Reducing redundancy in IPFIX and PSAMP reports

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Facts

- Submitted as IPFIX WG Item in August 2006
- Milestone: November 2006
- Document reasonably complete
- Feedback welcome
Changes from version -00

- Overall text improvement, Clarifications
- New definition of Transport Session [IPFIX-PROTO]
- Section 3 “Problem Statement and High Level Solution” rewritten for clarity
- The Collecting Process Side, reorganised:
  - Default SCTP, separate sections for TCP, UDP
  - More details given for UDP, similar to [IPFIX-PROTO]
- New example “commonPropertiesID Template Withdrawal Message“ in the Appendix
commonPropertiesID

- The commonPropertiesID is an identifier of a set of common properties that is locally unique per Observation Domain and Transport Session.
  - Similar to TemplateID uniqueness in [IPFIX-PROTO]

- commonPropertiesID and templateID have a similar management

- IPFIX/INFO should be updated
Document outline

- Introduction (IPFIX and PSAMP Documents Overview)
- Terminology (Terminology Summary Table, IPFIX Flows versus PSAMP Packets)
- Problem Statement and High Level Solution (Per Flow / Per Packet Data Reduction)
- Specifications for bandwidth saving information export (Per Flow / Per-Packet Data Reduction)
- Transport Protocol Choice (PR-SCTP, UDP, TCP)
- commonPropertiesID Management
- The Collecting Process Side (UDP, TCP)
- Export and Evaluation Considerations
  - Transport Protocol Choice, Reduced Size Encoding, commonPropertiesID vs. TemplateID scope, Efficiency Gain
- IANA and security considerations
- Appendix A: Examples:
  - Per Flow Data Reduction, Per-Packet Information Export, commonPropertiesID Template Withdrawal Message
Conclusions

- The authors think the draft is quite complete
  - Last call?

- Reviews and comments welcome!