

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!