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