

# Information Elements for Data Link Layer Traffic Measurement

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

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

Shingo Kashima, Paul Aitken

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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.**