

Requirements for Manageability Sections in Routing Area Drafts

Operation and Management Area meeting

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Background

- Not enough consideration given to management when new routing protocols are introduced
 - Management consideration not understood until after implementation
 - Management retrofited
 - Result is not always architecturally pleasing
- But manageability is critical to routing operations
- draft-farrel-rtg-manageability-requirements-01.txt (expired) specified
 - Requirement for a Manageability Section in all Rtg Area protocols.
 - Guidance on the content of a manageability section
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Background cont'd

- The Routing Area appeared to be reluctant to embrace draft-farrel-rtg-manageability-requirements-01.txt as a definitive requirement although there was a lot of general support.
- Authors were advised to try it in their own Wgs
- Experiments ongoing in:
 - PCE WG
 - ForCES WG

Guidance on the content of a Manageability Section

- Control of Function and Policy
 - Describe configurable items
- Information and data models
 - Mibs xml models etc...
- Liveness Detection and Monitoring
 - For both data plane and control plane
 - Mechanisms used
 - Actions to be taken
- Verifying Correct Operation
 - How can correct end to end behavior be tested
- Requirements on other protocols and functional components
- Impact on Network Operations

Experiment 1: PCE WG

- Piloting an agreement amongst authors to include Manageability Sections in their working group drafts
- Several drafts have now been through IESG review
- This has given good feedback on the type of content that should be included in such sections.
- Currently proposing an RFC3933 process experiment restricted to the PCE working group.
 - would REQUIRE a Manageability Considerations section in all PCE working group I-Ds
 - would specify format section SHOULD have.
 - the intention would be to provide repeated progress reports to allow the IESG to understand the value or problems with this idea.

Experiment 2: ForCES

- ForCES WG accepted the idea as long as co-author of Manageability recommendation did the work.
- ForCES has a multi document specification
 - Protocol specification
 - Model
 - Transport specifications
 - MIB
 - Applicability statement
- Decision to put manageability section in the applicability statement
- Document set will be going to IESG shortly
- No feedback yet, though the WG seems satisfied with the section and recommend additional content.