YANG Model for Scheduled Attributes

draft-united-tvr-schedule-yang

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Changes since IETF 118

• draft-ma-opsawg-schedule-yang-04 - A Common YANG Data Model for Scheduling (ietf.org)
  This document defines a common schedule YANG module, ietf-schedule.yang, which is designed to be applicable for scheduling information such as event, policy, services, or resources based on date and time.

• TVR Schedule Definitions
  Module ietf-tvr-schedule.yang augments the grouping defined in the ietf-schedule.yang with TVR required attributes, and it meant to be used by other modules.
Design of the Model

• TVR Node YANG Module
  Module ietf-tvr-node.yang is a device model and designed to manage a single node with scheduled attributes.

• TVR Topology YANG Module
  Module ietf-tvr-topology.yang describes a network topology with a time-variant availability schedule.
grouping tvr-schedule {
  list schedules {
    key schedule-id;
    leaf schedule-id {
      type uint32;
      description
      "Identifies the schedule.";
    }
    uses schedule:recurrence;
  } container attr-value {
    description
    "Attribute value(s). This container should be augmented with attributes that apply to the current interval.";
  }
  description
  "list of schedules.";
} description
"A common grouping definition of schedules.";

A list of schedules identified by a "schedule-id"
Module ietf-tvr-node.yang

```yang
++-rw interface-schedule
   ++-rw interfaces* [name]
      ++-rw name union
      ++-rw state-default? boolean
      ++-rw up-down-schedule
      ++-rw schedules* [schedule-id]
         ++-rw schedule-id uint32
         ++-rw recurrence-first
            | ++-rw date-time-start? union
            | ++-rw time-zone-identifier? sys:timezone-name
            | ++-rw duration? duration
         ++-rw frequency? identityref
         ++-rw interval? uint32
         ++-rw (recurrence-bound)?
            | ++-:(until)
            | | ++-rw until? union
            | ++-:(count)
            | | ++-rw count? uint32
         ++-rw attr-value
         ++-rw available? boolean
```

Is UTC only enough?

Number of seconds
Next Steps

• Reviews and comments are welcome
• Is this ready for WG adoption?

THANKS!