A YANG Data Model for Transport Network Client Signals

CCAMP WG, IETF111, Virtual

draft-ietf-ccamp-client-signal-yang-05

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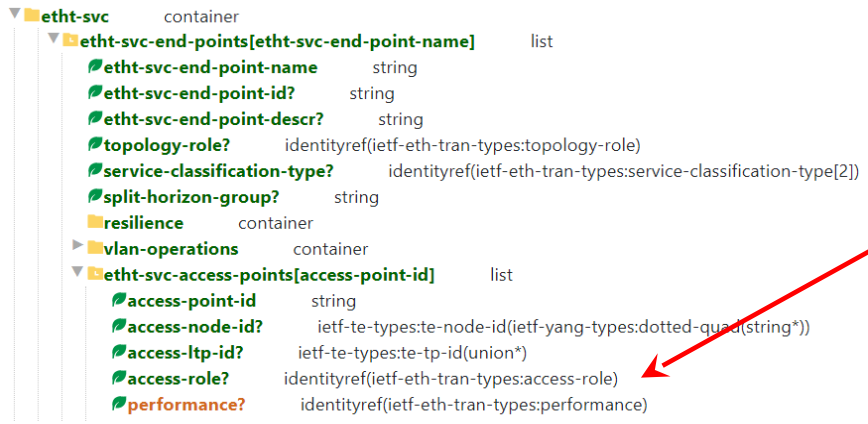
Status Review

- 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

```
identity root-primary {
  base access-role;
  description
    "Designates the primary root UNI of an E-Tree service.";
}

identity root-backup {
  base access-role;
  description
    "Designates the backup root UNI of an E-Tree service.";
}

identity leaf-access {
  base access-role;
  description
    "Designates the leaf UNI of an E-Tree service.";
}
```

- 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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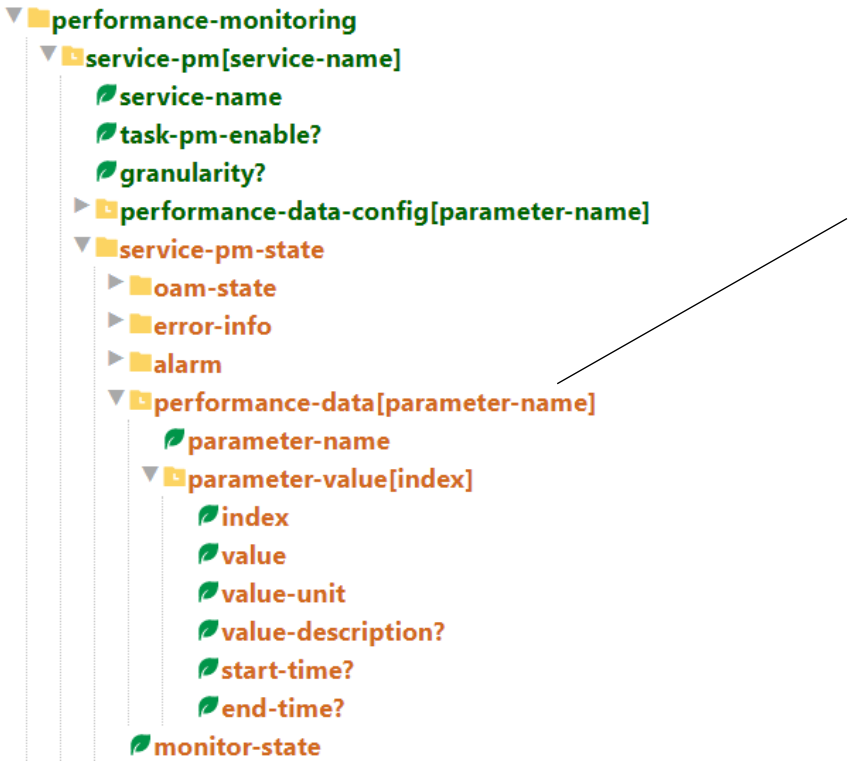
Motivation

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

Parameters	Layer2	Layer1	Layer0
Delay/Latency	□	□	□
Bit Error Rate(BER)	?	□	□
Packet Loss	□	□	□
Jitter	□	□	□
Bandwidth	□	□	□
Byte/Packet number	□	□	□
Power	□	□	□

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**:

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

identity egress-bandwidth {
  base performance-parameter-type;
  description
    "Current bandwidth usage of the egress traffic.";
}
```

Open issues: Model Relationship

Importation & Augmentation:

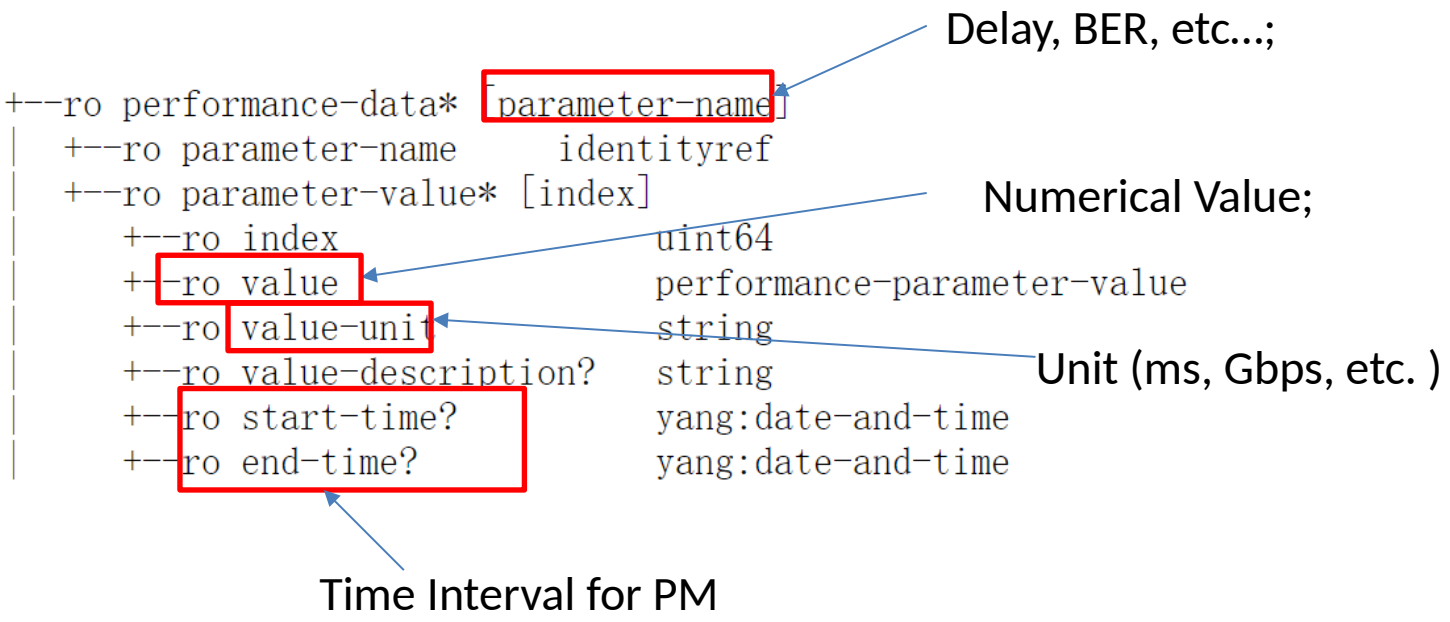
- We imported the ietf-eth-tran-service and ietf-trans-client-service, in the client-signal-yang draft;
  - To align the Index;

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



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’;