YANG Library

draft-ietf-netconf-yang-library-02
NETCONF WG
IETF #94 Yokohama

Andy Bierman <andy@yumaworks.com>
Martin Björklund <mbj@tail-f.com>
Kent Watsen <kwatsen@juniper.net>

v0.2

Agenda

- YANG Library-02 Review Issues
- YANG Library Multi-Protocol Issues
- Next Steps

REVIEW #1:
conformance leaf

- Changed from boolean to an enumeration
  - import: module is imported for definitions but no protocol-accessible objects implemented
    - One entry for each revision imported (within server)
  - implement: The server implements 1 or more protocol-accessible objects from the module
    - deviation module identified as 'implement'
    - Only 1 revision with conformance='implement'

REVIEW #4:
import without revision

- If import-stmt is used without a revision date then the server is free to choose any revision it wants.
  - The client has no way of knowing which revision was used for each import of this type
  - YANG nodes could be added to identify the revision dates used
    - single leaf "default-revision"
    - tree to replicate the import hierarchy
- OR, state that the most recent of the advertised revisions is used

REVIEW:
module-set-id leaf

- The module-set-id leaf is now mandatory

  - No github issue, just an omission in previous versions

YANG Library Usage for I2RS and other protocols

- YANG Design Issues:
  - Can YANG modules be protocol-specific?
    - NETCONF, RESTCONF, I2RS, and CoMI protocols require YANG library implementation
    - Do all protocols implement all modules or does the protocol RFC say what is implemented vs. ignored in each YANG module, for that protocol?
  - Is this a language extension issue or a basic property of the YANG language?
    - e.g. i2rs:ephemeral indicates I2RS conformance requirement, no conformance requirement unless ephemeral=true
- YANG Library Issues:
  - Does listing of a module indicate it applies to all protocols?
    - Currently no mention that a module can be protocol-specific

Next Steps

- Resolve multi-protocol issue (may decide that nothing needs to be done)

- Publish -03

- Then start WGLC on -03