Framework for Metric Composition + Spatial Composition of Metrics

AI Morton + many others
March, 2008
Overall Framework
(includes common concepts and definitions)

Temporal Aggregation Draft
Spatial Aggregation Draft
Spatial Composition Draft

... and maybe others

draft-ietf-ippm-spatial-composition-06

draft-ietf-ippm-framework-compagg-06.txt
Types of Composition

- Complete/Sub-Path (or Concatenation in Space)
- Aggregation in Time (12x5min stats ->1hr)
- Aggregat. in Space
Comments on 05 (pre-IETF70)

Reza Fardid

- Section 3.6 R-factor is a valid example of an index as defined here, however, it is composed of both IP performance metrics and analog metrics. In scope?
  - Loki’s point: Scope is Loss, Delay, and Delay Variation
  - Revised the Definition – Index is the result of a deterministic function and separate from the composition and aggregation
  - Refined example – now just the packet loss $I_{e-eff}$
  - This might fit better in the PMOL framework…

- Another example index composed of IP performance metrics is MDI, per rfc4445
  - Avoid referencing RFC Editor submissions
Comments on 05

Reza Fardid

- Section 4.1 Is the comment referring to forecasting of one metric from another, whose temporally aggregated measurements are available?
  - Clarified that this describes prediction among identical metrics
Comments on 05

Reza Fardid

- Section 4.5 Higher-order Composition: Another example will be helpful here.
  - Clarified the existing spatial comp example and added a temporal aggregation example.
Recent Comments on 05

Loki Jorgenson

- Section 3.2 - reference to "true path" with no entry under Terminology to define it. Suggest changing it to something more like "actual" (as used in "ground truth").
  - Agreed

- Section 5. - As I was dealing with IPR issues today and aspects of viral licensing, is it appropriate to include in any composition metric description IP references to embedded proprietary metrics and/or use of standards?
  - Standards may or may not have IPR
  - Added point at end of section: If IPR in the process, then Composed Metric may be encumbered, see BCP 79

- Section 4.1 – caution needed with regard to time-varying vs. time-invariant metrics
  - New section 6.4 deals with time varying metrics (concerns are not unique to composition)
Status of Framework 06

☐ Next Steps

- Address the recent comments?
- Consider this text sufficiently stable?
- If so, Convince more folks to Read and Comment on…
Revisions to Outline to keep in step with Framework Modifications up to 05
- “true foo” became “ground truth foo”

NEXT STEPS:
- Need Volunteers to read and comment