

Base Notifications for NMDA

draft-wu-netconf-base-notification-nmda-01

Qin Wu
Rohit R Ranade

Status Recap

- Submitted and presented during IETF 101, London, two issues were raised on this draft
 - the relationship between on change YANG Push and netconf-data-change and
 - what need to be modified in RFC6470 to support NMDA
- After IETF 101,London, a few discussion to address the above issues:
 - Thanks Carey, Timothy,Andy Berman and Rohit R Ranade to provide input and feedback
 - Discussed RFC6470bis vs New draft on NMDA base event support and reached agreement
 - Discussed what need to be defined to support NMDA and remove netconf-data-change to address overlapping with YANG push
- Changes since -01
 - Remove netconf-data-change and replace it with nmda-data-validate .
 - Provide an example for nmda-data-validation notification.
 - Remove dependency on ietf-netconf-notifications
 - Introduce Rohit R Ranade as a new coauthor.
 - Some other editorial changes.

Solution for NMDA Data Validation

- Introduce one additional common system event `nmda-data-validate` pertaining to NMDA

`nmda-data-validate`: Generated when a server with network management protocol support detects that a data validation event has occurred from the time that configuration is committed to `<running>` to the time that the configuration is actually applied to `<operational>` during management session. Indicates the event and the current state of the data validation.

- Inherit `common-session-parms` from NETCONF base event model defined in RFC6470.
- Allow clients get access to this notification via either the subscription mechanism described in [RFC5277] or dynamic subscription mechanism and configured subscription mechanism described in [I- D.ietf-netconf-netconf-event-notifications].
- Allow the server report events for non- NETCONF management sessions (such as RESTCONF,gPRC), using the 'session-id' value of zero.

How NMDA Data Validation works

Example of a nmda-data-validation notification message is:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2017-06-16T16:30:59.137045+09:00</eventTime>
  <nmda-data-validate xmlns="urn:ietf:params:xml:ns:yang:ietf-nmda-notifications">
    <username>admin</username>
    <session-id>0</session-id>
    <source-host>10.251.93.83</source-host>
    <validate-event>start</validate-event>
    <validate-result>partial-fail</validate-result>
    <validate-fail-targets>
      <datastore>intended</datastore>
      <target>/ietf-interfaces:interfaces-state</target>
    </validate-fail-targets>
    <validate-fail-targets>
      <datastore>intended</datastore>
      <target>/ietf-system:system</target>
    </validate-fail-targets>
  </nmda-data-validate>
</notification>
```

Next Step

- Two open issues in last meeting have been resolved.
- Request to accept draft as WG item
 - Got already supporter on the list