

YANG Tree Diagrams

draft-ietf-netmod-yang-tree-diagrams-02

IETF 100

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Repo: <https://github.com/netmod-wg/yang-tree-diagrams/>

Background: YANG *Schema* Tree Representation

- Previously
 - All documents copy&paste(&change) the same basic text
 - Readers had to carefully read this text to find the differences between documents
 - No schema mount representation
- Now
 - **draft-ietf-netmod-yang-tree-diagrams**
 - Single document defining YANG Tree Representation

Changes since last meeting

- Objective was to resolve all open issues to prepare for publication
- draft-ietf-netmod-yang-tree-diagrams-02
 - Completed planned sections
 - Clarified mount points, parent references, mounted trees
 - With additional changes agreed to on list
 - Added guidelines for long trees

Node Representation

`<status> <flags> <name> <opts> <type> <if-features>`

`<status>` is one of:

- + for current
- x for deprecated
- o for obsolete

`<flags>` is one of:

- rw for configuration data
- ro for non-configuration data
- x for rpcs and actions
- n for notifications
- mp for nodes containing a "mount-point" extension statement

`<name>` is the name of the node

`(<name>)` means that the node is a choice node

`:(<name>)` means that the node is a case node

If the node is augmented into the tree from another module, its name is printed as `<prefix>:<name>`.

`<opts>` is one of:

- ? for an optional leaf, choice, anydata or anyxml
- ! for a presence container
- * for a leaf-list or list
- [<keys>] for a list's keys
- / for a top-level data node in a mounted module
- @ for a top-level data node in a parent referenced module

`<type>` is the name of the type for leafs and leaf-lists

If the type is a leafref, the type is printed as `"-> TARGET"`, where TARGET is either the leafref path, with prefixed removed, if possible.

Open Discussion Topics From List

- Guidelines to Model authors on trees – where does it belong
 - 6078bis has Sections 2.5.1 (points here) and 3.4 (with minimal guidelines)
 - This draft covers more than just tree format, e.g., long tress
 - Some options:
 1. All guidelines in 6087bis, this draft is just format definition
 - 6087bis would need to be updated, again
 2. All guidelines in a wiki
 - How would non-IETFers learn about this?
 3. All guidelines in this document
 - 6087 updated to point to here, similar to current section 2.5.1
- Should guidelines allow a diagram to not expand a grouping?
 - print the uses with a "--u" symbol.

Next Steps

- Resolve open questions
- Publish new revision
- WG LC immediately following