

Sampling and Filtering Techniques for IP Packet Selection - Update -

draft-ietf-psamp-sample-tech-03.txt

Tanja Zseby, FhG FOKUS

Maurizio Molina, NEC Europe Ltd.

Fredric Raspall, NEC Europe Ltd.

Nick Duffield, AT&T Labs

Changes

- Terminology
 - Some re-naming
 - pool size → population size
 - metering process → agreed on measurement process
 - Etc.
 - Full terminology section in both drafts (PS and FW)
 - FW and PS now nearly consistent
 - Few not yet fully agreed (e.g. “approximate” selection)
 - few changes in FW after submission of PS
 - → small adjustment needed
- New sub section 3.1.3: Overview on content-dependence
 - Table about content-dependence of schemes

Content Dependence

Sampling Scheme	Content-independent	Content dependent
Systematic count-based	X	
Systematic time-based	X	
Random n-out-of-N	X	
Random uniform probabilistic	X	
Random non-uniform probabilistic		X
Random non-uniform flow state		X

Changes

- Clarification on Associations to IPFIX
 - Packet selectors **can be** part of the IPFIX metering process
 - Relation expressed in association
 - ➔ Packet selectors could also be associated to other metering processes
- Hash-functions for Hash-based selection
 - ➔ Specified in separate draft
- Explicitly stated that it is sufficient to implement **one** of the proposed schemes:
 - “In order to be compliant with PSAMP it is sufficient to implement one of the proposed schemes.”
- Minor changes
 - Abbreviations explained
 - Re-phrasing

Open Issues

- Configuration of non-uniform probabilistic:
 - Calculation function for sampling probability p
 - Specify some exemplarily ? which ? extra draft as for hash needed ?
 - Or only method in info model with vendor specific parameters ?
- Configuration of flow state sampling
 - Parameters differ dependent on scheme
 - Specify some (e.g. sample and hold) ?
 - Or only method in info model with vendor specific parameters ?
- Wording:
 - Hash based sampling is
 - Random sampling **emulation** (some didn't like this)
 - or random sampling **approximation** (I don't like this)
 - Better term ?
- Operating time
 - Start and stop time of the sampling process
 - Proposed to be removed in last teleconference

Thank you for your attention !

Questions ?