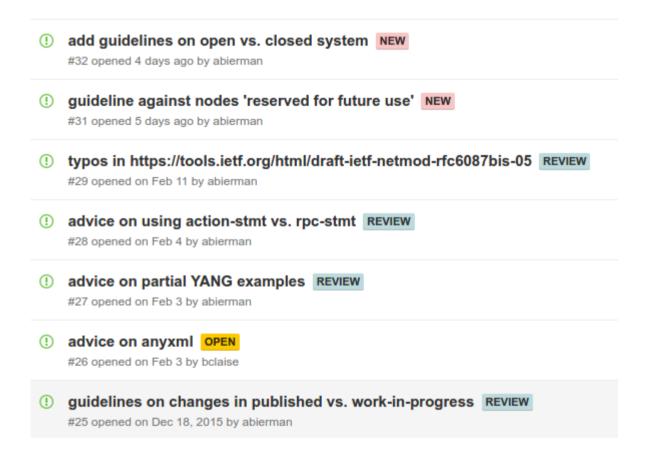# YANG Usage Guidelines

draft-ietf-netmod-rfc6087bis-06
NETMOD WG
IETF #95 Buenos Aires, Argentina

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v0.1

Agenda

- Issue Tracker Status

  - Open Issue: Use of anyxml

  - New Issues added since Draft -06 published

- Changes in Draft -06

  - Issue: CODE vs EXAMPLE vs fragment

- Next Steps

  - Draft -07 will be ready for WGLC

Current Issue Tracker Status

Open Issue: Use of anyxml

6020bis mentions:

> Since the use of anyxml limits the manipulation of the content, it is
> RECOMMENDED that the "anyxml" statement not be used to define
> configuration data.
>
> It should be noted that in YANG version 1, anyxml was the only
> statement that could model an unknown hierarchy of data. In many
> cases this unknown hierarchy of data is actually modelled in YANG,
> but the exact YANG model is not known at design time. In these
> situations, it is RECOMMENDED to use anydata (Section 7.10) instead
> of anyxml.

6087bis mentions:

> The "anyxml" statement MUST NOT be used to represent a conceptual
> subtree of YANG data nodes. The "anydata" statement MUST be used for
> this purpose.

I see two discrepancies:

RECOMMENDED versus MUST NOT

configuration data versus "a conceptual subtree of YANG data nodes": not too clear to me

Regards, Benoit

Open Issue: Use of anyxml (2)

- What restriction is appropriate for IETF?

  - Says MUST NOT use anyxml as a data node (use anydata instead)

- Should this be changed to SHOULD NOT?

New Issues (for draft-07)

- Reserved for Future Use

    - Do not add data nodes unless they are needed now; Add real nodes in a future module revision

- Open vs. Closed Systems

    - Standard modules running on an open system cannot assume a fixed set of known modules and revisions

Change Log from Draft-06

- Changed example 'my-module' to 'example-module'
- Added section Updating YANG Modules (Published vs. Unpublished)
- Added Example Modules section
- Added "<EXAMPLE BEGINS>" convention for full example modules
- Added section on using action vs. rpc
- Changed term "operational state" to "operational data"
- Added section on YANG Data Node Constraints
- Added guidelines on using must vs. when statements
- Made ietf-foo module validate for I-D submission

Issue: Example YANG

- <CODE BEGINS> … <CODE ENDS>
  - For complete normative YANG [sub]modules intended for extraction and pass pyang --ietf
- <EXAMPLE BEGINS> … <EXAMPLE ENDS>
  - For complete example YANG [sub]modules intended for extraction but not pass pyang --ietf
- no tags at all
  - For partial example YANG modules not intended for extraction or compilation

Next Steps

- Update draft with guidelines for new and open issues

- Ready to start WGLC on next draft