



Agenda item 9
OIML Certification System (OIML-CS)

Agenda item 9.1
Annual report to the CIML by the
OIML-CS Management Committee Chairperson (2019)

Contents

1. Report by the OIML-CS Management Committee (MC) Chairperson
2. Recommendations for CIML approval

Annexes

Annex A:	OIML-CS Certificates registered with the BIML
Annex B:	Summary of OIML Issuing Authorities and their scope
Annex C:	Summary of Test Laboratories and their scope
Annex D:	Summary of Utilizers and Associates
Annex E:	Summary of Management System Experts
Annex F:	Summary of Legal Metrology Experts



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

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

1.1.1 MC Membership

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

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		

* New member since March 2019

1.1.2 Meetings and Working Groups

The Second OIML-CS Management Committee (MC) Meeting was held on 20-21 March 2019 in Delft, Netherlands. Cock Oosterman (MC Chairperson) chaired the meeting and was attended by 42 participants representing 18 countries and five liaison organisations. Of the 22 voting members of the MC, 21 were represented either at the meeting or by proxy.

Some of the key items discussed at the meeting were:

- Approval of applications for OIML IAs, TLs and experts
- Application of ISO/IEC 17065 for the competence of OIML Issuing Authorities
- Assessment requirements for OIML IAs and TLs
- Certification mark on measuring instruments and limiting the validity of OIML-CS Certificates
- Promotion and awareness raising
- Review of OIML IA annual reports
- OIML scope and transition arrangements
- Use of test data from field-sites for issuing OIML-CS Certificates
- Topics raised by the MG (see below)
- Extension of the transition period for OIML IAs to use self-declaration

A meeting of the Review Committee (RC) was held in conjunction with the MC meeting and took place on 19 March 2019. Harry Stolz (RC Chairperson) chaired the meeting. Ten of the eleven RC members either present or represented by a proxy. Key items discussed at the meeting were:

- Membership, Terms of Reference and Rules of Procedure
- Voting rules
- Operation of the RC

**Addendum 9.1**

2019-07-08

- Information exchange on the reviews of applications
- Recommendations on the approval of applications for OIML IAs, TLs and experts

A meeting of the Maintenance Group (MG), which is responsible for the maintenance and revision of the OIML-CS documentation (B 18, OD-01, OD-02 and PD-01 to PD-08), was held in conjunction with the MC meeting and took place on 19 March 2019. The meeting was chaired by Bill Loizides (MG Chairperson) and was attended by 22 participants. Some of the key items discussed at the meeting were:

- Use of test data from field-sites
- Interpretation on the use of test reports by an OIML IA from a TL of another OIML IA
- MC participation in an amended review/revision process for OIML Recommendations
- Interpretation/clarification of OIML-CS documents

A meeting of the 17065 Working Group was held in conjunction with the MC meeting and took place on 19 March 2019. The meeting was chaired by Alex Winchester and was attended by 14 participants. An update on the activities of the Working Group were provided, and it was agreed that the Working Group would develop proposals on alternative approaches to ISO/IEC 17065 for consideration at the Third MC Meeting in 2020.

The R 60 Gap Analysis Working Group submitted a draft gap analysis document to the Second MC Meeting for consideration. Further work will be conducted by the Working Group to develop a gap analysis that can be used by OIML IAs, TLs and the Review Committee.

At the Second MC Meeting, two new Working Groups were established:

1. Promotion and Awareness Raising Working Group – responsible for identifying promotion and awareness raising activities and develop suitable materials to support these activities
2. Assessment Requirements Working Group – responsible for reviewing the assessment requirements and processes for OIML IAs and TLs

Note: The Third MC Meeting and associated events will be held in New Delhi, India during the week commencing 16 March 2020.

1.1.3 Changes to OIML-CS Documentation

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

There are no proposed changes to OIML B 18.

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

Proposed changes to the Operational Documents were detailed in the 2018 report. Following an electronic ballot, the MC approved Edition 2 of OD-01 and OD-02 and they were published in December 2018.

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

Proposed changes to the Procedural Documents were detailed in the 2018 report. Following an electronic ballot, the MC approved Edition 2 of PD-01 to PD-08 and they were published in December 2018.

1.1.3.4 Clarifications/Interpretations Document

The MC agreed to the development of a clarifications/interpretations document to enable decisions taken at MC meetings regarding the text in OIML-CS documents to be collated and published. After a period of time the information in the document will be incorporated into new editions of the OIML-CS documents,

1.2 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 the table below.

Measuring Instrument Category	Scheme and Transition Date					
	1/1/18	1/1/19	1/7/19	1/1/20	1/7/20	1/1/21
R 60 Load Cells	A	A	A	A	A	A
R 76 Non-Automatic Weighing Instruments	A	A	A	A	A	A
R 49 Water Meters	B	A	A	A	A	A
R 51 Automatic catchweighers	B	B	A	A	A	A
R 117 Liquids other than water	B	B	A	A	A	A
R 46 Active electrical energy meters	B	B	B	A	A	A
R 137 Gas meters	B	B	B	A	A	A
R 61 Automatic gravimetric filling instruments	B	B	B	B	A	A
R 85 Level gauges for stationary storage tanks	B	B	B	B	A	A
R 129 Multi-dimensional measuring instruments	B	B	B	B	A	A
R 21 Taximeters	B	B	B	B	B	A
R 50 Continuous totalizers	B	B	B	B	B	A
R 75 Heat meters	B	B	B	B	B	A
R 99 Vehicle exhaust emissions	B	B	B	B	B	A
R 106 Automatic rail-weighbridges	B	B	B	B	B	A
R 107 Discontinuous totalizers	B	B	B	B	B	A
R 126 Evidential breath analyzers	B	B	B	B	B	A
R 134 Weighing road vehicles in motion	B	B	B	B	B	A
R 139 Compressed gaseous fuel systems for vehicles	B	B	B	B	B	A
R 16 Sphygmomanometer	B	B	B	B	B	A
R 35 Material Measures of Length	B	B	B	B	B	A
R 58 Sound Level Meters	B	B	B	B	B	A
R 59 Moisture meters for cereal grains and oilseeds	B	B	B	B	B	A
R 81 Cryogenic Liquids	B	B	B	B	B	A
R 88 Integrating-averaging Sound Level Meters	B	B	B	B	B	A
R 93 Focimeters	B	B	B	B	B	A
R 102 Sound Calibrators	B	B	B	B	B	A
R 104 Pure-tone Audiometers	B	B	B	B	B	A
R 110 Pressure Balances	B	B	B	B	B	A

Addendum 9.1

2019-07-08

Measuring Instrument Category	Scheme and Transition Date					
	1/1/18	1/1/19	1/7/19	1/1/20	1/7/20	1/1/21
R 122 Speech Audiometry	B	B	B	B	B	A
R 128 Ergometers for foot crank work	B	B	B	B	B	A
R 133 Liquid-in-glass thermometers	B	B	B	B	B	A
R 136 Areas of Leather	B	B	B	B	B	A
R 143 Continuous measurement of SO ₂ in stationary source emissions	B	B	B	B	B	A
R 144 Continuous measurement of CO, NO _x in stationary source emissions	B	B	B	B	B	A
R 145 Ophthalmic instruments - Impression and applanation tonometers	B	B	B	B	B	A
R 146 Protein measuring instruments for cereal grains and oilseeds	B	B	B	B	B	A

There are no proposals to include additional instrument categories and their associated recommendations in the OIML-CS. In addition, there are no proposals to amend any transition dates.

1.3 Functioning of the OIML-CS

1.3.1 Number of OIML-CS Certificates issued

Information on the OIML-CS Certificates registered with the BIML is shown at Annex A.

1.3.2 Reasons for non-acceptance

Although there has been mention of OIML-CS Certificates not been accepted, the OIML-CS Executive Secretary has not been made aware of specific instances (with evidence) of non-acceptance of OIML-CS Certificates.

1.4 OIML Issuing Authorities and Test Laboratories

1.4.1 Approvals

Since the 53rd CIML Meeting, the following changes have taken place regarding OIML Issuing Authorities (IAs) and their associated Test Laboratories (TLs) approved under the OIML-CS (*status at 05 July 2019*):

OIML Issuing Authority	Change	Date
CMI (Czech Republic)	Addition of R 49:2013 and R 76:2006 under Scheme A	20 March 2019
FORCE (Denmark)	-	
LNE (France)	-	
METAS (Switzerland)	Addition of Sartorius MTL for R 76:2006 under Scheme A	20 March 2019
NIM (P.R. China)	-	
NMi (Netherlands)	Transition of R 49:2006 and R 49:2013 to Scheme A	16 January 2019
NMIA (Australia)	Addition of R 50:2014 under Scheme B	08 November 2018
NMIJ/AIST (Japan)	-	
NMO (United Kingdom)	-	
PTB (Germany)	Addition of Bizerba MTL for R 76:2006 under Scheme A	13 June 2018
RISE (Sweden)	Addition of R 60:2000, R 60:2017 and R 76:2006 under Scheme A	14 March 2019
SLM (Slovakia)	Transition of R 49:2006 and R 49:2013 to Scheme A	02 July 2019

A summary of the OIML IAs and their scopes can be found at Annex B and a summary of the TLs and their scopes can be found at Annex C.

This information is also provided on the OIML website at:

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

1.4.2 Rejections

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

1.4.3 Suspensions

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

1.4.4 Continuing compliance of OIML IAs and their Test Laboratories

In accordance with PD-03, OIML IAs need to demonstrate continued compliance with the requirements for participation in the OIML-CS. Consequently, each of the OIML IAs submitted an annual report on their activities. These annual reports were reviewed at the Second MC Meeting and the MC considered that each of the OIML IAs and their associated TLs fulfilled the requirements for continued participation.

1.5 Utilizers and Associates

There are now 29 Utilizers and Associates participating in the OIML-CS, an increase of six since the 53rd CIML Meeting. Since the 53rd CIML Meeting, the following changes have taken place regarding Utilizers and Associates participating in the OIML-CS (*status at 05 July 2019*):

Country	Change	Date
Australia	-	
Belgium	-	
Cambodia	-	
Canada	-	
Colombia	-	
Cuba	Addition of instrument categories	08 January 2019
Czech Republic	New Utilizer	26 March 2019
Denmark	-	
France	-	
Germany	-	
India	-	
Japan	-	
Kenya	New Utilizer	27 February 2019
Korea (R.)	-	
Latvia	-	
Namibia	-	
Netherlands	-	
New Zealand	-	
P.R. China	Change of Utilizer name from AQSIQ to SAMR	08 January 2019
Russian Federation	New Utilizer	05 March 2019
Saudi Arabia	New Utilizer	02 January 2019
Slovakia	Addition of R 49:2006 and R 49:2013	18 April 2019
South Africa	-	
Sweden	New Utilizer	28 June 2019
Switzerland	-	
Tunisia	New Utilizer	11 February 2019
United Kingdom	-	
United States	-	
Zambia	Addition of acceptance of Scheme B certificates	14 November 2018

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

Some Utilizer and Associates have specified Additional National Requirements (ANRs). Information on the ANRs for these organisations is available on the OIML website at:

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

1.6 Legal Metrology Experts and Management System Experts

1.6.1 Appointment of experts

Since the 53rd CIML Meeting, the RC 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 MC, either at the Second MC meeting in March 2019 or by electronic ballot. Applications continue to be received and these will be reviewed by the RC and approved by the MC on a continual basis.

At the beginning of 2019, ILAC circulated a call to its members for nominations for team leaders to participate in peer assessments of TLs, which resulted in the nomination of four Management System Experts. Initial discussions are taking place with ILAC regarding the provision of training for experts and work is taking place with ILAC on the development of a Joint OIML-IAF Assessment Procedure for OIML IAs.

A further call for nominations for additional Legal metrology Experts for the full range of instrument categories under the OIML-CS was circulated to CIML Members and Corresponding Member Representatives.

1.6.2 Status and scope of experts

A summary of the Management System Experts and Legal Metrology Experts that have been approved by the MC is shown at Annex E and Annex F respectively.

Note: The lists of experts are now published as ILAC/IAF/OIML experts.

1.7 Appeals

There have been no appeals against decisions of the MC.

1.8 Promotional activities

1.8.1 Seminars, workshops and awareness raising activities

Since the 53rd CIML Meeting, the following activities have been undertaken to promote and raise awareness of the OIML-CS:

- December 2018 - two-day seminar in Abuja, Nigeria. The seminar was organized and funded by UNIDO, and was attended by 20 delegates from the National Measurement Institute and Legal Metrology Department.
- April 2019 – presentation at MeteringChina in Wuxi, China. The OIML-CS was presented to a group of approx. 300 Chinese manufacturers of utility meters (partly in Chinese language).
- April 2019 – one-day workshop in Muscat, Oman. The workshop was held in conjunction with the GULFMET General Assembly and was attended by 20 delegates from Bahrain, Oman, Qatar, Saudi Arabia and UAE.
- April 2019 – update given at the WELMEC Committee meeting.
- April 2019 – update given at the COOMET meeting.
- May 2019 – half-day seminar in Bogota, Colombia. The OIML-CS was presented to SIC staff involved in the utilization of OIML certificates in Colombia, manufacturers in Colombia and other authorities from Colombia, Brazil and Argentina.
- July 2019 – presentation at InterWeighing exhibition in Shanghai, China.
- July 2019 – two and a half day seminar in Hangzhou, China. This event was organised by OIML/APLMF to promote the OIML-CS in the APLMF region.

The OIML-CS is also being promoted by some of the OIML Issuing Authorities during various other events.

1.8.2 OIML-CS webpages and promotional materials

The OIML-CS webpages on the OIML website can be found at:

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

Webpages provide stakeholders with access to all of the relevant information regarding the OIML-CS. The Promotion and Awareness Raising Working Group are developing a range of promotional materials that can be used by MC members and others when participating in events.

As part of the activity sponsored by UNIDO in Nigeria, an OIML-UNIDO Guidance Document on the OIML-CS has been developed and published at:

<https://www.oiml.org/en/oiml-cs/docs/oiml-unido-guidance-document-on-the-oiml-cs.pdf>

This document can be used by potential participants in the OIML-CS and describes the requirements for participation and the processes to follow.



1.9 Finances of the OIML-CS

Information on the expenditure associated with the development and implementation of the OIML-CS during 2018 and the income from OIML Certificate registration fees is provided under agenda item 6.1 of the 54th CIML Meeting.

1.10 Other activities

1.10.1 Liaison activities

The OIML-CS Executive Secretary has been working with IAF on the development of a Joint IAF-OIML Assessment Procedure to support the accreditation assessments of OIML Issuing Authorities under the OIML-CS. The document is currently being reviewed by the IAF with a view to being approved and published later in 2019.

Following the decision taken at the 53rd CIML Meeting, a Joint OIML-IECEX Working Group (JWG) has been established. As part of the activities of the JWG, the IECEX Executive Secretary provided information to the Second MC Meeting (via video link) on the IECEX processes and procedures for evaluating their certification bodies and test laboratories. It is anticipated that the activities of the JWG will support the work of the Assessment Requirements Working Group.

1.10.2 Revision of OIML D 30

At the 53rd CIML Meeting, the CIML approved the recommendation to move responsibility for OIML D 30 to the MC. A Working Group under the MC has been established to undertake the revision of OIML D 30 (formerly under TC 3/SC 5/p 12). A 1CD has been circulated to the Working Group for comment, and it is planned to submit a Final Draft revision of D 30 for approval at the 55th CIML Meeting in October 2020.

1.11 Other items

1.11.1 Extension of the transition period for OIML IAs to use self-declaration for Scheme A

As mentioned above, the 17065 Working Group will develop proposals on alternative approaches to ISO/IEC 17065 for consideration by the MC at its next meeting in March 2020. If the MC accepts the proposals on alternative approaches, the OIML-CS documentation will need to be updated to implement them. OIML IAs will then require time to adapt their systems if they wish to align with the alternative approaches.

Therefore, to give the OIML IAs the opportunity to implement the requirements of ISO/IEC 17065 or alternative approaches, the MC agreed to extend the transition period for OIML IAs to use self-declaration by an additional two years until the end of 2022.



1.11.2 Timescales for developing revisions of Recommendations

The success of the OIML-CS depends on the availability of internationally recognized OIML Recommendations. Participants in the OIML-CS must rely on Recommendations that meet the current technical standards, so it is important that revisions to Recommendations are completed in a timely manner. The MC has agreed to participate in the periodic review process for Recommendations, and the MC will assist in the identification of needs, requirements and priorities for revision of Recommendations.

1.11.3 Certification mark for measuring instruments

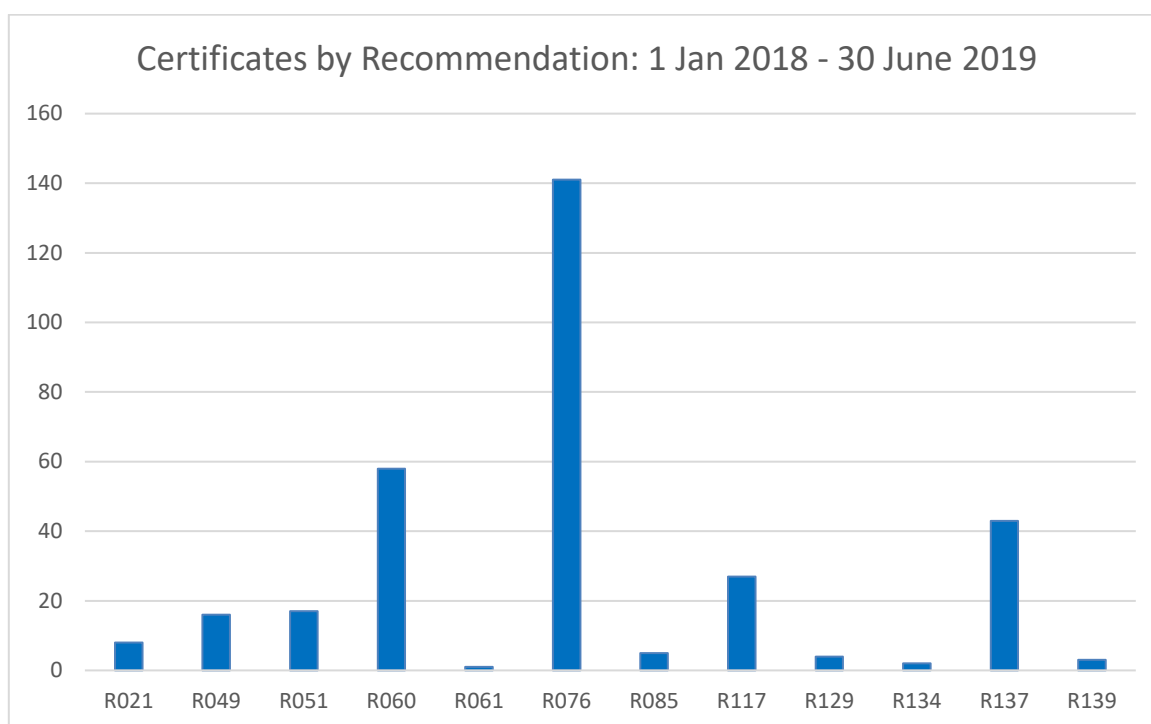
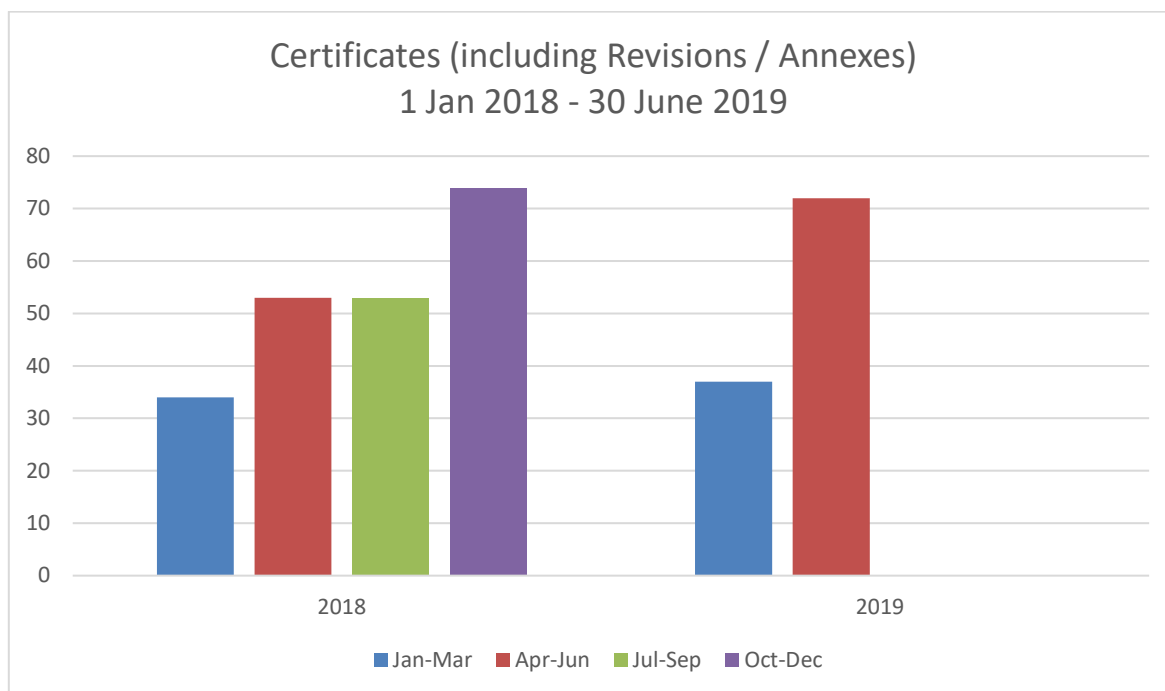
Following a proposal to implement a certification (conformity) mark for measuring instruments, the MC considered that this is linked with the implementation of a Conformity to Type (CTT) system in the OIML-CS. The MC asked the 17065 Working Group to consider the impact of the possible inclusion of Conformity to Type (CTT) in the future, and so the implementation of a certification mark should be put on hold for the time being.

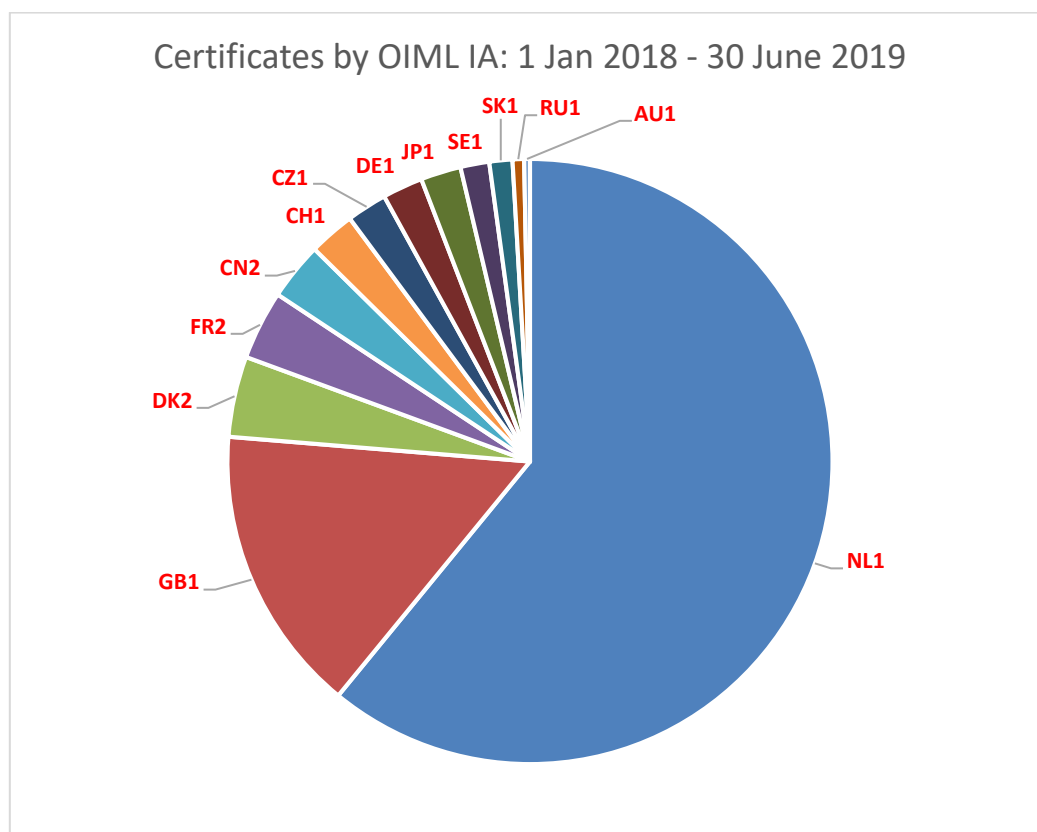
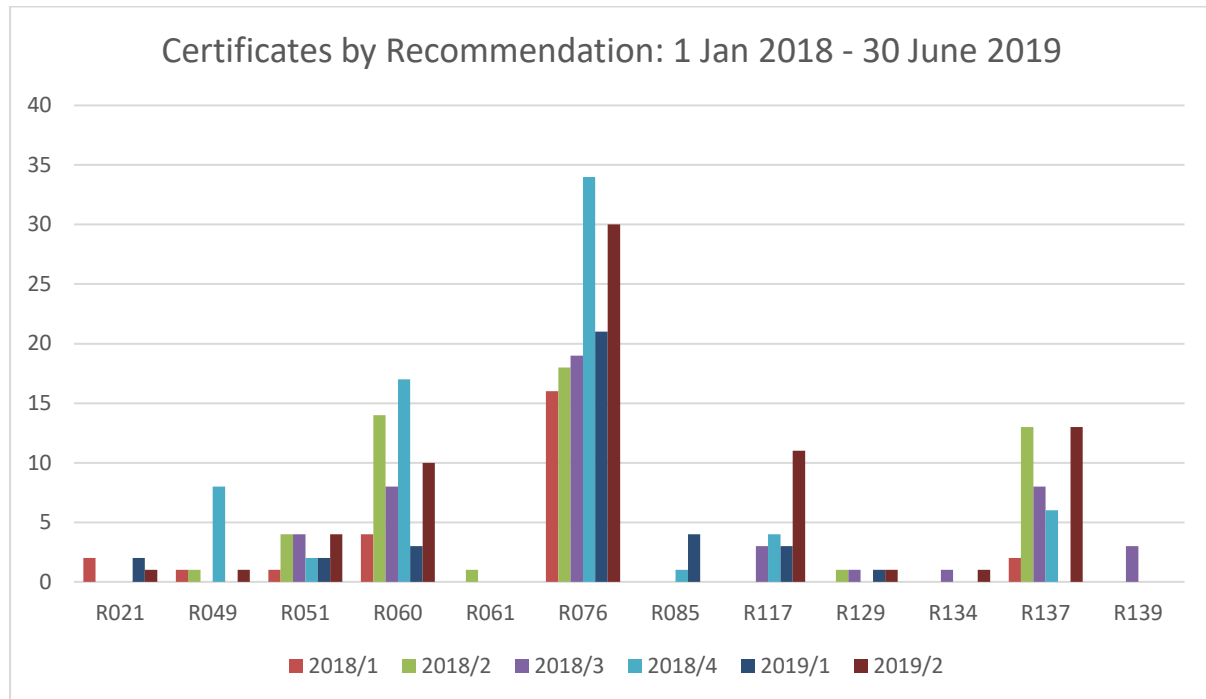
2 MC Recommendations for CIML approval

There are no recommendations from the MC for approval at the 54th CIML Meeting.

Annexes

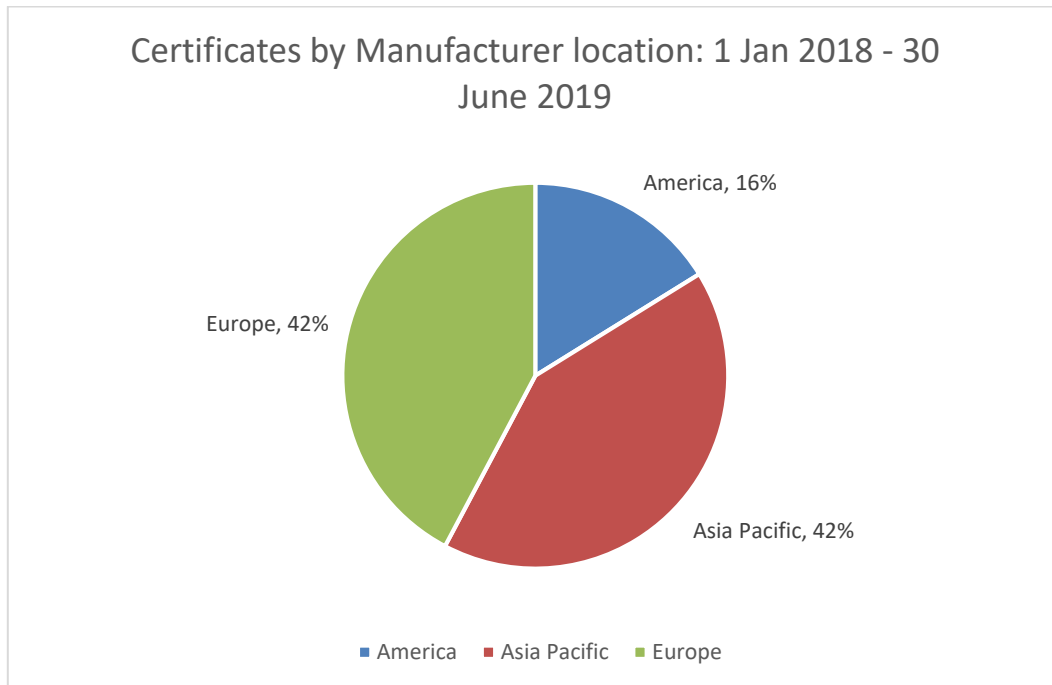
Annex A: OIML-CS Certificates registered with the BIML





Addendum 9.1

2019-07-08



Annex B: 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 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 2019-07-08

Annex C: 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 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	■	■		■	■				■		■		■	■		■	■			■			■	■	
	Czech Metrology Institute (CMI)				■							■		■	■									■	■	
DE1	Physikalisch-Technische Bundesanstalt (PTB)							■				■		■												
	Bizerba													■												
	Mettler Toledo													■												
	Sartorius													■												

Status at 2019-07-08

Addendum 9.1

2019-07-08

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 126:1998	R 129:2000	R 134:2006	R 137:2012	R 139:2014	R 139:2018
DK2	FORCE (Brøndby)																									
	FORCE (Hørsholm)					■				■				■			■	■				■	■			
	FORCE (Vejen)																							■		
FR2	Laboratoire National de Métrologie et d'Essais (LNE)					■		■						■							■					
	ITRON																									
GB1	NMO	■				■		■		■			■	■	■		■	■				■	■			
	AWTX							■						■												
	NSF																									
	Sartorius													■												
JP1	NMIJ/AIST							■					■	■												
NL1	NM Certin B.V.	■	■	■	■	■		■		■		■	■	■	■	■	■	■			■	■	■	■	■	
SE1	RISE							■	■	■				■	■											
SK1	Slovak Legal Metrology (SLM)			■	■									■												
	EVPU													■												

Status at 2019-07-08



Addendum 9.1

2019-07-08

Annex D: Summary of Utilizers and Associates

		R 16:2002	R 21:2007	R 35:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 61:2006	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
1 = Scheme A only																						
2 = Scheme A and MAA																						
3 = Scheme A and B																						
4 = Scheme A, B and MAA																						
AU	National Measurement Institute, Australia (NMI)					2						2					2	2				
BE	Federal Public Service Economy		3		3		3	3	3			1		3		3		1		3		
CA	Measurement Canada											2				1		2				
CH	Federal Institute of Metrology (METAS)				1	2	2	1	1			2		1		1		2				
CN	State Administration for Market Regulation (SAMR)											2					2	2				
CO	Superintendencia de Industria y Comercio (SIC)		3		3	4	4	3	3			2		3		3	2	2		3		
CU	Oficina Nacional de Normalización (NC)	3	3	3	1		1	3	1	3	3	1	1	3	3	3		1	3	3	3	3
CZ	Czech Metrology Institute (CMI)						1											1				
DE	Physikalisch-Technische Bundesanstalt (PTB)					4	3	3				2		3		3		2		3		
DK	FORCE Certification A/S					2	2	1	1			2		1			2	2				
FR	Laboratoire National de Métrologie et d'Essais (LNE)		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		
IN	Legal Metrology Division, Department of Consumer Affairs		3		3		4	3	3			2		3		3		2		3		
JP	National Metrology Institute of Japan / National Institute of Advanced Industrial Science and Technology (NMIJ/AIST)											2					2	2				
KE	Weights and Measures Department			3	3	4	4		3			4	4	3	3		4	4		3		
KH	National Metrology Centre (NMC)		3		3	3	3	3	3			1		3		3	1	1		3		
KR	Korea Testing Certification (KTC)																2	2				
LV	LNMC Ltd. Metrology Bureau																					
NA	Namibian Standards Institution				3	4	4	3	3			2		3			4	4		3		
NL	NMI Certin B.V.		3		3	3	4	3	3			2		3		3	1	2		3		
NZ	Trading Standards (Ministry of Business, Innovation and Employment) (MBIE)					4	4	3	3			2					2	2		3		
RU	VNIIMS																					
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				
TN	National Agency of Metrology (ANM)		3		3	2	2	3	3			2		3			2	2		3		
US	National Conference on Weights and Measures (NCWM)											2										
ZA	NRCS: Legal Metrology					3	3		3			1					1	1		3		
ZM	Zambia Metrology Agency		3		3	3	3	3	3			1		3		3	1	1		3		

Status at 2019-07-08



Addendum 9.1

2019-07-08

		R 99:2008	R 102:1992	R 104:1993	R 106:2011	R 107:2007	R 110:1994	R 117:1995	R 117:2007	R 122:1996	R 126:1998	R 128:2000	R 129:2000	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
1 = Scheme A only																							
2 = Scheme A and MAA																							
3 = Scheme A and B																							
4 = Scheme A, B and MAA																							
AU	National Measurement Institute, Australia (NMI)																						
BE	Federal Public Service Economy	3			3	3			3				3				3	3					
CA	Measurement Canada																						
CH	Federal Institute of Metrology (METAS)				1	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		3	3					
CU	Oficina Nacional de Normalización (NC)	3	3	3	3	3	3		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CZ	Czech Metrology Institute (CMI)																						
DE	Physikalisch-Technische Bundesanstalt (PTB)				1	3			3				3		1			3					
DK	FORCE Certification A/S				1	1							1		3								
FR	Laboratoire National de Métrologie et d'Essais (LNE)	1			1	1			1		1		1		1		1	1					
GB	NMO Certification				3	3		3	3				3		3								
IN	Legal Metrology Division, Department of Consumer Affairs				1	3			3				3		1		3	3					
JP	National Metrology Institute of Japan / National Institute of Advanced Industrial Science and Technology (NMIJ/AIST)																						
KE	Weights and Measures Department				3			3	3		3				3	3	3	3	3				
KH	National Metrology Centre (NMC)	3			3	3		3	3		3		3		3		3	3					
KR	Korea Testing Certification (KTC)																						
LV	LNMC Ltd. Metrology Bureau										3				3								
NA	Namibian Standards Institution				3	3		3	3		3		3		3								
NL	NMI Certin B.V.	3			3	3		3	3		3		3		3		3	3					
NZ	Trading Standards (Ministry of Business, Innovation and Employment) (MBIE)				3	3		3	3				3		3								
RU	VNIIMS							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		3	3					
US	National Conference on Weights and Measures (NCWM)																						
ZA	NRCS: Legal Metrology				3	3		3	3		3		3		3		3	3					
ZM	Zambia Metrology Agency	3			3	3		3	3		3		3		3		3	3					

Status at 2019-07-08

Annex E: Summary of Management System Experts



OIML Certification System (OIML-CS) Implementation Accreditation in Legal Metrology

Management System Experts – Team Leaders (Lead Assessors)

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	✓	
VERBEEK, Jos	NL	✓	
BAREL, André	NL	✓	
VERKUIL, Dick	NL	✓	✓
PREMUŠ, Aleksander	SI	✓	✓
KÄLLGREN, Håkan	SE	✓	✓

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 2019-07-08



Addendum 9.1

2019-07-08

Annex F: Summary of Legal Metrology Experts



OIML Certification System (OIML-CS) Implementation Accreditation in Legal Metrology

Legal Metrology Experts

Legal Metrology Experts validated by the OIML-CS Management Committee to participate in Accreditation and Peer Assessments under the OIML-CS

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
Petra Milota	AT				✓																	✓	✓
Yi Chen	AU					✓	✓	✓			✓											✓	
Mario Zamora	AU															✓							
Dirk Bils	BE														✓						✓	✓	
Gulian Couvreur	CH						✓	✓	✓		✓			✓	✓				✓			✓	✓
Juan Carlos Mateus Sanchez	BR	✓	✓	✓							✓		✓			✓	✓					✓	
Luciano Bruno Faruolo	BR										✓								✓			✓	
Wang Jian	CN						✓				✓											✓	
Hu Manhong	CN					✓	✓		✓		✓				✓				✓				
Jiang Jile	CN							✓															
Shi Leibing	CN			✓																			
Yang Jing	CN															✓							
Yang Youtao	CN																			✓			
Zhong Ruilin	CN					✓	✓		✓		✓				✓				✓				
Zhou Shaoyuan	CN			✓																			

Status at 2019-07-08



Addendum 9.1

2019-07-08

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																			✓		✓	✓
Jakub Vacula	CZ															✓						✓	
Timo Schwabe	DE						✓																
Christophe Brun	FR															✓					✓	✓	
Denis Vogel	FR					✓	✓	✓	✓		✓				✓							✓	
Emeric Morel	FR				✓																	✓	
Luc Lopez*	FR		✓				✓			✓	✓	✓				✓							✓
Reuven Perez	IL				✓																	✓	
Ashutosh Agarwal	IN				✓		✓				✓					✓						✓	
Luico Zotti	IT				✓																	✓	✓
Nobuhiko Azami	JP							✓															
Shinsuke Mikura	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		✓			✓	✓		✓		✓		✓		✓		✓	✓	✓			✓	✓
Carl Van Wijngaarden	NL																			✓		✓	
Aldemar Tjoa	NL			✓	✓		✓				✓					✓		✓		✓		✓	
Mathias Meijer	NL		✓					✓			✓											✓	✓

* limited to assessments of OIML Issuing Authorities

Status at 2019-07-08



Addendum 9.1

2019-07-08

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
Yvo Vermeul	NL										✓									✓			
Srinivas Bobbala	NZ										✓					✓						✓	
Hakan Källgren	SE					✓	✓	✓	✓		✓			✓	✓							✓	✓
Matej Grum	SI					✓	✓		✓		✓			✓	✓							✓	✓
Aleksander Premuš	SI		✓	✓																		✓	✓
Bülent Aydemir	TR					✓	✓	✓	✓		✓			✓	✓				✓			✓	
Sevda Kaçmaz	TR					✓	✓	✓	✓		✓			✓	✓				✓			✓	
Marek Bokota	UK				✓																	✓	✓
Wei Ji	UK							✓														✓	✓
Gregory Glas	UK		✓				✓				✓											✓	✓
Jaco Hattingh	ZA				✓						✓											✓	

Status at 2019-07-08