An IPFIX-Based File Format
draft-trammell-ipfix-file-04

http://www.ietf.org/internet-drafts/draft-trammell-ipfix-file-04.txt

Brian Trammell, Elisa Boschi,
Lutz Mark, Tanja Zseby, Arno Wagner

Tuesday, July 24, 2007

IETF 69 - Chicago, Illinois, USA

IPFIX Files in Review

- ## Standard flow storage format useful for interoperability and implementation reuse.

- ## Flat binary files ideal for flow storage

  - Wide variety of operations available on files.
  - Flow data not semantically complex.
    - Limits applicability of RDBMS.
  - Low variety in record structure relative to data volume.
    - Limits applicability of XML.

- ## IPFIX message format ideal for flow records

  - templates provide extensibility and self-description.

Changes since -03

- ## Self-Description moved to a new Extended Type Information draft

  - Extended type information for enterprise IEs useful on the wire.
  - Submitted as draft-boschi-ipfix-ext-type-00

- ## Provisional Indexing support

  - limited ToC information using time window options and commonPropertiesID.

- ## Direct support for storage of collection infrastructure details

  - Options templates for storing collection endpoint and timing information on per-session and per-message basis.

Changes since -03, continued

- ## Applicability to IPFIX-based collection infrastructures

  - Collecting Process testing
  - Collecting Process backend storage

- ## Expanded treatment of compression and encryption error recovery

  - Recommend shift of resynchronization burden to reader.
  - Guidelines on reducing and eliminating error cascade.

- ## Various text expansion, clarification, and cleanup

The Future

- Continue to gain implementation experience with IPFIX files.

  – One additional known implementation since Prague.

- Adoption as a WG charter item

  – Concept well developed, some technical details to finish working out.

  – Should be considered for adoption together with Extended Type Information draft, as it requires it as a normative reference

Questions and Discussion