NETMOD Versioning Solution Update

NETMOD WG

July 2020

Presenting: Reshad Rahman

Agenda

This slide deck:

    Solution Update – Reshad Rahman

Following presentations on individual drafts:

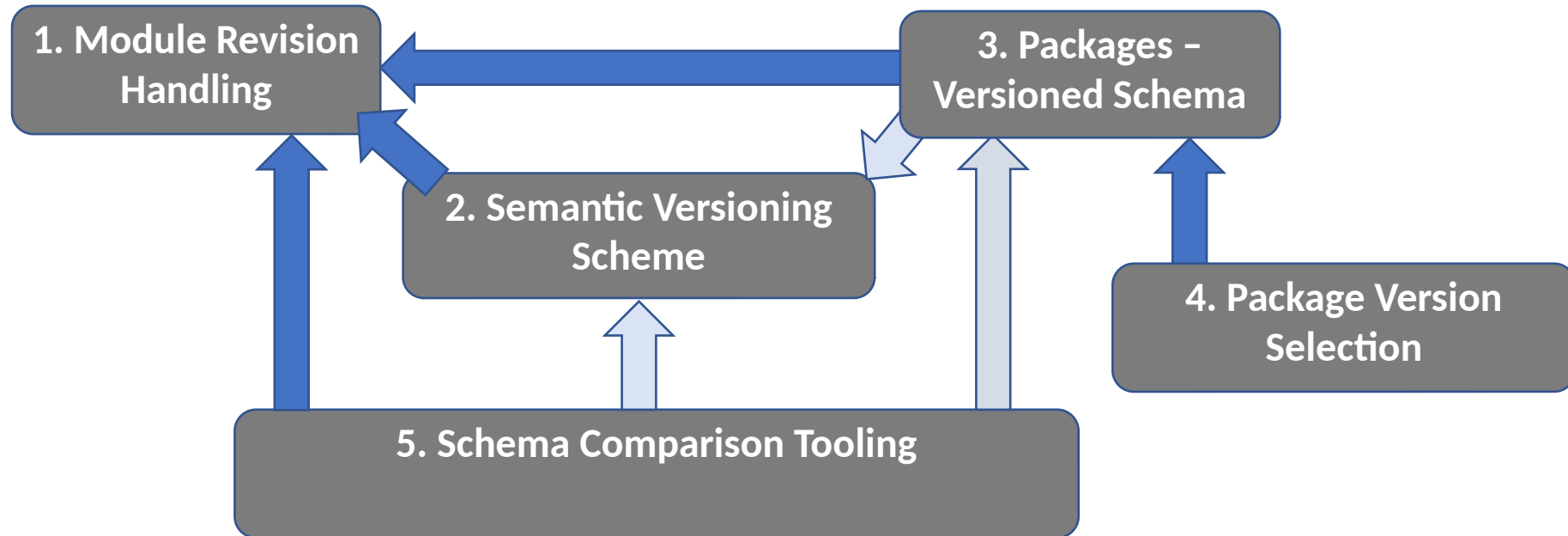   **Updated YANG Module Revision Handling – Reshad Rahman**

    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, handles 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

YANG versioning solution – dependencies:

Requirements and Solution Overview Drafts

YANG Module Versioning Requirements
[draft-ietf-netmod-yang-versioning-reqs-02](#)

- Document is stable – no changes since IETF 106
- Do we aim to take this to informational RFC?
- Bring it to WG LC now?

YANG Module Solution Overview
[draft-ietf-netmod-yang-solutions-00](#)

- Do we aim to take this to informational RFC?
- Bring to WG last call once all 5 solution drafts are at WG last call?

Solution Drafts

Updated YANG Module Revision Handling
draft-ietf-netmod-yang-module-versioning

- Updated since March 2020 virtual interim
- Presentation to follow

YANG Semantic Versioning
draft-ietf-netmod-yang-semver

- Updated since March 2020 virtual interim
- Presentation to follow

Solution Drafts

YANG Packages
draft-ietf-netmod-yang-packages

- Unchanged since March 2020 virtual interim

YANG Schema Selection
draft-ietf-netmod-yang-ver-selection

- Unchanged since March 2020 virtual interim

YANG Schema Comparison
draft-ietf-netmod-yang-schema-comparison

- Unchanged since March 2020 virtual interim

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 (Bo Wu, Jan Lindblad, Italo Busi) for their regular attendance
- Issues tracked in github (https://github.com/netmod-wg/yang-ver-dt), discussed on WG mail list
- Phase work on the documents:
    - module versioning & yang semver first (get to last call)
    - packages, version selection and schema comparison to follow