

YANG Model Classification

draft-bogdanovic-netmod-yang-classification-03
draft-ietf-netmod-yang-classification-03

B.Claise, Carl Moberg, Cisco Systems

Dean Bogdanovic

Motivation for the draft

- YANG used across industry for modeling, among vendors, operators, open source projects and SDOs
- lot of models produced without any taxonomy
- creates confusion what model is what
- example L2VPN model
 - config or service model
- reuse of models

YANG model in numbers

Submitted before IETF #93:

- Number of YANG models
 - correctly extracted from IETF drafts: 155
 - passed compilation without warnings: 58/155
 - passed compilation with warnings: 35/155
 - in IETF drafts (example, badly formatted, etc.): 253

Recently (June 25th), the Open Daylight shipped in first release:
Lithium with 473 YANG models

- and growing fast
 - from 117 in Hydrogen release to 220 in Helium
- How many overlap/duplicate?

How?


- How to classify models?
- How many layers?
- Many discussions
- Settled to create two dimensions
 - Model layer
 - Model type

YANG Model Layers




OSS/BSS

Network Service YANG data models



VPWS
L2VPN



VPLS
L2VPN



L3VPN

Network Element YANG data models



BGP



MPLS



Routing



Interfaces

YANG Model Type

BSS

Network Service Model

Orchestrator

Standard
YANG
model

Proprietary extension
to
standard model

Proprietary
YANG
model

Vendor model

Network Element