IPFIX Mediation: Framework

draft-ietf-ipfix-mediators-framework-04

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What is this draft?

- Describes a generalized concept for IPFIX Mediation and its high-level architecture, key IPFIX Mediation architectural components

- Draft outline is as follows.
  - IPFIX Mediation reference model
    - Shows high-level architecture
  - IPFIX Mediation Functional Blocks
    - Describes necessary functions for specific Intermediate Processes.
      - Intermediate Conversion/Selection/Aggregation/Anonymization/Correlation Process
  - Consideration points for the IPFIX Message header encoding
  - Relevant Information Model
Status

- Posted version -04 in October
  - Changes from -03 to -04
    - Introduces Intermediate Conversion Process
    - Lists up the functions for each process
    - Added bidirectional Flow composition in Intermediate Correlation Process description
    - Added Component Combination section, describing parallel or serial connection of Intermediate Processes
- There is no open issue among co-authors.
Intermediate Conversion Process

- Transforms non IPFIX into IPFIX
  - Transforms a record stream into Data Records
    - Transforms additional information (sampling parameters) into Data Records
    - Converts the Information Element IDs
  - Sets the trigger for EP to export IPFIX Template Withdrawal Messages when Templates become invalid
  - Maintains the mapping information about Transport Sessions, Observation Domain IDs, and Template IDs on the incoming/outgoing sides

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Typical Functions

- Generates a new record stream from an input record stream including context information
- Reports statistics and interpretations from an Original Exporter
- Maintains several data:
  - Configurable relation between CP(es)/MP(es) and EP(es)/other IP(es)
  - Database(s) of all the Data Records in the case of aggregation/correlation
  - Statistics Information on the Intermediate Process itself
  - Additional information related to Original Exporter
Next Step

❖ Needs to be consistent with problem statement draft
  □ I will post new version after posting PS draft.

❖ Needs some feedbacks:
  □ from point view of Mediation Protocol draft
  □ from IPFIX members

❖ After resolving some issues in Mediation Protocol draft, it can go on WGLC.