■	■	■					■								■						
	Contazara S.A.			■	■																							
GB1	NMO				■		■	■	■				■	■						■	■							
	AWTX							■																				
	Mey Marom				■																							
	Sartorius													■														
JP1	NMIJ/AIST						■	■					■	■				■	■	■								
NL1	NMi Certin B.V.	■	■	■	■	■	■	■	■	■	■		■	■	■			■	■	■	■	■	■	■	■	■	■	■
SE1	RISE						■	■	■	■	■			■	■				■	■	■							
SK1	Slovak Legal Metrology (SLM)			■	■									■														
	EVPU													■														

Status at 2021-07-13

Annex E: Summary of Utilizers and Associates

		R 21:2007	R 35:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 58:1998	R 59:2016	R 60:2000	R 60:2017	R 61:2004	R 61:2017	R 75:2002	R 76:1992	R 76:2006	R 81:1998	R 85:2008	R 88:1998	R 93:1999	R 99:2008	R 102:1992	R 104:1993	R 106:2011
AU	National Measurement Institute, Australia (NMI)				1	1					1					1	1								
BE	Federal Public Service Economy	3		3		3	3	3			1		3		3		1		3			3			3
CA	Measurement Canada										2	1			1		2								
CH	Federal Institute of Metrology (METAS)			1	2	2	1	1			2		1		1		2								1
CN	State Administration for Market Regulation (SAMR)							1			2	1	1	1		2	2								
CO	Superintendencia de Industria y Comercio (SIC)	3		3	4	4	3	3			2		3		3	2	2		3			3			3
CU	Oficina Nacional de Normalizacion (NC)	3	3	1		1	3	1	3	3	1	1	3	3	3	1	1	3	3	3	3	3	3	3	3
CZ	Czech Metrology Institute (CMI)					1		1						1			1								
DE	Physikalisch-Technische Bundesanstalt (PTB)	5		3	3	4	3	3			2		3		3		2					5			1
DK	FORCE Certification A/S				2	2	1	1			2	1	1	1			2								1
FR	Laboratoire National de Métrologie et d'Essais (LNE)	1		1	1	1	1	1			1		1		1	1	1		1			1			1
GB	NMO Certification	3			4	4	3	3			2		3			2	2		3						3
IN	Legal Metrology Division, Department of Consumer Affairs	3		3		4	3	3			2		3		3		2		3						1
IR	Iran National Standards Organization (INSO)				4	4					2	1				2	2								
JP	NMIJ/AIST										2	1				2	2								
KE	Weights and Measures Department		3	3	4	4		3			4	4	3	3		4	4		3						3
KH	National Metrology Centre (NMC)	3		3	3	3	3	3			1		3		3	1	1		3			3			3
KI	Ministry of Commerce, Industry and Cooperatives	5	5	5	1	1	5	1		5	1	1	5	5	5	1	1	5	5						5
KR	Korea Testing Certification (KTC)															2	2								
LV	LNMC Ltd. Metrology Bureau																								
NA	Namibian Standards Institution			3	4	4	3	3			2		3			2	2		3						3
NL	NMi Certin B.V.	3		3	3	4	3	3			2	1	3	3	3	1	2		3			3			3
NZ	Trading Standards (Ministry of Business, Innovation and Employment) (MBIE)				4	4	3	3			2					2	2		3						3
RU	VNIIMS																								
RW	Rwanda Standards Board	3	3	3	3	3		3	3	3	1	1	3	3		1	1					3	3	3	3
SA	SASO (Saudi Standards, Metrology and Quality Organization)			3		1						1					1								
SE	RISE Research Institutes of Sweden AB							3			2	1	3				2		3						
SK	Slovak Legal Metrology (SLM)				2	2											2								
TN	National Agency of Metrology (ANM)	3		3	2	2	3	3			2		3				2		3			3			3
UG	Uganda National Bureau of Standards (UNBS)			3	1	3					1	1				1	1								
US	National Conference on Weights and Measures (NCWM)										2														
ZA	NRCS: Legal Metrology				3	3		3			1					1	1		3						3
ZM	Zambia Metrology Agency	3		3	3	3	3	3			1		3		3	1	1		3			3			3

Status at 2021-07-13

1 = Scheme A only
 2 = Scheme A and MAA
 3 = Scheme A and B
 4 = Scheme A, B and MAA

5 = Scheme B only

		R 107:2007	R 110:1994	R 117:1995	R 117:2007	R 117:2019	R 122:1996	R 126:1998	R 128:2000	R 129:2000	R 129:2020	R 133:2002	R 134:2006	R 136:2004	R 137:2012	R 139:2014	R 139:2018	R 143:2009	R 144:2013	R 145:2015	R 146:2016	R 146:2020	R 149:2020	R 150:2020
AU	National Measurement Institute, Australia (NMI)																							
BE	Federal Public Service Economy	3			3					3					3	3								
CA	Measurement Canada																							
CH	Federal Institute of Metrology (METAS)	1						1	1			1	1											
CN	State Administration for Market Regulation (SAMR)																							
CO	Superintendencia de Industria y Comercio (SIC)	3		3	3			3	3			3		3	3									
CU	Oficina Nacional de Normalizacion (NC)	3	3		3		3	3	3	3		3	3	3	3	3	3	3	3	3	3			
CZ	Czech Metrology Institute (CMI)				1	1									1									
DE	Physikalisch-Technische Bundesanstalt (PTB)	3			3	1			3			1	5	3										
DK	FORCE Certification A/S	1			1	1			1	1		3		1										
FR	Laboratoire National de Métrologie et d'Essais (LNE)	1			1			1	1			1		1	1									
GB	NMO Certification	3		3	3				3			3												
IN	Legal Metrology Division, Department of Consumer Affairs	3			3				3			1	3	3										
IR	Iran National Standards Organization (INSO)																							
JP	NMIJAIST			1	1	1																		
KE	Weights and Measures Department			3	3			3				3	3	3	3	3								
KH	National Metrology Centre (NMC)	3		3	3			3	3			3	3	3										
KI	Ministry of Commerce, Industry and Cooperatives		5	1	1							5	5	5	5	5								
KR	Korea Testing Certification (KTC)																							
LV	LNMC Ltd. Metrology Bureau							3				3												
NA	Namibian Standards Institution	3		3	3			3	3			3												
NL	NMi Certin B.V.	3		3	3	1		3	3			3		3	3	3								
NZ	Trading Standards (Ministry of Business, Innovation and Employment) (MBIE)	3		3	3				3			3												
RU	VNIIMS			3	3																			
RW	Rwanda Standards Board		3	3	3		3	3	3		3	3	3				3	3			3			
SA	SASO (Saudi Standards, Metrology and Quality Organization)				3																			
SE	RISE Research Institutes of Sweden AB			3	3																			
SK	Slovak Legal Metrology (SLM)																							
TN	National Agency of Metrology (ANM)	3		3	3			3	3			3	3	3										
UG	Uganda National Bureau of Standards			1	1	1						3	3											
US	National Conference on Weights and Measures (NCWM)																							
ZA	NRCS: Legal Metrology	3		3	3			3	3			3	3	3										
ZM	Zambia Metrology Agency	3		3	3			3	3			3	3	3										

Status at 2021-07-13

Annex F: Summary of Management System Experts

1. Team Leaders validated by the OIML-CS Management Committee to lead Peer Assessments under the OIML-CS

Team Leader	Country	Peer Assessment Activity	
		Test Laboratory ISO/IEC 17025	OIML Issuing Authority ISO/IEC 17065
COUVREUR, Gulian	CH	✓	✓
STOLZ, Harry	DE	✓	✓
JENSEN, Hans Dalsgaard	DK	✓	
LORENTZEN, Erik Bruun	DK	✓	
AGARWAL, Ashutosh	IN	✓	
BAREL, André	NL	✓	
VERKUIL, Dick	NL	✓	✓
PREMUŠ, Aleksander	SI	✓	✓
KÄLLGREN, Håkan	SE	✓	✓
GLAS, Grégory	UK		✓
INCE, Ahmet	UK	✓	
TEN-BROEKE, Andrew	UK	✓	
AVILA, Luis Font	VE	✓	

2. Team Leaders nominated by ILAC/IAF Full Member Accreditation Bodies to lead Peer Assessments under the OIML-CS

Team Leader	Organisation	Peer Assessment Activity	
		Test Laboratory ISO/IEC 17025	OIML Issuing Authority ISO/IEC 17065
ALEXANDER, Helga	IAS	✓	
REZK, Mohamed Adel Ahmed	EGAC	✓	
AN, Ping	CNAS	✓	
DEL PILAR QUIJANO, Rocio	ONAC	✓	

Status at 2021-07-13

Annex G: Summary of Legal Metrology Experts

Expert Name	Country	OIML Recommendation																				Assessment Experience		
		R 16	R 21	R 46	R 49	R 50	R 51	R 60	R 61	R 75	R 76	R 85	R 99	R 106	R 107	R 117	R 126	R 129	R 134	R 137	R 139	ISO/IEC 17025	ISO/IEC 17065	
Yi Chen	AU					✓	✓	✓			✓												✓	
Mario Zamora	AU															✓								
Dirk Bits	BE														✓						✓		✓	
Juan Carlos Mateus Sanchez ¹	BR	✓	✓	✓							✓		✓			✓	✓						✓	
Luciano Bruno Faruolo	BR										✓									✓			✓	
Gulian Couvreur	CH						✓	✓	✓		✓			✓	✓					✓			✓	✓
Bernhard Niederhauser	CH																✓						✓	
Wang Jian	CN						✓				✓												✓	
Hu Manhong	CN					✓	✓		✓		✓					✓					✓			
Jiang Jile	CN							✓																
Shi Leibing	CN			✓																				
Yang Jing	CN															✓								
Yang Youtao	CN																					✓		
Zhong Ruilin	CN					✓	✓		✓		✓				✓					✓				
Zhou Shaoyuan	CN			✓																				

1 For EMC tests only

Status at 2021-07-13

Expert Name	Country	OIML Recommendation																			Assessment Experience			
		R 16	R 21	R 46	R 49	R 50	R 51	R 60	R 61	R 75	R 76	R 85	R 99	R 106	R 107	R 117	R 126	R 129	R 134	R 137	R 139	ISO/IEC 17025	ISO/IEC 17065	
Miroslava Benkova	CZ				✓											✓							✓	
Ivan Kriz	CZ					✓	✓			✓		✓			✓	✓				✓			✓	
Tomás Valenta	CZ																				✓		✓	✓
Timo Schwabe	DE						✓																	
Jürgen Rose	DE									✓													✓	✓
Jens Hovgård Jensen	DK					✓	✓			✓		✓				✓			✓	✓				
Christophe Brun	FR																✓					✓	✓	
Laetitia Delette	FR																	✓					✓	
Emeric Morel	FR				✓																		✓	
Luc Lopez ²	FR		✓				✓				✓	✓	✓				✓							✓
Reuven Perez	IL				✓																		✓	
Ashutosh Agarwal	IN				✓		✓					✓					✓						✓	
Lucio Zotti	IT				✓																		✓	✓
Nobuhiko Azami	JP								✓															
Tomohiro Nagano	JP											✓											✓	
Satoshi Otani	JP											✓											✓	
Takeshi Ito	JP																✓						✓	
Erik Beumer	NL				✓						✓		✓				✓						✓	
Marc Schmidt	NL																✓					✓	✓	
Marcel Cloo	NL			✓																			✓	
Paul van Rooij	NL				✓						✓		✓				✓					✓	✓	
Roy Scholten	NL						✓			✓		✓				✓				✓			✓	
Baris Yilmaz	NL						✓					✓							✓				✓	✓
Hans Boereboom	NL			✓																				
Paul Kok	NL		✓			✓	✓			✓		✓		✓			✓	✓	✓				✓	✓

2 Limited to assessments of OIML Issuing Authorities

Status at 2021-07-13

Expert Name	Country	OIML Recommendation																				Assessment Experience		
		R 16	R 21	R 46	R 49	R 50	R 51	R 60	R 61	R 75	R 76	R 85	R 99	R 106	R 107	R 117	R 126	R 129	R 134	R 137	R 139	ISO/IEC 17025	ISO/IEC 17065	
Carl Van Wijngaarden	NL																				✓		✓	
Aldemar Tjoa	NL			✓	✓		✓			✓	✓	✓				✓		✓			✓		✓	
Mathias Meijer	NL		✓					✓			✓												✓	✓
Yvo Vermeul	NL										✓											✓		
Srinivas Bobbala	NZ										✓					✓							✓	
Jaco Hattingh	NZ				✓						✓												✓	
Hakan Källgren	SE					✓	✓	✓	✓		✓			✓	✓								✓	✓
Matej Grum	SI					✓	✓		✓		✓			✓	✓								✓	✓
Aleksander Premuš	SI		✓	✓																			✓	✓
Bülent Aydemir	TR					✓	✓	✓	✓		✓			✓	✓						✓		✓	
Sevda Kaçmaz	TR					✓	✓	✓	✓		✓			✓	✓						✓		✓	
Marek Bokota	UK				✓											✓							✓	✓
Gregory Glas	UK		✓			✓	✓		✓		✓			✓	✓						✓		✓	✓
Ivor James	UK											✓									✓			
Wei Ji	UK		✓					✓			✓												✓	✓
Christine Munteanu	UK										✓					✓							✓	

Status at 2021-07-13