Information from the KCDB Office

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International des Poids et Mosuros

CCM Meeting June 2025

KCDB - CBKT online technical exchanges

https://www.bipm.org/en/committees/cb/cbkt

Capacity Building and Knowledge Transfer (CBKT) Programme

Online webinars

The online webinars will offer you the skills to use the KCDB tools for creation of CMCs, operation of the review process and piloting of comparisons, effectively.

→ Course information

Online Technical Exchanges

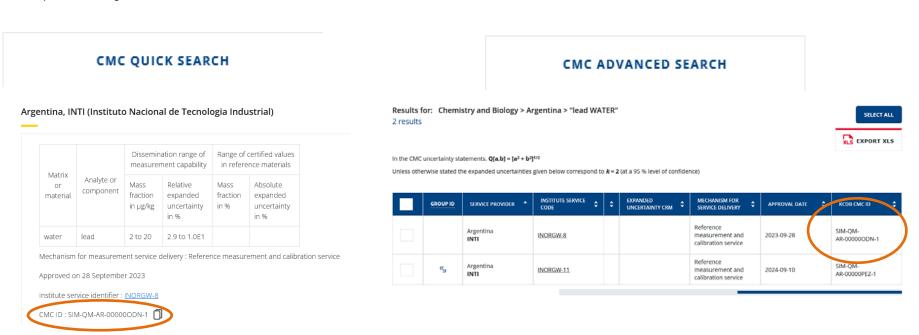




KCDB Software update in 2024

Display of the CMC PID in Advanced Search

Requested by: FORUM-MD-WG-CC Priorities for TG-SIDF



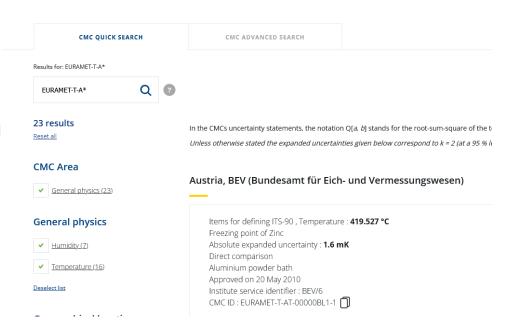
KCDB software update in 2024

Update of CMC QUICK SEARCH

Search using part KCDB CMC ID

- Use wildcard to search by part of CMC ID for instance, EURAMET-T-A*
- Use keyword AND and OR (in capital) for conditional search

for instance, EURAMET-T-A* OR EURAMET-L-A*



KCDB software update in 2025

Update of the module for the CMC statistics on the JCRB Review performance

Prototype Validation in progress

Statistics on CMC review

JCRB review statistics for the last twelve months

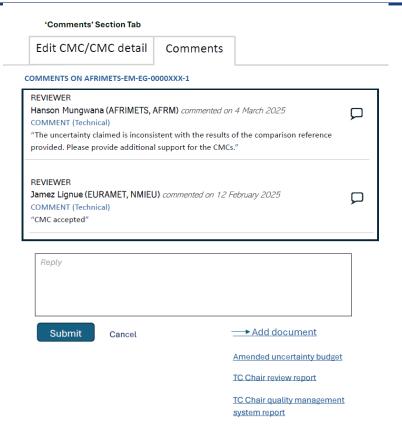
	AFRIMETS	APMP	COOMET	EURAMET	GULFMET	SIM
CMCs received for review						
Responded 'Will not review'						
No reply to review requests						
Accepted but did not complete the review						
Reviewed but did not vote when requested						
Total CMCs reviewed						
Total loss of rights						
CMCs reviewed as a percentage of CMCs received for review						

KCDB software update in 2025

Update of the comments tools

Improving the accessibility and usability of the comment tool by writers to address reviewers' comments during the JCRB review process

Specifications in progress



KCDB Updates in 2025

KCDB / CMCs parameters – implementation of a control menu in the submission form

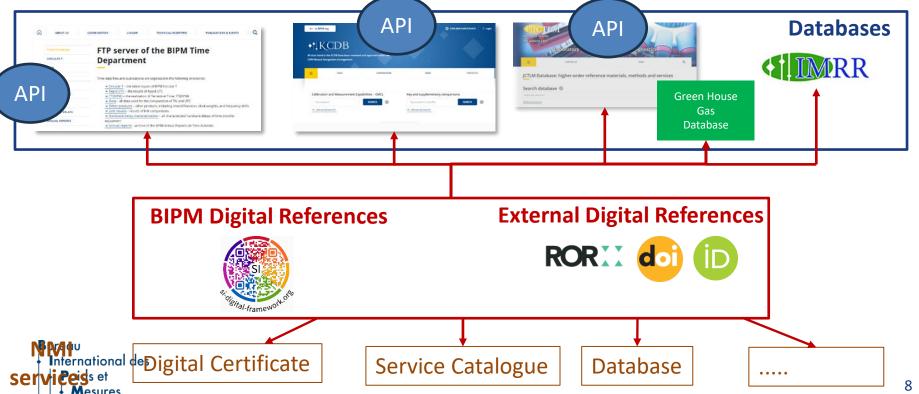
Requested by: CCPR WG CMCs for harmonization

→ Consultation amongst other CCs in 2025 for identifying their need

SI Digital Framework

To provide the globally accepted anchor of trust for metrology in the digital era





KCDB and digitalization

Update of KCDB API for CMCs Search

Requested by: FORUM-MD-WG-CC Priorities for TG-SIDF

- Expansion of the query to the record of no longer published CMCs
- Addition of PIDs for NMIs/DIs and Service Category

Work in progress

First phase of the development validated in 2024 KCDB API Prototype validated Revision of the Guidance in progress

Next step

Looking at how to integrate in the KCDB the SI Reference Point: namely kind of quantity > unit

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-H 'accept: application/ison' \
      -H 'Content-Type: application/json' \
       "page": 0,
       "pageSize": 20,
       "showTable": false.
       "keywords": "EURAMET-M-GB-00000FV3-2",
▼ data [1]
   ▼ 0 {39}
        id : 34488
        status : Published
        statusDate: 2021-06-01
        kcdbCode : EURAMET-M-GB-00000FV3-2
        domainCode : PHYSICS
        metrologyAreaLabel : M
        rmo : EURAMET
        countryValue : United Kingdom
        nmiCode : NPL
        nmildentifier: 136
        nmiRorIdentifier: 015w2mp89
        nmiWikiDataIdentifier: Q1967606
        nmiServiceCode : NPI /MM01
                                              publicationDate: 2021-06-01
        nmiServiceLink : value
                                              approvalDate : 2021-02-28
        quantityValue : Mass
      ▶ cmc {3}
                                              internationalStandard: null
      ▶ cmcUncertainty {3}
                                              branchValue: Mass, mass standards
        confidenceLevel: 95
                                              branchLabel: M/Mass
        coverageFactor: 2
                                              serviceValue : Mass
      ▶ uncertaintyEquation {2}
      ▶ uncertaintyTable {5}
                                              subServiceValue : Mass standard
        uncertaintyMode : Absolute
                                              individualServiceValue: Mass standard
        traceabilitySource : value
                                              physicsCode: 1.1.1
        comments: Uncertainty scales
                 knownfollowing the
                                              kcdbServiceCategory: M/Mass/1.1.1
        groupIdentifier : value
                                              INSTRUMENT - Mass Standar
                                              instrumentMethod: Comparison in air
                                           ▼ parameters [0]
```

https://kcdb2-dev.bipm.org:8443/api/kcdb/cmc/searchData/quickSearch'

KCDB and digitalization

KCDB / API for machine-readable comparison data (information and participants)

Requested by: FORUM-MD-WG-CC Priorities for TG-SIDF, CCL sWG-KC, COOMET Secretariat

Comparison information and participants

- Identifier
- List of participation labs including role (pilot, copilot, link, participant)
- Metrological area, sub-field, comparison type, body
- Description, Measurand, Transfer device
- Dates (creation, measurement start, measurement end,)
- Status, Validity
- Link to the CMC quantity
- Link to report
- · Link to protocol

→ Consultation amongst the CCs in 2025 for consolidation of meta data

KCDB - citable comparison reports

The workflow for publishing final comparison reports will have to be adapted, as the reports will no longer be published by IOPP as Technical Supplements of Metrologia from January 2026.

The KCDB Office and the BIPM webmaster developed technical specifications for implementing a new service for ensuring comparison reports are citable with assigned DOI.

Decision CIPM/113-29 (2024)

Thank you

Bureau International des Poids et Mesures

