Information Elements for Flow Performance Measurement

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< draft-akhter-ipfix-perfmon-01>

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A little bit of history

Received some good feedback from Rahul Patel, Jan Novak, Al Morton, Shingo KASHIMA

- 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 VolP 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

Intro

 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 mediaRTPSSRC 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 methodoogy

Summary

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