





# OIML Certification System (OIML-CS)

### 25<sup>th</sup> APLMF Meeting in Christchurch November 2018

Somewhat Modified Report of the OIML-CS Management Committee Chairperson, Cock Oosterman At the 53rd CIML Meeting in Hamburg, Germany, Oct 2018







### **OIML-CS Objectives and Benefits**

#### **Objectives:**

- to promote the global harmonization, uniform interpretation and implementation of legal metrological requirements for measuring instruments;
- to establish rules and procedures for fostering mutual confidence among participating OIML Member States and Corresponding Members;
- to avoid unnecessary re-testing when obtaining national type evaluations and approvals; and
- to enhance and maintain confidence in the results of type testing and evaluation in support the global trade in measuring instruments and the commodities which they measure.









### **OIML-CS Objectives and Benefits**

#### **Manufacturers**

- Reduced costs and delays for type approval in different countries
- Avoidance of duplication of type approval tests and shorter time to market

#### **National Metrology Authorities**

- Acceptance of certificates at an international level
- Supports national type approval where test facilities are limited
- Confidence in the test results, evaluation reports and certification

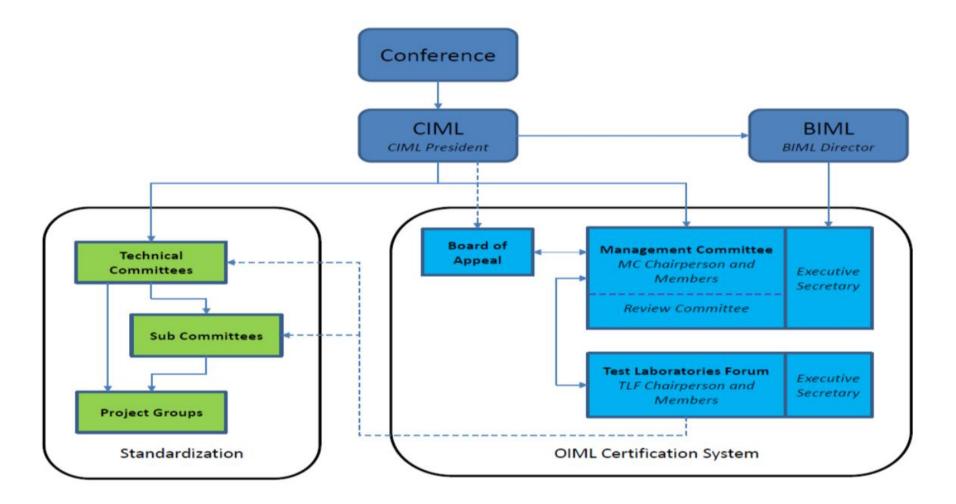








### **OIML-CS Structure**









### Meetings

Management Committee (MC) was held on 21-22 March 2018 in Sydney, Australia. The meeting was chaired by Cock Oosterman and was attended by 41 participants. All 21 of the voting members were represented and representatives from ILAC, IAF, IEC, CECIP, CECOD, SIM and WELMEC.

<u>Review Committee</u> (RC) meeting was held in conjunction with the MC meeting. The meeting was chaired by Harry Stolz (RC chairperson) and was attended by 8 of the 11 RC members.

Maintenance Group (MG) meeting was held in conjunction with the MC meeting. The meeting was chaired by Bill Loizides (MG Chairperson) and was attended by 15 participants.















### **Review Committee**

Key items discussed at the meeting were:

- Membership, Terms of Reference and Rules of Procedure
- Voting rules
- Operation of the RC
- Information exchange on the reviews of applications
- Proposals for changes/improvements to the OIML-CS documentation















### **Maintenance Group**

Key items discussed at the meeting were:

- Conditions on the approval of experts
- Transition periods from Scheme B to Scheme A
- Use of 'old' test data
- Use/application of ISO/IEC 17065
- Modular approach
- Review of recommendations from the Review Committee meeting















### **Management Committee**

Key items discussed at the meeting were:

- Approval of experts (eliminating audit experiences when participate in a audit team).
- Transition arrangements, including transition periods from Scheme B to Scheme A.
- Use of "old" test data for issuing OIML-CS Certificates.
- Application of ISO/IEC 17065 for the competence of OIML Issuing Authorities.
- Improvements to the OIML-CS documentation.















- Inclusion of additional categories of measuring instrument and their respective OIML Recommendations in the OIML-CS
- OIML Recommendations to have separate type evaluation report and test report formats
- Comparison table ("Gap analysis") to be developed for revised OIML Recommendations















### Working groups

- R 60 Working Group responsible for developing a comparison table ("gap analysis") between R 60:2017 and R 60:2000
- 2. 17065 Working Group responsible for reviewing the application of ISO/IEC 17065 and identification of possible alternative routes for OIML IAs to demonstrate competence















#### Organisation Internationale de Métrologie Légale

International Organization of Legal Metrology



#### **OIML Certification System (OIML-CS)**

ramework Document

OIML B 18:2016 - Framework for the OIML Certification System (OIML-CS)

Operational Documents

**OD-01: Management Committee** 

**OD-02: Test Laboratories Forum** 

Procedural Documents PD-01: Appeals, Resolution of Complaints and Disputes PD-02: Approval of Experts

PD-03: Issuing Authorities, Utilizers and Associates PD-04: Approval of Test Laboratories

PD-05: Issuing, Registering and Modifying Certificates

PD-06: Use of OIML Type Evaluation Reports and OIML Certificate PD-07: Transition Arrangements under the OIML-CS PD-08: Signing the Declaration

Templets, Forms and Guidance MC Annual Report Application to be a LM expert Application to be a QMS expert Application to be an Issuing Authority (IA)

IA Letter of Acceptance IA Peer Assessment Report IA Extension to Scope IA Annual Report

OIML Certificate

Application to be a Test Laboratory TL Letter of Acceptance Application to be Utilizer/ Associate Utilizer/ Associate Letter of Acceptance

Additional National Requirements TL Peer Assessment Report

TL Extension to Scope

OIML-CS Declaration







### **Changes to OIML-CS Documentation**

#### Changes to OIML B 18 ... approved in Hamburg



- Clarification of representation on the MC (vote/observers)
- Improvement of wording regarding inclusion of revised editions of OIML Recommendations
- Clarification that if an IA is recognized under scheme A, the OIML Member state does not need to designate a Utilizer if this instrument is not regulated in that country















#### Changes to OD-01 and OD-02



- Clarification that RC members can contribute to the recommendation on an application of their country / cannot contribute in which they have participates in the assessment
- Documenting the MG as a permanent WG of the MC
- Including the concept of proxies for the RC meetings
- Removal of the requirement for the LME on assessment experiences















#### Changes to PD-01 to PD-08

- General: Editorial and update terminology with B 18
- PD-02: LME scope and restrictions
- PD-03: Assessment team competence requirements and removal of superfluous clauses for the approval of UT/AS
- PD-04: Update with ISO/IEC 17025:2017
- PD-07: using "old" data under scheme A and extension of the transition period for IA to demonstrate compliance with ISO/IEC 17065







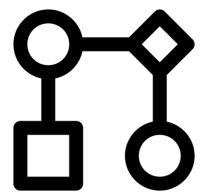


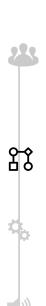






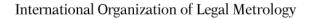
### Categories of measuring instruments and respective Scheme



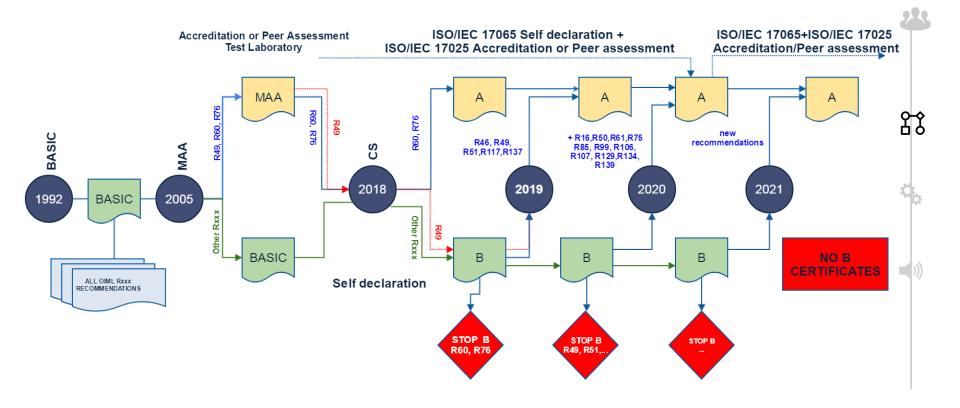


















Due to the limited availability of experts for the assessment of OIML Issuing Authorities and Test Laboratories the MC propose to extend a number of the transition periods as follows:



R 51 and R 117 will transition from Scheme B to Scheme A on 1 July 2019

R 46 and R 137 will transition from Scheme B to Scheme A on 1 January 2020

R 61, R 85 and R 129 will transition from Scheme B to Scheme A on 1 July 2020

R 21, R 50, R 75, R 99, R 106, R 107, R 126, R 134 and R 139 will transition from Scheme B to Scheme A on 1 January 2021.















In addition, a number of OIML Recommendations have been identified for automatic inclusion in the OIML-CS. It is proposed that

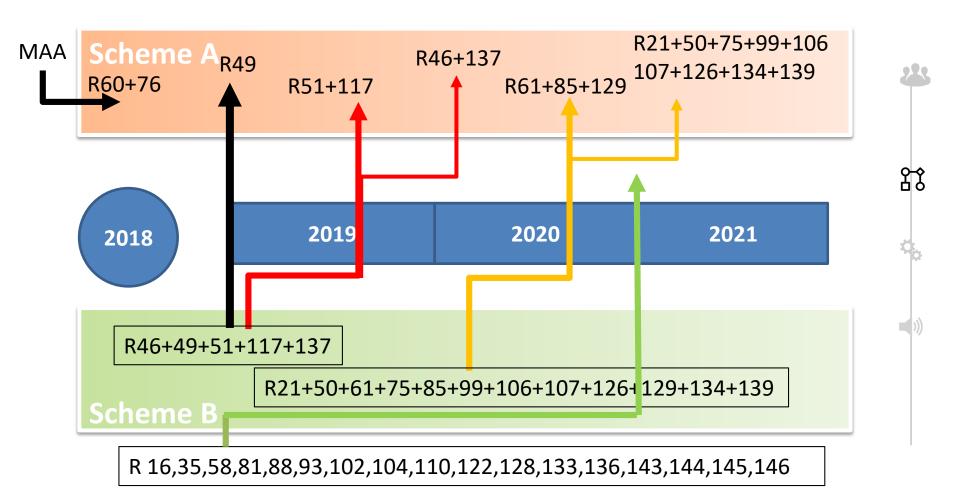
R 16, R 35, R 58, R 81, R 88, R 93, R 102, R 104, R 110, R 122, R 128, R 133, R 136\*, R 143, R 144, R 145 and R 146 enter the OIML-CS in Scheme B on 1 January 2019 and transition to Scheme A on 1 January 2021.

<sup>\*</sup>No certificates issued for these recommendation except one for R136 in 2009















### Functioning of the OIML-CS

- The MC approved 12 OIML Issuing Authorities
- The MC approved 25 Test Laboratories, including Manufacturer Test Laboratories
- No rejections of applications for OIML Issuing Authority or Test Laboratory
- No suspensions on any OIML Issuing Authority or Test Laboratory
- No appeals to the decisions of the MC
- Certificates are issued from 2 January 2018









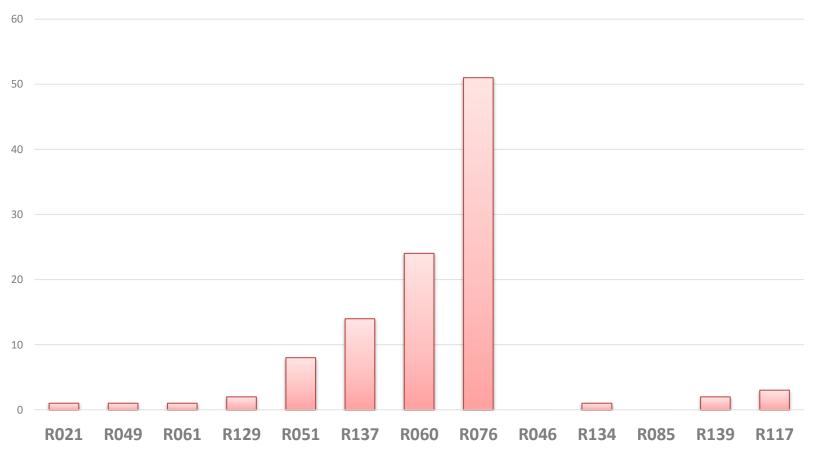






### **Certificates**

Jan 1 to Oct 1

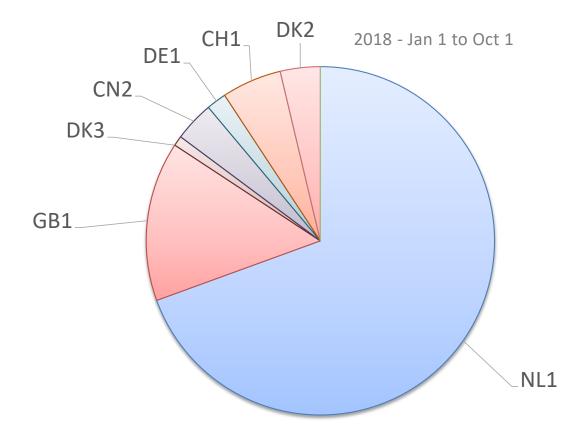








### **Certificates Issued**









### **OIML** Issuing Authorities

		R 21:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 60:2000	R 61:2004	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
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)			•	•							•											







### **Utilizers and Associates**

2 = Sc 3 = Sc	1 = Scheme A only 2 = Scheme A and MAA 3 = Scheme A and B 4 = Scheme A, B and MAA		R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 60:2000	R 61:2004	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
AU	National Measurement Institute, Australia (NMIA)				2			2			2	2											
BE	Federal Public Service Economy	3	3		3	3	3	1	3	3		1	3	3	3	3		3		3		3	3
CA	Measurement Canada							2		1		2											
СН	Federal Institute of Metrology (METAS)		1	2	2	1	1	2	1	1		2			1	1			1	1	1	1	
CN	National Institute of Metrology, China (NIM)							2			2	2											
co	Superintendencia de Industria y Comercio (SIC)	3	3	4	4	3	3	2	3	3	2	2	3	3	3	3	3	3	3	3	3	3	3
CU	National Bureau of Standardization (NBS)	3	3	3	3	3	3	2	3	3	2	2	3	3	3	3	3	3	3	3	3	3	3
DE	Physikalisch-Technische Bundesanstalt (PTB)				4	3	3	2	3	3		2	3		1	3		3		3	1		3
DK	FORCE Certification A/S			2	2	1	1	2	1		2	2			1	1				1	3		
FR	Laboratoire National de Métrologie et d'Essais (LNE)	1	1	1	1	1	1	1	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	3	3	3		3	3		
IN	Legal Metrology Division, Department of Consumer Affairs	3	3		4	3	3	2	3	3		2	3		1	3		3		3	1	3	3
JP	National Metrology Institute of Japan / National Institute of Advanced Industrial Science and Technology (NMIJ/AIST)							2			2	2											
KH	National Metrology Centre (NMC)	3	3	3	3	3	3	1	3	3	1	1	3	3	3	3	3	3	3	3	3	3	3
KR	Korea Testing Certification (KTC)										2	2											
LV	LNMC Ltd. Metrology Bureau																		3		3		
NA	NA Namibian Standards Institution		3	4	4	3	3	2	3		4	4	3		3	3	3	3	3	3	3		





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1 = Scheme A only 2 = Scheme A and MAA 3 = Scheme A and B 4 = Scheme A, B and MAA		R 21:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 60:2000	R 61:2004	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
NL	NMi Certin B.V.	3	3	3	4	3	3	2	3	3	1	2	3	3	3	3	3	3	3	3	3	3	3
NZ	Trading Standards (Ministry of Business, Innovation and Employment) (MBIE)			4	4	3	3	2			2	2	3		3	3	3	3		3	3		
SK	Slovak Legal Metrology (SLM)											2											
US	National Conference on Weights and Measures (NCWM)							2															
ZA	NRCS: Legal Metrology			3	3		3	1			1	1	3		3	3	3	3	3	3	3	3	3
ZM	Zambia Metrology Agency	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1







### **Legal Metrology Experts**

- The RC has reviewed and made positive recommendations on the approval of eight Management System Experts and over sixty Legal Metrology Experts. The applications have been approved by the MC
- Work is being undertaken with ILAC and IAF to publish the list of approved experts as ILAC/IAF/OIML experts.







### **Seminars**

- OIML prMC meeting in Shanghai, China in June 2017
- CIML meeting in Cartagena, Colombia in October 2017
- AFRIMETS Nairobi, Kenya in November 2017
- WELMEC in EU January 2018
- OIML MC meeting Sydney, Australia in March 2018
- NIM in JingDeZhen, China in March 2018
- COOMET Moscow, Russia in May 2018
- CECIP General Assembly in EU in June 2018
- AFRIMETS Enugu, Nigeria in July 2018
- NoBoMet in Asti, Italy in September 2018







### Website

About → I	Publications 🕶	Structure →	OIML-CS ▼	Events +	TC/SC/PG →
► General information		Transition arrangen	nents	Structure of the Ol	ML-CS
→ Documentation		<ul> <li>Application forms</li> </ul>		Categories of mea	suring instruments
→ OIML Issuing Authorities		<ul> <li>Utilizers and Associ</li> </ul>	ates	▶ Info for manufactu	rers
> CMI (Czech Republic) > FORCE (Denmark) > LNE (France) > METAS (Switzerland) > NIM (P.R. China) > NMI (Netherlands) > NMIA (Australia) > NMIJ/AIST (Japan) > NMO (United Kingdom) > PTB (Germany) > RISE (Sweden) > SLM (Slovakia)  > Calendar	cates	> Australia > Belgium > Cambodia > Canada > Colombia > Cuba > Denmark > France > Germany > India > Japan > Korea (R.) > Latvia > Namibia > Netherlands > New Zealand > P.R. China > Slovakia > South Africa > Switzerland > United Kingdom > United States > Zambia		• Appeals, complain	ts 8 disputes
		▶ Contact			





Display all

CUBA

**CYPRUS** 

**DENMARK** 

**EGYPT** 

**FINLAND** 

**FRANCE** 

CZECH REPUBLIC



#### Organisation Internationale de Métrologie Légale

#### International Organization of Legal Metrology



#### **OIML Member States (62)**

#### GERMANY **ALBANIA** ALGERIA **GREECE** AUSTRALIA HUNGARY INDIA **AUSTRIA BELARUS** INDONESIA **BELGIUM IRAN BRAZIL IRELAND BULGARIA ISRAEL** CAMBODIA ITALY **JAPAN** CAMEROON CANADA KAZAKHSTAN COLOMBIA KENYA CROATIA KOREA (R.)

MACEDONIA (F.Y.R.)

MONACO

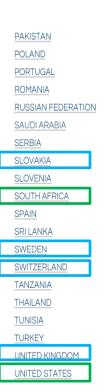
MOROCCO

**NETHERLANDS** 

**NEW ZEALAND** 

NORWAY

P.R. CHINA



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#### **ANGOLA** HONG KONG **ARGENTINA ICELAND AZERBAIJAN IRAQ BAHRAIN JORDAN** BANGLADESH **KIRIBATI BARBADOS** KOREA (D.P.R.) **BOLIVIA KUWAIT** LATVIA **BOSNIA AND** HERZEGOVINA **LIBERIA** BOTSWANA LIBYA **CHINESE TAIPEI** LITHUANIA COSTA RICA LUXEMBURG DOMINICAN REPUBLIC MADAGASCAR **ECUADOR** MALAWI **ESTONIA** MALAYSIA FIJI MALTA **GEORGIA MAURITIUS GHANA** MEXICO **GUATEMALA** MOLDOVA **GUINEA** MONGOLIA

**OIML Corresponding Members (65)** 

MONTENEGRO
MOZAMBIQUE
NAMIBIA
NEPAL
NIGERIA
OMAN
PANAMA
PAPUA NEW GUINEA
PARAGUAY
PERU
PHILIPPINES
QATAR
RWANDA
SEYCHELLES
SIERRA LEONE
SINGAPORE
SUDAN
SYRIAN ARAB
REPUBLIC
TRINIDAD AND
TOBAGO

**UEMOA** 

UGANDA
UKRAINE
UNITED ARAB
EMIRATES
URUGUAY
UZBEKISTAN
ZIMBABWE

- \_\_\_\_ ISSUING AUTHORITY (12 out of 62 = 19 %)
- UTILIZER (21 out of 62 = 34 %)
- ASSOCIATE (2 out of 65 = 3 %)







### Other activities

- Liaison with ILAC and IAF on the development of Joint Assessment Procedures to support the accreditation assessments of Test Laboratories and Issuing Authorities.
- MC agreed on the proposal to move OIML D29, D30 and Dxx Guide of the application of ISO/IEC 17065 to the assessment of the certification bodies in legal metrology to the OIML-CS MC. A recommendation to the CIML is under agenda item 11.2.3
- Structure of OIML Recommendations







#### The OIML-CS needs the support of the CIML to:

- Update the OIML Recommendations to the current status of technology.
- Participation of the OIML Member States and Corresponding Members in the OIML-CS.









### **Conclusion**

- The OIML-CS is operational from 1 January 2018 and functioning. Certificates are issued.
- Experts are available to perform assessments which enables recommendations to shift from scheme B to A.
- Test data obtained under the "old" systems can be used, under conditions, to establish scheme A certificates.