PSAMP Information Model

IETF-65 March 22nd, 2006

<draft-ietf-psamp-info.txt>

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New sections

• PSAMP Documents Overview

• Terminology

• Overloading Information Elements
Closed Issues

- Many Open Issues closed.
  
  most were proposals, now written into the body of the text.

  For example, “PROPOSAL: we won't overload Information Elements with multiple meanings or re-use them for multiple purposes” has become the new “Overloading Information Elements” section.
New Open Issue:

• Should the `ipHeaderPacketSection` and `mplsLabelStackSection` also report payload contents if the specified section length is longer than the header or stack size, respectively?

• **PROPOSAL:** define that the section contains a series of octets starting from the beginning of the IP header / label stack and continuing through the payload up to the limit of the available data.

- discussion on the mailing list.
New Information Elements

- `informationElementId`
- `observationTimeSeconds, observationTimeMilliSeconds, observationTimeMicroSeconds, observationTimeNanoSeconds`
- `digestHashValue`
- `hashIPPayloadOffset, hashIPPayloadSize`
- `hashOutputRangeMin, hashOutputRangeMax`
- `hashSelectedRangeMin, hashSelectedRangeMax`
- `hashDigestOutput`
- `hashInitialiserValue`
Renamed Information Elements

- pathId → selectionSequenceId

- l2HeaderPacketSection, l2PayloadPacketSection → dataLinkFrameSection

- samplingProbabilityN, samplingProbabilityM → samplingProbability

- accuracy → fixedError, relativeError
Deleted Information Elements

- selectorInputSequenceNumber
  - same as packetsSelected

- meteringProcesssId
  - already exists in IPFIX!

- selectorType
  - combined with selectorAlgorithm
selectorAlgorithm

Removed:

- Non-uniform probabilistic sampling
- Non-uniform flow state sampling
- Match based filtering
- Hash based filtering
- Router state filtering

Added:

- Property match filtering
- Hash based filtering using BOB
- Hash based filtering using IPSX
- Hash based filtering using CRC

• The intention is that in future, the selectorAlgorithm registry will be maintained by IANA.
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