NETCONF System Monitoring

draft-bierman-netconf-system-monitoring-00
IETF 78, July 2010

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Agenda

- Need for a NETCONF system group
- Consensus Check 1
- YANG Data Model (system.yang)
- Consensus Check 2
- Open Issues
Problem Statement

- There is a need for a standard data model which provides the following functionality:
  - system identification
  - system last boot time
  - system current time
  - notifications for common NETCONF-related system events
Consensus Check 1

- Do you agree that there is a need for some sort of standard YANG module that provides system information?
  - yes/no

- Do you roughly agree with the limited scope of the system module?
  - yes/no
System Monitoring Data

- `<system>` container
  - `<sys-name>` leaf
  - `<sys-current-date-and-time>` leaf
  - `<sys-boot-date-and-time>` leaf
  - `<sys-server-id>` leaf
  - `<uname>` container
    - release, version, machine, nodename fields
System Notifications

- `<sys-startup>`
  - system specific startup information
- `<sys-config-change>`
  - `<running>` database has changed
- `<sys-capability-change>`
  - `<capability>` list has changed
- `<sys-session-start>`
  - NETCONF session has started
- `<sys-session-end>`
  - NETCONF session has ended
- `<sys-confirmed-commit>`
  - Confirmed commit event occurred
<system> Example

- <system xmlns="urn:ietf:params:xml:ns:yang:netconf-system">
  <sys-name>www.example.com</sys-name>
  <sys-current-date-time>2010-07-22T04:25:59Z</sys-current-date-time>
  <sys-boot-date-time>2010-07-14T01:03:17Z</sys-boot-date-time>
  <sys-server-id>netconfd 1.13-3</sys-server-id>
  <uname>
    <sysname>Linux</sysname>
    <release>2.6.32-23-generic</release>
    <version>#37-Ubuntu SMP Fri Jun 11 08:03:28 UTC 2010</version>
    <machine>x86_64</machine>
    <nodename>www</nodename>
  </uname>
</system>
Consensus Check 2

- Is system.yang an acceptable starting point for this work?
  - yes/no
Open Issues

• Consensus on specific <system> container fields
• Consensus of specific system events
• Consensus on the contents of each system specific event
• Any partial conformance needed?