Specifications of the Protocol for IPFIX Mediations

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<draft-claise-ipfix-mediation-protocol-03.txt>

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Mediation Related Drafts

IPFIX Mediation: Aggregation
draft-trammell-ipfix-a9n-02

IPFIX Mediation: Flow Selection
(still some feedback on the list)

IPFIX Mediation: Anonymization
(RFC-EDITOR)

IPFIX Mediation: Problem Statement
(RFC5982)

IPFIX Mediation: Framework
(RFC6183-to-be)

Sometimes some generic solutions for all Intermediate Process Types
Sometimes some specific solutions per Intermediate Process Type
New in this Version

• ACTION from the last IETF
  Check that all documents (this one, [IPFIX-MED-ANON], [IPFIX-MED-FLOWSEL], [IPFIX-MED-AGGR]) all fit together

• DONE in this version
  For example, all the terminology is in line.
  Review from Brian & Benoit on [IPFIX- MED-FLOWSEL]
New in this Version: Template Mapping

• Template Mapping

A mapping from Template Records and/or Options Template Records received by a Mediator to Template Records and/or Options Template Records sent by that IPFIX Mediator. Each entry in a Template Mapping is scoped by incoming or outgoing Transport Session and Observation Domain, as with Templates and Options Templates in the IPFIX Protocol.
New in this Version: Template Management

• We were able to classify all Intermediate Process into 2 categories:
  
  Template Management Without Template Record Change (Example: Distributor)
  
  Template Management With Template Record Change (Example: aggregation)

• We gave some examples, also including the Template Mapping.
Template Mapping example (Distributor)
Template Mapping example (Distributor)

- **Template Entry A:**
  
  Incoming Transport Session (from Exporter#1):
  
  Source IP: <Exporter#1 export IP address>
  
  Destination IP: <IPFIX Mediator IP address>
  
  Source Port: <source port>
  
  Destination Port: 4739 (IPFIX)
  
  Observation Domain Id: <Observation Domain ID>
  
  Template Id: 258
  
  Flow Keys: <series of Flow Keys>
  
  Non Flow Keys: <series of non Flow Keys>

- **The Template Mapping:**
  
  Template Entry A <----> Template Entry B
  
  Template Entry A <----> Template Entry C
  
  Template Entry A <----> Template Entry D
New in this Version

- Observation Domain Management: new section based on Template Mapping notion
- New section on configuration management
- 3 new Informations Elements: `originalExporterIPv4Address`, `originalExporterIPv6Address`, and `originalObservationDomainId`
- We have resolved all the open issues.
- This draft fits the mediation requirements, the framework, the anonymization, and the aggregation drafts.
What’s next?

• We have resolved all the open issues.
• This draft fits the mediation requirements, the framework, the anonymization, and the aggregation drafts
  
  Have to double-check for latest version of [IPFIX- MED-FLOWSEL]