

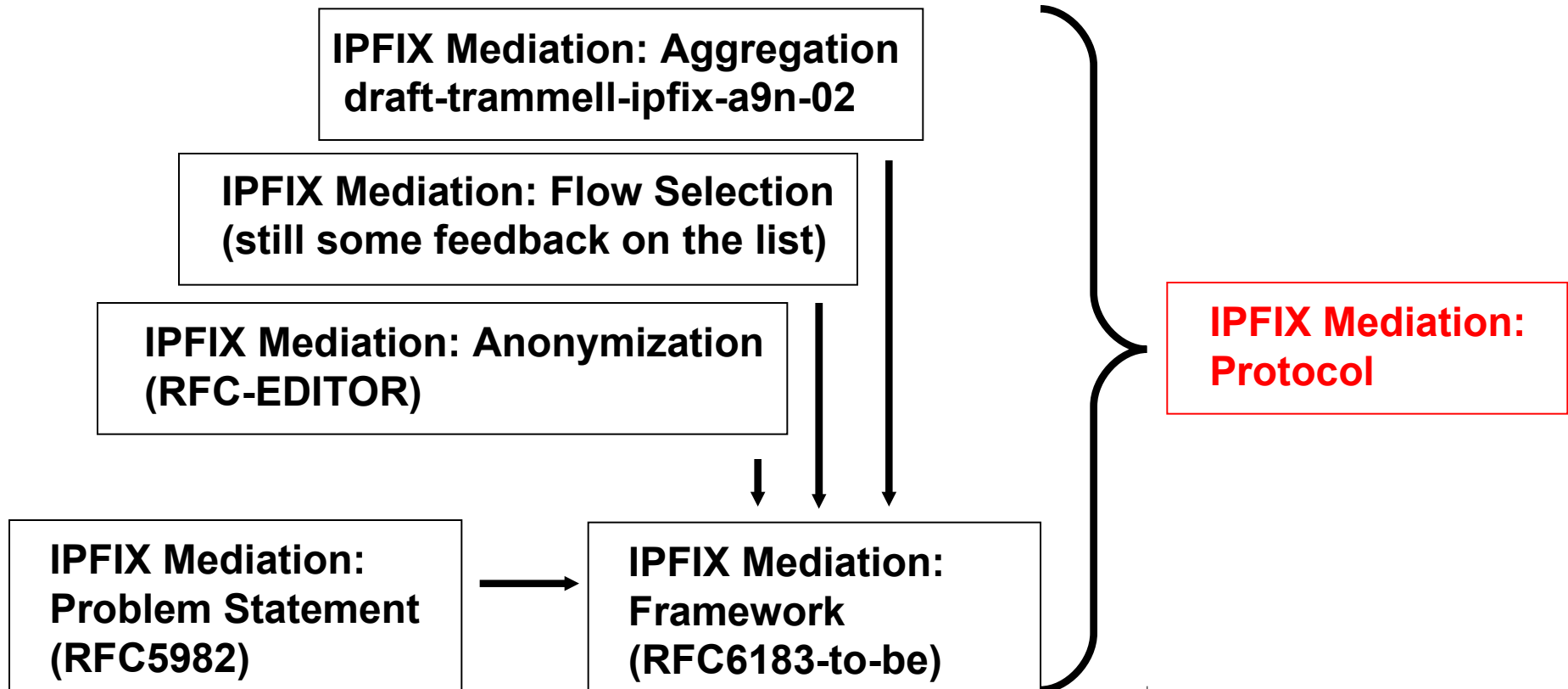
Specifications of the Protocol for IPFIX Mediations

IETF-80, March 2011

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

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Mediation Related Drafts



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
Entry A

Entry B

Entry C

```

      .-----|Templ.|-----|
      ID 256 | | |
      .---->|Collector|<==>Customer
      | | |#1 | |#A
      | | | | |
      RD=100:1 |-----|

      .-----|Templ.|-----|
      | | |Id | | |-----|-----|
      | | |258 | | |RD=100:2 | | |
      |IPFIX |----->|IPFIX |----->|Collector|<==>Customer
      |Exporter | | |Mediator | Templ. |#2 | |#B
      |#1 | | | | |ID 257 | | |
      | | | | | |-----|-----|
      |-----|-----| | |
      | | | | |
      RD=100:3
      Templ. | | |-----|
      ID | | | |
      D 257 |----->|Collector|<==>Customer
      | | |#3 | |#C
      | | | | |
      |-----|-----|
  
```

Entry D

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]