
Configuration Data Model for IPFIX and PSAMP

draft-muenz-ipfix-configuration-02.txt

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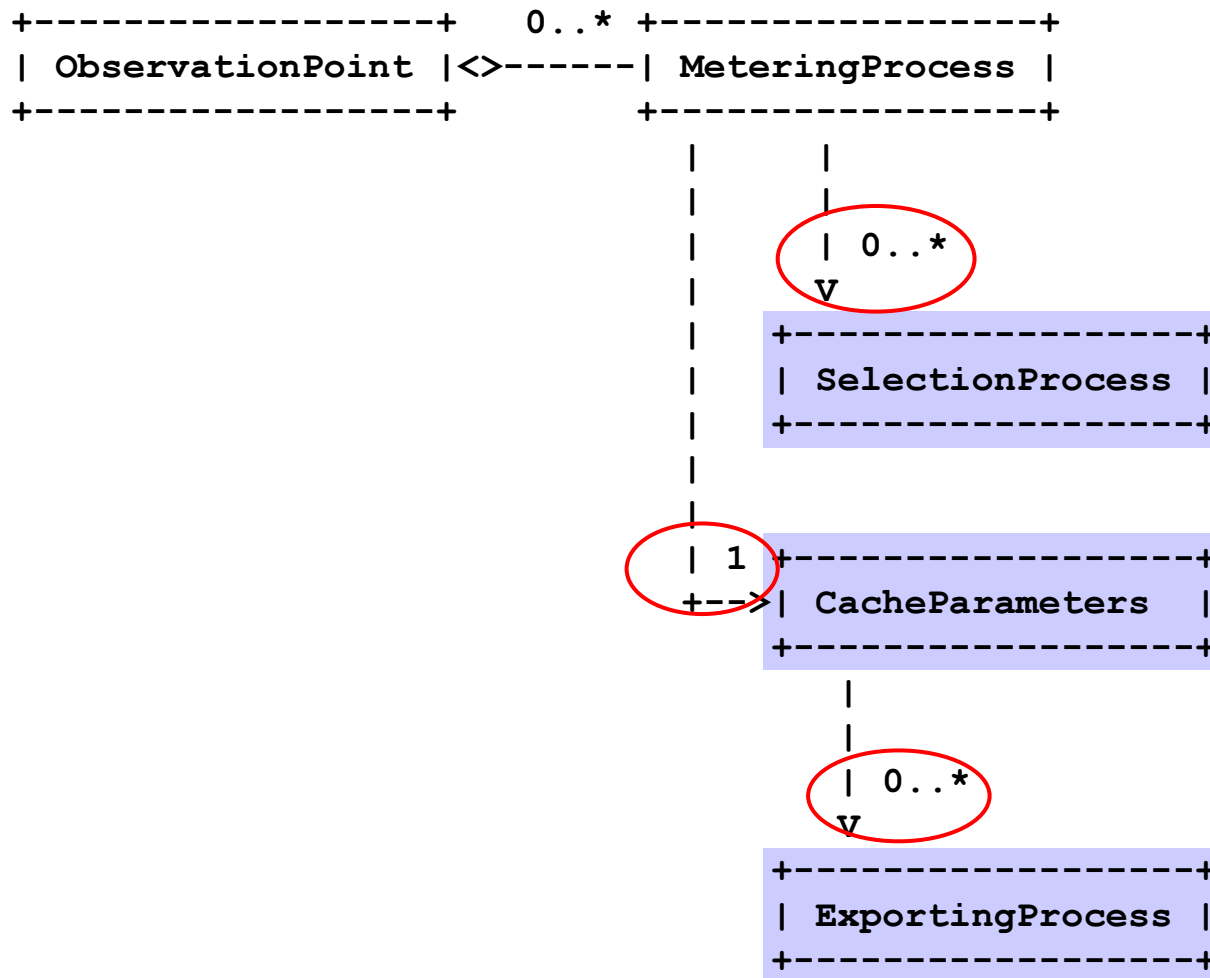
Purpose of the draft

- ▶ **XML based configuration data model** for IPFIX and PSAMP compliant monitoring devices
- ▶ Current focus on exporters and collectors, but also applicable to concentrators, mediators etc.
- ▶ Includes the configuration of the Metering Process, for both IPFIX and PSAMP [PSAMP-TECH]

Changes in -02

- ▶ **New structuring** of the configuration data based on:
 - abstract views of *IPFIX architecture* and *PSAMP framework*
 - IPFIX and PSAMP MIB modules
 - practical implementation experience and existing configuration schemes
 - ▶ Vermont (A Versatile Monitoring Toolkit for IPFIX and PSAMP)
 - modular software implementation of IPFIX/PSAMP, supporting rule-based flow aggregation
 - XML based configuration file format, remote configuration with Netconf
 - ▶ Flexible NetFlow building blocks
 - CLI based
- ▶ Data model specified and explained using **UML class diagrams**
- ▶ Various small changes in the set of configurable parameters

UML Diagram of the Data Model (Exporter only)



The data model configures **instances of Selection Processes, Caches, and Exporting Processes** which are combined and linked to an Observation Point by **associations**

➔ allows using a Selection Process instance at different Observation Points, an Exporting Process instance with multiple Caches etc.

Call for Comments

- ▶ Please **read the draft and give feedback** to the authors

- ▶ If you are an implementer:
 - check if the configuration data model is suitable for your IPFIX/PSAMP implementation

- ▶ **Participate in the discussion** about the open issues (see Section 1)

- ▶ Shall XML based configuration become a new WG charter item?