Reducing Redundancy in IPFIX and PSAMP Reports

draft-ietf-reducing-redundancy-03

Elisa Boschi,
Lutz Mark,
Benoit Claise

STATUS

- Working Group Last Call in December 2006
- Post-LC version (-02) published in February 2007
- Version -03 (only nits corrected) currently under IESG Review

CHANGES: New structure

1. Introduction
2. Terminology
3. Specifications for bandwidth saving information export
3.1. Problem Statement and High Level Solution
3.2. Data Reduction technique
4. Transport Protocol Choice
4.1. PR-SCTP
4.2. UDP
4.3. TCP
5. commonPropertiesID Management
6. The Collecting Process Side
6.1. UDP
6.2. TCP
7. Advanced Techniques
7.1. Multiple Data Reduction
7.2. Cascading Common Properties
8. Export and Evaluation Considerations
8.1. Transport Protocol Choice
8.2. Reduced Size Encoding
8.3. Efficiency Gain

Cascading Common Properties

- Common Properties can be defined in terms of other Common Properties
- Circular definitions
  - “any set of Common Properties which contains, either directly or via other cascaded Common Properties, references to itself in its own definition”
  - are NOT ALLOWED
- References other Common Properties MUST be promptly resolved
- Ordering must be maintained

OTHER CHANGES

- Document in line with IPFIX-PROTO
- Multiple data reduction text has been modified to better show its potential
- Removed templateID as scope for Common Properties
- Reduced size encoding is RECOMMENDED
- 3 examples:
  - Single (per-packet) data reduction
  - Multiple (flow) data reduction
  - CP Withdraw Message

...and of course:

- Cf. the long list of emails on ipfix@ietf.org
- Language (many clarifications)
- Examples
  - RFC3849-compliant addresses
  - Removed Enterprise-specific IE
  - iImproved Figures
- Editing checks
- ...

CONCLUSIONS

- Thanks to all those who have sent feedback to the mailing list!