rfc7950bis and Friends

draft-yn-netmod-rfc7950bis

YANG Next

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Introduction

- YANG has been very successful.
- RFC 7950 was published almost a decade ago (2016).
- The YANG-Next issue tracker has captured/catalogued 105 issues in 8 years.
- It’s time to start!

Please hold comments/questions until the end.
- The slides are numbered and easy to return to.
Current Focus

1. To factor-out obvious parts that should not be present, including:
   - the “XML Encoding Rules” sections
   - the “NETCONF Operations” sections

2. To rewrite other to not be XML-only, including:
   - the “Usage Example” sections
   - Currently simply adds a matching JSON example
Factoring Out the Obvious Parts?

- Republishes YANG 1.1
- No changes, net-result is the same
- Obsoletes / replaces RFC 7950
- The XML-equivalent to RFC 7951
- Beware of dragon!
Goal: to factor out the “NETCONF Operations” sections that should not be present.

Observation: this should lead to an RFC 6241 bis, right?
• This should be in NETCONF WG

And yet there should also exist a document that defines:
• Generic requirements for all protocols (NC, RC, CORE, etc.)
• E.g., MUST support List Pagination, Private Candidate, etc.
• Hence the idea of a “YANG Protocol Requirements” document.
• Does it make sense?
Current Status

- RFC7950
  - YANG 1.1
    - draft-yn-netmod-rfc7950bis
  - XML Encoding of YANG Data
    - draft-yn-netmod-yang-xml
  - YANG Protocol Requirements
    - draft-yn-netmod-yang,proto

- In Progress...
- Done!
- Didn’t start
Details About “rfc7950bis” Work Done So Far

1. Asked RFC Editor for RFC 7950’s source-XML.
2. Added a “Makefile” and cleared all errors/warnings from “xml2rfc” and “idnits”.
3. Reformatted XML using “tidy” (“xmllint” didn’t work)
4. Rewrote the <front> matter, e.g., title, abstract, etc.
5. Added a “Production Note (To be removed by RFC Editor)” section.
6. Added a “Special Thanks” section.
7. Rewrote the “Introduction” section.
8. Removed all NETCONF Usage sections.
9. Removed all XML Encoding sections.

Links:
- [GitHub Commit History](#)
- [Diff Against RFC 7950](#)
Another Dragon

It is NOT actually my goal to republish YANG 1.1 (i.e., a “bis”)

My actual goal is to publish YANG 2.0 (an NBC version of YANG)
  • Which would NOT obsolete RFC 7950
    • Just like how RFC 7950 did not obsolete RFC 6020
  • To this end, a more suitable I-D name might be:
    draft-yn-netmod-yang-2

The only reason this wasn’t done now was to start a conversation
  • Also, technically speaking, the current focus doesn’t change RFC 7950.
The Conversation: How to Proceed?

First there might be the question, should we proceed?

- Respectfully, if there is no intention to proceed, NETMOD should shutdown.

Next, with the assumption that this is a reasonably large project:

- How to distribute the load to avoid burnout?
- How to best utilize scarce resources?
- How to incentivize involvement?

When would it make sense to adopt?

- Wait until a document is ready? (may be awhile)
- Now-ish, so WG-review happens from the start?
Design Team or GitHub Project?

**Design Team**
- Scope set up front
- Members set up front
- How this plays out is well understood (e.g., Versioning DT)

**GitHub Project**
- Scope driven by individual interest
- Members are whomever submits a PR
- How this plays out not well understood so...
- Idea is to use GitHub Workflows to automate adequate internal reviews, followed by the Editor bringing the result to the WG before merging PR to “main”.
- Idea is that a designated set of experts to do the reviews, thus reducing their load.
Questions, Concerns, Comments?