

A Common YANG Data Model for Scheduling

draft-ma-opsawg-schedule-yang-04

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Document Status

- Motivated by scheduling augmentation to the ACL model in draft-ietf-opsawg-ucl-acl
 - E.g., an ACL policy that takes effect from 9:00 a.m. to 5:00 p.m., every Monday to Friday
- Separated from draft-ietf-opsawg-ucl-acl based on feedback from OPSAWG
 - Align with the representation of “period of time” and “recurrence rule” formats in RFC5545
 - designed to be common because of some other ongoing efforts related to the scheduling contexts identified

Document Status (cont.)

- Side meeting (IETF 118) with authors of different drafts related to scheduling
 - Discuss how various requirements could be met
- Document updates based on the outcome of side meeting
- **Cross-WG reviews**, positive feedback received from TVR WG
- **Normative dependency** on this draft
 - 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

Groupings in Current Schedule YANG Model

- generic-schedule-params:
 - used by a system to validate a requested schedule, e.g., min/max-allowed-start
- period-of-time:
 - represents a precise 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...

Next Steps

- Initially requested adoption in OPSAWG, but per the AD's suggestion, NETMOD WG may be more appropriate
- Is NETMOD interested to adopt this work or should we proceed with the adoption in OPSAWG?
 - Normative dependencies on this work
 - OPSAWG UCL spec is ready for WGLC, but waits for this one
 - Urgent requirements from TVR WG
- Comments are welcome