



# Augmented-by Addition into the ietf-yang-library

draft-ietf-netconf-yang-library-augmentedby-01

IETF 121 NETCONF

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Presenter: Zhuoyao Lin

Author: Zhuoyao Lin, Benoit Claise, Ignacio Dominguez Martinez-Casanueva



**I E T F**

# Background & Motivation

## A default action of libnetconf2:

The open-source library we use (libnetconf2) by default get all YANG modules at the beginning to be able to learn module relationship (import, include, augment, deviate). When testing program on router, it takes 10 min before we can send a get.

## Reverse-dependency is bottle-neck:

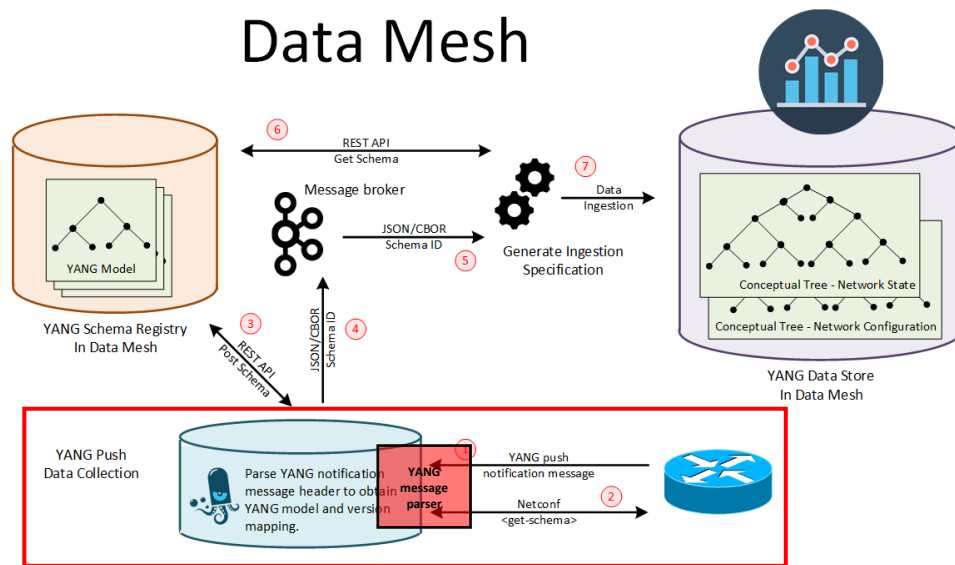
Augment&deviations cannot be parsed from module, how to learn about them is a problem.

Two solutions are proposed:

-> get all modules

-> parse message element header/namespace

## Use Case 1: YANG-Push Integration into Apache Kafka



# Changes

Two new version submitted

## **draft-lincla-netconf-yang-library-augmentedby-02**

-> **draft-ietf-netconf-yang-library-augmentedby-00**

- 1. **Adopted by WG**. Rename to be WG document: draft-lincla-netconf-yang-library-augmentedby-01

## **draft-ietf-netconf-yang-library-augmentedby-00**

-> **draft-ietf-netconf-yang-library-augmentedby-01**

- 1. **Correct yanglint validation example** and updated explanation
- 2. Delete Section “ietf-yang-library Impact Analysis, as an evaluation for RFC8525bis”

# Changes Explanation

## Yanglint validation example

In the last version the invalid example has been falsely put as the valid one.

In the invalid example, there is an augmentation across different module-set, which according to the YANG rule, is not allowed.

The yanglint validation is an showcase of **how the augmentedby is supposed to work as a module that augments the ietf-yang-library.**

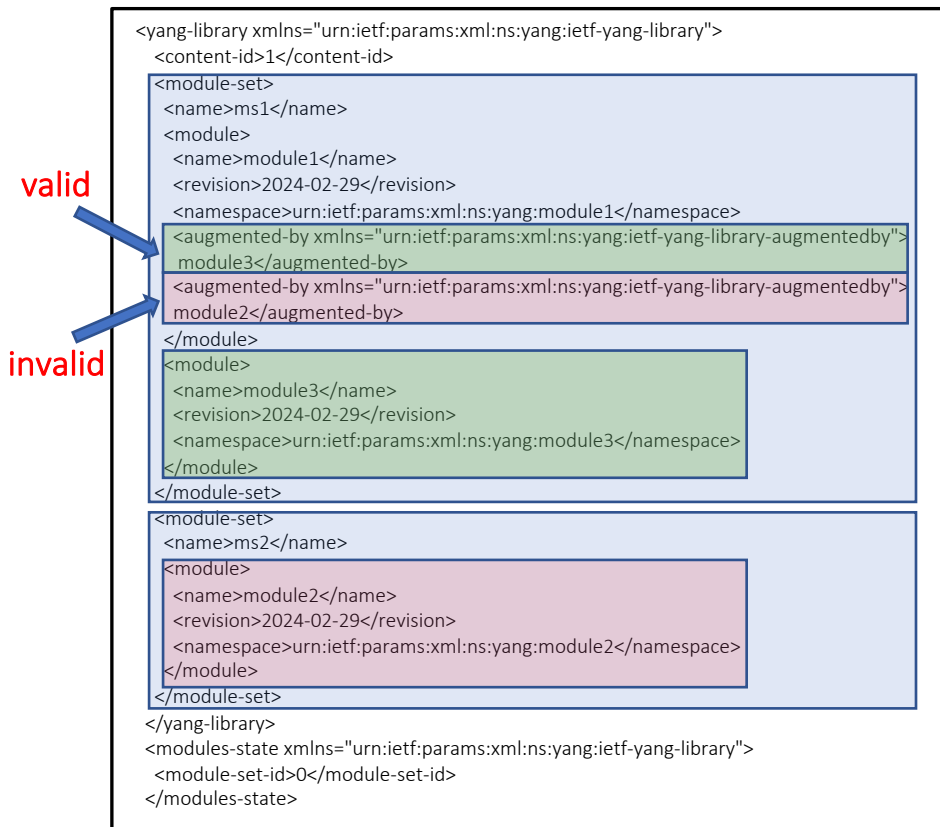


Figure 1. yanglint invalid example

# rfc8525 bis => Closed

- Too big of task, will take too long
- Authors do not consider doing this.

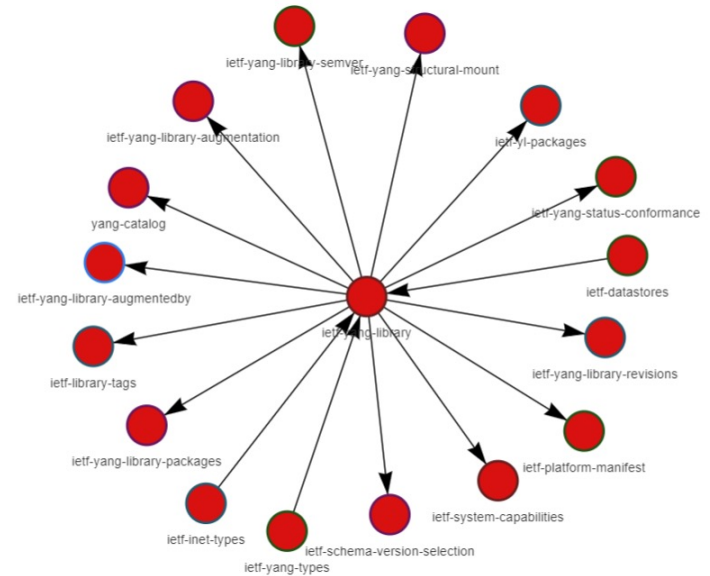


Figure 2. ietf-yang-library impact analysis

# Conclusion & Next Step

- All open issues are resolved
- We believe it's ready for Working Group Last Call

**Team members:**

Zhuoyao Lin

<zephyre888@gmail.com>

Benoit Claise

<benoit.claise@huawei.com>

IGNACIO DOMINGUEZ MARTINEZ-CASANUEVA

<ignacio.dominguezmartinez@telefonica.com>

**Resources:**

<https://github.com/Zephyre777/draft-lincla-netconf-yang-library-augmentation.git>

<https://datatracker.ietf.org/doc/draft-lincla-netconf-yang-library-augmentation/>

**Reference:**

<https://datatracker.ietf.org/doc/draft-ietf-nmop-yang-message-broker-integration/03/>