X for Internet Management: Yet Another Hype?

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Observation \( X \):

(i) There will be several "research" papers discussing how to utilize \( X \) for Internet management - "Everybody else is doing \( X \), so do I" - It is convenient to redo already understood concepts in technology.

(ii) It is very unlikely that \( X \) will be of importance as a management interface of devices - The IETF is the authority to define Internet device management protocols - The IETF generally does not do \( X \).
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Observation $M$:

A complete management protocol $M$ must support the following set of essential management protocol primitives:

- get, set, create, delete
- search (or at least iterate)
- lock, unlock, commit, rollback
- notify
- execute

Proof:
- Experience with incomplete solutions (SNMP/CMIP)
- Network Management Research Group (NMRG)
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Proof:
- Today’s Internet management with CLIs
From $X$, $M$ and $L$ follows:
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XML for Internet Management:

Not Another Hype!
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**XML** for Internet Management:

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+ Easy “gluing” of management data (XSLT)
+ Experience with Juniper’s excellent JunoScript
+ Vendors highly interested to implement
+ Operators excited to replace screen scraping
+ IETF gets ready to start a working group