

YANG Model Coordination Group

IETF 92
Dallas, Texas

What is this?

- Directorate
 - Carl Moberg
 - Dean Bogdanovic
 - Dave Meyer
 - (Deborah Brungard)
- Spending 1/3 of our time, for one year period
- Mission

Help with the development and coordination of the numerous YANG models within the IETF, and the promotion of YANG modeling in the industry.
- <http://www.ietf.org/iesg/directorate/yang-model-coordination-group.html>

Initial Job Description

- Compiling, publishing, and maintaining an inventory of YANG models both produced by the IETF and available at other locations.
- Evaluating and documenting how the existing YANG models fit together. Example: can the IGP, QoS, and ACL YANG models work together?
- Documenting and tracking open issues (especially the issues crossing drafts, WGs, and areas) including issues of interaction and overlap of YANG models.
- Generating and leading the discussions on the resolution of the open issues, in collaboration with the authors, WGs, WG chairs, YANG doctors, rtg-yang-coord mailing list, and the appropriate ADs
- Participating in YANG model related design teams, as needed, to assist in the coordination as well as technical work.

Initial Job Description (part 2)

- Assisting with the coordination of design teams working to produce YANG models that describe and enable the provisioning and management of services.
- Documenting and tracking functionality missing from YANG models including entire missing models.
- Documenting YANG issues arising from YANG models
- Producing monthly reports for the IETF community and present a summary of progress at each IETF meeting in the OPS-AREA meeting.
- Close work with the OPS AD on building a community of YANG modelers that will bring YANG work into the IETF as appropriate, and that will enable interactions between IETF YANG models and models produced outside the IETF

Outcome1 : Inventory/Compilation

				characters
service-function-chain@2014-07-01.yang	draft-penno-sfc-yang-13.txt	Email Authors	FAILED	service-function-chain@2014-07-01.yang top-level data nodes: service-function-chain@2014-07-01.yang value should be "urn:ietf:params:xml:ns:yang:mpls-ldp.yang" service-function-chain@2014-07-01.yang service-function-chain@2014-07-01.yang service-function-chain@2014-07-01.yang exceeds 70 characters service-function-chain@2014-07-01.yang "revision" must have a "reference" substatement service-function-chain@2014-07-01.yang service-function-chain@2014-07-01.yang must have a "description" substatement service-function-chain@2014-07-01.yang exceeds 70 characters service-function-chain@2014-07-01.yang
mpls-ldp.yang	draft-openconfig-mpls-consolidated-model-00.txt	Email Authors	FAILED	mpls-ldp.yang:6: warning: IETF rule (1) "urn:ietf:params:xml:ns:yang:mpls-ldp.yang":6: warning: IETF rule (1) mpls-ldp.yang:58: warning: IETF rule (1) mpls-ldp.yang:63: warning: IETF rule (1) mpls-ldp.yang:111: warning: IETF rule (1) lman-control@2014-10-27.yang:1: warning: IETF rule (1)

Outcome1 : Inventory/Compilation

- Number of correctly extracted YANG models from IETF drafts: 113
- Number of YANG models in IETF drafts that passed compilation: 28/113
- Number of all YANG models in IETF drafts (good, but also example, badly formatted, etc.): 187

<http://www.claise.be/IETFYANGPageCompilation.html>

Compilation Mistakes (RFC 6087)

```
<CODE BEGINS> file "ietf-foo@2010-01-  
18.yang"
```

```
module ietf-foo {  
    // ...
```

```
    revision 2010-01-18 {  
        description "Latest revision";  
        reference "RFC XXXX";
```

```
}
```

```
// ...
```

```
}
```

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```
<CODE ENDS>
```

Don't put xxx as the
module name

Outcome1 : Inventory/Compilation

- All draft authors have been notified
- Next steps:
 - Post the code
 - Integrate the tool with idnits
 - Same reporting for opendaylight

Outcome 2: Industry Landscape

- What is being developed in the different SDOs and opensource project?
IETF, IEEE, Metro Ethernet Forum, CableLabs, Opendaylight, ETSI NFV, Broadband Forum, Open Networking Foundation
- In the process of establishing contacts
- Please review

<http://trac.tools.ietf.org/area/ops/trac/wiki/YANG%20ModelingEffortsinTheIndustry>

Outcome 3: Terminology

- draft-bogdanovic-netmod-yang-model-classification
- Abstract: “... A consistent terminology would help models categorization, assist in the analysis the YANG data modeling effort in the IETF and in the industry, and facilitate the YANG-related discussions between different groups.”

Outcome 4: Training

- NETCONF/YANG training
- On the IETF web site
- Going through professional review now
- For 3 audiences
 - What is YANG/NETCONF?
 - For YANG model development
 - For developers

Outcome 5: What to Standardize?

- Survey: YANG models required by operators
- Ideally, a combination of technology and RFC
- Currently compiling the list of missing YANG models

Any questions?