

# **Flow Selection Techniques**

draft-ietf-ipfix-flow-selection-tech-01.txt

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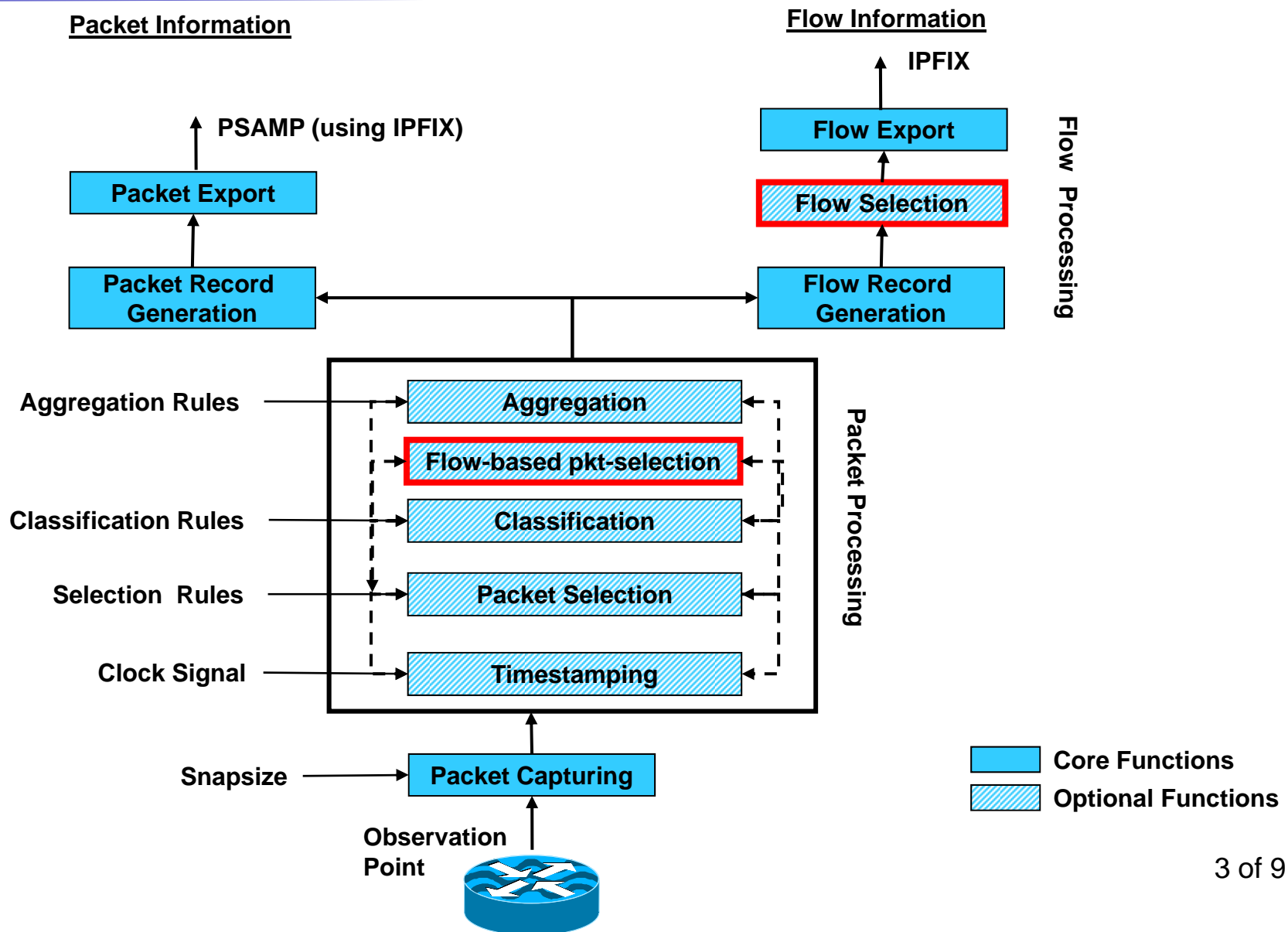
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# Motivation

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- Resource control
  - Traffic highly dynamic
  - Number of flows hard to predict
  - Resources limited
- Selection objectives
  - Limit resource consumption
  - Select only flows of interest (e.g. only large flows)
- An Example: PlanetLab Europe
  - Federated Testbed for Internet research
  - Multiple users sharing measurement device
  - Resource control by selection techniques

# Flow Selection vs. Packet Selection



# Content

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- Terminology
- Position of the Flow Selection Process
- Description of **Flow Selection Techniques**
- Information Model for **Configuration** of Flow Selection Techniques
- Information model for **Reporting** of Flow Selection Information
- Implementation requirements

# Changes

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- Clearer separation of flow selection and packet selection
  - Flow selection **after** packets are classified into flows
  - Flow selection during metering → [RFC5475]
    - field match filtering on flow keys
    - flow state dependent packet sampling

# Changes

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- Flow Selection Process Definition
  - **OLD:** A Flow Selection Process takes a set of Flow Records as its input and selects a subset of that set as its output .
  - **NEW:** "A Flow Selection Process takes a set of flows (either by selecting packets with same flow keys or selecting Flow Records) as its input and selects a subset of that set as its output"

# Changes

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- Better term for "external" events ?
  - Exhaustion of local resources (e.g. # records in flow cache)
- Simplified wording in the beginning
  - → Further re-wording needed

Thank You