Routing Area Yang Architecture Design Team Update

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Wiki: http://trac.tools.ietf.org/area/rtg/trac/wiki/RtgYangArchDT

Repo: https://github.com/ietf-rtg-area-yang-arch-dt/

Design Team Summary



- Chartered in the routing area (by Alia)
 - Announced 3/26/2015

Original charter:

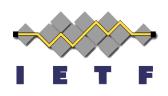
- Focus on needs of YANG models produced in the routing area.
- Highest priority: An overall architecture for "the protocols and functionality contained inside the Routing Area"
 - May identify additional desirable models and common functionality; those suggestions can be raised in Netmod
- Conventions
 - Input to netmod WG and draft-ietf-netmod-rfc6087bis
- 3. Best current practices for how new features can easily augment existing YANG models
- Design team closing
 - As discussed at IETF 101
 - DT has accomplished main objectives
 - There is always more work, but can be addressed through normal WG processes

Design Team Related Work

I E T F

- NDMA
- Routing WG drafts/rfcs
- Other WG drafts/rfcs

Network Management Datastore Architecture (NDMA)



- Early focus of DT, more on requirements than solutions
- draft-ietf-netmod-revised-datastores to be published as RFC 8342
- Guidelines developed with RTG area work in mind
- Fully embraced by IETF Routing Area
 - Most models refactored
 - RFC 8022 BIS to be published as RFC 8349
 - Follows guidelines
 - Modules revised rather than renamed (e.g., ietf-routing-2)
 - State Trees Retained (e.g., ietf-routing-state)
 - Status state trees is "obsolete" rather than "deprecated" since there is minimal implementation
 - Routing Area YANG models should augment this version of draft.

Routing WG Drafts/RFCs

I E T F

- Key architecture enablers for routing area
 - YANG Logical Network Elements draft-ietf-rtgwg-lne-model
 - In RFC editor queue
 - Gated by NETMOD YANG Schema Mount
 - Foundation for logical systems/routers
 - YANG Network Instances draft-ietf-rtgwg-ni-model
 - In RFC editor queue
 - Gated by NETMOD YANG Schema Mount
 - Foundation for BESS WG LxVPNs
- Routing Area Common YANG Data Types
 - RFC8294
- Network Device YANG Organizational Models
 - Expired draft-rtgyangdt-rtgwg-device-model
 - Foundation for LNE and NI work
 - Will not be progressed in current form
 - Could be revived based but based on YANG Module Tags
 - Contact authors if interested in this

Other WG Drafts/RFCs



- YANG Module Tags
 - draft-rtgyangdt-netmod-module-tags now draft-ietf-netmod-module-tags
 - Many comments received during adoption, participate in NetMod if interested
- Schema Mount
 - Key enabler for Nis and LNEs
 - WG LC completed being discussed in NetMod**
 - Work starting in NetMod on YL-bis optimized version
 - Please participate if interested
- YANG Tree Diagrams
 - Outgrowth of DT work, but not a DT draft
 - To be published as RFC8340

What's Undone



- Open issues left from original (private and public list)
 - Handling YANG module revisions
 - Will likely impact area's models when they are revised
 - Being discussed in NetMod
 - Contribute there if interested in this work

- Thank you all who contributed to the work!
 - DT Members: Acee Lindem, Anees Shaikh, Christian Hopps, Dean Bogdanovic, Ebban Aries, Lou Berger, Qin Wu, Rob Shakir, Xufeng Liu, Yingzhen Qu, Stephane Litkowski, Yan Gang
 - Many other collaborators in RTG and OPS Areas

Thank you!



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