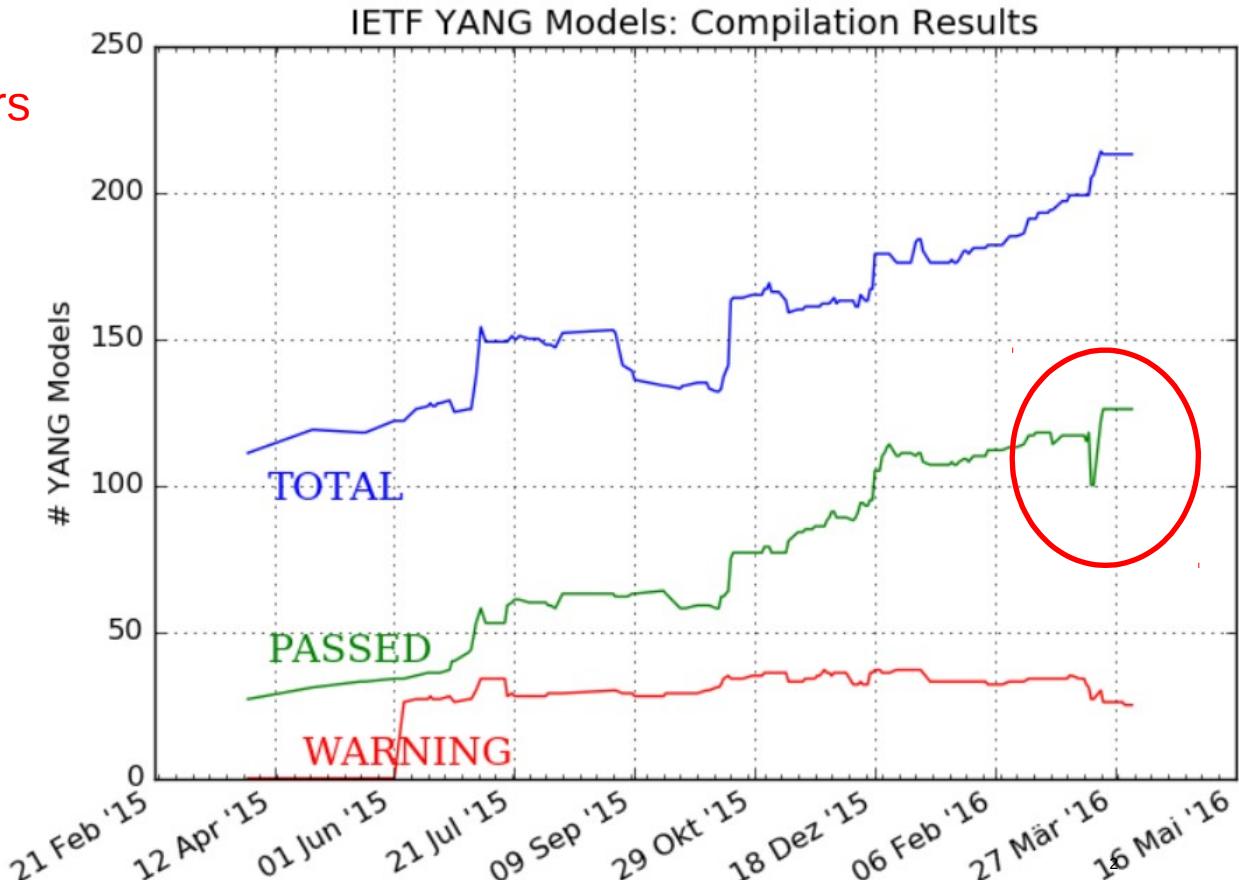


YANG/NETCONF/RESTCONF Hackathon Achievements

IETF 95, Aries
Apr 2016

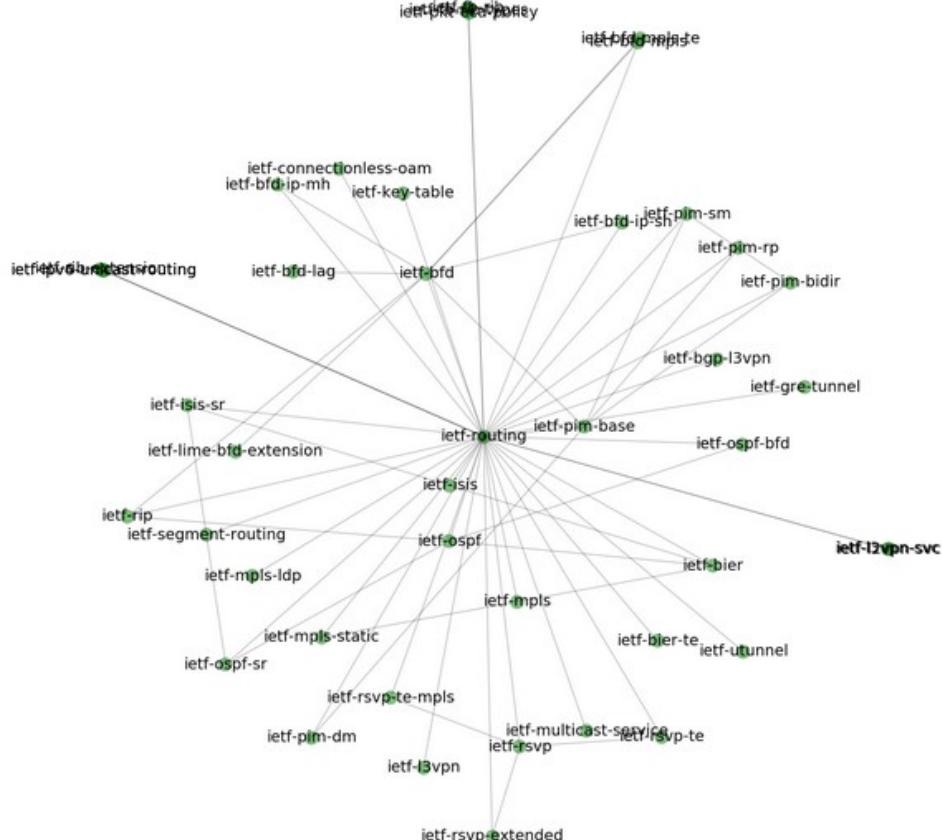
YANG Tooling

- A tool to contact all authors of depending YANG models, with a message « new imported YANG model updated, please update yours »
- Updated xym.py and symd.py
- Contact: Hariharan Ananthakrishnan



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YANG Tooling

- Qin Wu and Dapeng Liu: **pyang in the submission tool** ⇒ include all the existing YANG models in the path.
 - In the code sprint room !!!
- Ebben Aries: **typedef and grouping duplication detection**
 - Based on Jimmy Dong tool's tool, from the last hackathon
- Benoit Claise: improve YANG model monitoring tools on
<http://www.claise.be/2016/03/ietf-yang-modules-statistiques/>
 - BBF (127 YANG models), MEF, grouping/typdef in a tar file, duplicate YANG module names
- While developing those tools => feedback to YANG authors

YANG Tooling

- David Lamparter, Christian Franke: **code generation bridge between YANG schemas and Cap'n Proto schemas**
- Quagga->OpenConfig dump tool by Rob Shakir (done @ CAIDA hackathon)
- Resync'd to current Quagga Cap'n Proto API client
- Implemented one-shot OpenConfig->Quagga

working: tail-f NCS ---> netopeer ---> dump-to-json ---> apply-script ---> Quagga ..



YANG Data Model Catalog

- Extract the info from YANG models to populate a **YANG model catalog**, for the industry (draft-openconfig-netmod-model-catalog)
 - Based on the previous hackathon (Carl Moberg)
- "prefix": "oc-bgp-types",
"namespace": "<http://openconfig.net/yang/bgp-types;>",
"module-version": "2.0.1",
"name": "openconfig-bgp-types",
"revision": "2016-03-31"
- Next step is the catalog population (REST)
- Contact: Qin Wu («Coding is fun »), Anurag Bhargava, Michael Wang, Ignas Bagdonas

Protocol Work

- YANG Pub Sub
 - Exending OpenDaylight's [YANG PubSub Client implementation](#) released in Beryllium.
 - Based on [draft-ietf-netconf-yang-push](#)
 - Contact: Eric Voit
- NETCONF Call Home
 - <https://github.com/Juniper/netconf-call-home>
 - Contact: Kent Watsen

YAM: YDK App Maker

Is it for you?

- Starting programmer, use GUI to give data to YANG model and auto-generate YDK app.
- Have NETCONF, RESTCONF payload and want to migrate to YDK based app with minimal effort via tool.
- Looking for an educational channel on how to use YDK objects.
- YANG data model payload transcoding (convert XML to YDK to JSON to YDK toor vice versa)
- **REMOTE HACKATHON:**



Munish Nayyar, Pravin Gohite, Abhishek Keshav