

Handling Long Lines in Artwork in Drafts

draft-kwatsen-netmod-artwork-folding-06(basis)

draft-wu-netmod-yang-xml-doc-conventions-05

IETF 102, Montreal, Canada

Qin Wu (bill.wu@huawei.com)

Kent Watsen (kwatsen@juniper.net)

Adrian Farrel (adrian@olddog.co.uk)

Benoit Claise (bclaise@cisco.com)

Status

- Presented in IETF 101, London, strong support for trying to solve the problem and mixed views on the solution.
- Kent submitted artwork-folding as an alternative solution in **May 29, 2018** after IETF 101.
- **Artwork-folding and xml-doc-conventions were consolidated into one draft in **June** and use artwork-folding as basis and have received strong support to adopt this work as WG draft.**
 - Thanks Martin Bjorklund, Robert Wilton, Jonathan Hansford, joel jaeggli, for input and discussion (discussing points are summarized in the later slides).
- **The changes to the previous versions**
 - Define folding structure including (header, body), but not including footer
 - Add script for long line folding or wrapping.
 - Add coauthors from xml-doc-conventions draft
 - Remove torture tests from the draft

Issue1# Auto indentation support

- Goal:

- Use indentation to improve readability during long line wrapping.
- Focus on folding on XML or JSON snippets with long identifier names, source code snippets
 - E.g., Folding doesn't work well for UML diagram

- Proposals:

- 1: left-indent w/ fixed offset (e.g., 0 in current or 2 in draft-wu)
- 2: left-indent w/ fixed offset relative to previous line
- 3: variable indent using two markers
- 4: right-indent with zero offset

Proposal 1: left-indent w/ 2-space offset

Before folding:

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-  
  types</namespace>
```

After folding:

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</n\  
  amespace>
```

- Pro:
 - '\' character placement can be "fixed" or "variable"
 - (note: variable supports Martin's "semi-manual" approach)
- Con:
 - None.

Proposal 2: left-indent w/ 2-space offset **related to previous line**, unless already in a folded line.

- **Before folding:**

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>
```

- **After folding:**

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</n\
amespace> //e.g., indent with 2 characters offset
```

- **Pro:**

- '\' character placement can be "fixed" or "variable"
 - (note: variable supports Martin's "semi-manual" approach)

- **Con:**

- **Different from proposal 1**, the position of start character in the above line needs to be identified first.

Proposal 3: variable indent using two markers

- **Before folding:**

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>
```

- **After folding:**

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</n\ //marker one with '/'  
\amespace> //maker two with '/'
```

- **Pro:**

- Where everything between and including the two '\' characters is stripped
- Support variable-length indentation to enhance readability

- **Con:**

- This approach is not conventional;
- marker-2 might be weird/surprising to the average/lazy reader.
- It might produce less readable result when a very long line is folded multiple times.

Proposal 4: right-indent w/ zero offset

- **Before folding:**
`<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>`
- **After folding:**
`<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</n\`
`amespace> //right indentation`
- **Pro:**
 - Use right indentation to enhance readability
- **Con:**
 - This approach is not conventional;
 - Whether left-indent or right-indent is implementation specific.

Issue2#: Artwork auto extraction support

- Artwork auto extraction

- The current draft supports artwork header and artwork body structure definition and doesn't include footer;
- Without Footer, it is hard to know where artwork ends and therefore it is hard to support artwork auto extraction;
- The current header is not dedicated designed for auto extraction, instead, the header is used to determine maximized line length.
- The footer format proposal:

===padding=== End **Folding** per BCP XX (RFC XXXX) ===padding===

- Proposal:

- a) keep as it is
- b) add footer support for artwork auto extraction.

Follow Up

- Request to accept draft as WG item
 - Got already supporters on the list
 - Folding is a good basis now.
- Issue a new revision to incorporate additional features based on feedback in the meeting after becoming WG draft.