###### System gNMI Alarm enhancements

***Requirement:***

* Prior to 10.7.1, the alarm inventory table will show the default severity against each alarm and any user change of severity against each alarm was not displayed.

***Objective:***

* From 10.7.1 onwards, the s/w will display default severity in Alarm Inventory and support Configurable alarm severity as per RFC 8632.
* For each alarm, a maximum of 4 operator state change and 16 system triggered state change history logs will be available for user reference.
* The user can now create multiple alarm shelves with different criteria. The permissible upper limit is 8 shelves.

***Procedure & Configuration:***

* Create alarm profile to configure severity levels of the alarms:
  + alarms alarm-profile <alarm-type-id> <alarm-typequalifier-match>

<resource> alarm-severity-assignmentprofile severity-level <severity- level> <severity-level> <severity-level>

* Configuring alarm history count:
* A. For system triggered alarm state change count:
  + alarms alarm-profile <alarm-type-id> ALL ALL max-alarm-status-changes

<count>

* B. For operator triggered alarm state change count:
  + alarms alarm-profile <alarm-type-id> ALL ALL max-alarm-operator-state- changes <count>
* Set the alarm operator state:
  + alarm set operator-state resource <alarm-resource> type <alarm-type> type-qualifier <alarm-type-qualifier> state <operator-state> text

<text>

***Configuration:***

5164> sh run sec alarms config

alarms control alarm-shelving shelf 'Fan-speed' alarm-type-id fan-max- speed alarm-type-qualifier-match "ALL" resource "r1"

alarms alarm-profile 'interface-fault' 'ALL' 'ALL' description "Test123" max-alarm-status-changes 14 max-alarm-operator-state-changes 3

alarms alarm-profile 'interface-fault' 'ALL' 'ALL' alarm-severity- assignment-profile severity-level critical

5164>

***Verification:***

5164> show alarm inventory alarm-type interface-fault

+

| Type

+

ALARM INVENTORY

| Qualifier | Severity | Description

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| interface-fault | | critical | Interface oper state change |

+

5164-201-A>

+

+

+

+

Text

Description automatically generated

Test Case Results:

Passed: Yes No Verified by Date/Time Comments