NMDA Base Notification for Applied Intended Configuration

draft-wu-netmod-base-notification-nmda-00

Qin Wu
Rohit R Ranade
Update from IETF 102

• This draft defines 3 NMDA specific notifications for additional common system events.
  – Track some configurations that could not be applied to <operational> due to either validation issues, or missing resource etc
  – Help user to know the applying result of <intended> data-store and the reason why the configuration were not applied.

• Move from netconf to netmod and replace draft-wu-netconf-base-notification-nmda-02
  – Can work together with NMDA diff based on NETCONF discussion

• Changes since previous version
  – Clarify the relation with NMDA Datastore Compare
  – Introduce two new events intended-apply-start and intended-apply-end
  – Narrow down the existing event notification to Applied Intended Configuration
  – Failure handling consideration
Module ietf-nmda-notifications

- Indicate the start time of configuration applied from intended
- Report complete status using errors grouping defined in ietf-restconf module

Relation with NMDA diff:
NMDA Diff is used to check which part of intended configuration data is applied or which part of intended configuration data is not applied.
3 NMDA specific Notifications

Datastore workflow

At boot time

Every time when the “running” datastore has been altered

Configuration transformation

The sequence of Event Notifications

netconf-session-start (RFC6470)
netconf-confirmed-commit (RFC6470)
netconf-config-change (RFC6470)
netconf-capability-change (RFC6470)

Intended-applied-start (This draft)
intended-applied-end (This draft)
nmda-intended-applied (This draft)
Next Step

• Do we require intend-apply-start event?
  – Sent at the same as netconf-confirmed-commit
  – Send intend-apply-start every time commit is expensive.
  – Commit should not wait for previous intend apply complete
  – Proposal:
    • Option 1: Set it as optional? Turn it off when it is not needed.
    • Option 2: Delete it?

• Request to accept draft as WG item
  – Got already support on the list