Information Elements for Data Link Layer Traffic Measurement

draft-kashima-ipfix-data-link-layer-monitoring-07

draft-ietf-ipfix-data-link-layer-monitoring-00

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Introduction

- This is the WG version of draft-kashima-ipfix-data-link-layer-monitoring-07.

- This document lists a series of new Information Elements for data link layer monitoring.

- The draft has been slowly evolving over the last 3 years.
Changes in -00

- **Change of authors**
  - the NTT team are unable to take the work forward at this time.

- **Changed export IDs 347 through 354 to “TBD”**
  - the authors had thought these IDs were reserved, but they’ve been allocated for other purposes.

- **Minor edits:**
  - removed unused references
  - typos corrected
Plan

- Resolve open issue (see next slide)
- Produce -01 for WGLC.
Open Issue

- New Information Elements related to packet section (ie, `sectionOffset` and `sectionObservedOctets`) can be applied not only to `dataLinkFrameSection` but also all kinds of packet section:
  - `ipHeaderPacketSection`, `ipPayloadPacketSection`  
  - `mplsLabelStackSection`, `mplsPayloadPacketSection`.

- Three proposals:
  1: modify the existing packet section Information Elements Descriptions
  2: deprecate existing packet section Information Elements and create new ones
  3: `sectionOffset` and `sectionObservedOctets` don’t apply to existing packet section Information Elements

- Looking for WG feedback.
Open Issue: proposal 1

- modify the existing packet section Information Elements Descriptions. eg for ipHeaderPacketSection:

  This Information Element, which may have a variable length, carries a series of octets starting sectionOffset octets from the start of the IP header of a sampled packet. With sufficient length, this element also reports octets from the IP payload, subject to [RFC2804]. See the Security Considerations section. The size of the exported section may be constrained due to limitations in the IPFIX protocol. The data for this field MUST NOT be padded unless sectionObservedOctets is also reported.