

In-situ OAM Direct Exporting

[draft-ioamteam-ippm-ioam-direct-export-00](#)

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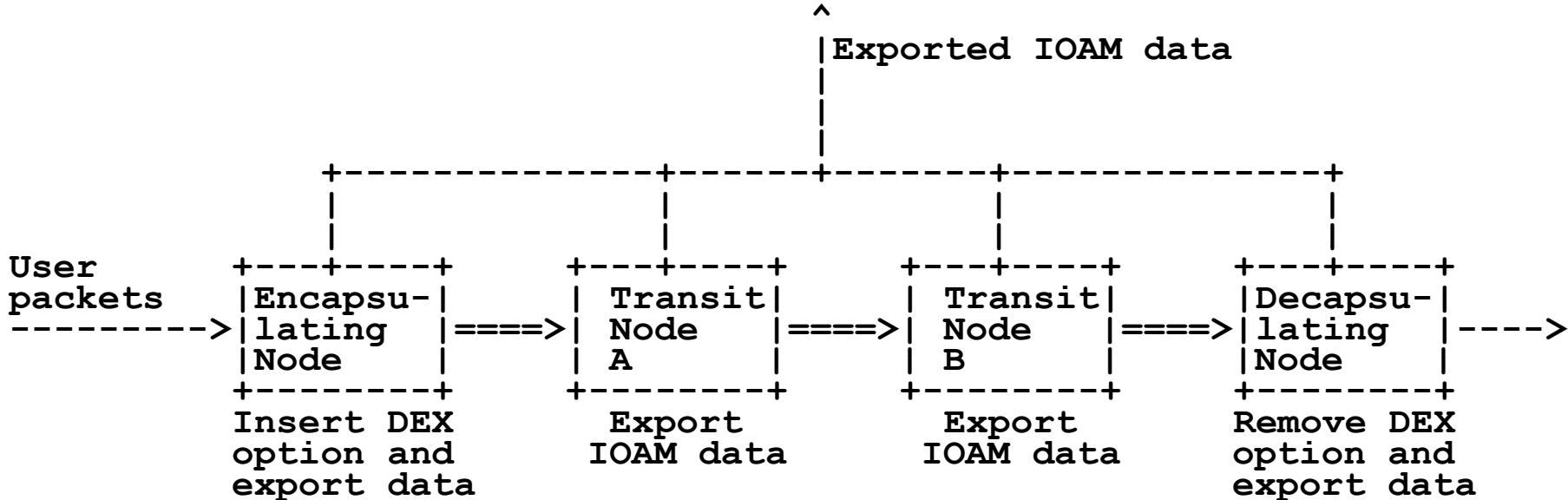
IETF 106, Singapore
November 2019

The History of This Draft

- This draft combines two somewhat similar approaches:
 - The PBT-I concept from draft-song-ippm-postcard-based-telemetry
 - The Immediate Export flag from draft-mizrahi-ippm-ioam-flags
- The decision in IETF 105 was to combine them.
- This draft is the product of a design team that worked on combining the two concepts.
- October 2019 - draft 00.

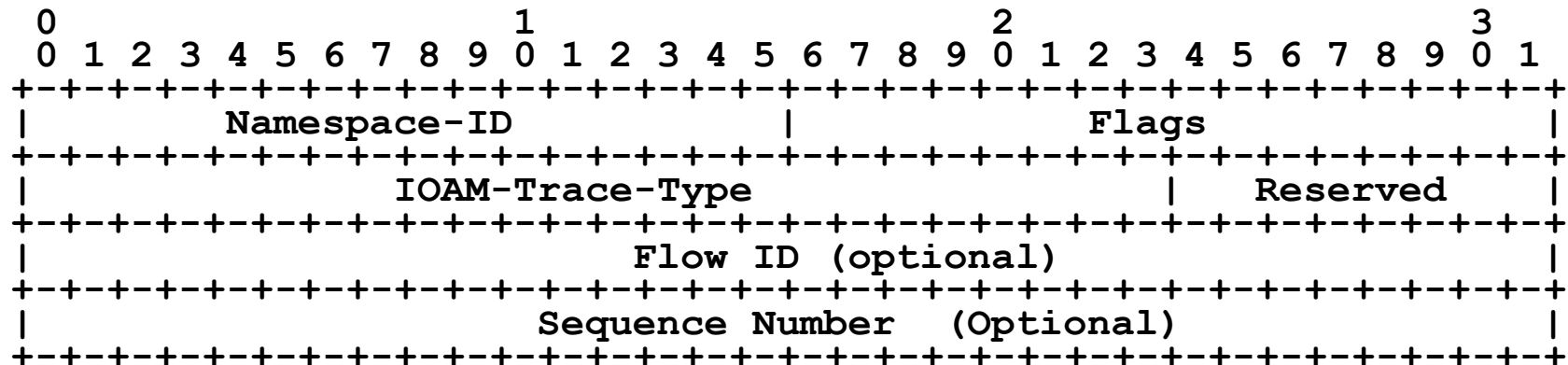
Direct Exporting (DEX) – Overview

- IOAM data is exported without modifying data packets.
- Simplifies transit node processing.
- Reduces the data plane on-the-wire overhead of IOAM.



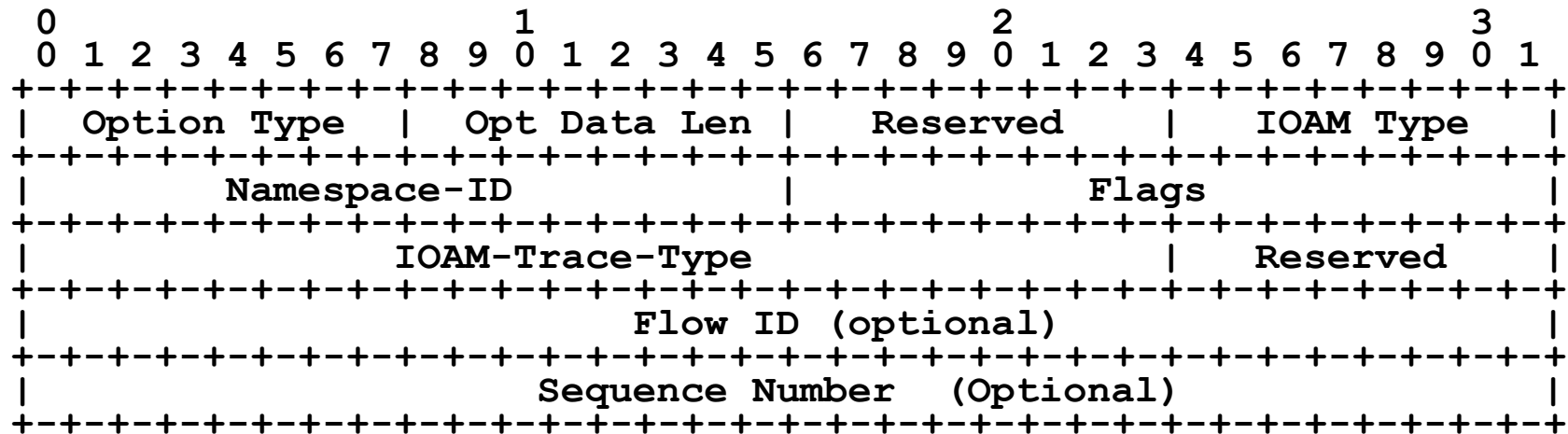
The Direct Exporting (DEX) Option

- A new IOAM option that indicates that IOAM data is exported to a collector.
- IOAM-Trace-Type indicates which data fields are exported.
- Two optional fields.



Example: The DEX Option as an IPv6 Extension Header

- The IOAM IPv6 extension header is defined in: draft-ietf-ippm-ioam-ipv6-options-00 (work in progress).
- IOAM Type indicates this is a DEX option.
- Opt Data Len indicates whether the optional fields are present.



Summary and Next Steps

- Based on the input from the working group, this draft presents a consolidated approach.
- The draft is stable.
- Ready for working group adoption.