

**64th IETF Meeting - November 2005
IPPM Working Group**

draft-ippm-stephan-multimetrics-02.txt

Spatial and Multicast Metrics

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Presentation Overview

- Draft overview
- One new metric
 - Type-P-subpath-One-way-Delay-Stream
- Benefits of this metric
 - Pure passive measurement
 - Composition of metric

draft Overview

- o Version 1
 - one-to-group metrics
 - Mean: Overall QoS for a group of users;
 - Variation: QoS difference between users;
 - Spatial metrics
 - End to End performance decomposition
 - Segment performance
- o Current version changes
 - One new metric
 - Type-P-subpath-One-way-Delay-Stream

Version 2 : One new metric Type-P-subpath-One-way-Delay-Stream

"A sequence of one-way delays between 2 hops"

- o Like RFC2679 One-way-Delay-Stream
- o Between 2 hops instead of Src and Dst
- o Based on spatial one-way Delay definition

Type-P-subpath-One-way-Delay-Stream & pure massive measurement

- o Delay between 2 points of a path
 - Packet may be end-user packet
 - See PSAMP WG packet selection effort

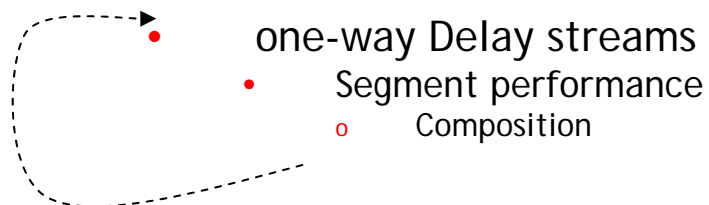
- o Methodology :
 - Spatial: e2e measure & passive observation
 - Pure Passive: Observation only

- o Common definition for both methodologies

- o Next step:
 - Defines passive-One-way-Delay-Stream
 - Based on subpath-One-way-Delay-Stream
 - Benefits:
 - Clearly details passive methodology aspects
 - Usage for composition (See AI Draft)

Connection with composition metric draft draft-morton-ippm-composition-01.txt

- o Implicit decomposition for
 - Type-P-One-way-Delay-Poisson-stream [RFC2679]
 - Type-P-One-way-Delay-Periodic-Stream [RFC3432]
- o Contribute to a clear composition framework



- o one-way Delay streams
 - Type-P-One-way-Delay-Poisson-Stream [RFC2679];
 - Type-P-One-way-Delay-Periodic-Stream [RFC3432];
 - Type-P-One-way-Composition-Stream [composition draft]
 - Type-P-subpath-One-way-Delay-Stream [multimetric draft]

Discussion

- o Items to discuss
 - Pure passive metric
 - Composition framework
 - Area Director feed back