draft-ybam-rfc8561bis

A YANG Data Model for Microwave Radio Link

IETF 124 Status

Overview

- github: https://github.com/samans/draft-ybam-rfc8561bis
- datatracker: https://datatracker.ietf.org/doc/draft-ybam-rfc8561bis/
- Abstract:
  - This document defines a YANG data model for control and management of radio link interfaces and their connectivity to packet (typically Ethernet) interfaces in a microwave/millimeter wave node. The data nodes for management of the interface protection functionality is broken out into a separate and generic YANG data model in order to make it available for other interface types as well. This document obsoletes RFC 8561.

Issues Recently Closed

- Pyang reports warnings about the IETF Trust Copyright state ment
- Follow RFC8407bis guidelines for JSON examples (uri and ip address examples)
- Add 'scope' to the yang description

Technical Open Issues ready to be closed

- Band & Carrier Aggregation
  - Extend the model to support a radio link that contains carriers terminated on local and remote nodes or on another local (child) radio link
- Cross Polarization Interface Cancellation (XPIC) over multiple nodes
  - Extend the model to support an XPIC between a carrier terminated on the local node and a carrier terminated on a remote node
- Detect configuration mismatch
  - Extend the model to add the capability to validate the carrier id on both sides of the hop and check the carrier termination at the far-end of the link.

Technical Open Issues under discussion

- New Coding Modulation values
  - Add a coding-modulation IDENTITY to cover the 1/4 BPSK modulation case
- Scheduling a maintenance window
  - How to provide a schedule for a maintenance window and how the data stores are affected when NMDA is used
- Supporting multiple receivers diversity
  - Support multiple receivers on one microwave carrier termination interface, where one is the main and the other are used for diversity

IANA Early Review

- IANA has provided guidance on what to do since this document is written to be a bis of RFC8561
- The authors need to consider:
  - If this document obsoletes RFC 8561, it needs to tell us whether to replace the references to RFC 8561 in these registries:
    - IETF XML Registry
    - Structure of Management Information (SMI) Numbers (MIB Module Registrations)
    - YANG Parameters
  - Typically references to the obsoleted document are replaced with references to the new document, but not always. In the YANG Module Names registry, for example, if the module is being updated, we add a new registration for the revised module without replacing, removing, or marking the previous version.
  - If any registrations need to be deprecated or obsoleted, this should also be noted.
  - If you have any questions, just let us know. If you'd like to talk in person, you can find us next to the RFC Editor's table from Monday through Thursday. You can also request another review at any time by contacting us at iana@iana.org.
  - For more information about IANA Considerations section requirements, please see:
    - https://www.iana.org/help/protocol-registration
- To Be Done --- create an Issue for this!

Summary

- Join the discussion on the weekly conference calls
  - Occurs every Thursday effective Thursday, September 11, 2025 until Thursday, December 18, 2025 from 5:00 AM to 6:00 AM, Eastern Time (US & Canada) 5:00 AM | Eastern Time (US & Canada) | 1 hr
    - Information in the minutes: https://github.com/samans/draft-ybam-rfc8561bis/tree/main/minutes
  - Ask the CCAMP WG Chairs for more calls!
- The Github: https://github.com/samans/draft-ybam-rfc8561bis
- Support this to be a working group draft on the CCAMP list!

- Thank You!