A Yang Data Model for L1 Connectivity Service Model (L1CSM)

draft-ietf-ccamp-l1csm-yang-06

CCAMP WG @ IETF 102

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Changes Since IETF 100

- WG adoption
- Presented in MEF Q2 Meeting, April 26, 2018.
- Separated out service types module from the main module
  - ietf-l1cms
  - ietf-l1-mef-service-types
- Refined the YANG module based on comments from MEF and Tom Petch.
  - Indentations, separation of service types, references, time-interval (int64 -> int32), etc.

ietf-l1cms

```
module: ietf-l1csm
    +--rw l1cs
        +--rw access
        |   +--rw uni-list* [UNI-ID]
        |       +--rw UNI-ID                 string
        |       +--rw protocol?              identityref
        |       +--rw coding?                identityref
        |       +--rw optical_interface?     identityref
        +--rw service
            +--rw service-list* [subscriber-l1vc-id]
                +--rw subscriber-l1vc-id     string
                +--rw service-config
                    +--rw subscriber-l1vc-id?        string
                    +--rw subscriber-l1vc-ep-id-1?   string
                    +--rw subscriber-l1vc-ep-id-2?   string
                    +--rw subscriber-l1vc-ep-UNI-1?  -> /l1cs/access/uni-list/UNI-ID
                    +--rw subscriber-l1vc-ep-UNI-2?  -> /l1cs/access/uni-list/UNI-ID
                    +--rw time-start?                yang:date-and-time
                    +--rw time-interval?             Int32
                    +--rw performance-metric?        Identityref
```

Pending Issues

- The naming: readability of l1
  - ietf-l1cms
  - ietf-l1-mef-service-types
- Default value for PM period
  - Would 'one month' be good?
  - Do we need to put Min and Max value?
- JSON encoding example requested.

JSON Example (to be added)

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```
{
   "l1cs": {
     "access": {
       "uni-list": [
         {
           "UNI-ID": "1",
           "protocol": "",
           "coding":"",
           "optical_interface":""
         },
         {
           "UNI-ID": 2,
           "protocol": "",
           "coding":"",
           "optical_interface":""
         }
       ],
     },
     "service": {
       "service-list": [
         {
           "subscriber-l1vc-id": "1",
           "service-config":{
             "subscriber-l1vc-id":"",
             "subscriber-l1vc-ep-id-1":"",
             "subscriber-l1vc-ep-id-2":"",
             "subscriber-l1vc-ep-UNI-1":"",
             "subscriber-l1vc-ep-UNI-2":"",
             "time-start":"",
             "time-interval":"",
             "performance-metric":""
           }
         }
       ]
     }
   }
}
```

Summary & Next Steps

▶ Comments and suggestions are welcome!

▶ Continue to refine and make it ready for WG LC.

Thank You!