### YANG Data Model for IEEE 1588v2

#### draft-ietf-tictoc-1588v2-yang-05

Y. Jiang, X. Liu, J. Xu, R. Cummings

99<sup>th</sup> IETF - Prague

# **YANG Hierarchy**



# Summary of Changes in V.05

#### Updates in draft-ietf-tictoc-1588v2-yang-05

- the support to reference the underlying interface used by a PTP port, so that it is easier to trace the physical topology of an IEEE 1588 time synchronization network
- A new section 2.2 is added, which discusses why a single-tree hierarch is used

# Why a single YANG Module tree?

- IEEE 1588v2 is widely implemented, but its dataset members cannot be simply classified into configuration and states
- According to IEEE 1588v2 info model, each member is categorized into 3 classes:
  - Configurable
  - Dynamic
  - Static
- The class for a member can be changed, e.g., port-state in port-ds may be configurable or dynamic (i.e., read-only) depending on the implementations and applications, a combined tree is a good representation of this behavior
- Actually, consistent with the up to date "Network Management Datastore Architecture" (NMDA) combined tree, according to one of the NMDA co-authors

## Status in the industry

# The newest 1588v2 YANG module is available on the github site:

https://github.com/YangModels/yang/tree/master/standard/ietf/DRAFT

- Quite a few vendors have shown their interests in implementing this YANG module, publication will further add its momentum
- In June 2017, ITU-T SG15 approved a new WG item on "Sync Management", targeted at developing sync management info models for transport equipments, thus, consistency with the 1588 YANG is necessary to avoid any duplicate work

## Next Step

- The last version is stable for some time, more feedback?
- Ready for WG Last Call?

### Thank You