Guidelines for Authors and Reviewers of Documents Containing YANG Data Models

draft-boucadair-netmod-rfc8407bis-01

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Motivation

• RFC8704 *does not cover guidelines for IANA-maintained modules*
  – Many authors are asking recurrent questions about how to proceed
  – Inconsistent approaches

• An *absolute recommendation is broken* for abstract data structures

• The *Trust* raised an issue about lack of code markers for the security template
Major Changes vs. RFC8704

• Added guidelines for IANA-maintained modules

• Added statements that the security template is not required for modules that follow RFC 8791: Relax a MUST in 8704

• Updated the YANG security considerations template to reflect the latest version maintained in the Wiki

• Added a statement that the RFCs that are listed in the security template are to be listed as normative references in documents that use the template
Minor Changes vs. RFC8704

- **Added code markers for the security template**
- Implemented errata 5693, 5800, 6899, and 7416
- Updated the terminology with new terms, e.g., IANA-maintained module
- Added a note that folding of the examples should be done as per RFC 8792 conventions
- Added a note that RFC 8792-folding of YANG modules can be used if and only if native YANG features (e.g., break line, "+") are not sufficient
- Added a similar note for the tree structures
- Updated many examples to be aligned with the consistent indentation recommendation
- Updated the IANA considerations to encourage registration requests to indicate whether a module is maintained by IANA or not

Address the Trust issue
Very Minor Changes vs. RFC8704

• Updated the URL of the IETF authors guidelines

• Added tool validation checks of JSON-encoded examples

• Added tool validation checks to ensure that YANG modules fit into the line limits of an I-D
Pending Change

• Update the statement about the security template to also be relaxed when a module is about abstract data and cite RFC 7952 as another example

  – Other exceptions to be listed there?
Summary & Next Steps

• The proposed –bis addresses many of the recurrent issues raised by YANG module authors
  – An absolute requirement is broken as YANG is used as transport-agnostic language
  • Can’t be fixed with an erratum
  – Updating the Guidelines to cover missing areas for better consistency among YANG modules

• Consider adopting the document with the following -bis scope
  – IANA Guidelines + errata + Trust issue
    i.e.,
  – draft-boucadair-netmod-iana-registries + + errata + Trust issue

• Thoughts?