

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/extending 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...