

On-Path delay in Postcard-mode In Situ OAM

Draft-ahuang-ippm-dex-timestamp-ext-00

Draft-ahuang-ippm-ioam-on-path-delay-00

A. Huang Feng, INSA-Lyon

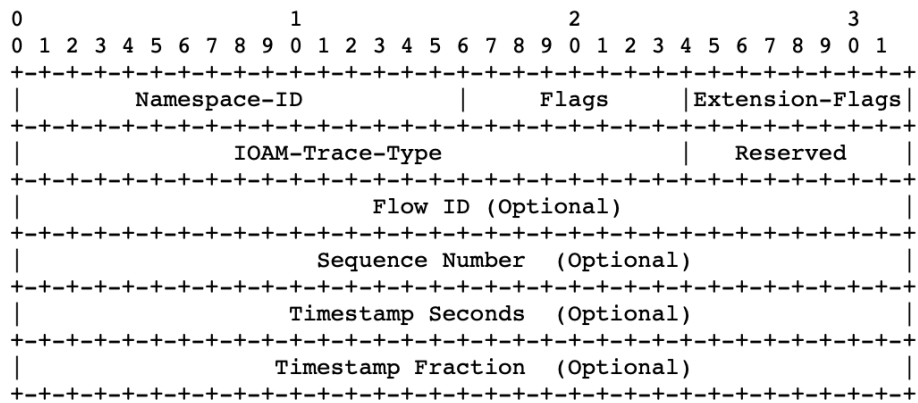
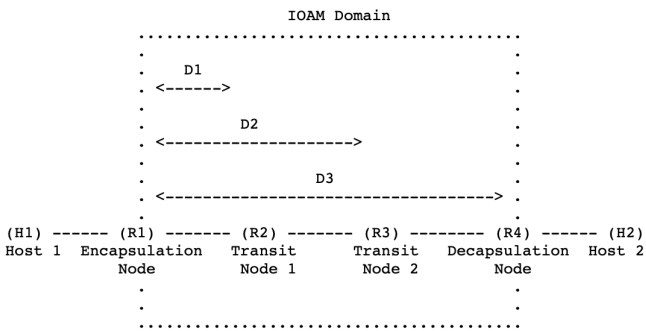
P. Francois, INSA-Lyon

B. Claise, Huawei

T. Graf, Swisscom

Draft-ahuang-ippm-dex-timestamp-ext-00

- Objective: Export the on-path delay in Postcard mode using IOAM
- draft-ietf-opsawg-ipfix-on-path-telemetry defines IPFIX and Performance Metrics registry entries for on-path delay (One Way Delay Hybrid Type 1 Passive)
- Requirements:
 - We need a time reference from encapsulation node
 - Add a timestamp reference in the IOAM DEX header using Extension-Flags
 - draft-ahuang-ippm-dex-timestamp-ext



Timestamp extension in IOAM DEX

Draft-ahuang-ippm-ioam-on-path-delay-00

- Objective: Export the on-path delay in Postcard mode using IOAM
- Requirements:
 - By definition IOAM DEX export the metrics defined in Trace-Type field
 - Add the on-path delay metric in the IOAM architecture for consistency within IOAM architecture
 - draft-ahuang-ippm-ioam-on-path-delay
 - Defines a 32 bit delay metric

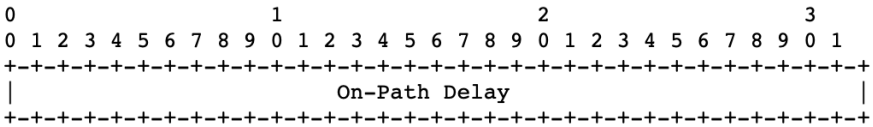
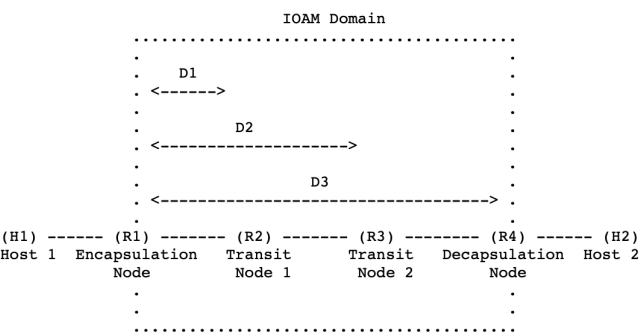


Figure 2: On-Path delay Data-field Format

On-path delay in IOAM Trace-type Bitfield

Thanks !