NETCONF System Management

draft-bierman-netmod-system-mgmt-01
IETF 82, November 2011

Andy Bierman
biermana@brocade.com

Martin Bjorklund
mbj@tail-f.com
Agenda

- YANG Module Overview
- Next Steps
Module Scope

- system administrative data configuration
- system identification monitoring
- system time-of-day configuration and monitoring
- user authentication configuration
- local users configuration
Objects (1)

- system
  - contact
  - name
  - location
  - platform (read-only) [references corrected]
    - os-name, os-release, os-version, machine, nodename
Objects (2)

- system
  - clock
    - current-datetime, boot-datetime (read-only)
    - timezone-info [features and objects renamed]
      - timezone-location
      - timezone-name
      - timezone-utc-offset
Objects (3)

- system
  - ntp
    - use-ntp
    - ntp-server
      - address

- Issues:
  - NTP client only or client and server?
  - separate [sub]module for server?
  - monitoring objects?
Objects (4)

- system
  - dns
    - search
    - server
    - options
    - timeout
    - attempts
Objects (5)

- system
  - authentication [text sections updated]
    - user-authentication-order
    - radius
      - server
        - address
        - port
        - shared-secret
        - options
          - timeout
          - attempts
Objects (6)

- system
  - authentication
    - user
      - name
      - password
      - ssh-dsa
      - ssh-rsa
RPC Operations

- `set-current-datetime`
- `system-restart`
  - new restricted operation
- `system-shutdown`
  - new restricted operation
Next Steps

- Decide whether system management module is needed
- Decide to standardize common mechanisms or decide to accommodate every vendor solution, or something in between
- Determine interest in WG to write, review, and implement this module
- Determine best module/submodule structure for this functionality