

Security Level:

# P802.3cf YANG Style improvements

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# YANG code style in draft is inconsistent

- **See comments; 44, 62, 63, 68, 70, 88, 89, 90, 117, 136, 137 and probably others**
- **Use of landscape orientation for Tree hierarchy is warranted but appears unnecessary for YANG modules**
- **Looking at the various modules on github reveals there is a lack of consistency between the modules code**
  - Some modules use tabs for indenting others use spaces
  - Line lengths inconsistent
  - Even within a single module there is a lack of consistency
- **This leaves the standard appearing half baked and unprofessional**

# Proposed short term solution

- **Agree on P802.3cf YANG style guidelines**
  - Base on RFC 6087 (already in references)
  - Very minimal – only call out necessary items to ensure the resulting modules fit well into the published standard
    - Indenting – suggest using 2 spaces
    - Indenting should be based on braces pairs “{}” and strings
      - Left braces “{” causes subsequent lines to be indented one more level
      - Right braces “}” causes subsequent lines to be indented one less level
      - Strings beginning on a separate line are indented one level
      - Strings that continue on more than one line are indented one additional space beyond the initial line
  - Limit line length to avoid line wrapping in the standard
  - A few strings (long paths in particular) cannot be so treated, these can be an allowed exception
  - Remove all tab characters, especially in description strings
    - It is not clear how tabs in descriptions will appear to the end user so we shouldn't depend on them to format text in any case

# Pretty YANG.xlsm

- **A tool demoed on 10/25 accomplishes these formatting rules**
  - Excel VB based (very widely available)
  - Fairly easy to use (few seconds per module)
    - Open tool in Excel
    - Set a few input parameters (line length, indent size, maximum indent level in source document, maximum number of contiguous blank lines in source)
    - Run script – open filename.yang via normal windows explorer
    - Option to identify tab characters occurring in middle of a line
    - Review output
    - Copy output to your preferred text editor and save as filename.yang
    - Repeat step 3-6 for each module
  - I would be happy to run this tool on existing modules

# P802.3cf style guidelines

- **Limit line length to 65 characters (including indents)**
- **Indent 2 spaces per indent level**
- **String arguments (path names excluded)**
  - If beginning on new line indent one additional level
  - Multi-line string arguments indented one additional space after 1<sup>st</sup> line
- **Avoid use of tab characters**
- **Single line statements are encouraged for conciseness when line length limits are not violated**

# Longer term

- **802.1 Yangsters group is looking into developing a set of guidelines, tools and processes to address this issue**
- **Recommend the Ethernet YANG Task Force members participate and monitor these activities to ensure the final outcome is amenable to our needs.**

**Thank you**

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# Motion #

## Adopt the style guidelines in remein\_3cf\_1\_1116.pdf slide 5

Moved: Duane Remein

Second:

For: \_\_\_\_\_

Against: \_\_\_\_\_

Abstain: \_\_\_\_\_

Procedural (>50%) Technical ( $\geq 75\%$ )

Motion Passes/Fails