

Slides for I2RS Protocol

10/2/2015 I2rs-proto-dt meeting

Goal of Work

- Finish our discussions and hand to 3-4 man team (NETCONF/I2RS experts to refine the specification)
 - Still have to get 3-4 experts agreed to by NETCONF/I2RS chairs
- Goal:
 - Next Friday agree on hand-off
 - Enough agreed upon to announce hack-a-thon
- Go over initial work on 10/14 at I2RS interim

Open questions

- Where will the ephemeral database be defined?
 - Sue: Right now, I defined in this document.
 - NETMOD is defining
- What edits are allowed to be syntactically correct?
 - Must be syntactically correct
 - Andy: 3 cases:
 - No collisions – must be accepted
 - Partial overlap with better priority
 - Complete overlap with better data
 - Three choices
 - Stop on Error
 - Continue on Error – Joel thinks we can do this one
 - All or nothing
- Sue will provide examples for routes, FB-RIB, Topology, BGP, ISIS and OSPF

Should we align to these state

- intended configuration –
 - this data represents the state that the network operator intends the system to be in. This data is colloquially referred to as the 'configuration' of the system.
- applied configuration –
 - this data represents the state that the network element is actually in, i.e., that which is currently being run by particular software modules (e.g., the BGP daemon), or other systems within the device (e.g., a secondary control- plane, or line card).
- derived state
 - this data represents information which is generated as part of the system's own interactions. For example, derived state may consist of the results of protocol interactions (the negotiated duplex state of an Ethernet link), statistics (such as message queue depth), or counters (such as packet input or output bytes).

Routing Overlap

- Routing example
 - Shorter prefix with less priority - overrides longer-prefix with higher priority
 - (Andy) Should it
 - Reject the override with notification?
 - Should provide examples of clients for routes
 - Examples of 2 clients trying to insert routes would be helpful. (Andy)

Priority

- Is this maximum priority the same as the maximum clients? Or is it a range?
 - 1-32 range – with 100 clients
 - 1-100 range with 10 clients
- If range the client, then we need to store
 - Client ID
 - Priority
- Can I get aid on where to store Client-ID and Priority?