

YANG Models Extraction and Compilation

IETF 92
Dallas, Texas

Why?

YANG models inventory

Help with the development of YANG models

See if the YANG model compiles, provide feedback to the authors

Bridge two worlds: opensource and the IETF

Results

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

Results

Generated Home Page:

[http://www.claise.be/
IETFYANGPageCompilation.html](http://www.claise.be/IETFYANGPageCompilation.html)

- Number of correctly extracted YANG models from IETF drafts: 113
- Number of YANG models in IETF drafts that passed compilation: 6/113
- Number of all YANG models in IETF drafts (example, badly formatted, etc.): 187

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";  
    }  
    // ...  
}
```

Don't put xxx as the module name

```
ietf-foo@2010-01-18.yang  
<CODE ENDS>
```

Results

- All draft authors have been notified
 - Some authors promised a new draft by Monday morning
- Next step:
 - Post the code
 - Integrate the tool with idnits
 - Same reporting for opendaylight
- Follow up with the YANG Model Coordination Group at <http://www.ietf.org/iesg/directorate/yang-model-coordination-group.html>