

On-path Telemetry YANG Data Model

draft-fz-ippm-on-path-telemetry-yang-00

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This document proposes a YANG data model for monitoring on-path telemetry information.

- AltMark and IOAM are the on-path hybrid measurement methods considered.

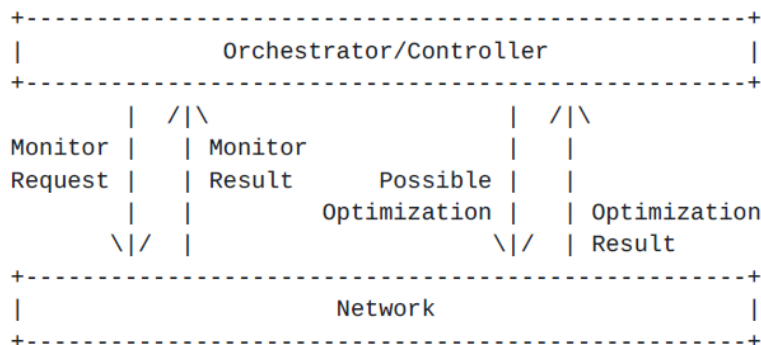
```

module: on-path-telemetry
  +--ro on-path-telemetry-data
    +--ro timestamp?          yang:date-and-time
    +--ro acquisition-method? identityref
    +--ro emission-type?     identityref
    +--ro interface*         [if-name]
      +--ro if-name          if:interface-ref
      +--ro profile-name     string
      +--ro filter
        | +--ro filter-type?  telemetry-filter-type
        | +--ro ace-name?     -> /acl:acls/acl/aces/ace/name
      +--ro protocol-type?   telemetry-protocol-type
      +--ro node-action       telemetry-node-action
      +--ro period?          uint64
      +--ro period-number?   uint64
      +--ro flow-mon-id?     uint32
      +--rw method-type?     altmark-method-type
      +--ro altmark-loss-measurement?
        | +--ro in-traffic-pkts? yang:counter64
        | +--ro out-traffic-pkts? yang:counter64
        | +--ro in-traffic-bytes? uint64
        | +--ro out-traffic-bytes? uint64
      +--ro altmark-delay-measurement?
        | +--ro pkts-timestamps? yang:date-and-time
        | +--ro pkt-timestamp?   yang:date-and-time
      +--ro path-delay?
        | +--ro path-delay-mean   uint32
        | +--ro path-delay-min   uint32
        | +--ro path-delay-max   uint32
        | +--ro path-delay-sum   uint64
      +--ro ioam-incremental-tracing ioam-trace-data
      +--ro ioam-preallocated-tracing ioam-trace-data
      +--ro ioam-direct-export      ioam-trace-data
      +--ro ioam-proof-of-transit    ioam-pot-data
      +--ro ioam-edge-to-edge       ioam-e2e-data
  
```

The "on-path-telemetry-data" contains the detailed information for AltMark and IOAM telemetry data.

Use case: Some applications may use the subscription model specified in RFC8641 to subscribe to the on-path telemetry network performance data.

- For example, network telemetry updates may be obtained through on-change or periodic notifications to get real-time performance data.



Thank You

Comments are welcome!