Export of Segment Routing IPv6 Information in IPFIX
draft-ietf-opsawg-ipfix-srv6-srh-14

Enabling insights in SRv6 forwarding plane by adding Segment Routing dimensions

Export of On-Path Delay in IPFIX
draft-opsawg-ipfix-on-path-telemetry-04

Enabling a statistical network delay view, giving insights where delay is being accumulated in the forwarding path

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24. July 2023
SRv6 @ IPFIX
Draft Status and Next Steps

Draft Status
• -14 revision in RFC editor queue (https://www.rfc-editor.org/current_queue.php#draft-ietf-opsawg-ipfix-srv6-srh)
• Next step: RFC

Implementation Status
• IANA code points assigned (https://www.iana.org/assignments/ipfix/ipfix.xhtml)
• Wireshark dissector updated at IETF 117 hackathon (https://gitlab.com/wireshark/wireshark/-/merge_requests/11138)
• Pmacct IPFIX data-collection srhSegmentIPv6ListSection decoding updated (https://github.com/pmacct/pmacct/pull/689)
• Fluvia XDP/eBPF implementation at IETF 117 hackathon (https://github.com/nttcom/fluvia)
• Two major vendors implemented and validated successfully. Public release end of July 2023 and March 2024 expected.

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24. July 2023
On-Path Delay @ IPFIX
Draft Status and Next Steps

Draft Status
• Added appendix A with IPFIX encoding examples in -04 revision

Implementation Status
• Fluvia XDP/eBPF implementation at IETF 117 hackathon (https://github.com/nttcom/fluvia)

Next Steps
• Align the IPFIX Registry and the Performance Metrics IANA registries
  Note: this is the first time that we define an IPFIX Information Element that is also specified as IPPM Performance Metric
• Then ready for WGLC
• Work continue in IPPM:
  • draft-ahuang-ioam-on-path-delay
  • draft-ahuang-ippm-dex-timestamp-ext