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 –

- 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 leaves
    › 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