A YANG Data Model for Microwave Radio Link

draft-ietf-ccamp-mw-yang-04
https://github.com/ietf-ccamp-mw/IETF-CCAMP-Microwave-YANG-Data-Model

J. Ahlberg (Ericsson)                     D. Spreafico (Nokia)
M. YE (Huawei)                           M. Vaupotic (Aviat)
X. Li (NEC)
Status

• From 02 -> 03
  • Editorial changes to better adhere to the IETF Documentation Guidelines
    • RFC 6087 - Guidelines for Authors and Reviewers of YANG Data Model Documents
    • RFC 2223 - Instructions to RFC Authors
    • RFC 5741 - RFC Streams, Headers, and Boilerplates
    • RFC 7322 - RFC Document Style
  • Simplified data node names
    • Removing repetition of container name in constituent data nodes
  • Addition of examples
    • Examples on how to instantiate the model for two typical radio link configurations, 1+0 & 2+0.

• From 03 -> 04
  • Updates based on comments from Tom Petch – Thanks!
    • Addition of missing references
    • Miscellaneous editorial corrections

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Model Changes
Simplified Names

module: ietf-microwave-radio-link
  +--rw radio-link-protection-groups
    +--rw protection-group* [nsmc]
      |  +--rw name                  string
      |  +--rw protection-architecture-type? identityref
      |  +--rw protection-members*    if:interface-ref
      |  +--rw protection-operation-type? enumeration
      |  +--rw working-entity?        if:interface-ref
      |  +--rw revertive-wait-to-restore? uint16
      |  +--rw hold-off-timer?        uint16
      |  +--rw protection-status?     identityref
      |  +--rw x-ping-external-input?  identityref
      |  |  +--w x-ping-external-command? identityref
      |  |  +--rw x-ping-pair* [xping]
      |  |     |  +--rw xping-pair-name string
      |  |     |  +--rw xping-allowed boolean
      |  |     |  +--rw xping-members* if:interface-ref
      |  +--rw x-mimo-groups [x-mimo]
      |     +--rw x-mimo-group* [name]
      |        |  +--rw name string
      |        |  +--rw enabled? boolean
      |        |  +--rw x-mimo-members* if:interface-ref

module: ietf-microwave-radio-link
  +--rw radio-link-protection-groups
    +--rw protection-group* [nsmc]
      |  +--rw name                  string
      |  +--rw architecture-type?    identityref
      |  +--rw members* if:interface-ref
      |  +--rw operation-type?       enumeration
      |  +--rw working-entity?       if:interface-ref
      |  +--rw revertive-wait-to-restore? uint16
      |  +--rw hold-off-timer?       uint16
      |  +--rw status?               identityref
      |  +--w x-external-input
      |     +--w x-external-command? identityref
      |  +--rw x-ping-pair* [xpings]
      |     +--rw xping-pair-name string
      |     +--rw xping-allowed boolean
      |     +--rw xping-members* if:interface-ref
      |  +--rw x-mimo-groups [x-mimos]
      |     +--rw x-mimo-group* [name]
      |        |  +--rw name string
      |        |  +--rw enabled? boolean
      |        |  +--rw x-mimo-members* if:interface-ref
Addition of Examples
Instantiation of Configurations

Near End – Radio Link Terminal - A

```
"interface": {
  //RLT-A
  "name": "RLT-A",
  "description": "Radio Link Terminal A",
  "type": "mnl:radio-link-terminal",
  "id": "RLT-A",
  "mode": "one-plus-zero",
  "carrier-terminations": [
    "RLT-A:CT-1",
  ],
},

{ //CT-1
  "name": "RLT-A:CT-1",
  "description": "Carrier Termination 1",
  "type": "mnl:carrier-termination",
  "carrier-id": "A",
  "tx-enabled": true,
  "tx-override-status": "on",
  "tx-frequency": 10728000,
  "duplex-distance": 644000,
  "channel-separation": 28,
  "polarization": "not-specified",
  "power-mode": "PPP",
  "coding-modulation-mode": 0,
  "selected-cm": "gam-512"
}
```

Figure A-1 1+0 example
Way Forward

• The model definition considered to be complete and stable
  • A comment suggests to break out ‘enumerations’ into a separate module

• Asking for WG LC