A YANG Data Model for Transport Network Client Signals

CCAMP WG, IETF111, Virtual
draft-ietf-ccamp-client-signal-yang-05

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Status Review

- WG Adopted in May 2019;
- Draft updated to:
  - Integrated the E-Tree in this update;
  - Satisfy the multi-technology applicability;
Changes since Last Presentation

• Extended in the module ietf-eth-tran-types to support E-Tree.

  Add three new child identity under access-role base-identity:
  - Root-primary
  - Root-backup
  - Leaf-access

• An implementation status is added for validation:
  - ONAP CCVPN uses the ETH Service YANG model as the ACTN MPI
  - https://wiki.onap.org/display/DW/CCVPN%28Cross+Domain+and+Cross+Layer+VPN%29+USE+CASE
Next Step

- Check and cover more client signals;
- Driving to maturity and request WG LC;
A YANG Data Model for Client Signal Performance Monitoring

CCAMP WG, IETF111, Virtual

draft-zheng-ccamp-client-pm-yang-04

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Motivation

- Performance monitoring based on configured client signals;
  - Ethernet service;
  - Transparent client signals;

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<tr>
<td>Power</td>
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</table>
Changes since Last Presentation

- Two new co-authors (welcome);
- Editorial in the module to make it in compliance with RFC8407;
- Extended the bandwidth to ingress/egress bandwidth.

Add two new child identity under performance-parameter-type base-identity:

```plaintext
definition ingress-bandwidth {
    base performance-parameter-type;
    description |
        "Current bandwidth usage of the ingress traffic."
    }

definition egress-bandwidth {
    base performance-parameter-type;
    description |
        "Current bandwidth usage of the egress traffic."
    }```
Open issues: Model Relationship

Importation & Augmentation:
- We imported the ietf-eth-tran-service and ietf-trans-client-service, in the client-signal-yang draft;
- To align the Index;

Issue #61: propose to reuse some types or have a common types for pm;

Other PM-related Documents:
- draft-ietf-teas-actn-pm-telemetry-autonomics: focus on the PM mainly on VN and Tunnels, instead of service (covered in this document);
- draft-www-bess-yang-vpn-service-pm: focus on the VPN level, especially among overlay VPN sites;
Open issues: Model Structure

- Time Interval for PM
- Delay, BER, etc...;
- Numerical Value;
- Unit (ms, Gbps, etc.)

---ro performance-data* [parameter-name]

---ro parameter-name identityref

---ro parameter-value* [index]

---ro index uint64

---ro value performance-parameter-value

---ro value-unit string

---ro value-description? string

---ro start-time? yang:date-and-time

---ro end-time? yang:date-and-time

**Issue #88**: to align the rate for packet traffic, and understand how the rate is measured;

**Issue #89**: at which point the measurement is required?
Next Step

• For WG adoption, we need
  – Confirm the work to be useful;
  – Agree on the model relationship;

• For other open issues:
  – Agree on model structure;
  – Working on the details of each PM parameter;
  – Get consensus on the representation of ‘sampling point’;