Netmod BOF Report
Netconf WG – IETF 60

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Outline

Netconf Data Model Coordinates

Netconf Layering

Building Block for Content

General Strategy

BOF Summary

Potential Impact on Netconf Protocol

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Netconf Data Model Coordinates

Web page

(which has a reference to the mailing list, archives, papers and presentations with proposed solutions):

http://standards.nortelnetworks.com/netconf/

Mailing List

The mailing list address is netconfmodel@lyris.nortelnetworks.com

To subscribe to the list send an email to lyris@lists.nortelnetworks.com - with the words "subscribe netconfmodel" (no quotes) in the body of the message (no subject necessary).

MAIL ARCHIVES are maintained at the following URL: http:// standards.nortelnetworks.com/archives/netconfmodel.html

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Netconf Layering

```
          Layer                           Example
    +-------------+         +------------------------------+
    |   Content   |         |      Configuration data      |
    +-------------+         +------------------------------+
           |                               |
    +-------------+         +------------------------------+
    | Operations  |         | <get-config>, <edit-config>  |
    +-------------+         +------------------------------+
           |                               |
    +-------------+         +------------------------------+
    |     RPC     |         |     <rpc>, <rpc-reply>       |
    +-------------+         +------------------------------+
           |                               |
    +-------------+         +------------------------------+
    | Application |         |    BEEP, SSH, SSL, console   |
    |  Protocol   |         |                              |
    +-------------+         +------------------------------+
```

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Problem Statement

netconf working group is chartered to produce a protocol for network configuration

the data models to be used with this new protocol are outside the scope of that discussion.

netconf architecture proposes to be independent of data definition and data model,

need to start talking about data models in more concrete terms to ensure there really aren't implications for either the protocol or the models as a result of combining them into system to provide management functionality.
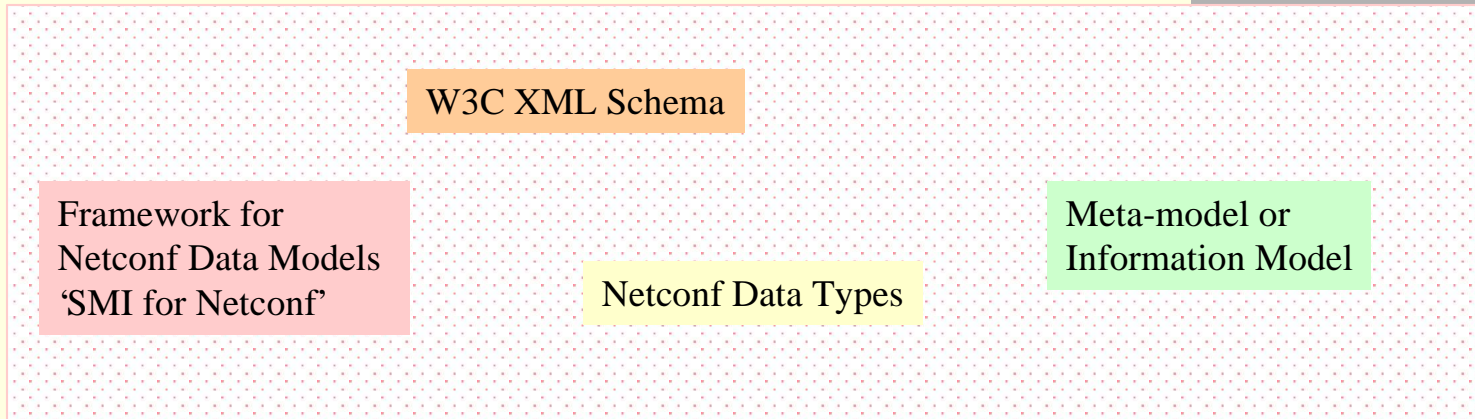
Need agreed to common ways of specifying compliance, maintaining backwards compatibility, defining relationships, naming, identification, access control, etc.

In addition, many feel that the identification or creation of standard data models for use in netconf is critical for both the success of the protocol and the benefit of the industry.
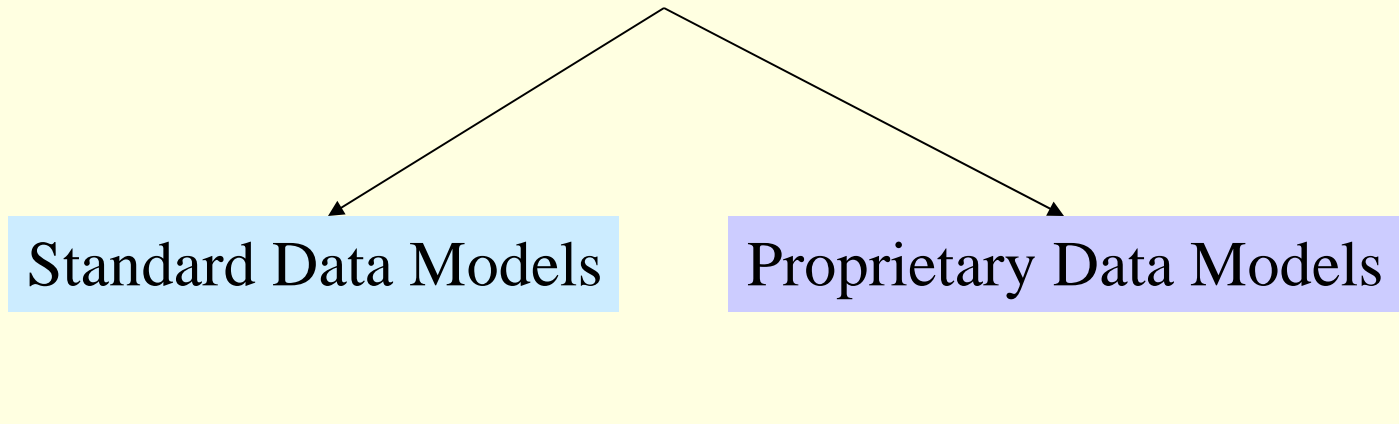
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Building Blocks for Content

W3C XML Schema

Framework for
Netconf Data Models
'SMI for Netconf'

Netconf Data Types

Meta-model or
Information Model

Content

Standard Data Models

Proprietary Data Models

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BOF Summary

Met on Wednesday Morning

Had a 4 presentations and lots of discussion

Lots of interest in working this area

  Strong interest in leveraging existing technology

Felt proposed charter needed fine tuning

Looking for volunteers to work on this

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Potential Impact on Netconf Protocol

Removal of Section 7 of the protocol draft?

- This section puts restrictions on the content of netconf
- It would be good to get all such restrictions in one place

Naming & Identification Solutions may impact

Access control may impact

move netconf-state data model to a different document ?

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