

Related Open Source Efforts SUPA BoF

Tom Nadeau
Jan Medved

SUPA Goals

- 1) A Yang data model that represents a generic form of the physical and virtual topology and the resources of a network within a single administrative domain.
- 2) A Yang data model that describes network services, their resource requirements as well as service specific parameters.
- 3) A Yang data model that specifies policy rules controlling a network service. These policy rules are generic and cover operational and management aspects of the service and map the service to a network topology. The rules ideally are generic can be applied to any type of service model.
- 4) Yang data models extending the generic topology, network service, and policy data models with objects addressing the inter-datacenter traffic management use case.

Physical and Virtual Topology Models

- Implemented in ODL:
 - draft-clemm-netmod-yang-network-topo
 - draft-clemm-i2rs-yang-l3-topo-00
 - Group-based policy model (*should we mention non-topology models? The problem statement draft mentions everything...*)
 - draft-penno-sfc-yang
 - RFC7825 (the Alto protocol – implementation underway)
- Openstack:
 - Group-Based policy and Network Intent (NIC)
 - ODL and ONF
 - Congress (*need to gauge the status of implementation*)

Models for Policy

- <https://github.com/YangModels/yang/tree/master/experimental/openconfig/policy>

Models for Topology

- <https://github.com/YangModels/yang/blob/master/experimental/odp/opendaylight-topology.yang>
- <https://github.com/YangModels/yang/blob/master/standard/ietf/DRAFT/network-topology%402013-07-12.yang>