Information Elements for Flow Performance Measurement

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< draft-akhter-ipfix-perfmon-01>

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A little bit of history

- draft-akhter-ipfix-perfmon-00/01, Oct 17/25
- IPTV Traffic Monitoring System with IPFIX/PSAMP, NMRG IETF78
- I-D.huici-ipfix-sipfix, Jun 22 2009
  SIPFIX: Use Cases and Problem Statement for VoIP Monitoring and Exporting
- I-D.ietf-pmol-metrics-framework
- I-D.ietf-pmol-sip-perf-metrics
- nProbe support for RTP
- RFC4710 - Real-time Application Quality-of-Service Monitoring (RAQMON) Framework
- RFC3550 RTP

Received some good feedback from Rahul Patel, Jan Novak, Al Morton, Shingo KASHIMA
• Measure and report performance of network and applications
  Validate SLAs
  Fault isolation
  Early warning

• Provide context for reporting

• This is not directly about RTP, audio/video
Rev -01, IEs

• **Transport Layer**
  - perfPacketLoss
  - perfPacketExpected
  - perfPacketLossRate
  - perfPacketLossEvent
  - perfPacketInterArrivalJitterAvg
  - perfPacketInterArrivalJitterMin
  - perfPacketInterArrivalJitterMax

• **User and Application Layer**
  - perfSessionSetupDelay

• **Contextual Element**
  - mediaRTPSSSRC
  - mediaRTPPayloadType
  - mediaCodec
Directions

- Use PMOL guidelines for measurement methodology
- Separate measurements from reporting?
  - Per (transport) protocol measurement methodology docs
  - Reduced number of IPFIX reporting docs
Issues

• New data types / semantics
  Percentage
  Floating point
  Etc

• How to express ‘not applicable’

• Better define timing methodology
Summary

- Draft out for review
- Decide on measurement separation
- Post new version(s)
- WG item?