



**26<sup>th</sup> ASIA-PACIFIC LEGAL  
METROLOGY FORUM AND  
WORKING GROUP MEETINGS**  
6-8 November 2019, Ha Long City,  
Quang Ninh Province, Viet Nam



## ***Brief Introduction of OIML Issuing Authority, China***



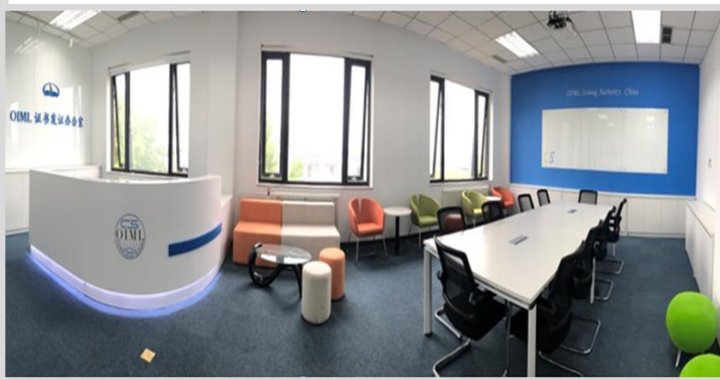
**Presented by: Cai Changqing**  
**Researcher**  
**National Institute of Metrology, China**

## National Institute of Metrology, China



*NIM is China's national metrology institute, and it is the national technical center for legal metrology as well.*

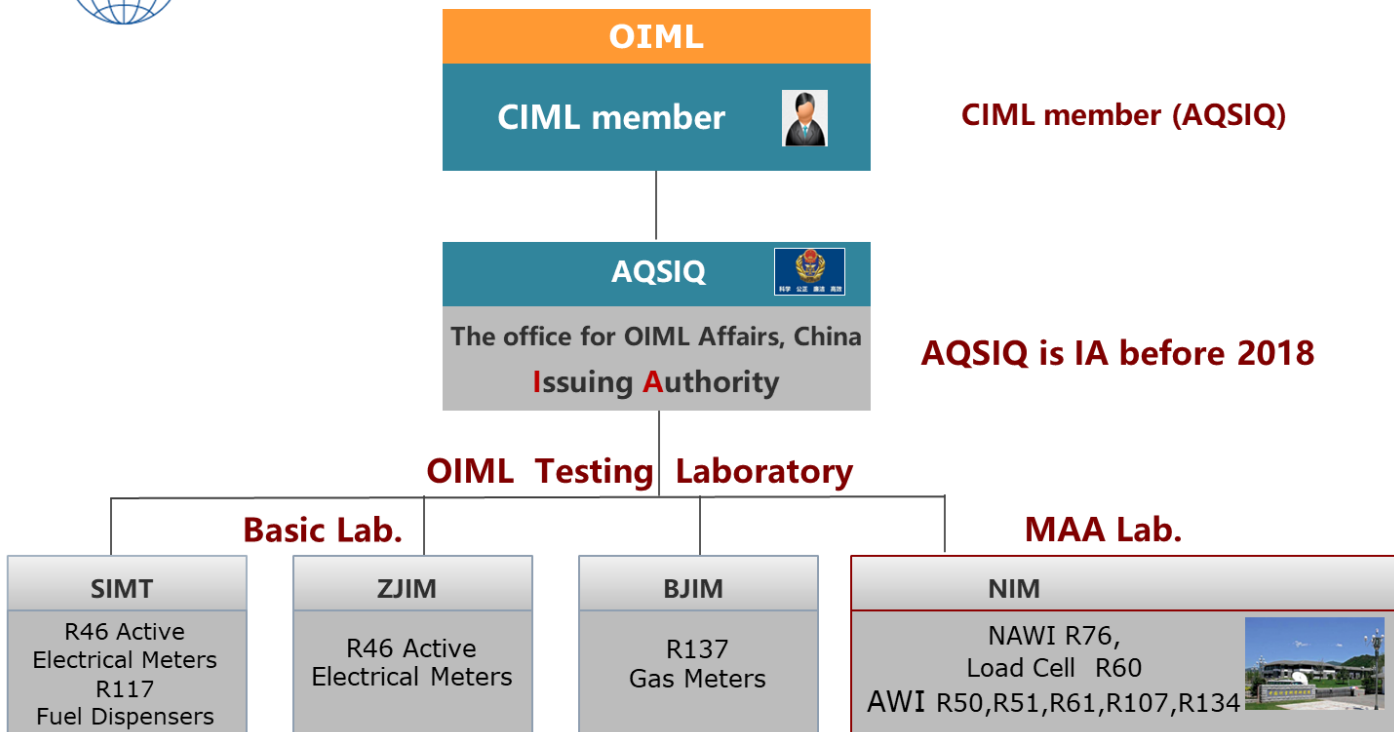
*With the reform of OIML, The OIML system in China has also been reconstructed. Since January 1st, 2018, NIM has become the OIML Issuing Authority.*



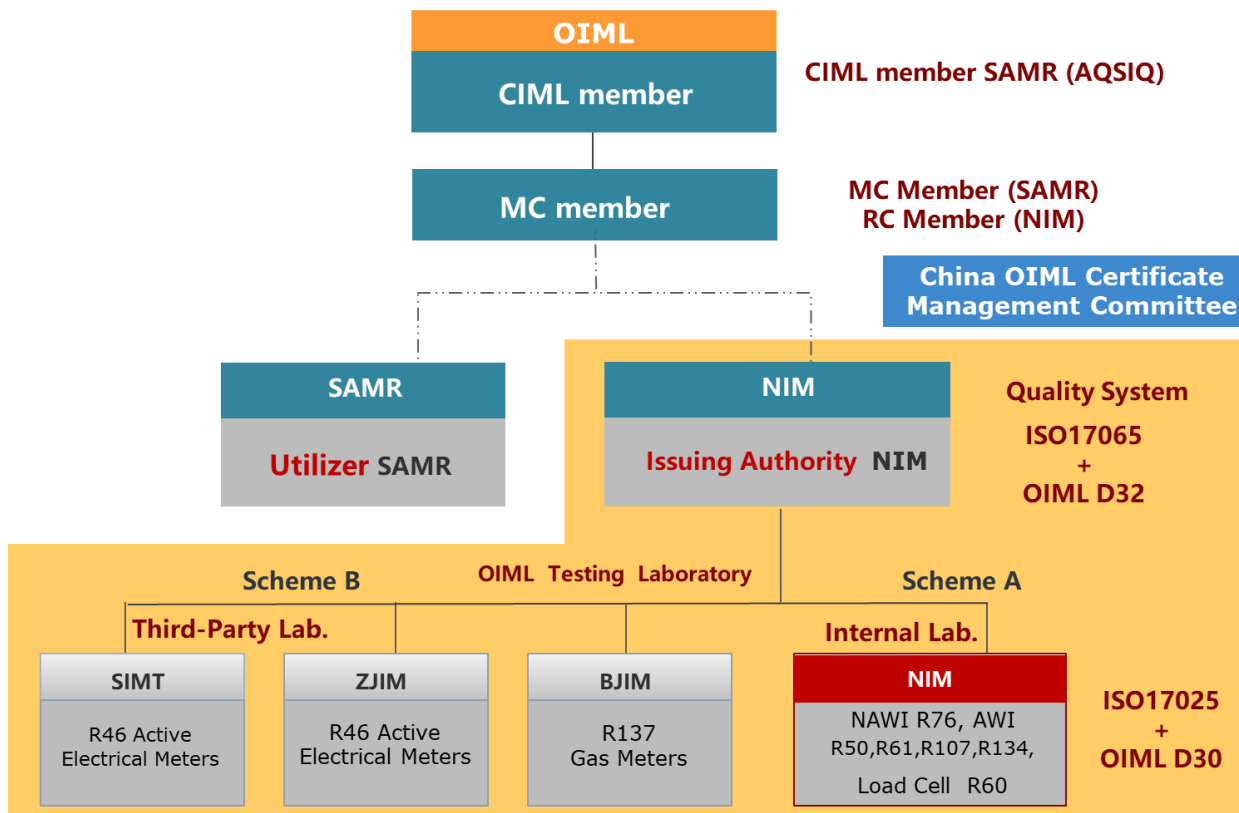
OIML Issuing Authority, China

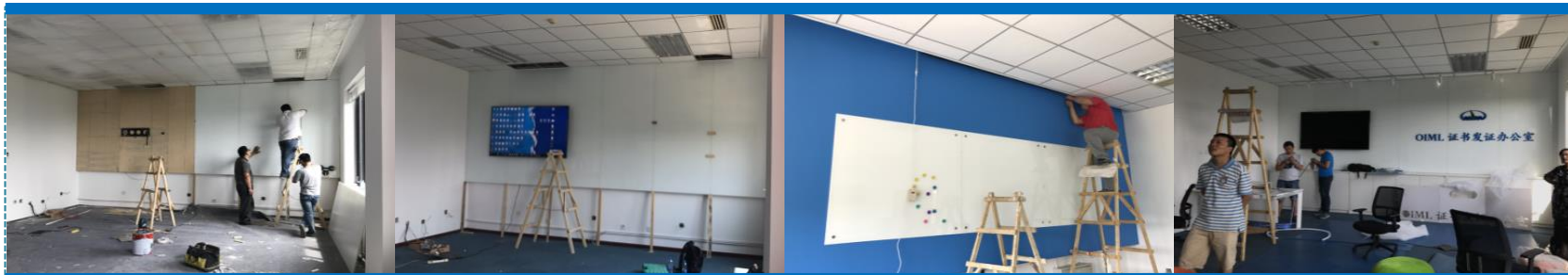


## OIML in China, before 2018



## OIML-CS in China





*Since NIM was designated as the IA, we devote great efforts to the establishment of the OIML Certification Office, China, which is located in Changping Campus.*





# NIM translate and Publish the OIML-CS Documents



## Foreword

Metrology is well recognized as a fundamental component of what we nowadays call the Quality Infrastructure (QI) of a country or economy. Accurate, reliable measurements are a prerequisite for the development of human society, civilization, coordination of daily life and fair trade. In modern societies and economies, metrology guarantees a high standard of living and is a vital stimulus to and prerequisite for scientific and technological innovation.

Since its foundation in 1955, the International Organization of Legal Metrology (OIML) has been striving to promote international cooperation in the field of legal metrology and to enable economies to put in place effective legal metrology infrastructures that are mutually compatible and internationally recognized, with the aim of facilitating trade, establishing mutual confidence and harmonizing the level of consumer protection worldwide. It has taken decades of efforts for the OIML to develop and establish an international system of mutual acceptance of test results and certificates which is widely accepted among its Member States and Corresponding Members and which can thus play a pivotal role for the manufacturing and global trading of measuring instruments.

On 1 January 2018 the OIML launched its new OIML Certification System (OIML-CS). It replaced the previous OIML Basic Certificate System, implemented in 1991, and the OIML Mutual Acceptance Arrangement (MAA), implemented in 2006. The OIML-CS will cover significantly more categories of measuring instruments than the MAA did, where "qualified certificates", issued by competent OIML issuing Authorities can be used worldwide, not only by the participants themselves. In this way the OIML-CS helps both national authorities and manufacturers to avoid unnecessary re-testing, thereby saving resources and speeding up the national type evaluation process. The OIML thus contributes to reducing "Technical Barriers to Trade (TBT)" in the sense of the World Trade Organization (WTO), and to realizing the vision "Tested once, accepted everywhere".

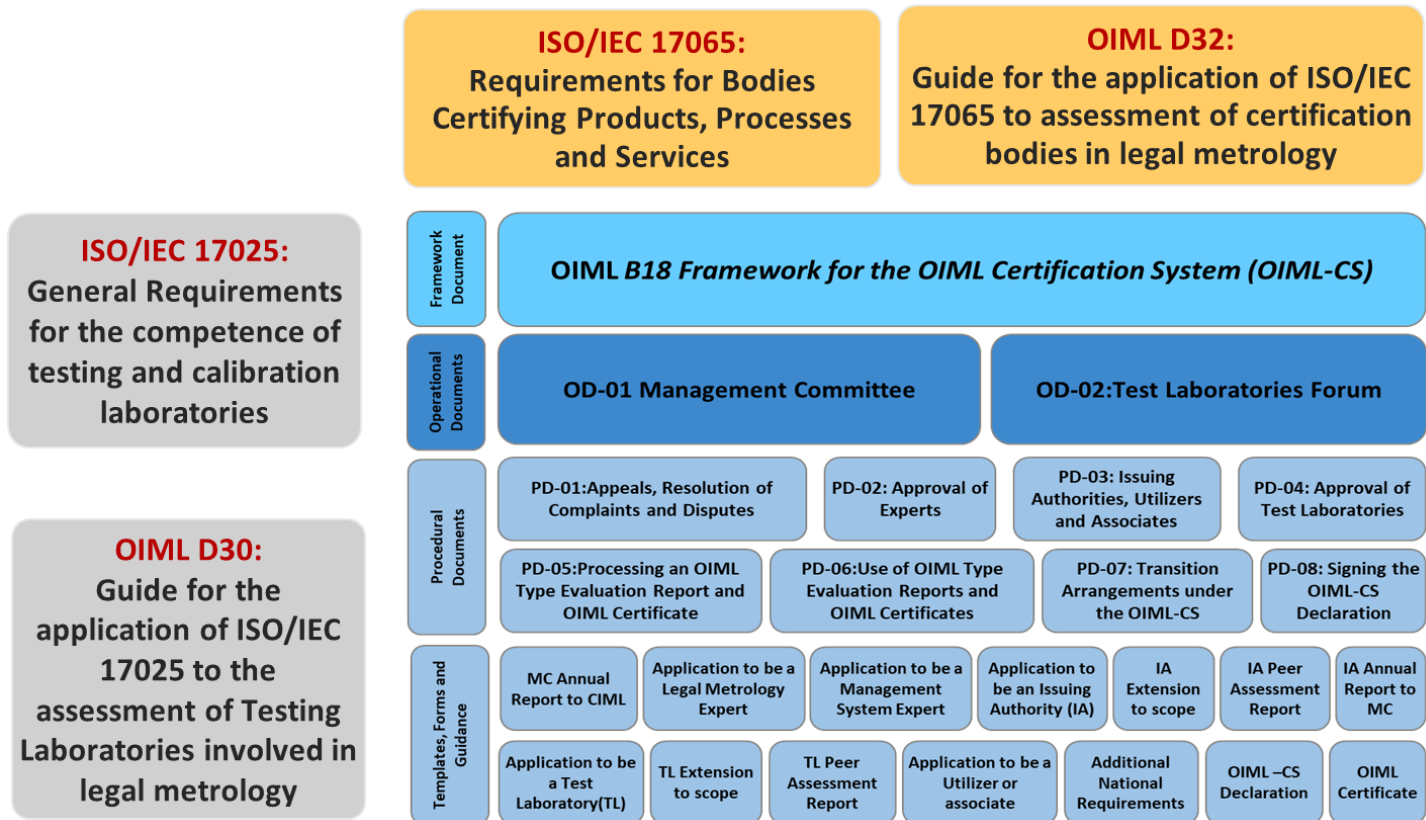
OIML Basic Publication B 18 Framework for the OIML Certification System (OIML-CS) provides detailed information about the system's structures, principles and operating procedures. Various stakeholders including national administrative legal metrology authorities, test laboratories, manufacturers, and industry associations, should all benefit from the publication's exhaustive coverage of policies that are specifically of interest to them. Given P.R. China's important role in both manufacturing and trading of measuring instruments, it is my pleasure to witness a Chinese translation of the original English language publication. I hope this translation will help manufacturers, technological institutes, and industry associations in P.R. China to become more familiar with the OIML-CS so that they can take full advantage of the system and enhance their confidence and competitiveness in the global market.

On behalf of the OIML, I would like to hereby thank Prof. Fang Xiang, Director of the National Institute of Metrology (NIM), P.R. China, for his exceptional contribution to the implementation of the OIML-CS in P.R. China. I also owe particular thanks to my peers at NIM for their professional translation and meticulous work. Finally, I would like to thank the State Administration of Market Regulations (SAMR), the administrative department of legal metrology in P.R. China, for their support in the publication of this book.

*Roman Schwartz*  
CIML President



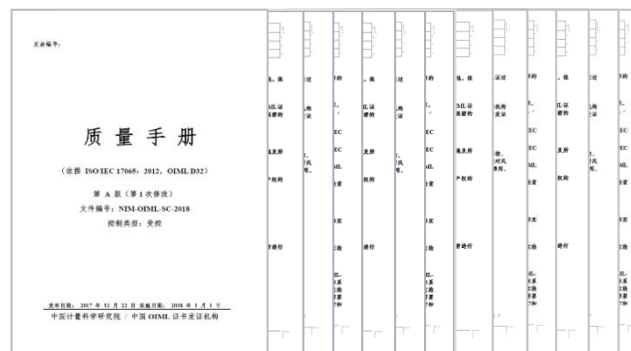
## Establish Quality System of OIML Issuing Authority



## Establish Quality System of OIML Issuing Authority

### Procedural Documents:

1. Confidentiality Control Procedure
2. Management Procedure of Certification Personnel
3. Management Procedure of OIML Test Laboratory
4. Application Procedure for OIML Certificate
5. Management Procedure of Evaluation and Decision
6. Management Procedure of OIML Certificates
7. Management Procedure of Changes affecting Certification
8. Procedure of approval, Remain, Withdrawal, Revision, Transfer, Transition of OIML Certificates
9. Appeals, Resolution of Complains and Disputes
10. Documents Control Procedure
11. Records Control Procedure
12. Management Review and Internal Audit Procedure



**In end of 2018 , a joint Peer Assessment for both IA (NIM) and internal TL (NIM) was conducted at NIM, China.**

IA's quality management system will be assessed on the basis of ISO/IEC 17065:2012 and OIML D 32:2018 ; TL's quality management system will be assessed on the basis of ISO/IEC17025:2017 and OIML D 30:2008

**Assessment Team:**

**Lead Assessor :** Mr. Gulian Couvreur from METAS, Switzerland

**Legal Metrology Expert:** Mr. Yi Chen from NIMA, Australia



## Establishing China OIML Certificate Management Committee

*NIM has established an efficient mechanism for impartiality.*

The First Meeting of China OIML Certificate Management Committee



*The first meeting was held in Sep 2017 in NIM Changping campus.*

*The members include all the interested parties in China: Government, OIML Issuing Authority, Utilizer, OIML Test Laboratory, Associations, manufacturers and consumer.*

## The website of the OIML IA, China

<http://oiml.nim.ac.cn>



The website was built up and launched in June, 2018.



**Thank you for  
your attention !**

