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? [if-name]
      | +---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 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!