



IAAC OIML Webinar

Introduction to the OIML Certification System (OIML-CS)

Online, 28 July 2025

Marc Schmidt

TQR Director @ NMI Group

Head Certification Board @ NMI Certin B.V., OIML Issuing Authority NL1

OIML-CS Chairperson of the Management Committee

- NMi Issuing Authority NL1
- How is the OIML-CS used in Europe
- Some experiences of NL and NMi in particular.
- Some experience with RvA and accreditation

- NMi has been issuing OIML Certificates for over 30 years
- NMi has issued over 3500 Certificates in a large variety of measuring instruments
- NMi actively participates in the writing and revising of almost all OIML recommendations.
- NMi is there to support OIML in providing a **mutual recognition system** which **reduces trade barriers and costs** in a global market

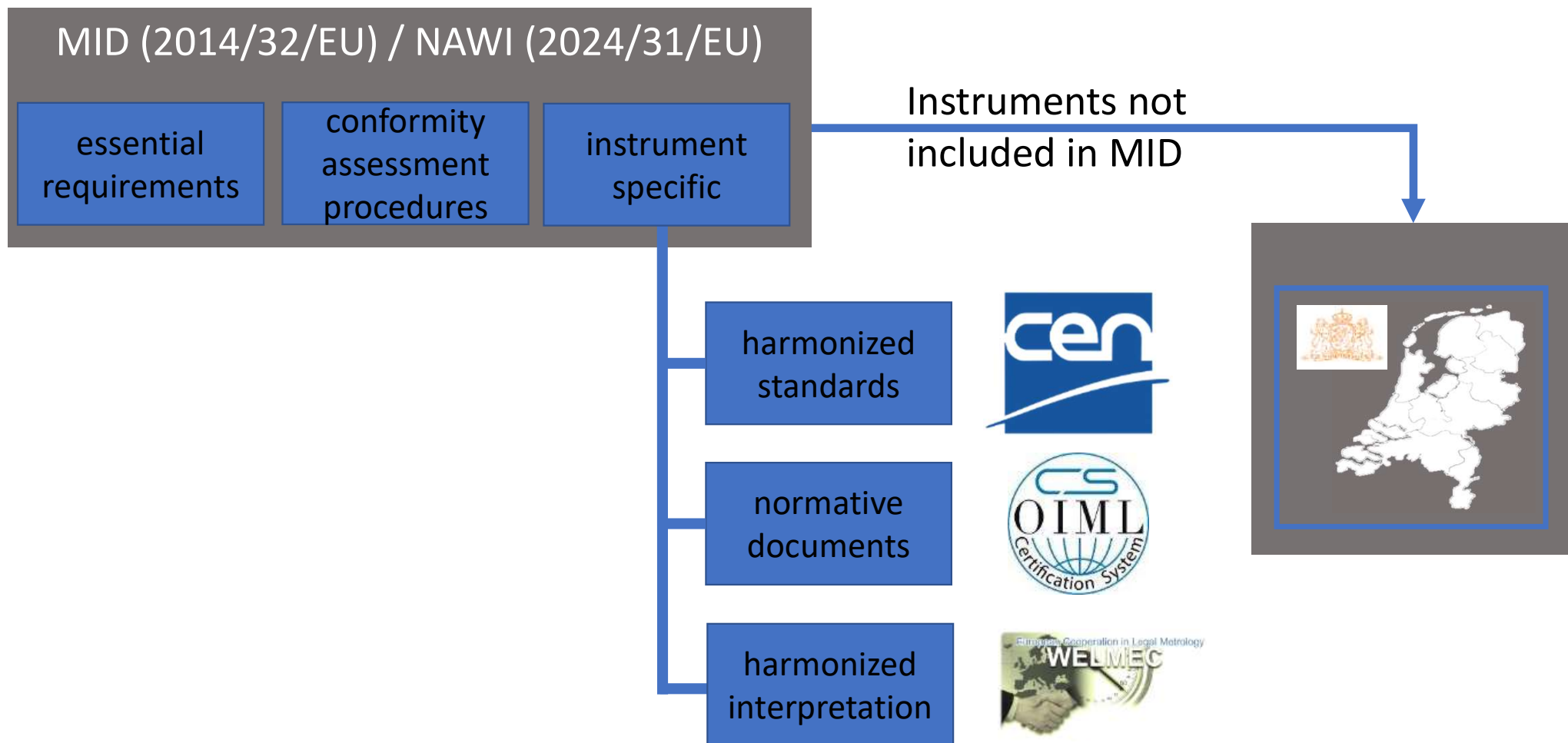
The NMi 'Blue Seal of Approval' reflects over 150 years of unmatched standards, impartiality, and reliability, instilling confidence and supporting sustainable growth in emerging products and technologies

Metrology in Europe

- The "Blue Guide" is a guidance document published by the European Commission to help businesses understand and implement EU product rules, particularly within the New Legislative Framework (NLF). Its primary goal is to promote the uniform application of these rules across the EU single market and ensure a high level of protection for consumers and other stakeholders.



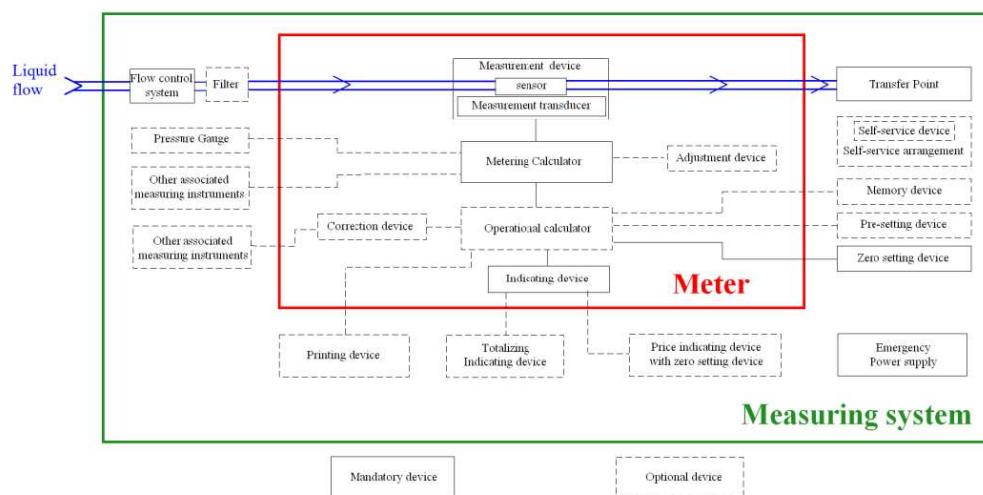
Legislative framework Europe



Components used in a measuring system are tested individually

Evaluation Certificate (EC) or Parts Certificate (PC)

- Modular approach (WELMEC 8.8)
- Harmonised standards or normative document
 - e.g OIML R117
- No expiration date → Linked to edition of standard/document



Evaluation Certificate

Number TCxxxx revision 0
Project number 1620xxxx
Page 1 of 1

Issued by

NMI Certin B.V.

In accordance with

- WELMEC 8.8 "General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring Instruments under the MID",
- OIML R117-1 Edition 2007 (E) "Dynamic measuring systems for liquids other than water".

Producer

Name
Address
City
Country

Part

An electronic calculating and indicating device intended to be used as a part of a dynamic measuring system for liquids other than water.

Producer's mark or name : Name

Type designation : xxxxx

Accuracy class : 0,5

Further properties and test results are described in:

- Description TCxxxx revision 0;
- Documentation folder TCxxxx-1.

Remarks

- This revision replaces the previous revision;
- The documentation folder is not changed.
- The documentation folder replaces the previous documentation folder.

Issuing Authority

NMI Certin B.V., Notified Body number 0122
20 February 2020

Certification Board

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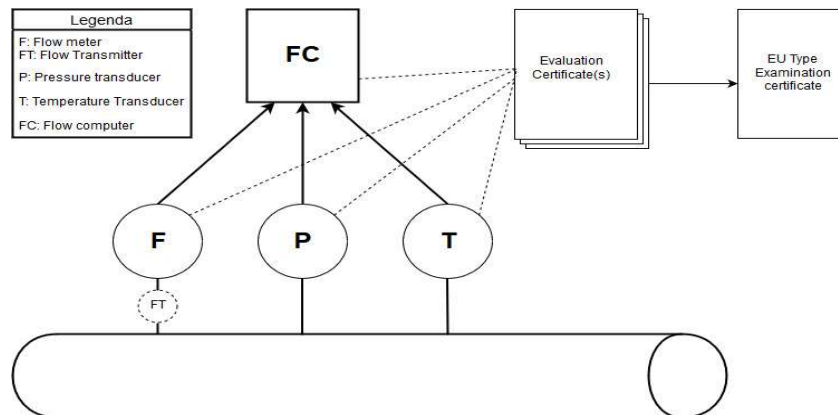
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System can be based on EC's and/or PC's of components

EU Type Examination Certificate

10 years valid after being placed on the market



NMI

EU-type examination certificate

Number **T10xxx** revision 0
Project number 190xxx
Page 1 of 1

Issued by NMI Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to
conformity assessment procedures mentioned in article 17 of Directive
2014/32/EU, after having established that the Measuring instrument meets
the applicable requirements of Directive 2014/32/EU, to:

Manufacturer [MAN_name]
[MAN_address]
[MAN_city]
[MAN_country]

Measuring instrument A **fuel dispenser**
Manufacturer's mark or name : [name]
Type designation : [type]
Accuracy class : [acc_class]
Destined for the measurement of : [product]

Further properties are described in:
– Description T10xxx revision 0;
– Documentation folder T10xxx-1.

Valid until Date of issue + 10 years

Remarks

- This revision replaces the previous revision;
- The documentation folder is not changed;
- The documentation folder replaces the previous documentation folder;
- The fuel dispenser may be combined with one or more LPG- and/or
gasoline oil dispensers and/or measuring systems for AdBlue, which make
use of the same or separate calculating/indicating device(s);
- The fuel dispenser may be combined with the self-service devices as
mentioned in § 1.1 of the description.

Issuing Authority **NMI Certin B.V., Notified Body number 0122**
20 February 2020

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INSPECTION
RVA 1 122

- OIML Certificates are published on the OIML website
 - OIML Certificates give a good basis for a national type approval
 - Basis are the Type Evaluation Reports (TER)
 - National requirements can be included (see Utilizer form)
 - A Type Evaluation Report can be accepted worldwide
 - Knowledge around OIML Certificates can be improved
-
- OIML Certificates and reports give a good basis for presumption of conformity.

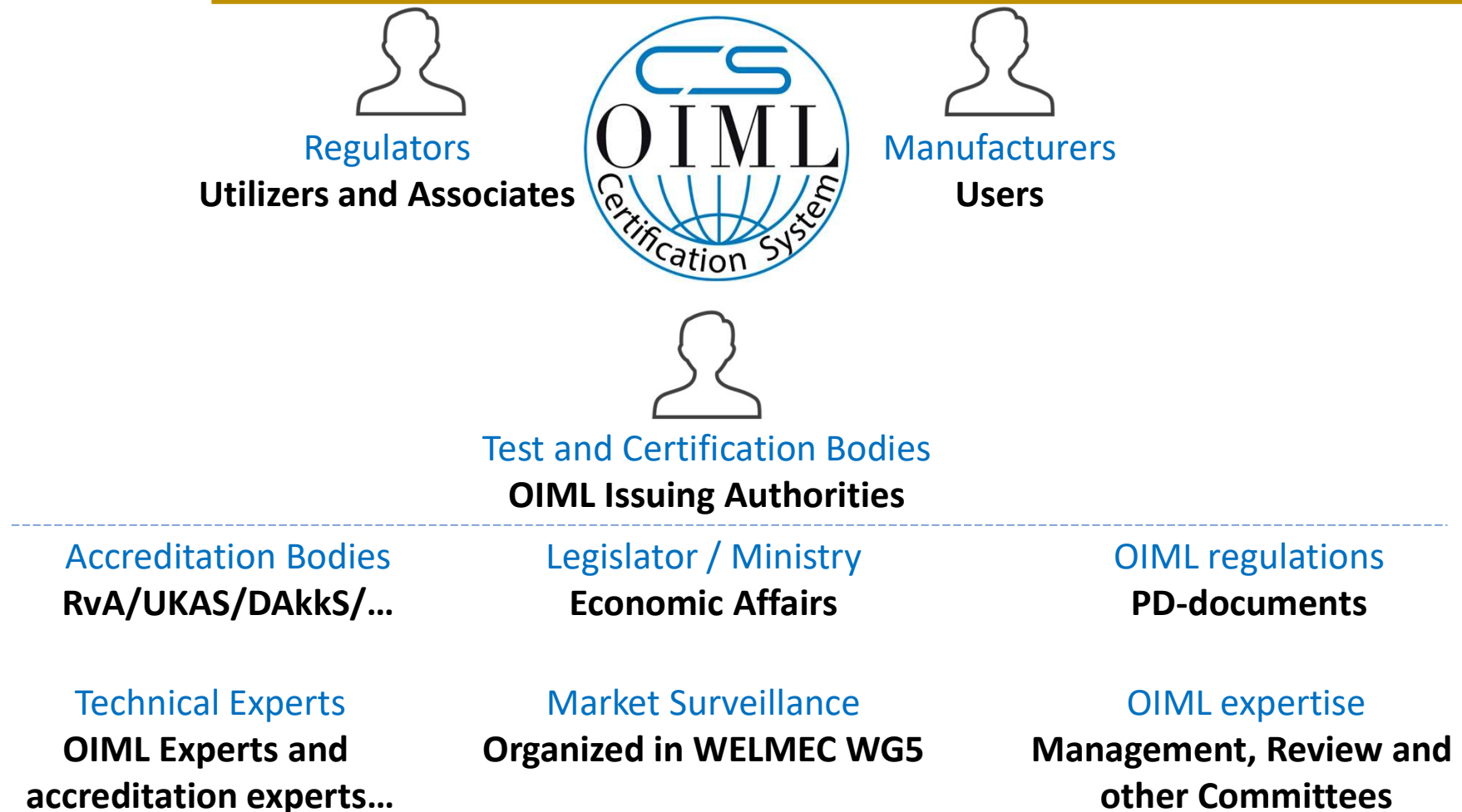


OIML Certification System (OIML-CS)

List of OIML Issuing Authorities and their scopes

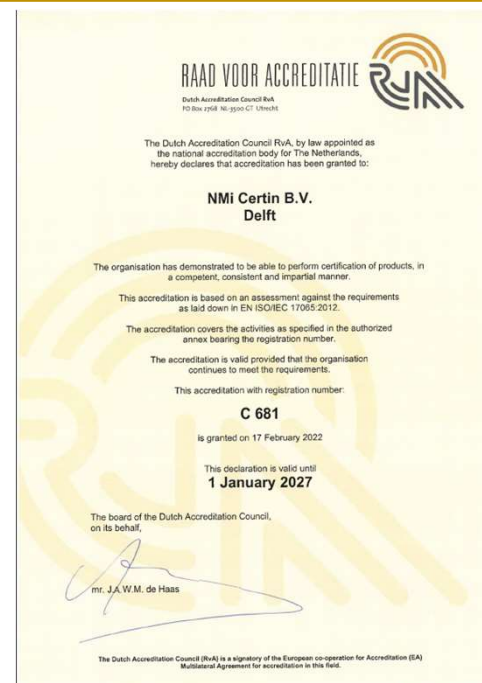
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Participants in the OIML-CS



Requirements (OIML IAs and TLs)

- NMI holds several accreditations since the early 90's.
- Accreditation is a proof of competence
- **OIML Issuing Authorities** are required to demonstrate compliance with **ISO/IEC 17065**
- **Test Laboratories** are required to demonstrate compliance with **ISO/IEC 17025**



Demonstrating Compliance

- Compliance is demonstrated on the basis of accreditation or peer assessment
- Accreditation assessment teams shall include Legal Metrology Expert(s) approved by the OIML
- Knowledge of the OIML system is key, also with accreditation bodies



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	E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	ISO/IEC 17025	ISO/IEC 17065
Peter Miliute	LT																	✓	✓
W. Chen	AU																		
Mario Zamora	AT																		
Dirk Bils	BE																		
Juan Carlos Martinez Sanchez*	BR	✓																	
Luciano Bruno Ferreira	BR																		
Gillian Coover	CH																		
Bernhard Höbelschetter	CH																		
Wang Jian	CH																		
Hu Manhong	CH																		
Hong Shu	CH																		
Shi Lohing	CH																		
Yang Jing	CH																		
Yang Youdao	CH																		
Zhong Jialin	CH																		
Zhou Shanyuan	CH																		



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

Management System Experts – Team Leaders (Lead Assessors)

- 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, Gulan	CH	✓	
STOLZ, Harry	DE	✓	✓
JENSEN, Hans Delgaard	DK	✓	
LORENTZEN, Erik Bruun	DK	✓	
AGARWAL, Ashutosh	IN	✓	
VERBEEK, Jos	NL	✓	
BAREL, André	NL	✓	
VERBEEK, Dick	NL	✓	✓
PREMIER, Aleksander	SI	✓	
KALLGREN, Håkan	SE	✓	
GLAS, Grégory	UK		✓
INCE, Ahmet	UK	✓	
TEH BROCKE, Andrew	UK	✓	
AVILA, Luis Font	VE	✓	

- 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	✓	
JIN, Ping	CHAS	✓	
DEL PILAR QUIJANO, Rodolfo	ONAC	✓	

OIML certificates are a 'passport'

An OIML certificate is a 'passport' for measuring instruments entering the international market

"One-time testing; One certificate; Global Access"

	R 21:2007	R 35:2007	R 46:2012	R 49:2006	R 49:2013	R 50:2014	R 51:2006	R 60:2000	R 60:2017	R 60:2021	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 111:2004	R 117:1995	R 117:2007	R 117:2019
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)			✓	✓		✓																	
IN1 Legal Metrology Division, Department of Consumer Affairs (LMD, DoCA)	✓		✓	✓																			
IT1 Tifernogas s.r.l.																							
JP1 NMJ/AIST								✓	✓	✓				✓	✓							✓	✓
NL1 NMI Certin B.V.	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NL3 KEMA B.V.			✓																				
SE1 Research Institutes of Sweden (RISE)	✓						✓	✓	✓	✓	✓	✓			✓	✓					✓	✓	✓
SK1 Slovak Legal Metrology (SLM)			✓	✓											✓								

**ONE TIME
TESTING**



GLOBAL ACCESS



There are benefits for using OIML-CS:



- Consumers can rely on certified measuring instruments, which fulfill internationally agreed requirements
- Manufacturers can get testing services for their measuring instruments from competent and recognised OIML Issuing Authorities and Test Laboratories
- National authorities can rely on internationally accepted OIML certificates without duplicate testing and can issue national or regional type approvals

The OIML-CS is a certification system which:



- strengthens **trust** in measuring instruments and measurement results
- enables **certification** of measuring instruments, avoiding duplicate testing and acceptance on an international level
- facilitates **international trade** of measuring instruments
- makes the **work of legal metrology authorities more efficient**

Thank you for your attention

Marc Schmidt

TQR Director @ NMi Group

Head Certification Board @ NMi Certin B.V., OIML Issuing Authority NL1

OIML-CS Chairperson of the Management Committee

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www.nmi.nl / www.nmigroup.com

www.oiml.org/en