

NETCONF System Monitoring

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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>
</sys: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?