

A YANG Data Model for the Alternate Marking Method

draft-ydt-ippm-alt-mark-yang-01

Brisbane, Mar 2024, IETF 119

Thomas Graf
Swisscom

Giuseppe Fioccola
Tianran Zhou
Huawei

Xiao Min
Jun Guo
ZTE

Minxue Wang
Liuyan Han
China Mobile

Massimo Nilo
Telecom Italia

Alternate-Marking YANG Data Model

The AltMark YANG model is shown below:

```
module: ietf-alt-mark
  +--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
  | +--rw profile-name             [profile-name]
  |   +--rw profile-name           string
  |   +--rw filter
  |   | +--rw filter-type?         altmark-filter-type
  |   | +--rw ace-name?            -> /acl:acls/acl/aces/ace/name
  |   |   +--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
```

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
- **protocol-type**: it is used to indicate the protocol
- **node-action**: indicates the AltMark operation, marking/read/unmarking.
- **period**: it indicates the AltMark period.
- **flow-mon-id**: it is used to identify the monitored flow.
- **measurement-mode**: it specifies the measurement mode, HBH or E2E.
- **enable-loss-measurement**: if true, it enables loss measurements.
- **enable-delay-measurement**: if true, it enables delay measurements.

This new 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 of per draft-ietf-ippm-ioam-yang
- IPv6 and MPLS examples are provided

Thank You

Comments are welcome!