Testing Standards Track Metrics

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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.
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 \( \mu s \) 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 [\( \mu s \)] granularity largely capture measurement gear internal noise. ADK likely fails even for single implementations.