24 July 2025

VELOCE

YANG development PrOCEdure & Maintenance

Internet Engineering Task Force
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IETF

Problem Statement

- Observation from NEMOPS Workshop
- Section 3.4.4 Standardization conclusions

“A methodology of rapid model development procedures is needed to ensure model deployment can keep pace with new feature deployment."

“New approaches and methods to make models live outside of published RFCs should be explored.”

Observations

- Where is the delay?
  - In developing the model?
  - In coming to a consensus?
- Pursuit of a perfect model
- Fear of NBC changes

Observations (cont.)

- YANG Modules are code
- Developed in Source Code Management (SCM)
- Tools needed to insert and extract from RFC
- Need CI/CD pipeline to validate model

Question

- What if they were managed where they are developed?
- And RFC pointed to the repository?
  - with a stable pointer

Leadership

- Brought up in IESG retreat
- Generally supportive
- Questions around the “how”, “what” etc.?

Impact on current process

- How will new work be proposed?
- What does WG adopt? Draft or Repository?
- How does WG stay engaged?
- Who manages the repository?
- What toolset changes will be needed?

How is new work adopted?

- Much like today
- Drafts describe the model
  - With tree diagrams and snippets of code
  - YANG module lives in the SCM
  - Points to a stable reference in SCM

What does WG adopt?

- WG adopts the draft
  - With a stable reference to the model in SCM

How does WG stay engaged?

- Drafts are posted on the WG mailing list
- Follow the stable reference to review the model
- Review comments should be reflected back on the mailing list

Who manages the repository?

- RFC 8874 Section 4
- The chairs
  - Admins
  - Determine consensus (RFC 2026)
  - Tag versions to provide a stable reference
- Authors
  - Create/Update/Address/Delete Issues
  - Approve contributions, e.g., PR, once consensus is reached

What toolset/changes will be needed?

- SCM
  - Under the control of the IESG/Chairs
- Datatracker tools??

Next Steps

- Identify draft(s) for this experiment
- Run through the experiment just described

Q & A