Augmenting the IETF processing with Open Source Development of Yang Modules

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Objective

• To support IETF process to produce standard YANG models quickly
• Provide an environment for collaborative model development
• Set an example for other Standard’s bodies (ONF etc)
Let's Try A Different Approach

- Community-driven
  - Brings together consumers (i.e.: our current and future customers) with developers

- Source code developed along side models
  - “Running code and rough consensus”
    - This includes proprietary and “standard” models, or a place to develop/evolve them
      - Some may be extracted and made into RFCs at the IETF or other standards orgs
    - ODL as an example, but others are interested too
      - All models will be available and eventually built into ODL upstream releases
  - Code developed in a github “sandbox”
    - Lifts overhead of building drafts (non-IETF people have a hard time with drafts)
    - Easy access for implementation

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Community Yang Repository

• Community GitHub Repository Created
  – https://github.com/YangModels/yang
• Paired with yangcentral.com
  – Continuous build (jenkins/gerrit)
  – Bugzilla issue/change tracking
• Open source +1/-1 committer model used for patches to files
• Yuma Works, Pyang and Tail-F used
• IETF Yang Doctors included for expert reviews
• Some companies uploading their models to the repo
• ODL models uploaded
• IETF Yang Doctor’s connected to public list started
For Starters An Experiment with the IETF

• Benoit Claise and Tom Nadeau have setup an experiment
• Created 3 YANG models on the public git repo using a community-oriented approach
  – Collaborators are part of a GitHub group with committer privileges
  – Diffs generated easily and reviewed during process
  – Specific instance where Git version control was very useful.
• Explicit project management with specific deadlines & weekly sync up
Going Forward...

- IETF Licensing issues discussed (explicit IPR disclosure)
- Complete netconf central integration
- Additional design teams spinning up (l2VPN, i2rs?)
- Continue development of common models (where this makes sense) within the community
- Improve collaboration environment