

A YANG Data Model for the Alternate Marking Method

draft-ydt-ippm-alt-mark-yang-02

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Alternate-Marking YANG Data Model

This draft is the result of the merge of **draft-gfz-ippm-alt-mark-yang** and **draft-wang-ippm-alt-mark-yang**

- Now we only have one AltMark YANG Data Model
- We agreed on the tree structure and related information
 - same structure as [draft-ietf-ippm-ioam-yang](#)

The AltMark YANG model is shown below:

```
+--rw altmark
  +--ro altmark-info
  | +--ro timestamp-type?
  | +--ro available-interface*      [if-name]
  | | +--ro if-name                if:interface-ref
  +--rw altmark-profiles
    +--rw admin-config
    | +--rw enabled?                boolean
    +--rw altmark-profile          [profile-name]
      +--rw profile-name            string
      +--rw filter
        +--rw filter-type?         altmark-filter-type
        +--rw ace-name?            -> /acl:acls/acl/aces/ace/name
      +--rw method-type?           altmark-method-type
      +--rw protocol-type?        altmark-protocol-type
      +--rw node-action            altmark-node-action
      +--rw period?                uint64
      +--rw flow-mon-id?           uint32
      +--rw measurement-mode?      altmark-measurement-mode
      +--rw enable-loss-measurement? boolean
      +--rw enable-delay-measurement? boolean
```

AltMark Profile

The "altmark-profile" contains the information for the AltMark data:

- **profile-name:** it is the unique identifier for each AltMark profile.
- **filter:** it is used to identify a flow, where the AltMark data can be applied.
- **method-type:** it is used to indicate the type of the method: single marking, double marking.
- **protocol-type:** it is used to indicate the protocol for the AltMark application
- **node-action:** indicates the operation applied to the flow (e.g. marking AltMark header, read the AltMark data, or unmarking AltMark header).
- **period:** it indicates the AltMark period (see [draft-ietf-ippm-alt-mark-deployment](#)).
- **flow-mon-id:** it is used to identify the monitored flow and to correlate the exported data of the same flow from multiple nodes and from multiple packets.
- **measurement-mode:** it specifies the measurement mode: hop-by-hop or end-to-end.
- **enable-loss-measurement:** if true, it enables loss measurements.
- **enable-delay-measurement:** if true, it enables delay measurements.

Changes from -01 to -02

Some comments received and addressed in the new revision. The main changes are:

- The alternate-marking-period made totally flexible,
- A new flag to indicate the type of method (single or double marking),
- Solved the issue of the YANG model consistency,
- IPv6 and MPLS examples provided.

Next Steps

Evaluate WG Adoption

Comments are welcome!

Thank You