YANG Data Model for PW Protocol

draft-chen-pals-pw-yang-02

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Motivation

• Milestones of PALS:
  – Jun 2017 Submit YANG data model for SS-PWs and MS-PWs to the IESG

• Defines the YANG data model for PW configuration and operation.

• Help for product implementation for PW
PW YANG

PW(SS-PW, MS-PW)

L2VPN

Emulation Type:
TDM, FR, ATM, etc
Data Configure Tree Structure

```
module: ietf-pw
+-rw pwe3
  |  +--rw ss-pw
  |     |  +--rw ss-pw* [name]
  |     |     |  |  +--rw name string
  |     |     |  |  +--rw peer-ip? inet:ip-address
  |     |     |  |  +--rw cw-capable? cw-capable-type
  |     |     |  |  +--rw type? pw-type
  |     |  +--rw tunnel* [tunnel-id]
  |     |     |  |  +--rw tunnel-id string
  |     |  +--rw interfaces
  |     |     |  |  +--rw interface* [name]
  |     |     |  |     |  +--rw name if:interface-ref
  |     |     |  |     |  +--rw mtu? uint32
  |     |     |  |     |  +--rw fcs-retention-indicator? uint16
  |     |     |  |     |  +--rw vccv-parameter
  |     |     |  |     |     |  +--rw cc? cc-type
  |     |     |  |     |     |  +--rw cv? cv-type
  |     |     |  |     |  +--rw requested-vlan-id? uint32
  |     |     |  |     |  +--rw frag-indicator? uint32
  |     |     |  |     |  +--rw interface-description? string
  |     |     |  |     |  +--rw (pw-emu-type)?
  |     |     |  |     |     |  +--:(tdm)
  |     |     |  |     |     |  ... ...
  |     |     |  |     |     |  +--:(fr)
  |     |     |  |     |     |  +--rw fr-dlci-len? uint16
  |     |     |  |     |     |  +--:(atm)
  |     |     |  |     |     |  +--rw max-atm-cells? uint16
  |     |  +--rw ms-pw
  |     |     |  |  +--rw ms-pw* [name]
  |     |     |  |     |  +--rw name string
  |     |     |  |     |  +--rw pw-segment-a* [name]
  |     |     |  |     |     |  +--rw name string
  |     |     |  |     |  +--rw pw-segment-x* [name]
  |     |     |  |     |     |  +--rw name string
  |     |  +--rw (pw-type)?
  |     |     |  |  +--:(ldp-pw)
  |     |     |  |     |  +--rw (fec-type)?
  |     |     |  |     |     |  +--:(generalized-pwid-fec-type)
  |     |     |  |     |     |     |  +--rw agi? string
  |     |     |  |     |     |  +--rw source-ALI? string
  |     |     |  |     |     |  +--rw target-ALI? string
  |     |     |  |     |     |  +--:(pwid-fec)
  |     |     |  |     |     |     |  +--rw pw-id? uint32
  |     |     |  |     |  +--:(static-pw)
  |     |     |  |     |     |  +--rw static-pw-id? uint32
  |     |     |  |     |     |  +--rw transmit-label? uint32
  |     |     |  |     |     |  +--rw receive-label? uint32
```

PW YANG
Next Step

• Comments welcome
• Welcome to fulfill this work together
Thanks!