IP Flow Information Export (IPFIX) Information Elements Extension for Forwarding Exceptions

draft-mvmd-opsawg-ipfix-fwd-exceptions-02

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Recap

• Dropped packets in a network may be subject to deep inspection along forwarding-path and sent to a host or software queue along with type of exception, in/out interface information and other relevant meta data.

• This proposal focuses on Extensions to IPFIX for exporting dropped packets exception information via push model.

• Some of the IPFIX Information Elements (IEs) already exist. This draft defines new Information Elements along with corresponding formats.
  • forwardingExceptionCode - unsigned32
  • ForwardingNexthopID - unsigned64

• Presented in IETF 109.
  • draft-mvmd-opsawg-ipfix-fwd-exceptions-00
Changes since IETF 109

• Comment 1: On nexthop ID, it is not clear on what that would be. Please provide a descriptive example on how to populate this field in the draft. *(Joe)*
  • Changes:
    • *Added section 4.2.2 with description & few examples for forwardingNexthopID IE in v02.*
    • *Added section 4.2.1 with some additional justification for forwardingExceptionCode IE in v02.*

• Comment 2: This is a truly useful use case. Since they’ll be a lot of forwarding errors. This will help in troubleshooting. *(Robin)*
  • No changes.

• Comment 3: Explore CBOR/CDDL *(Ruediger)*
  • No changes. This is not applicable for this draft. Confirmed with Ruediger.
Next steps

• Requesting feedback & comments.
• WG Adoption
Thank you!