

Guidelines for Authors and Reviewers of IPFIX IEs (draft-trammell-ipfix-ie-doctors-01)

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IE-DOCTORS in a nutshell

- IPFIX expanding into new application areas
- Most new applications just need new IEs
- → Streamline and improve IE definition process
 - Enable domain experts to specify new IEs and applications with assistance from IPFIX experts, or IE-DOCTORS.
 - Provide processes in line with RFC 5102 and existing IANA Expert Review process.

New in draft-trammell-03

- 4.10 Avoiding Bad Ideas in Information Element Design
 - IE-DOCTORS guidelines basically say "when you make new IEs, make them look like old IEs."
 - But: some old IEs are simply broken.
 - initiatorOctets/responderOctets: duplicates 5102, 5103 IEs
 - *Technology: string instead of three-state enum
 - mplsLabelStackSectionN: implicit multiplicity
 - Provide examples, refer to rules, note exceptions

New in draft-trammell-03

- New guidance on using types effectively in §4.2
 - in short: IPFIX provides a lot of useful types, use them appropriately.
- Split and improve §4.5/§4.6
 - IE internal structure and IE multiplicity are two separate issues; treat them as such.
 - Improve guidance on permitted internal structure in IEs in §4.5
 - Improve guidance on representing variable-multiplicity information in §4.6

Comments for ietf-00

- David Harrington:
 - explicitly separate things which can be checked automatically from those which are subjective
 - review MUSTS and SHOULDs with an eye toward which conditions would be errors/warnings from the POV of an automated verification tool
 - echo MIB-Doctors recommendations on minimizing impact extensions to the information model
 - work to reduce load on appointed IE doctors

Next steps

- Submit ietf-00
 - Incorporate comments from David Harrington, others
- WGLC before Paris