

NETMOD Versioning Solution Overview

NETMOD WG

March 2021

**Presenting on behalf of the authors:
Jason Sterne**

Agenda

This presentation:

Solution Overview – Jason Sterne

Following presentations on individual drafts:

YANG Module Versioning – Reshad Rahman

YANG Semantic Versioning – Joe Clarke

Recap - YANG Versioning Solution Overview

Complete solution consists of five drafts:

1. Updated YANG Module Revision Handling:
Can notify of nbc changes between module revisions, allows branched revision history, revision-labels
2. Module semantic version number scheme:
Allows use of YANG semver for module revision-labels and package versioning
3. Versioned YANG packages:
Versioning at the schema level rather than individual modules
4. Protocol operations for package version selection:
Devices can support multiple schema versions, clients can select for session
5. YANG schema comparison tooling:
Tooling to algorithmically compare module or schema revisions

Latest working drafts can all be found here: <https://github.com/netmod-wg/yang-ver-dt>

General update on weekly Versioning calls

- Focus shifted back to Module Versioning and YANG Semver drafts
- A number of difficult major issues were still open (details in upcoming presentations)
- Held two NETMOD Virtual Interim meetings:
 - Decent attendance (18 and 12 people)
 - Successful in moving key outstanding issues forward
- A number of issues are still open against both drafts, although they are trending towards more minor issues now

Next Steps

- Authors + interested parties continue to meet on a weekly call to progress this work
 - Meetings are open to all
 - key issues are brought back to WG mailing list
 - Weekly meeting is currently on Tues @2pm UK time / 9am Eastern.
Thanks to the authors and contributors for their regular attendance
- Issues tracked in github, discussed on WG mail list
<https://github.com/netmod-wg/yang-ver-dt>
- Phase work on the documents:
 - Try to wrap up Module Versioning and YANG Semver
 - Move onto Packages in the next few months
 - Version Selection and Schema Comparison to follow

How far to progress first 2 drafts?

The authors aren't certain when to take the first two drafts (Module Versioning and YANG Semver) to WGLC:

1. Now while all the issues are fresh in our minds, or
2. After the other 3 drafts have progressed further so we can make changes to the first two
 - We have found this necessary a few times when we've discussed the other 3 drafts
 - locking down the two drafts now may create a barrier for making further useful changes to Packaging, and Version Selection.

Proposal: don't ask for formal WGLC review but at the appropriate point (target before next IETF) announce that authors are done with the first 2 drafts (barring anything coming up in the subsequent drafts).