A Common YANG Data Model for Scheduling

draft-ma-opsawg-schedule-yang-04

Qiufang Ma (Huawei) **Presenter**
Qin Wu (Huawei)
Mohamed Boucadair (Orange)
Daniel King (Lancaster University)
Since IETF 118

• Document updates based on the outcome of side meeting @ IETF 118
  • define basic, intermediate, and advanced versions of recurrence groupings for the sake of modularity
  • define features to allow for different implementation options
  • add sample modules to exemplify how future modules can use/extend "ietf-schedule" YANG data model

• Wide use of this draft now
  • draft-ietf-opsawg-ucl-acl
    • ACL policy activation based date and time conditions
  • draft-contreras-opsawg-scheduling-oam-tests
    • on-demand network diagnosis using OAM test in a precise period of time or recurrence rule
  • draft-united-tvr-schedule-yang
    • scheduled network resources and topologies changes in time-variant routing system
Since IETF 118 (cont.)

• Incorporate comments from Luis (co-author of I-D. contreras-opsawg-scheduling-oam-tests)
  • add “generic-schedule-params” grouping used for validating requested schedules
  • add “schedule-status” grouping for scheduling management/status exposure
  • some are still open for discussion
    • see https://github.com/boucadair/policy-based-network-acl/issues for details
    • comments and suggestions are always welcome

• Seek for cross-WG reviews
  • Positive feedback received from TVR WG
  • Some comments are related to examples of using/extendig the schedule YANG data model in the appendix
Is this draft ready for adoption?
Groupings in Current Schedule YANG Model

• generic-schedule-params:
  • can be used by a system to validate a requested schedule, e.g., min/max-allowed-start

• period-of-time:
  • represents a time period

• recurrence:
  • represents a simple recurrence rule

• recurrence-with-date-times:
  • uses the “recurrence” grouping
  • represents an aggregate set of repeating occurrences with additional date and time specified

• icalendar-recurrence:
  • uses the “recurrence-with-date-times” grouping
  • allows a comprehensive representation of recurrence

• schedule-status:
  • Common definition for schedule status, e.g., schedule-id, last-update, last-occurrence, upcoming-occurrence...