



Interpretation of **Traceability** and **Change of Documents To Be Issued**

1 What is Metrological Traceability

● Introduction

Traceability documents have been recognized and established as the essential documents that “certify traceability”, which are now widespread in industries.

Documents Issued by Cosmo to “Certify Traceability”



Traceability Certificate of the standard (Charge-free)



Traceability Certificate of the product (Charged)



Calibration Certificate of the product (Charged)



Calibration Certificate of the standard (Charge)

These documents show that the standards with established traceability were used or were used for calibration.

1 What is Metrological Traceability

It's a mechanism to certify that measurement results are accurate.

It's an approach to conduct accurate calibrations by ILAC MRA-accredited calibration laboratories with reference to the national meteorological standards to determine where the measurement results stand when compared with the references.

“Metrological Traceability” is defined as below in the ISO/IEC Guide 99:2007 International vocabulary of metrology - Basic and general concepts and associated terms (VIM).

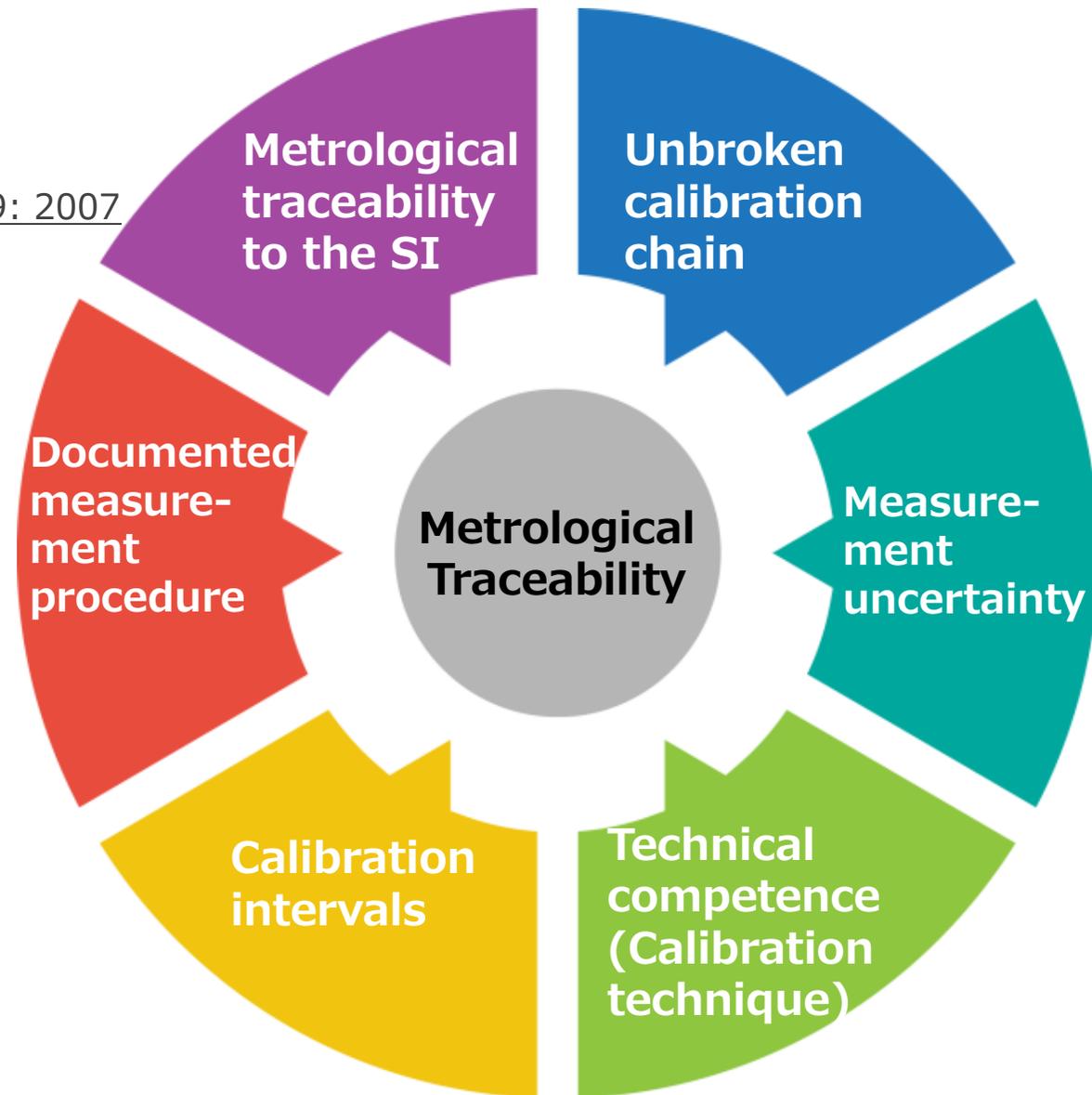
Property of a measurement result whereby the result can be related to a reference through a documented unbroken chain of calibrations, each contributing to the measurement uncertainty.

1 What is Metrological Traceability

It is realized by **"6 elements"**.

*Refer to NOTE 7 in 2.41 of the ISO/IEC Guide 99: 2007

- (1) Unbroken calibration chain
- (2) Measurement uncertainty
- (3) Technical competence (Calibration technique)
- (4) Calibration intervals
- (5) Documented measurement procedure
- (6) Metrological traceability to the SI



1 What is Metrological Traceability.....

It is becoming important to document and demonstrate the ability of tracing the measurement result to higher standards through an unbroken chain of calibrations.

These “6 elements” are most reliably and reasonably realized by calibrations by **ISO/IEC 17025-accredited** “calibration laboratories”.

“Calibration certificates with ilac MRA mark”
issued by the calibration laboratories are the evidence
of “Metrological Traceability”.



Therefore, explanatory papers will no longer be required

2 **Change of Documents To Be Issued**

Accordingly,

we will change the traceability documents to be issued as follows:

2 Change of Documents To Be Issued

Documents We Currently Provide with the Product

- (1) Traceability Certificate of the standard: Charge-free
- (2) Traceability Certificate of the product: **Charged**
- (3) Calibration Certificate of the product: **Charged**
- (4) Inspection Record of the product: Charge-free

* (2) and (3) are charged and available when requested.

- (1) Traceability Certificate of the standard
- (2) Traceability Certificate of the product
- (3) Calibration Certificate of the product

**To Be
Discontinued**

2 Change of Documents To Be Issued

Documents We Will Provide with the Product

(1) Traceability Certificate of the standard
(With the iLac MRA mark) :

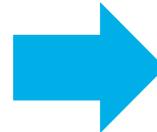
Charge-free



(2) Inspection Record of the product:

Charge-free

For the customers who need
traceability system diagrams:



**Simplified diagrams are
available.**

We will post the traceability
system diagrams on our website.