

Testing Standards Track Metrics

Draft-ietf-ippm-metrictest-02

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Adaptation of requirement language and minor changes

- ❖ The same statistical test as applicable to quantify precision of a
 - ❖ Old: ...single metric implementation **MUST** be passed to compare metric conformance of...
 - ❖ New: ...single metric implementation **MUST** be used to compare metric result equivalence for...

conformance of different implementations.

- ❖ Added text on clock requirements:

IF an implementation publishes a specification of its precision, such as "a precision of 1 ms (+/- 500 us) with a confidence of 95%", then the specification **SHOULD** be met over a useful measurement duration. For example, if the metric is measured along an Internet path which is stable and not congested, then the precision specification **SHOULD** be met over durations of an hour or more.

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Precision used in Comparison

Make sure you compare the network delay events with an ADK test (not clock noise).

- ❖ The actual timestamps often have 6 digit length and resolve to 1 μ s level, like eg.

One Way Delay: 882516

The digits resolving to [ms] granularity should vary similar as in the case of congestion to pass ADK when comparing different metric implementations.

The digits resolving to [μ s] granularity largely capture measurement gear internal noise. ADK likely fails even for single implementations.