

# 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

# ietf-sub-notif-recv-list module

- 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

# Q & A