Draft-ietf-i2rs-architecture-02

Presented by Joel Halpern
To confirm that the changes the authors have made match WG intent

The I2RS Archtiecture Document

- Is, we think, approaching completion
- Substantial editing since Vancouver
  - Based on discussions
  - And additional review, particularly for clarity

Wordsmithing

- We did a paragraph by paragraph review

  - And found lots of places that were unclear or inconsistent

  - We have tried to improve / fix them

  - Additional eyes would be good

- Ron Bonica is working on words to clarify operational vs configuration data so that this document is understandable both to routing folks and operational folks.

  - There is some discrepancy in usage

Multiple Control

- This continues to be a topic of debate
- The substance has not changed since Vancouver
    - We tried to make it clearer
- Some folks are still getting confused
    - So if someone can propose better text, please do

Security

- The overall security discussion is largely the same as it was earlier
  - The text has been improved significantly
  - Added text clarifying the security environment assumptions.
- Discussion has brought up two issues:
  - The document should allow for mutual authentication between the Client and the Agent
    - So the client can reliably know who it is talking to
  - There is a need for confidentiality
  - These were both brought up by operators
- A discussion team is trying to see if there are other security items needed in this doc.

State Storage

- Expanded the text about failure handling to try to be clear about what we understood I2RS was and was not going to try to solve
  - Some folks are still finding this confusing. Better text would be appreciated
  - For unexpected failure, notify clients upon restart
    - Include boot count and whether state was saved
    - The authors believe that the approach in the document reflects WG agreement. Does it?
- Tightened up the text to make it clear that start and stop times are not part of this system.

Modeling Architecture

- In addition to the protocol architecture, the document lays down some basic architecture for the modeling

    - This is new since Vancouver

    - It needs WG review

    - It is intended to provide a basis to improve consistency across the various information models

    - Topics include supporting variation and handling relationships between objects

Templates

- Added explicit description of the use of templates

  - Whereby the client can tell the agent to use an agent based template to provide base values for an operation

  - This is powerful and useful. But it may be too complicated to include.

    - It can be handled less elegantly with templates in the clients, which are an implementation concern rather than an IETF concern