draft-ahuang-netconf-notif-yang-02/03

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29 October 2023

Context - Netconf Notification

RFC 5277 - Netconf Event Notifications

RFC 8641 - YANG Push

YANG encodings:

- RFC 7950 YANG XML
- RFC 7951 YANG JSON
- RFC 9254 YANG CBOR

Proposal

- Definition of the notification structure in a YANG
- Updates RFC5277
- Uses the same XML URI as RFC5277

```
sx:structure notification {
  leaf eventTime {
    type yang:date-and-time;
    mandatory true;
  description
    "The date and time the event was generated by the event source.
    This parameter is of type dateTime and compliant to [RFC3339].
    Implementations must support time zones.
    The leaf name in camel case matches the name of the XSD element defined in Section 4 of RFC5277.";
  }
}
```

module: ietf-notification

structure notification:
 +-- eventTime yang:date-and-time

Current status

- Editorial changes based on Andy Bierman and Tom Petch feedback from the ML
 - Extended Abstract explaining which issues this draft solves
 - Fix some references
 - Explained why the YANG URI is the same as RFC5277
- Added a section explaining the difference with draft-ietf-netconf-notification-messages
- Added examples
 - JSON encoded message
 - CBOR encoded message using CBOR diagnostic notation

Current issues

- 1. "inotif" as a prefix for the YANG module ok?
- 2. Feedback from Andy Bierman: This draft should request CBOR SID range for the structure
 - The authors has decided to wait for CBOR-SID to be RFC and will discuss with CORE WG for guidelines

Next steps

- Request more feedback from the WG
- Working Group Adoption?

BACK UP: Difference with <u>draft-ietf-netconf-notification-messages</u>

draft-ahuang-netconf-notif-yang

```
module: ietf-notification

structure notification:
    +-- eventTime    yang:date-and-time
```

draft-ietf-netconf-notification-messages

```
structure message
   +--ro message!
      +--ro message-header
         +--ro message-time
                                       yang:date-and-time
         +--ro message-id?
                                       uint32
         +--ro message-generator-id?
                                       string
         +--ro notification-count?
                                       uint16
      +--ro notifications*
         +--ro notification-header
            +--ro notification-time
                                            yang:date-and-time
            +--ro yang-module?
                                            yang:yang-identifier
            +--ro subscription-id*
                                            uint32
            +--ro notification-id?
                                            uint32
            +--ro observation-domain-id?
                                            string
         +--ro notification-contents?
         +--ro notification-footer!
            +--ro signature-algorithm
                                         string
            +--ro signature-value
                                         string
            +--ro integrity-evidence?
                                         string
      +--ro message-footer!
         +--ro signature-algorithm
                                      string
         +--ro signature-value
                                      string
         +--ro integrity-evidence?
                                      string
```