# Version

## 0.1: Initial Draft

# YANG @ IEEE

## Overview of YANG modules and projects

## [802.1Qcp](http://www.ieee802.org/1/pages/802.1cp.html) - 802.1Qcp - YANG Data Model

## [802.1Xck](http://www.ieee802.org/1/pages/802.1ck.html) - Port-Based Network Access Control Amendment: YANG Data Model

## IEEE [P802.3.2](http://www.ieee802.org/3/cf/index.html) (IEEE 802.3cf) YANG Data Model Definitions Task Force:  (includes link OAM)

## P802.1Qcx:  OAM CFM YANG

## <http://www.ieee802.org/1/files/public/docs2017/cx-draft-PAR-0517-v03.pdf>

## P802.1Qcw:  YANG Data Models for Scheduled Traffic, Frame Preemption, and Per-Stream Filtering and Policing

## <http://www.ieee802.org/1/files/public/docs2017/cw-draft-PAR-0517-v03.pdf>

## P802.1ABcu: LLDP, topology discovery YANG

## http://www.ieee802.org/1/files/public/docs2017/cu-draft-PAR-0517-v03.pdf

## P802.1CBcv:  Frame Replication

## <http://www.ieee802.org/1/files/public/docs2017/cv-draft-PAR-0517-v02.pdf>

# YANG Guidelines

## Purpose

### Provide guidance and support for IEEE YANG developers in IEEE 802

### Promote consistency

### Help newcomers engage

## Structure Guidelines

### URI Guidelines

#### Path structure

#### Prefix

### NMDA Guidelines

#### It is the strong recommendation that models SHOULD move as quickly as possible to the NMDA. This is key to the future of these models. The NETMOD WG will rework existing models to this architecture. Given the permanence and gravity of work published by the IETF, creating future-proof data models is vital. See [ section 2 of [Guidelines for YANG Module Authors (NMDA)](https://tools.ietf.org/html/draft-dsdt-nmda-guidelines-01)]

### Port vs. Interface

### Method to extend or augment base 802.1Q YANG

## Coding Guidelines

### Revision Dates

#### Revision Date

#### Revision Description

#### Revision Reference

### Other meta-data

#### Module name

#### File name

#### Namespace (see URL Guidelines)

#### Prefix

#### Organization

#### WG Web contact

#### WG List contact

#### WG Chair contact

#### Editor contact

#### Description

#### Reference

### Lifecycle Issues (how to deal with changes, deprecating)

## Naming Conventions and Guidelines

### Basic conventions

#### No camel-case in YANG, use lower-case letters, numbers and dashes in names

### Specific conventions by artifact (only list if there are specific recommendations)

#### Module

#### Submodule

#### Extension

#### Feature

#### Identity

#### Notification

#### Rpc

#### Container

#### Leaf

#### Leaf-list

#### Case

#### List

#### Choice

#### Anydata

#### Uses

#### Action

#### Enum

#### Bit-name

## Tooling Guidlines

### Git

#### Use of github (see Yangcatalog)

### UML

#### Conventions for writing UML to support description of YANG models

#### Tooling choices

### Yangcatalog (<https://yangcatalog.org/>)

#### Tools

##### A [YANG Validator](http://www.yangvalidator.org/), a web frontend that allows for validation of YANG modules and IETF drafts.

##### A [YANG Search](https://www.yangcatalog.org/yang-search), a web frontend that allows for searches over the content of the module catalog.

##### A [YANG impact analysis](https://www.yangcatalog.org/yang-search/impact_analysis.php) tool.

##### A [YANG Explorer](http://yangcatalog.org:8088/) that includes a YANG browser and RPC-builder application to experiment with YANG modules

##### A [YANG Regex Validator](https://yangcatalog.org/yangre), a YANG regular expression validator to experiment with W3C YANG "pattern" statements

#### GitHub for Yangcatalog

##### <https://github.com/YangModels/yang>

###### pull request (to add new)

experimental for work not assigned a PAR

standard for work with a PAR

#### Yangcatalog meta-data creation

## References

### YANG module for yangcatalog.org

#### <https://tools.ietf.org/html/draft-clacla-netmod-model-catalog-01>

### [Guidelines for YANG Documents from IETF](https://tools.ietf.org/html/draft-ietf-netmod-rfc6087bis-13)

### [Guidelines for YANG Module Authors (NMDA)](https://tools.ietf.org/html/draft-dsdt-nmda-guidelines-01)

### EAGLE Guidelines

#### [Draft IISOMI-515 Papyrus Guidelines](https://community.opensourcesdn.org/wg/EAGLE/document/171)

#### [Draft IISOMI-514 UML Modeling Guidelines](https://community.opensourcesdn.org/wg/EAGLE/document/170)

#### [Draft IISOMI-531 UML-YANG Mapping Gdls](https://community.opensourcesdn.org/wg/EAGLE/document/172)