YANG Metadata Annotation for Immutable Flag

draft-ietf-netmod-immutable-flag-01

NETMOD WG
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On behalf of authors and contributors
Document Status

• Discussed at the February virtual interim
  • Thanks again to a lot of active participants and their great comments.

• Adopted just before IETF #119

• Publish -01 to incorporate inputs received at the interim, as well as some other issues identified by authors
Main Changes Since IETF #119

Be clear on the following:

• Servers may suppress the annotation if it is inherited from its parent node or uses the default value as the top-level node, but are not precluded from returning the annotation on every single element.

• Immutable flag has no bearing on the list/leaf-list entry ordering and addition of new entries
  • Even if a leaf-list/list overall inherits immutability from its parent node

• Immutable data can always be copied into/deleted from <running>
  • Merely mean making a copy of system config visible/invisible in <running>

• Server MUST ignore any immutable annotations sent from the client.

• The immutability and value of immutable data MUST only change via software upgrade, hardware resources change, or license change.
Other updates that the authors believe are needed:

• Formally update RFCs 6141, 8040 and 8526, as this document extends existing protocol operations with an additional input parameter, i.e., with-immutable
  • Related sections are added to clarify update details

• Add RESTCONF support of immutable flag, as it should not be NETCONF-specific.
Comments, Questions, Concerns?