

NETMOD YANG Semver Update

NETMOD WG

Nov 2022

Presenting on behalf of the weekly versioning call attendees:
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IETF 115

Current Status

- Released -08 which should address all remaining WG LC comments:
 - Clarify relationship between SemVer and YANG Semver
 - Be specific about using “YANG Semver”
 - Clarify what is meant by “editorial change”
 - Added text on when to bump a pre-release YANG Semver revision-label for IETF development
 - Fix IDNITS issues

Outstanding Issues

- We *might* need additional text on which types of branching can use YANG Semver (i.e., what are considered “bad trees”)

“Bad Trees”

YANG artifacts that use the YANG Semver revision-label scheme **MUST** ensure that two artifacts with the same MAJOR version number and no `_compatible` or `_non_compatible` modifiers are backwards compatible. Therefore, certain branching schemes cannot be used with YANG Semver. For example, the following branched parent-child module relationship using the following YANG Semver revision labels **is not supported**:

3.5.0 -- 3.6.0 (added leaf foo)

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3.20.0 (added leaf bar)

Allowed Trees?

A1:

3.5.0 - 3.5.1_compatible (add leaf foo)

\- 3.20.0 (add leaf bar)

(A1 but different timing for 3.20 vs 3.5.1)

3.5.0 - 3.5.1_compatible (add leaf foo)

\----- 3.20.0 (add leaf bar)

Allowed Trees?

A3:

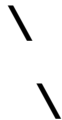
2.3.5 - 2.3.6

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 \----- **2.3.20**

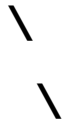
Allowed Trees?

A4:

10.0.0 - 10.1.0 - 11.0.0 - 11.1.0 - 11.2.0 --- 11.3.0 ----- 11.4.0



----- 20.0.0 ---- 20.1.0 - 20.2.0



----- 30.0.0

Illegal Trees?

X1:

2.0.0 -- 4.0.0 - 6.0.0

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\ - **3.0.0**

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\ - - **5.0.0**

Illegal Trees?

X2:

2.0.0 - 10.0.0 - 8.0.0

Illegal Trees?

X3:

3.5.0 - 3.5.1_compatible

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\----- **3.5.2_compatible**

Next Steps

- Conduct second WG LC