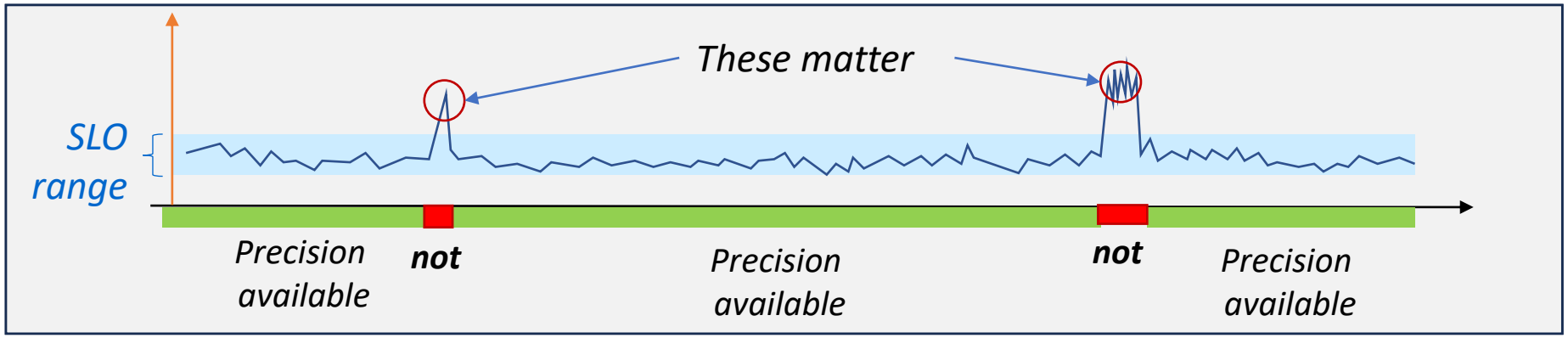
Export of Flow Precision Availability Metrics Using IPFIX (draft-clemm-opsawg-pam-ipfix): Background

- ***Context:*** draft-ietf-ippm-pam (now in IESG review) defines Precision Availability Metrics for services governed by Service Level Objectives
  - Violated Intervals being one key metric
  - In general, related to a given flow over time



- ***The Problem***: How to collect, retrieve, export those metrics are not defined
- ***The Proposed Solution***: Extends IPFIX to export PAM
- ***Why IPFIX?:*** IPFIX is used by operators to export flow records with statistics about flows

Draft Overview and Next Steps

- ***Scope:*** Specifies a set of new IPFIX Information Elements
  - First category to reflect Precision Availability Metrics (per ietf-ippm-pam)
    - Violated Intervals Count, Violation-Free Intervals Count, Mean Time between VIs, etc,
  - Second category to reflect “manifest” to provide required context
    - Precision Availability Interval Length
    - SLO Identifier
      - What is a violation or not depends on the SLO, not just on observed service levels
      - Representation of SLOs themselves a possibility but may not be required
  - Currently, 9 Information Elements have been defined
  - Was first presented in OPSAWG (due to IPFIX)
- ***Why IPPM WG?***
  - It was suggested to move to IPPM due to PAM subject matter - pending positive feedback may resubmit into IPPM shortly
  - Cross-WG Reviews
    - Authors commit to ensure cross review the specification in ippm, opsawg, and ipfix lists.

THANK YOU!

Comments? Questions? Please contact us

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