

# A YANG Data Model for the Alternate Marking Method

draft-ydt-ippm-alt-mark-yang-03

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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 RFC 9617 (IOAM YANG Data Model)

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.

# Next Steps

The draft is quite stable.

- The only change in the last version was to reduce the number of authors to 5.

Evaluate WG Adoption

Comments are welcome!

Thank You