

I2RS Protocol Requirements to Netconf

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Status of requirements

- draft-haas-i2rs-netmod-netconf-requirements is serving as a tracking document for I2RS protocol requirements.
- Document is as more a discussion point and TODO document than a specific requirements document.
- Long term goal is to motivate proper requirements documents for specific items.

Pub-sub requirements

- Progress!
- [draft-ietf-i2rs-pub-sub-requirements-00](#)
published and contains I2RS requirements for subscriptions, notifications, etc.

Ephemeral state

- At IETF 91, I2RS and Netconf both showed people interested in helping to create requirements for ephemeral data stores.
- A statement has been made that we should simply document *existing* implementations as a basis case.
- Apparently all of the volunteers were too busy this last round to help with that.
- We'll try again to motivate the volunteers.

“Secondary Identity”

- A requirement of the I2RS architecture document is that a secondary identity must be able to be carried for traceability purposes. This handles the case where middle-boxes/proxies may perform some set of allowed options on behalf of another entity.
- How is this carried in netconf/restconf?
- Does this get put into the yang, perhaps as metadata?

Priority

- Section 7.8, etc. notes that I2RS clients may have priorities. When state may overlap or conflict, priority is expected to provide a tie-breaker as to what would win.
- How is this carried in the protocol?
- Does this get stored in the yang?

Transactions

- Section 7.9 of the i2rs-netmod-netconf requirements breaks down expected transactional behaviors:
 - Perform all or none
 - Perform until error
 - Perform all storing errors.
- How does this map into netconf/restconf?

Future steps

- We really need help to move forward on the ephemeral state work item.
- Continue picking apart requirements from i2rs-netmod-netconf into either things already solved in existing mechanisms or write new drafts.