

# **YANG Metadata Annotation for Immutable Flag**

draft-ietf-netmod-immutable-flag-01

**NETMOD WG**

July 22, 2024

**Qiufang Ma (Presenting)**

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.

# Main Changes Since IETF #119 (cont.)

*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?