

NETMOD YANG Versioning Update

NETMOD WG

November 2024

**Presenting on behalf of the weekly versioning call attendees:
Joe Clarke**

IETF 121

Publication Checklist

✓ Drafts

- draft-ietf-netmod-yang-module-versioning-12
- draft-ietf-netmod-yang-semver-17
- draft-ietf-netmod-yang-module-filename-00 (pulled out into its own draft from module-versioning)

✓ Shepherd

- Lou Berger

✓ WG LC initiated

- October 8 - October 25

? Feedback

Current Feedback

- Jürgen left very detailed feedback on all drafts on Nov 1, 2024
- Some key points:
 - File naming
 - Revision dates should always be included in file names, especially for YANG 1.1, to maintain compatibility with existing tools.
 - Module versioning
 - Mark non-backwards-compatible (NBC) changes at the definition level rather than the module level to make it easier to identify impacted definitions.
 - YANG Semver
 - Clarify the necessity and difference between X.Y.Z and X.Y.Z_compatible versions to avoid confusion and ensure proper semantic versioning practices.

File Naming

- File naming
 - Revision dates should always be included in file names, especially for YANG 1.1, to maintain compatibility with existing tools.
 - **Authors Opinions:**
 - **7950 revision date is optional**
 - **While multiple files can exist referring to the same module (e.g., [ietf-yang-foo@2024-11-04.yang](#), ietf-yang-foo#1.2.3.yang, and ietf-yang-foo.yang) only one SHOULD be published**
 - **Previous guidance was not to soften that SHOULD and not to shy away from this issue**
 - **Would prefer to keep this draft separate at this point**

Module Versioning

- Module versioning
 - Mark non-backwards-compatible (NBC) changes at the definition level rather than the module level to make it easier to identify impacted definitions.
 - **Authors Opinions:**
 - **We had a node-level extension, but removed it as not to clutter modules**
 - **There is still a tooling draft to be completed to highlight those nodes that do have NBC changes**
 - **The extensions here do not make mandatory changes to module semantics. We softened the guidance around recommended-min-date to be advisory**

YANG Semver

- YANG Semver
 - Clarify the necessity and difference between X.Y.Z and X.Y.Z_compatible versions to avoid confusion and ensure proper semantic versioning practices.
 - **Authors Opinions:**
 - **Based on the requirements and use cases, we need the _compatible and _non_compatible modifiers**
 - **We do not support all forms of branching and merging**
 - **In terms of 1.2.3_compatible vs. 1.3.0, it is not safe to assume 1.2.3_compatible and 1.3.0 are equal. One can only assume that 1.2.2 < 1.2.3_compatible has changes that would otherwise constitute a MINOR version increase.**