

One Way Metric Applicability Statement draft-ietf-ippm-owmetric-as-00.txt

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http://www.ripe.net/test-traffic/

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Motivation

- Metrics for one way delay and loss
- Lots of parameters can be set by the user
- What is and what is not sensible?
- What to do when?



This draft

- First attempt to do this
 - Should have had version number -1 ⁽ⁱ⁾
- Comments and text from operators and other experiments needed
- Attempt to generate discussion



3.1 Measurement samples

- Frequency
 - Large enough notice effects
 - Small to keep data volumes low
- Ideal:
 - Formula or plot showing the probability to catch a network effect with frequency M when sending out packets with frequency N
- Psamp-BOF
- Statistician?



3.2 Packet Size

• Comments?



3.3 Timing issues

- Error estimates are necessary
- Check if clock is working properly



3.4 Test Duration

- Preference for continuous measurements
- How to report intermediate results then?



3.5 Data volume

- What is an acceptable data volume to test things?
- 3%?



4.1 When is a result different

- 2 distributions, when is set 1 different from set 2?
- When is there a reasonable probability that things have not changed and your network is OK
- Application dependent
- Defines setting for alarms



4.3 Average/Percentiles



- Distributions not Gaussian
- 2.5/median/97.5 does not work
- 2 percentiles



Classify IPDV distributions



• Class 1: $85^{\text{th}} \cong 97.5^{\text{th}}$

- 60%

- Fine for most applications
- Subclass 1A

Class 2: Long Tails

- 30%

- Occasional hick-ups



Classify IPDV distributions



- Class 3: Multiple peaks
 - 10%

- Relative height of the peaks?



6.0 Access to the data

- Minimum list of parameters to be recorded
- Mark Allman's effort



7.0 Control/configuration

 Define maximal acceptable time between setup of measurement and start of measurement?



9 Security

- DDoS if many sources start to send to a single receiver
- Overall check proposed



Any other issues that should be in this draft?