

# Specifications of the Protocol for IPFIX Mediations

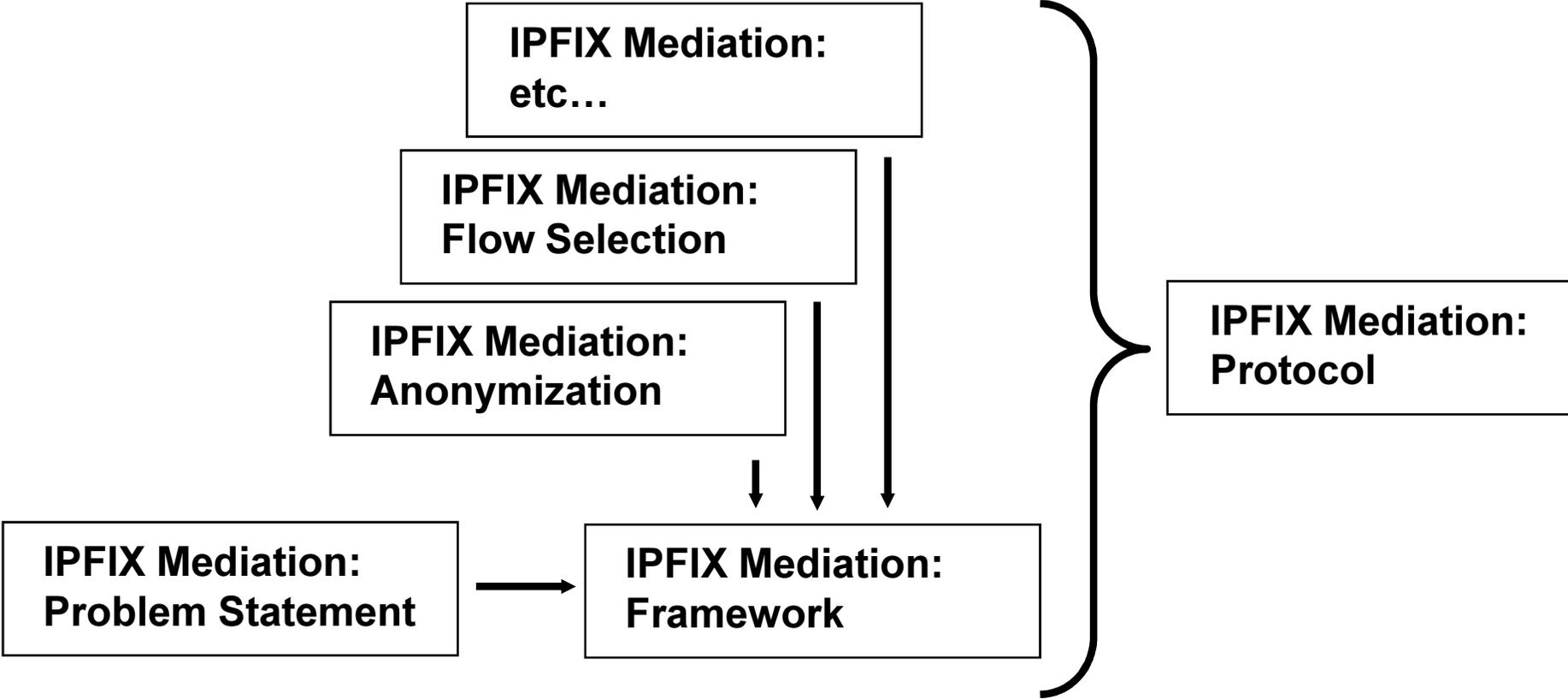
IETF-77 March 23rd, 2010

**<draft-claise-ipfix-mediation-protocol-01.txt>**

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# Work Justification

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**Sometimes some generic solutions for all Intermediate Process Types**

**Sometimes some specific solutions per Intermediate Process Type**

# Introduction

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- **Not a complete new protocol, but a series of conventions on the top of the IPFIX protocol RFC5101**
- **Draft must evolve with the [IPFIX-MED-FMWK] draft**

**For example, section 7 “Encoding for IPFIX Message Header” discusses the export time and observation domain id**

# New in this Version

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- **A lot of feedback received from Paul Aitken on the version 00**
- **Terminology in line with the mediation problem statement and framework**
- **Proposed text for the observation domain management**

**When mixing Data Records from multiple IPFIX Messages received from multiple Observation Domains, or generating new Data Records from the result of some intermediate function on Data Records from multiple IPFIX Messages received from multiple Observation Domains, a Mediator MUST assign a new Observation Domain ID for the exported IPFIX Messages.**

# New in this Version

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- **Time management section populated**  
the typical reporting times are the minimum of the start times and the maximum of the end times
- **A new Information Element:**  
originalExporterIPAddress
- **Completed the Security Consideration section**

# **Open Issue: Observation Point**

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- **If an IPFIX Mediator observes data records from multiple observation points, which one does it report?**
- **Proposal: we use the IPFIX Structured Data to compute an aggregated OP**

**The semantic field will help**

# Open Issue: Aggregation Function

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- **What about the aggregation of filtering and sampling function?**
- **Should we export the aggregation/correlation functions of an IPFIX concentrator?**
- **Note: there is no draft specific to the intermediate aggregation process**

**Many problems are specific to the aggregation:  
new times, new observation point, new  
observation domain, ...**

## **Open Issue: Misc.**

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- **Do we need a new originalObservationDomainId I.E.?**
- **Do we need a Flow Key List Options Template?**
- **Etc...**
  
- **Can we resolve some of the issues now?**