

System-defined Configuration

draft-ietf-netmod-system-config-08

NETMOD WG

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on behalf on authors and contributors

Document Status Since IETF #119

- WGLC on -05
- Updates from -05 to -08 to reflect:
 - WGLC comments
 - A lot of changes were made based on discussion on the mailing list
 - Thanks to Jan, Rob and Jason for excellent comments!
 - YANG Doctors Last Call Review
 - Nits were fixed about YANG modules, including a few example modules
 - Thanks to Michal Vasko and Med for your review and valuable comments!
- All issues should have been resolved now
 - Subject to feedback from reviewers

Some WGLC Issues to Highlight...

What needs to be copied from <system> into <running>

- A question for both clients' explicit declaration and servers' auto-configuring triggered by "resolve-system" parameter
- The previous version states only the parts that are required to make <running> valid (e.g., the list entry with at least the key) need to be copied. But for the uncopied parts (e.g., other descendant nodes), there is concern that legacy clients are unclear whether they are "not set" vs. "not copied"
- Proposal: ask to copy the entire referenced system-node (e.g., the entire list entry) with all descendants
 - To save the efforts to calculate the minimum
 - Assume that space is not a big deal

Some WGLC Issues to Highlight...

Merging behavior of <system> and <running>

- How “ordered-by user” lists and leaf-lists are merged? Do the <running> values go before or after, or is this a case where a full replacement is needed?
- This document should not define what “merge” means, as it is not specific to system configuration.
- orthogonal to modifying/overriding system configuration, which is more related to changing values of system nodes
- Proposal: to leave it unspecified, examples avoid implicitly defining merge-logic.
 - Suppose lists when not “ordered-by user” are safe as examples?

Some WGLC Issues to Highlight...

Impact of “resolve-system” parameter on candidate/priv-candidate ds

- A client may edit the candidate or private-candidate datastore without expecting it to be valid until a <commit> or <validate> operation takes place.
- The “resolve-system” parameter *may* be used in following cases:
 - The client makes an edit to the candidate or private-candidate datastore
 - The client issue a <validate> operation
 - The client issue a <commit> operation
- Configuration copied by the server may conflict with the contents of <running>, but the resolution is identical to resolution of conflict caused by configuration explicitly provided by the client.

Next Steps

- Request the WG to review the update
- Another WGLC?