A framework for Management and Control of microwave and millimeter wave interface parameters

draft-ietf-ccamp-microwave-framework-03
https://github.com/ietf-ccamp-mw/IETF-CCAMP-Microwave-YANG-Data-Model

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Status & Way Forward

• Update from -01
  • In the abstract and section 6, text is added to emphasize some part of the resulting model MAY be generic, so it could be used by other technology.
  • At end of section 7.3, the hackathon activity validating the framework and the YANG model in IETF 99 was added
  • A new co-author Daniela Spreafico is added to the draft.

• Update from -02
  • Fill in the security section
  • Editorial change to improve draft quality

• No open technical issues

• Next step:
  • WG Last Call (IPR declaration completed)
A YANG Data Model for Microwave Radio Link

draft-ietf-ccamp-mw-yang-02
https://github.com/ietf-ccamp-mw/IETF-CCAMP-Microwave-YANG-Data-Model

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Status

• Update from -01
  • Interface Protection functionality generalized:
    • The data nodes for management of the interface protection functionality has been broken out into a separate and generic YANG data module in order to make it available also for other interface types.

• NMDA compliance:
  • The structure of the data model has been updated according to the new Network Management Datastore Architecture (NMDA).
Model Changes
Protection Groups

Generic interface protection function

ietf-interface-protection

```
module: ietf-interface-protection

rw protection-groups
    +--rw protection-group* [name]
        |   +--rw name string
        |   +--rw protection-architecture-type? ifinterface-ref
        |   +--rw protection-members* enumeration-ref
        |   +--rw protection-operation-type? ifinterface-ref
        |   +--rw working-entity* ifinterface-ref
        |   +--rw revertive-wait-to-restore? uint16
        |   +--rw hold-off-timer? uint16
        |   +--rw protection-status?
        |   +--w input
        |      +--w protection-external-commands? identityref
```

Microwave specific function

ietf-microwave-radio-link

```
container radio-link-protection-groups {
    description
    "Configuration of radio link protected groups (1+1) of carrier terminations in a radio link. More than one protected group per radio-link-terminal is allowed."
    uses ifprot:protection-groups {
        refine protection-group/protection-members {
            must "/if/interfaces/if:interface[if:name = current()]"
            + "/if:type = 'mrl:carrier-termination'" {
                description
                "The type of a protection member must be 'carrier-termination'."
            }
        }
        refine protection-group/working-entity {
            must "/if/interfaces/if:interface[if:name = current()]"
            + "/if:type = 'mrl:carrier-termination'" {
                description
                "The type of a working-entity must be 'carrier-termination'."
            }
        }
    }
}
```
Way Forward

• The model definition considered to be complete and stable

• Asking for WG LC