

# A YANG Data Model for Microwave Topology

draft-ietf-ccamp-mw-topo-yang-04

<https://datatracker.ietf.org/doc/html/draft-ietf-ccamp-mw-topo-yang-04>

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# Status

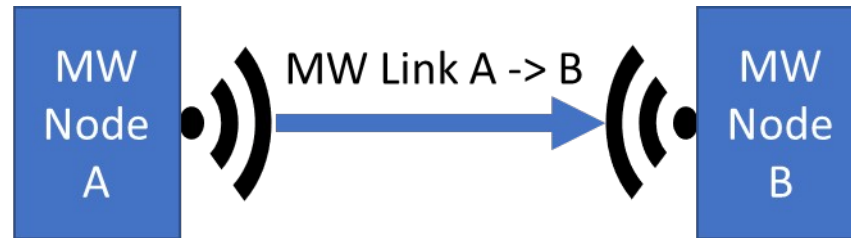
- Main changes compared to that previous version
  - Change to ietf-microwave-topology YANG
    - Created an “rlt-mode” leaf that provides a flexible definition of the number of bonded carriers and number of protecting carriers of a radio link. Previous version was a simple enumerated list.
  - Modified instance examples to align with the change

```
grouping rlt-mode {
  description
    "This grouping provides a flexible definition of number
    of bonded carriers and protecting carriers of a radio
    link.";
  leaf num-bonded-carriers {
    type uint32;
    mandatory true;
    description
      "Number of bonded carriers.";
  }
  leaf num-protecting-carriers {
    type uint32;
    mandatory true;
    description
      "Number of protecting carriers.";
  }
}
```

# Issue under discussion

- Bandwidth Utilization

- <https://github.com/ietf-ccamp-wg/draft-ietf-ccamp-mw-topo-yang/issues/3>



$$utilizedBw = \frac{txBytes * 8}{timeWindow} [bits/sec]$$

$$BwUtilization = \frac{utilizedBw}{linkBw} * 100 [\%]$$

Questions:

How to count txBytes for a microwave link?

How to represent timeWindow?

Where the calculation is done? On the Node? In the Controller?

# Plan

- Close on Bandwidth Discussion and request working group last call.
- Discuss plan for an update to RFC 8561
  - Discuss still in “individual draft” state
  - The generic rlt-mode could be added in a bis of RFC 8561
  - Better encapsulation of microwave radio link characteristics (thus simplifying the microwave topology model)
  - Other enhancements like Latency, Fade, BER, Power consumption etc. could be explored