An HTTPS-based Transport for Subscribed Notifications

draft-ietf-netconf-https-notif-04
Mahesh Jethanandani
Kent Watsen
Updates since -02

• New Module: ietf-sub-notif-recv-list
• Updates to ietf-https-notif
• Updated Examples
• Encoding of Notifications
Augments the ietf-subscribed-notifications module twice

1. Adds a list of receiver-instances with an empty choice for transport type
2. Adds a leafref to one of the receiver-instances

```
module: ietf-sub-notif-recv-list
  augment /sn:subscriptions:
    +--rw receiver-instances
      +--rw receiver-instance* [name]
        +--rw name    string
        +--rw (transport-type)

  augment /sn:subscriptions/sn:subscription/sn:receivers/sn:receiver:
    +--rw receiver-instance-ref?   leafref
```
ietf-https-notif module

- Augments a "case" statement for the "https-notif" transport type
- Uses the "https-stack-grouping" from the ietf-http-client module
- Augments a "path" attribute for the URL of the receiver resource target

```
module: ietf-https-notif
  augment /sn:subscriptions/snrl:receiver-instances
    /snrl:receiver-instance/snrl:transport-type:
      +--:(https)
        +--rw https-receiver
          +--rw (transport)
            | +--:(tcp) {tcp-supported,not httpc:tcp-supported}?
            |   |   ...
            | +--:(tls) {tls-supported}?
            |   |   ...
            +--rw receiver-identity
              +--rw cert-maps
                  ...
```
Example without Subscribed Notifications

- HTTPS Notif is supposed to work with and without SN
- Previous versions of the draft gave example of working with SN
- This version includes example of how it works without SN
- Same, except the “subscription-started” notification is not used

module: example-custom-module
  +--rw example-module
  +--rw https-receivers
    +--rw https-receiver* [name]
      +--rw name string
      +--rw (transport)
      ...

Encoding of Notifications

- Identical to RESTCONF, except for a change in the prefix

  ietf-restconf -> ietf-https-notif

  ```
  data: {
    data: "ietf-https-notif:notification": {
      data: "eventTime": "2013-12-21T00:01:00Z",
      data: "example-mod:event": {
        data: "event-class": "fault",
        data: "reporting-entity": { "card": "Ethernet0" },
        data: "severity": "major"
      }
    }
  }
  ```
Ready for WGLC