# NETMOD YANG Versioning Update

## NETMOD WG

July 2025

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

**IETF 123**

YANG Versioning: The Progress Race!
Updated YANG Module Revision Handling
YANG Semantic Versioning
YANG Module filename Convention
IESG
IESG
YANG Schema Comparison
YANG Packages
YANG Schema Selection
NEYNOMES

# YANG Versioning Requirements

From draft-ietf-netmod-yang-versioning-reqs:

1. Support non-backwards-compatible updates to modules
2. Identify changes between module revisions
3. Support existing clients in a backwards-compatible way
4. Manage and document the life cycle of data nodes
5. Document and educate

# Solution Overview

Proposed full solution is made up of 6 drafts (at different levels of maturity):

1. Updated YANG Module Revision Handling (draft-ietf-netmod-yang-module-versioning-13)
   - Aligns to aspects of all requirements.
2. YANG Semver (draft-ietf-netmod-yang-semver-20)
   - Aligns to requirement 2.
3. YANG module file name convention (draft-ietf-netmod-yang-module-filename-02)
   - Aligns to requirement 2.
4. YANG Packages (draft-ietf-netmod-yang-packages-06)
5. YANG Schema Selection (draft-ietf-netmod-yang-ver-selection-00)
   - Aligns to requirement 3.
6. YANG Schema Comparison (draft-ietf-netmod-yang-schema-comparison-02)
   - Aligns to requirement 2.

With the IESG

Actively being worked

Initial work exists

Work has stalled

# IESG Drafts

- YANG Doctors reviews requested for YANG Module Versioning and YANG Semver
  - Review received on Module Versioning and Reshad is addressing it

# YANG Packages

- Rob will present this in much more detail
- Doesn’t directly address any of the YANG Versioning requirements, but establishes building blocks to enable easy consumption of the work

# YANG Schema Comparison

- Work, including some tooling has started by Per Andersson and Michal Vasko
- Working toward a reference implementation that they hope to be available by IETF 124
  - Implementation first, then supporting text (hence draft is currently expired)
  - Planning to present the work at IETF 124

# YANG Schema Selection

- Draft is still at -00 and expired
- No current direct work, but perhaps Packages can address some aspects of this

# Next Steps

- Continue to tackle work items on the Tuesday 9:00 am US Eastern Time
  - https://ietf.webex.com/webappng/sites/ietf/meeting/info/5e48713ec5344ee0912cf26085f69996_20250715T130000Z
  - Currently focusing on Packages
  - Join us!
- Reach out to Michal and Per to help with Schema Comparison
- Take up the mantle on Schema Selection and resurrect the draft