

## ANNUAL REPORT of TC 2 "Legal Metrology" (15.03.2020-15.04.2021)

### 1. GENERAL FEATURES OF COOPERATION IN THIS SUBJECT FIELD

TC 2 includes representatives of 19 COOMET member countries: Azerbaijan, Armenia, Belarus, Bulgaria, Bosnia and Herzegovina, China, Germany, Georgia, Kazakhstan, Kyrgyzstan, DPR of Korea, Cuba, Moldova, Romania, Russia, Slovakia, Tajikistan, Turkey, Uzbekistan and Ukraine.

COOMET TC 2 coordinates works among the COOMET member countries in legal metrology, which are performed on the regional and international levels and are of common interest in this field. The COOMET TC 2 includes three Subcommittees (SCs):

- SC 2.1 "Harmonization of Regulations and Norms in Legal Metrology" (Chair – Nikolai Zhagora, Belarus),
- SC 2.2 "Technologies of Measuring Devices and Systems in Legal Metrology" (Chair – Maksim Shabanov, Belarus),
- SC 2.3 "Legal Metrology Control" (Chair – Ruf Genkina, Russia).

A Working group on measuring systems (WG on MS) was established within SC 2.2 (Chair – Aleksandr Krichevets, Ukraine).

At the TC2-2021 meeting the following decisions were made in terms of the organizational structure:

1) To apply to COOMET Committee for the exclusion of SC 2.2, SC 2.3 and WG for MS from the structure of TC2.

*Note – the decision on the exclusion of SC 2.1 from TC2 was made at the TC2-2020 meeting and adopted by the COOMET Presidential Council*

2) To consider it appropriate to organize interaction within TC2 on a number of fields<sup>1</sup> of activity in LM with a simultaneous appointment of coordinators of those fields, namely:

- "Measuring devices in legal metrology" (coordinator – M. Shabanov, BelGIM, Belarus);
- "Measuring systems in legal metrology" (coordinator – A. Krichevets, DP NDI "Systema", Ukraine);
- "Medical equipment with measuring functions" (coordinator – N. Raymjonov, UzNIM, Uzbekistan);
- "Conformity assessment of measuring instruments" (coordinator – I.Pototskiy, Ukrmetrteststandart, Ukraine);
- "Digitalization in legal metrology" (coordinator – P.Ulbig, MEN, Germany).

Terms of office: 2021-2026.

The concept of further works and subject of cooperation within the above mentioned fields will be discussed at the 22<sup>nd</sup> TC2 meeting (September 2021).

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<sup>1</sup> The names of the fields are given in the version, agree by the COOMET Presidential Council.

At the TC2-2020 meeting P. Ulbig informed about the completion of his office as the TC2 Chair since year 2021 owing to the change of workplace.

In November 2020 COOMET Secretariat organized the election of a new TC2 Chair. Yuriy Kuzmenko (Ukrmetrteststandart, Ukraine) was elected as the new TC2 Chair. The results were submitted to COOMET Presidential Council for consideration.

COOMET Presidential Council adopted the election results and appointed Y.Kuzmenko as the Acting Chair of TC2 until the approval by the COOMET Committee.

Information about the legal metrology systems in COOMET member countries was posted on the COOMET web-portal (except for the information from Bulgaria, DPR of Korea, Romania, Turkey):

<https://www.coomet.net/ru/dejatelnost/zakonodatelnaja-metrologija/zm-v-stranakh-koomet/>

**The COOMET webinar "The role of measurement uncertainty in conformity assessment decisions in legal metrology" was held online on 6 April 2021**, at which more than 120 representatives of NMI/DIs of COOMET member countries (Azerbaijan, Armenia, Belarus, Bosnia and Herzegovina, Germany, Kazakhstan, Kyrgyzstan, Moldova, Russia, Slovakia, Tajikistan, Turkey, Ukraine, Uzbekistan) took part.

Peter Ulbig, Head of the Verification Authority of Lower Saxony (MEN) (Germany) performed as the speaker at the webinar, and Dr. Yuriy Kuzmenko, Acting Chair of TC2, performed as the moderator.

Under the webinar program the requirements of the OIML Guide G19:2017 "The role of measurement uncertainty in conformity assessment decisions in legal metrology" were reviewed in detail, and an overview of some fee-based and free software for calculating the uncertainty of measurements was provided.

The topic of the webinar evoked a lively response among its participants, as confirmed by the questions asked and the feedback received.

In parallel to the conference in Zoom the streaming of the webinar on YouTube on the channel of SE "Ukrmetrteststandart" was arranged.

## 2. RESULTS OF THE TC2 MEETING

On 29 October 2020 **the 20th meeting of TC 2** was held online, at which specialists from 14 COOMET member countries (Azerbaijan, Belarus, Bosnia and Herzegovina, Germany, Georgia, Kazakhstan, Kyrgyzstan, Cuba, China, Russia, Slovakia, Tajikistan, Uzbekistan and Ukraine) took part.

### The main resolutions of TC2-2020:

1) To take note of the information about the results of the online survey "Optimization of the TC2 structure and identification of promising fields of activity in LM", conducted by the TC2 Secretariat.

2) Taking into account the results of the discussion, to endorse the appropriateness of developing such fields of cooperation within TC2 as "Digitalization", "Medical measuring instruments" and "Legislation and conformity assessment", as well as establishing SCs or WGs for those fields in the TC2 structure – *the discussion was completed at the TC2-2021 meeting.*

3) To apply to COOMET Committee for the exclusion of SC 2.1 "Harmonization of Regulations and Norms in Legal Metrology" from the TC2 structure (with the transfer of its tasks and functions to TC2 in general).

4) The TC2 Secretariat should compile the data, received from the TC2 members from Azerbaijan, Armenia, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Uzbekistan and Ukraine as to translations of what OIML publications (TOP10) are currently most relevant for their

countries; to prepare an updated COOMET Plan for translation of OIML publications into Russian – *the discussion was completed at the TC2-2021 meeting.*

5) COOMET Secretariat should conduct a survey among TC2 members to assess the current situation with regard to application of OIML publications in the working practice of COOMET member countries – *the results were discussed at the TC2-2021 meeting.*

On 7-8 April 2021 **the 21st meeting of TC2** was held online, at which representatives from 15 COOMET member countries (Azerbaijan, Armenia, Belarus, Bosnia and Herzegovina, Germany, Kazakhstan, Kyrgyzstan, Cuba, China, Moldova, Russia, Slovakia, Tajikistan, Uzbekistan and Ukraine) took part, as well as the Heads of WELMEC and APLMF.

The main resolutions of TC2-2021:

1) To request the TC2 members from Armenia, Bulgaria, Georgia, Russia, Romania to send the texts of the legal acts on metrology (in Russian and/or in English – when available) to the TC2 Secretariat for further provision of links on the COOMET information resources.

2) To request the TC2 members from Bulgaria, Romania, as well as the COOMET Committee member from Turkey to send the information about the legal metrology systems in their countries taking into account the recent changes in the legislations to the TC2 Secretariat.

3) To approve the draft COOMET Plan for the translation of OIML publications into Russian and to reflect its events in the TC2 Work Program for 2021-2023. To consider it appropriate to review the progress in carrying out works under the Plan at the annual TC2 meetings and to update it.

4) To consider it appropriate to prepare COOMET Recommendations on the issues related to OIML publications, provided that COOMET Recommendations will provide guidance on the application of OIML requirements for COOMET member countries and/or specific examples, clarifying those requirements. To request TC2 members to send to the TC2 Secretariat (1) proposals as to for what OIML publications COOMET Recommendations should be prepared, and (2) information concerning the possibility of representatives of their countries to act as development coordinators.

5) To continue the discussion of COOMET activity within the OIML-CS taking into account the proposals of the interested countries at the TC2 meeting in 2022.

*Note – COOMET project 827/RU/21 "Translation of the UNIDO-OIML brochure "Certification of measuring instruments" (coordinator – A. Kuzin, VNIIMS, Russia) has currently been opened; the translation will further be sent to COOMET member countries until the end of year 2021. TC2 members are invited to submit proposals on the activity of COOMET member countries within the OIML-CS (taking into account the detailed consideration of benefits and shortcomings of the OIML-CS for their countries and review of the UNIDO-OIML Brochure).*

6) To draw up a List of adopted rules, guides, recommendations in legal metrology of other RLMOs, which are of interest to COOMET member countries, and then to post it on the COOMET information resources and to give the corresponding links to the websites of the RLMOs. COOMET project 844/UA/21 on the preparation of the List (coordinator – Ukrmetrteststandart, Ukraine) has currently been started.

7) To conduct a survey in 2021 among TC2 members for the assessment of the current situation with regard to application of Guides of WELMEC and other RLMOs in COOMET member countries and appropriateness of their application in the future and to discuss the issue of drawing up a Plan for translation of Guides of WELMEC and documents of other RLMOs into Russian at the TC2 meeting in 2020.

8) To note the importance of organization and holding of online/e-learning within COOMET for specialists of COOMET member countries, as well as holding of webinars on the relevant issues of legal metrology. To draw attention of TC2 members to the possibility of taking part in the training

modules (in the form of e-learning) organized under the auspices of OIML and RLMOs. To request TC2 members to prepare information about the topics of online training courses (in the form of e-learning), which are of interest to specialists of their countries (for further discussion and assessment of the possibility of their organization within COOMET jointly with TC4 "Information and Training").

9) To take note of the information, presented by P.Ulbig (Germany), about the proposed concept of works on digitalization in legal metrology (COOMET project under the working title "Analysis of the impact of digitalization on the state metrological supervision") and to continue the discussion at the 22nd TC2 meeting (September 2021). To discuss approaches to solving problems related to digitalization in legal metrology in the form of brainstorming ahead of the 22nd TC2 meeting (September 2021).

10) To request the TC2 Secretariat to prepare an updated version of the COOMET Document D5.12/2014 "Regulation on TC2" in view of the COOMET Document D5/2020 and resolutions in terms of changing the organizational structure of TC2; to review the draft at the 22<sup>nd</sup> TC2 meeting (September 2021).

Information concerning work on the COOMET projects, carried out within TC2, is given in clause 3 of the report.

### 3. STATUS OF COOMET PROJECTS

The following COOMET projects have been **completed** in 2020-2021:

1) Project **750/RU/18** "Translation of OIML B18 "Framework for the OIML Certification System (OIML-CS)" (coordinator – VNIIMS, Russia): the translation is available in FSIS "Arshin" (Russia). The project was implemented within SC 2.1 and completed in accordance with the established procedure.

2) Project **629/RU-a/13** "Preparation of the information material on the organization of the sphere of state regulation in the field of legal metrology based on the study of the experience of different countries" (coordinator – VNIIMS, Russia): Information material "Organization of the sphere of state regulation in the field of legal metrology in the COOMET member countries" is submitted for approval at the 31<sup>st</sup> COOMET Committee meeting. The project was implemented within SC 2.1 and will be completed after the approval of the publication.

3) Project **751/BY/18** "Translation of OIML G 1-106:2012 "Evaluation of measurement data - The role of measurement uncertainty in conformity assessment" (coordinator – BelGIM, Belarus): the translation is available in FSIS "Arshin" (Russia). The project was implemented within SC 2.1 and completed in accordance with the established procedure.

4) Project **740/UA-a/18** "Translation of WELMEC 7.2:2018 "Software Guide" (Measuring Instruments Directive 2014/32/EU)" (coordinator – Ukrmetrteststandart, Ukraine): the translation will be made available on the COOMET information resources (subject to the consent from WELMEC). The project was implemented within SC 2.2 and completed in accordance with the established procedure.

5) Projects **747/RU/18** "Translation of OIML R87:2016 "Quantity of product in prepackages"; **748/RU/18** "Translation of OIML R79:2015 "Labeling requirements for prepackaged products"; **749/RU/18** "Translation of OIML G21:2017 "Guidance for defining the requirements for a certification system for prepackages" (coordinator – VNIIMS, Russia): the translations are available in FSIS "Arshin" (Russia). The projects were implemented within SC 2.3 and completed in accordance with the established procedure.

The following COOMET projects are currently **IN PROGRESS**:

Project, coordinator	Participants	Implementation
<b>716/BY-a/17</b> "Development of rules for setting up re-verification and recalibration intervals for measuring instruments used in the field of legal metrology" (coordinator – BelGIM, Belarus)	Belarus, Armenia, Germany, Kyrgyzstan, Cuba, Moldova, Russia, Ukraine, other interested TC2 members	A draft Recommendation was preliminary discussed. The discussion will continue within the WG for the project, information about the progress of work will be presented at the TC2 meeting in 2022.
<b>797/BY/19</b> "Review of approaches to the metrological support of medical measuring instruments" (coordinator – M. Shabanov, Belarus)	Belarus, Kazakhstan, Russia, Turkey, Bosnia and Herzegovina, Germany, China, other interested TC2 members	A preliminary survey was conducted; in 2021 an additional survey among all members of the WG for the project and interested TC2 members will be conducted. Information about the progress of work will be presented at the TC2 meeting in 2022.
<b>778/UA-a/19</b> "Development of a COOMET Recommendation "Metrological control of measuring systems. The main provisions" (coordinator – A. Krichevets, Ukraine)	Ukraine, Belarus, Bosnia and Herzegovina, Cuba, Russia, Slovakia, Uzbekistan, other interested TC2 members	A draft Recommendation was preliminary discussed. The discussion will continue within the WG for the project, information about the progress of work will be presented at the TC2 meeting in 2022.
<b>823/BY/21</b> Update of COOMET Recommendation R/LM/25:2015 "Procedure for recognizing technical devices as measuring instruments" (coordinator – M. Shabanov, Belarus)	Belarus, Uzbekistan, other interested TC2 members	Work on the project will start in 2021

**New COOMET projects** (proposed after TC2-2021):

Тема		Координатор
827/RU/21	Translation of the UNIDO-OIML Brochure "Certification of measuring instruments"	VNIIMS (Russia)
830/BY/21	Update of the COOMET Recommendation R/LM/28:2016 "Template procedure for testing of software of measuring instruments"	BelGIM (Belarus)
831/UZ/21	Update of COOMET Recommendation R/LM/8:2002 "Layout, presentation, drawing up and contents of Measuring instrument type specification for national register of measuring instruments".	UzNIM (Uzbekistan)
841/BY/21	Update of the COOMET Recommendation R/LM/26:2015 "General requirements for the competence of verification laboratories"	BelGIM (Belarus)
844/UA/21	Drawing up a List of adopted rules, guides, recommendations in the field of legal metrology of other RLMOs, which are of interest to COOMET member countries, and agreement on the possibility of their application in COOMET member countries	Ukrmetrteststandart (Ukraine)
834/RU/21	Translation of OIML D1:2020 "National metrology systems - Developing the institutional and legislative framework"	VNIIMS (Russia)
845/KG/21	Translation of Document ILAC-G24/OIML D 10:2007 "Guidelines for the determination of calibration intervals of measuring instruments"	CSM (Kyrgyzstan)
835/RU/21	Translation of OIML D11:2013 "General requirements for measuring instruments - Environmental conditions"	VNIIMS (Russia)
838/BY/21	Translation of Document OIML D 30:2020 "Guide for the application of ISO/IEC 17025 to the assessment of Testing Laboratories involved in legal metrology"	BelGIM (Belarus)

Тема		Координатор
836/RU/21	Translation of OIML D31:2019 "General requirements for software controlled measuring instruments"	VNIIMS (Russia)
839/BY/21	Translation of Document OIML D 32:2018 "Guide for the application of ISO/IEC 17065 to assessment of certification bodies in legal metrology"	BelGIM (Belarus)
847/AZ/21	Translation of Document OIML D 33:2019 "Reference standard liquids (Newtonian viscosity standard for the calibration and verification of viscometers)"	AzMI (Азербайджан)
832/UZ/21	Translation of Recommendation OIML R 75-3:2006 "Heat meters. Part 3: Test Report Format"	UzNIM (Uzbekistan)
837/RU/21	Translation of OIML R125:1998 "Measuring systems for the mass of liquids in tanks"	VNIIMS (Russia)
842/UA/21	Translation of the OIML publication: OIML R 137-1/2:2012 "Gas meters. Part 1: Metrological and technical requirements. Part 2: Metrological controls and performance tests" and Amendment to OIML R 137-1/2 (2014)	Ukrmetrteststandart (Ukraine)
843/UA/21	Translation of the OIML publication: OIML R 137-3:2014 "Gas meters. Part 3: Test report format"	Ukrmetrteststandart (Ukraine)
840/BY/21	Translation of Guide OIML G 14:2011 "Density measurement"	BelGIM (Belarus)

#### 4. ISSUES, RELATING TO COOPERATION WITH INTERNATIONAL AND REGIONAL ORGANIZATIONS IN THE FIELD OF LEGAL METROLOGY

Peter Ulbig, COOMET Vice-President, TC2 Chair (till 2021) represented COOMET at the Round table of regional legal metrology organizations (8 October 2020 online); at the meeting he delivered a presentation on the COOMET activities in legal metrology.

At the online meeting of TC2 (7-8 April 2021) involving APLMF President and WELMEC Chair proposals were discussed on developing cooperation between our organizations.

The following resolutions were adopted:

1) To apply to the APLMF Executive Committee and WELMEC Executive Board for agreeing on the possibility to prepare on behalf of COOMET translations of the APLMF and WELMEC publications, which are of interest to COOMET member countries, into Russian and to post them on the COOMET information resources;

2) To note the appropriateness of exchanging information about the activity of the COOMET TC2 and APLMF/WELMEC on an ongoing basis;

3) To note the appropriateness of appointing permanent contact persons on behalf of COOMET and APLMF/WELMEC and their mutual participation in the annually held meetings;

4) To note the interest of COOMET member countries in the access to training courses, held under the auspices of APLMF (especially in the form of e-learning).

5) To note the appropriateness and possibility of holding joint training events of COOMET and APLMF/WELMEC.

## 5. NEXT TC 2 MEETINGS

The 22nd TC2 meeting will be held **online in September 2021** (the dates will be agreed in due course). The discussion of approaches to solving problems related to digitalization in legal metrology in the form of brainstorming is planned ahead of the TC2 meeting.

It is planned to hold the 23rd TC2 meeting **in September 2022**. A joint COOMET-APLMF-WELMEC seminar on exchange of experience in market surveillance is planned ahead of the TC2 meeting (additional consultations on the topic of the seminar and possible speakers will be held with APLMF and WELMEC). The decision on the format or venue of the meeting and seminar will be made in view of the situation with the Covid-19 pandemic (by 15.05.2022 at the latest).

## 6. PROPOSALS TO RESOLUTIONS OF THE COOMET COMMITTEE

➤ On behalf of COOMET to express gratitude to Mr. P.Ulbig (Germany) for his personal contribution to COOMET activities during his office as a COOMET Vice-President and Chair of TC2 "Legal Metrology" and for organization of effective cooperation within COOMET in the field of legal metrology.

➤ To appoint Mr. Yuriy Kuzmenko (Ukrmetrteststandart, Ukraine) as a new Chair of TC2 "Legal Metrology" for 4 years (term of office: June 2021- June 2025).

➤ To exclude subcommittees SC 2.2, SC 2.3 and WG for MS from the TC2 structure.

➤ To endorse the initiative of TC2 on the organization of interaction within TC2 on a number of fields of activity in LM with a simultaneous appointment of coordinators of those fields (terms of office – 2021-2026), namely:

– "Measuring devices in legal metrology" (coordinator – M. Shabanov, BelGIM, Belarus),

– "Measuring systems in legal metrology" (coordinator – A. Krichevets, DP NDI "Systema", Ukraine),

– "Medical equipment with measuring functions" (coordinator – N. Raymjonov, UzNIM, Uzbekistan),

– "Conformity assessment of measuring instruments" (coordinator – I.Pototskiy, Ukrmetrteststandart, Ukraine),

– "Digitalization in legal metrology" (coordinator – P.Ulbig, MEN, Germany)

➤ To approve the TC2 Work Program for 2021-2023 (COOMET P3/2021) – **Annex 1**.

➤ To approve an information material "Organization of the sphere of state regulation in the field of legal metrology in the COOMET member countries" (prepared under project 629/RU-a/13, coordinator – VNIIMS, Russia) – **Annex 2**.

➤ To cancel COOMET Recommendation R/LM/10:2004 "Software for Measuring Instruments. General Technical Specifications".

Yuriy Kuzmenko  
Acting Chair of TC2