IPFIX Mediation: Framework

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draft-ietf-ipfix-mediators-framework-05

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History

- Submitted -04 version on October 2009.
- Received comments from Dan.
  - In luck, Dan reviewed it along with problem statement draft. ;-)
  - All comments from Dan are solved in -05.
- Submitted -05 version on March.
  - Changes from -04 to -05
    - Improved wordings from Gerhard’s detail review.
    - Feedbacks from problem statement draft
      - Deleted terms: IPFIX Proxy, Concentrator, Distributor, Masquerading Proxy
  - There are still some open issues.
Observation Domain ID (ODID)

- Does ODID from Mediator indicate the largest set of Observation Points?
  - In some cases, No, e.g., aggregation for Flow Records.

- Can Collector know the ODID value from Original Exporter?
  - Yes. An IPFIX Mediator has a function to export observation location information.
  - As far as privacy policy permits, the Mediator reports the information to a Collector.

- What does observation location info include?
  - Original Exporter IP address
  - Observation Domain ID
  - If possible, port number
  - Different Exporting Processes on a Collector can be identified.
How to export the information

- How does Mediator export the observation location information?
  - This information is inserted into Data Records.
  - This information is encoded by using “commonPropertiesId” [RFC5473].
How to verify the identity of an Exporter

How does Collector verify the identity of Original Exporter?

a) Mediator exports the certificate of Original Exporter.

b) Mediator exports the report to verify the identity of the Original Exporter.
How to verify the confidentiality

How does Collector verify the confidentiality of Transport Session between Original Exporter and Mediator?

- Mediator exports the report about the confidentiality of incoming Transport Session.

I can not verify the confidentiality from Original Exporter.

Incoming Transport Session does not use TLS/DTLS.
Added possible new IEs

- Observation location information:
  - Original Exporter IP address, Observation Domain ID, and source port number about the Transport Session at Original Exporter
- Certificate of an Original Exporter
- Report that Mediator verifies the identity of an Original Exporter
- Report about the confidentiality for incoming Transport Session between an Original Exporter and an IPFIX Mediator
Next Step

- All feedbacks from problem statement draft will be included in next version.
  - I am preparing next version as follows.
    - http://www.nttv6.net/~akoba/wdiff-fk05-fk06-01.html
    - Need to be consistent with Mediation Protocol draft.
    - Submit it within April.

- And then it will go to WG Last Call.