



PROTOCOL
of the 17th Online Meeting
of the COOMET TC 1.1 “General Metrology”
October 24, 2023

Participants:

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| Anna G. Chunovkina | JCMS and TC 1.1 Chairperson, VNIIM, Russia |
| Natalia A. Burmistrova | TC 1.1 Deputy Chair, VNIIM, Russia |
| Nikita D. Zviagin | JCMS Chairperson, VNIIM, Russia |
| Aleksandr S. Doinikov | Head of Department of Physical and Technical Measurements, VNIIFTRI Scientific and Educational Center, VNIIFTRI, Russia |
| Anastasia A. Tumilovich | Leading Specialist, VNIIM, Russia |
| Andrei N. Pankov | FG-DigTr Chairperson |
| Kamo Movsian | TC 1.1, Leading Metrologist, National Body for Standardization and Metrology of the Republic of Armenia, Armenia |
| Azer Kurbanov | TC 1.1, Adviser to General Director, Quality Manager, Azerbaijan Institute of Metrology, Azerbaijan |
| Tatyana K. Tolochko | TC 1.1, Head of Department for Legal and Theoretical Metrology, BelGIM, Belarus |
| Ekaterina V. Kotova | TC 1.1, Head of Measurement Standards Sector No.2, Center for Standardization and Metrology under the Ministry of Economy and Commerce of the Kyrgyz Republic, Kyrgyzstan |
| Gulaykhan G. Suyeubaeva | TC 1.1, Head of Department of State Standards, KazInMetr, Kazakhstan |
| Marat Yunusov | TC 1.1, Head of Center for Calibration and Measurement Services, UzNIM, Uzbekistan |
| Nuriddin Raimjonov | Leading Metrologist, UzNIM, Uzbekistan |
| Ainur Rakhadinova | Head of the COOMET Secretariat |

According to the COOMET D5/2021, the **quorum requirements for the meeting in a have been met**. Members of TC 1.1 from 11 Member States have been appointed, 7 countries participate in determination of the quorum, TC 1.1 members from 5 countries have “Observer” status (Bulgaria, Cuba, Moldova, Slovakia, Tajikistan).

The Meeting was held by the TC 1.1 Chairperson Anna G. Chunovkina in accordance with the Agenda agreed by the Participants.

The Agenda items, speakers, and decisions taken are listed below.

DECISIONS OF THE MEETING

1. Report on the TC 1.1 activities in 2022 – 2023, including analysis of the previous meeting decisions and information on participation of the TC representatives in meetings of working bodies of international organizations and RMOs

Speaker: A. Chunovkina, TC 1.1 Chairperson

The Participants received information on the progress of projects within the framework of the TC 1.1 activities.

Decision:

1. To take note of the information on the progress of work on current projects.

2. Information on Decisions of the COOMET Committee. News from JCMS

Speaker: N. Zviagin, JCMS Chairperson

The Participants received information on the main decisions adopted at the 24th meeting of the JCMS.

Decisions:

1. To take note of the information on the main decisions adopted at the 24th meeting of the JCMS.
2. To take note of the information on the decisions taken at the 112nd meeting of the CIPM, held on March 21–23 and June 21, 2023.
3. To take note of the information on the analysis of the list of National Standards of Belarus and Russia, that did not participate in COOMET comparisons.
4. To take note of the information on the work being carried out to organize comparisons for the CEEMS countries.
5. To take note of the information on the decisions of the COOMET Committee, including on the appointment of Nikita Zviagin as the new JCMS Chairperson.

3. On carrying out works on the following topics:

3.1 COOMET 888/RU/23 Development of COOMET Recommendation “Structure and requirements to digital calibration certificates for measuring instruments of COOMET Member States”

Speaker: A. Pankov, FG-DigTr Chairperson

Decision:

1. To take note of the information on approving the COOMET Concept on Digital Transformation in Metrology and Roadmap on its implementation as the COOMET Program P7/2023 (developed within COOMET 825/RU-a/21), as well as on the progress of implementing the activities provided in the Program.

3.2 COOMET 884/RU/23 Updating the COOMET Recommendation R/GM/32:2017 “Calibration of measuring instruments. Algorithms of processing measurement results and uncertainty assessment”

Speaker: A. Chunovkina

Decisions:

1. To take note of the information submitted by the Coordinator.
2. To ask the TC 1.1 Chairperson to provide information on updating the COOMET Recommendation R/GM/32:2017 “*Calibration of measuring instruments. Algorithms of processing measurement results and uncertainty assessment*” at the meeting of the Working Group on Fundamental Documents in Metrology (RG ODM NTKMetr). If interested, ask the RG ODM NTKMetr members to give their suggestions for updating.
3. To ask TC 1.1 members to provide their comments and suggestions on updating COOMET R/GM/32:2017 to TC 1.1 Secretariat at n.a.burmistrova@vniim.ru no later than December 15, 2023.
4. To ask the Coordinator of COOMET 884/RU/23 to review the suggestions and submit the updated Recommendation at the next TC 1.1 meeting.
5. To postpone the deadline for updating COOMET R/GM/32:2017 to 2024–2025.

3.3 COOMET 336/RU-a/05 Development and updating of the COOMET Recommendation R/GM/14:2016 “Guidelines for Data Evaluation of COOMET Key Comparison” (duration of works – 2022–2023)

Speaker: A. Chunovkina

Decisions:

1. To take note of the information provided by the Coordinator.
2. To keep COOMET R/GM/14:2016 in its current version and check its scientific and technical level no later than 2028 (i.e. after 5 years in accordance with COOMET D4/2022).

3.4 COOMET 727/RU-a/17 Development of the COOMET Information Material “Data modeling of National Measurement Standards comparisons”

Speaker: A. Chunovkina

Decisions:

1. To take note of the information.
2. To ask the Coordinator (A. Chunovkina) to continue working on the topic. To submit the information at the next TC 1.1 meeting.

3.5 COOMET 302/RU-a/04 Development and updating of COOMET Recommendation R/GM/19 “Guidelines on COOMET supplementary comparison evaluation” (deadline: 2022 – 2023)

Speaker: A. Chunovkina

Work on the topic is ongoing. Updating is carried out within the framework of the schedule for updating COOMET publications. The main changes to be adopted were presented.

Decisions:

1. To take note of the information provided by the Coordinator.

2. To ask the TC 1.1 Chairperson to send out the revised COOMET R/GM/19 to TC 1.1 members for approval.
3. To ask TC 1.1 members to submit their comments and suggestions on updating COOMET R/GM/19 to TC 1.1 Secretariat at n.a.burmistrova@vniim.ru no later than December 15, 2023.
4. To ask the Coordinator to finalize the updated Recommendation taking into account the submitted suggestions.
5. To ask TC 1.1 Chairperson to organize an electronic vote among TC 1.1 members on the updated Recommendation and submit the results to the JCMS approval.

3.6 COOMET 867/RU/23 Development of COOMET Recommendation on evaluation of COOMET pilot comparison data

Speaker: A. Chunovkina

Concept of works on developing COOMET *Recommendation on evaluation of COOMET pilot comparison data* was submitted. If the data are inconsistent, in general two models of inconsistent data can be considered: random-effects model and systematic-effects model.

Decisions:

1. To take note of the information provided by the Coordinator.
2. To ask the TC 1.1 Chairperson to continue work on the Recommendation, and to submit the first Draft at the next TC 1.1 meeting.

3.7 COOMET 866/RU/23 Updating COOMET Recommendation R/GM/31:2016 “Calibration techniques. General requirements”

Speaker: A. Tumilovich

Decisions:

1. To take note of the information provided by the Coordinator.
2. To ask the Coordinator to add the term “Calibration technique” («Методика калибровки»).
3. To ask TC 1.1 members to provide their comments and suggestions on updating COOMET R/GM/31:2016 to TC 1.1 Secretariat at n.a.burmistrova@vniim.ru no later than December 15, 2023.
4. To ask the Coordinator to finalize the updated Recommendation taking into account the submitted suggestions.
5. To ask TC 1.1 Chairperson to organize an electronic vote among TC 1.1 members on the updated Recommendation and submit the results to the JCMS approval.

3.8 COOMET 869/RU/23 Updating COOMET Recommendation R/GM/21:2011 “Use of concepts “error of measurement” and “uncertainty of measurement”. General principles”. COOMET 868/RU/23 Updating COOMET Recommendation R/GM/20:2009 “State system for ensuring the uniformity of measurements. Scales of measurements. Terms and definitions”

Speaker: A. Doynikov

Decisions:

1. To take note of the information provided by the Coordinator.

2. To approve the updating versions of COOMET R/GM/21:2011 and COOMET R/GM/20:2009.
3. To ask TC 1.1 Chairperson to submit the updated versions of COOMET R/GM/21:2011 and COOMET R/GM/20:2009 at the JCMS meeting for subsequent approval by the COOMET Committee.

3.9 COOMET 791/UZ/19 Development of COOMET Recommendation “Methods and approaches of metrological attestation of measurement techniques”

Speaker: N. Raimjonov

The participants exchanged their views on the topic’s relevance and the content of the proposed recommendation. It was advised to compile a bibliographic list of documents on this topic, as well as to develop a common understanding and definitions of the following concepts: testing method (метод испытаний), testing procedure (методика испытаний), verification (верификация), validation (валидация) and certification of test/measurement techniques (аттестация методик испытаний/измерений). Kyrgyzstan and Russia are ready to join this topic.

Decisions:

1. To take note of the information provided by the Coordinator (survey results).
2. To ask the Coordinator to make a decision on modifying the topic based on the discussion held, and to inform the TC 1.1 Secretariat about the decision by December 15, 2023.
3. To ask the Coordinator to finalize the survey containing the questions on the relevance of this topic and send it to TC 1.1 members no later than December 15, 2023.

4. On updating the COOMET Recommendations. Clarification of the Schedule for updating COOMET publications within TC 1.1 area of responsibility for 2023–2024

Updating COOMET Information Material I/IT/7:2016 “Assessing the accuracy of measurement results obtained using data processing software” (previously developed within the framework of 399/RU-a/07)

Speaker: A. Chunovkina

Decisions:

1. To take note of the information on the status of the publications.
2. To ask TC 1.1 members to provide comments and suggestions on updating the COOMET I/IT/7:2016 “Assessing the accuracy of measurement results obtained using data processing software” no later than December 15, 2023.
3. To take note of the information on the revision of OIML D31 “General requirements for software controlled measuring instruments” and, if possible, to take it into account when updating COOMET I/IT/7:2016.
4. To ask the TC 1.1 Chairperson to consider cooperation with TC 1.2 on this topic.

5. Discussion of prospects for cooperation and development of the TC 1.1 Work Program)

Speaker: A. Chunovkina

Decisions:

1. To take note of the information provided by the TC 1.1 Chairperson.
2. To ask the TC 1.1 members to continue working on the TC 1.1 projects and consider feasibility of starting new projects at the next TC 1.1 meeting.

6. On possibilities of the BIPM e-learning platform and on creation of COOMET training courses

Speaker: A. Chunovkina, N. Zviagin

The BIPM website hosts training courses on the BIPM platform (<https://e-learning.bipm.org/>). Now there are only 4 COOMET training courses. On behalf of TC 1.1, in 2023, together with the Secretariat a new course was prepared “Assessing comparison results. Rules, approaches, and COOMET experience”.

It is possible to post new metrological courses both in Russian and in English. The COOMET Secretariat provides all kinds of support in preparation of the training courses.

Decisions:

1. To take note of the information provided by the Head of the JCMS.
2. To ask the TC 1.1 members to send their suggestions for new COOMET training courses to the TC 1.1 Chairperson. To discuss the issue at the next TC 1.1 meeting.

7. Other

Discussed were hybrid comparisons and methods for getting CMCs using hybrid comparisons.

Decisions:

1. To take note of the COOMET’s position regarding hybrid comparisons, which considers such comparisons to be a special case of supplementary comparisons.
2. To take note of the following information:
 - when carrying out an interregional CMC review regarding the use of hybrid comparisons as a way to support CMC, COOMET makes decisions solely based on the point of the comparisons,
 - COOMET’s position on hybrid comparisons does not affect the ability of Member States to submit their CMC within a different RMO.

8. On date and place of the next TC 1.1 meeting

Speaker: A. Chunovkina

Decisions:

1. To hold the next COOMET TC 1.1 meeting in October 2024.
2. To inform the TC 1.1 members about the exact time, place, and format of the meeting no later than **August 1, 2024**.

TC 1.1 Chairperson

A. Chunovkina

TC 1.1 Deputy Chairperson

N. Burmistrova

