

A YANG Data Model for Client Signal Performance Monitoring

CCAMP WG, IETF106, Singapore

draft-zheng-ccamp-client-pm-yang-00

Authors:

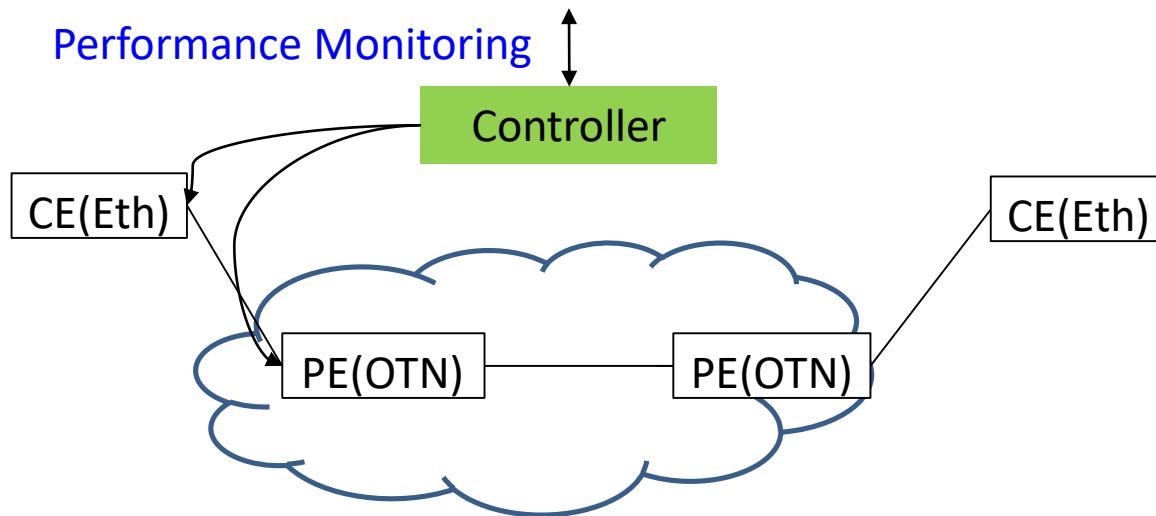
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Why the model is needed?

- Motivation:
 - Services(*) are configured on TE tunnels (e.g., OTN);
 - Ethernet service;
 - Transparent client signals;
 - Performance need to be monitored for operation need;



*: <https://tools.ietf.org/html/draft-ietf-ccamp-client-signal-yang-01>

Model Relationship

General Framework for OAM/Alarm: Reference as Guidance

RFC8531(OAM)

RFC8632 (Alarm)

Draft-ietf-ccamp-client-signal-yang

This Document

ietf-eth-tran-service

ietf-eth-service-pm

ietf-trans-client-service

ietf-trans-client-svc-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;

What parameters are in scope?

```
module: ietf-eth-service-pm
  +-rw performance-monitoring
    +-rw service-pm* [service-name]
      +-rw service-name          leafref
      +-rw pm-enable?           boolean
      +-rw latency-monitoring
        +-rw latency-measure-enable?  boolean
      +-ro service-pm-state
        +-ro start-time?          yang:date-and-time
        +-ro last-update-time?    yang:date-and-time
        +-ro latency?             uint32
        +-ro error-message?       string
        +-ro service-oper-status? identityref
```

Setting the latency monitoring

Get the latency data

Parameters	Layer2	Layer1	Layer0	Status
Delay/Latency	✓	✓	✓	In the draft
Bit Error Rate(BER)	?	✓	✓	Planning
Packet Loss	✓	✗	✗	Planning
Jitter	✓	✓	✓	Planning
Bandwidth	✓	✓	✓	Planning
Byte/Packet number	✓	✓	✓	Planning
Power	✗	✗	✓	Planning

Discussion

- To move forward:
 - Confirm the work is useful;
 - Agree on the scope, especially technology-specific;
 - Agree on the model relationship;
 - Continue working on bring other parameters for monitoring.