



YANG Module Update Procedure

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[draft-clacla-netmod-yang-model-update](#)

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New Module Update Procedure

- › Re-Based on [draft-verdt-netmod-yang-versioning-reqs-00](#)
- › Addressed Requirement
 - 1.1, 1.2 : Allow non-backward compatible updates
 - 1.3 : A better import statement (import a set of versions)
 - 2.1 : Indicate if module update incompatible, compatible or bugfix
 - 4.1: Determine whether deprecated nodes are implemented
 - 4.2 : Document details of deprecation/obsoleting (alternatives, reason, etc.)
 - 4.3 : Early warning of obsoleting (It will become obsolete, but is still usable today)
 - 5.1 : Guidance to model authors
 - 5.2 : Guidance on transition to new procedures

New Module Update Procedure

> Not covered

- 2.2 : Find changes for individual data nodes
 - > Might be covered by creating a new tool without any new RFC documentation
 - > Using semver on a data node level may be considered \rightarrow
- 3.1 : New servers must be able to support old clients
 - Possibly handled separately based on module-sets
 - A client may be allowed to choose a module set with specific version to use for the OAM operations
- 3.2 : Servers to support clients using different revisions of a module
 - Possibly handled separately based on module-sets
- 4.4 : Bug fixes to older module versions
 - partially covered
- 5.3 : Describe impacts on YANG Instance Data
 - Should be defined in the instance data draft **after** the versioning schemes is agreed

Changes

- › Problems and Requirements moved to Req draft
- › Deprecated nodes SHOULD be implemented
 - › Ietf-yang-library augmented for each module/submodule with **deprecated-nodes-present & obsolete-nodes-present**. Default and Recommended: implement deprecated, don't implement obsolete
 - › In -03: deprecated MUST be implemented, Obsolete schema nodes MUST be removed.
 - › More compatible with YANG 1.1
 - › More complicated, compatibility depends on the XX-nodes-present leafs
 - › Compatibility evaluated based on implemented deprecated and removed obsolete nodes
- › Import by Semantic Version refined
- › Added status-description to allow description of status changes
- › Include by Semver removed: include is a very close relationship, we don't need/want the flexibility
- › YAM Packages/Bundles are a separate problem, out-of-scope

Open Issues

- › Do we need a new YANG version for this work?
- › Should IETF/IANA officially generate derived semantic versions for their own modules?
 - Proposal: Yes
- › new naming convention for module files
module#version.yang