

# AT&T OCP Telco Topics

## Telco Group December 2016 Conference Call



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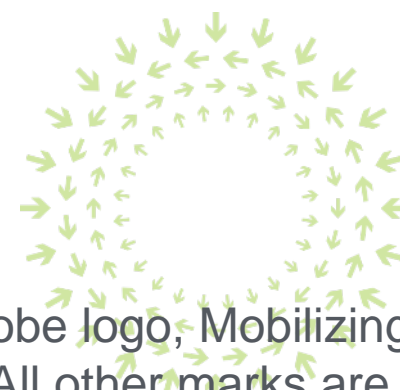
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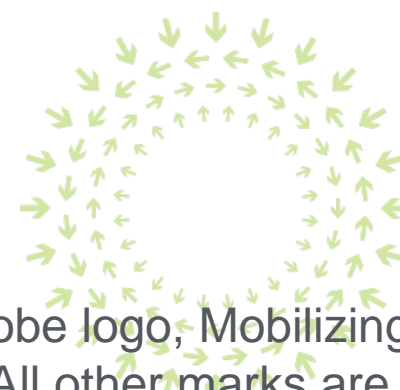
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# Agenda

- Open XGS-PON 1RU OLT
- Open 16-port G.Fast DPU
- VOLTHA Software Stack



# AT&T Open XGS-PON 1RU OLT



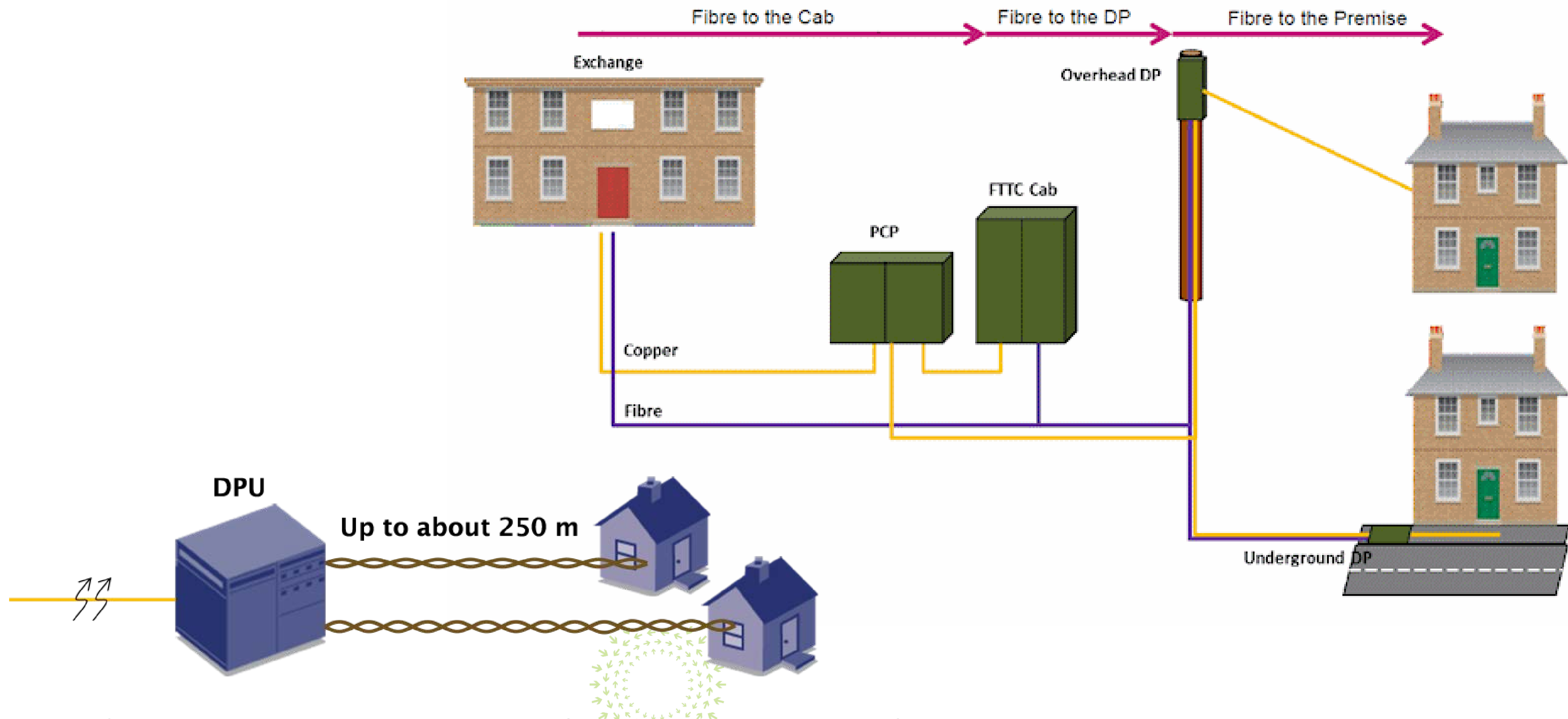
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# XGS-PON 1RU OLT Spec Update

- Version 1.1
- COM Express type 7 CPU
  - 4 x 10G in-band links
- Separate BMC
  - Able to master PCIe
- Location Indicator
- Uplinks moved to RH side
- Supported by VOLTHA



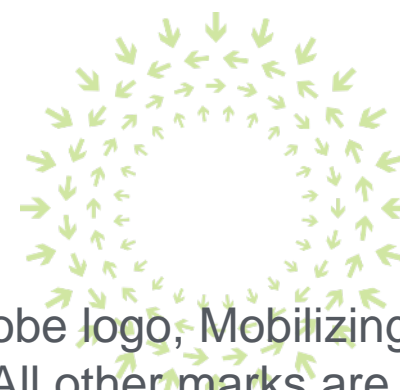
# G.Fast Distribution Point Unit (DPU)



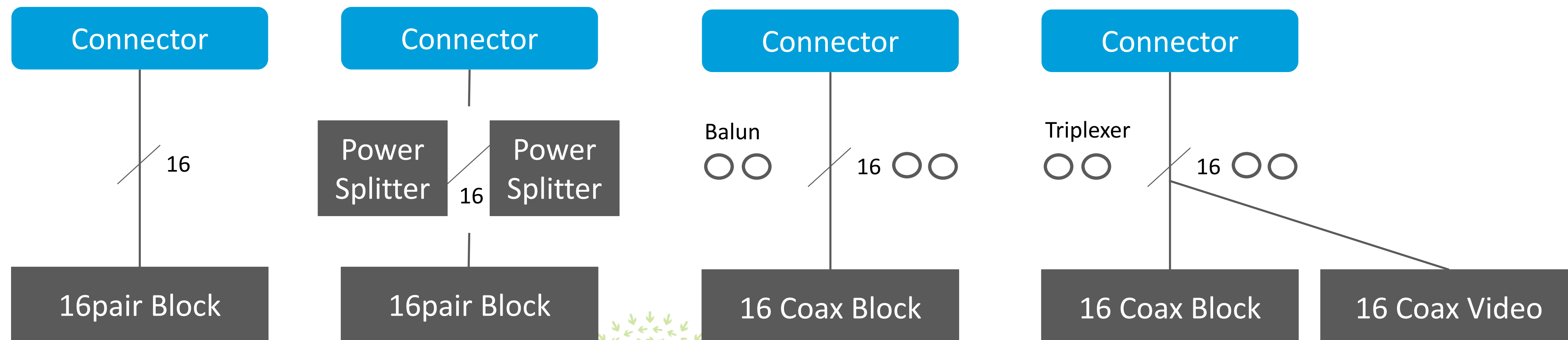
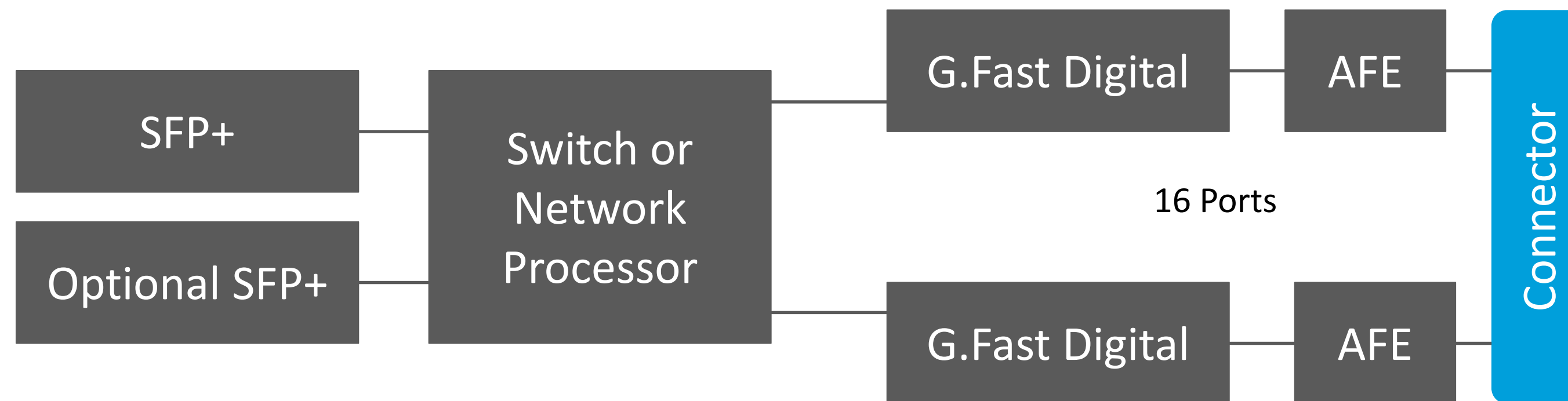


# Open 16-port G.Fast DPU

- Indoor and Outdoor units
- Copper and Coax drops
- Reverse power feed
- Triplexers



# System Block Diagram

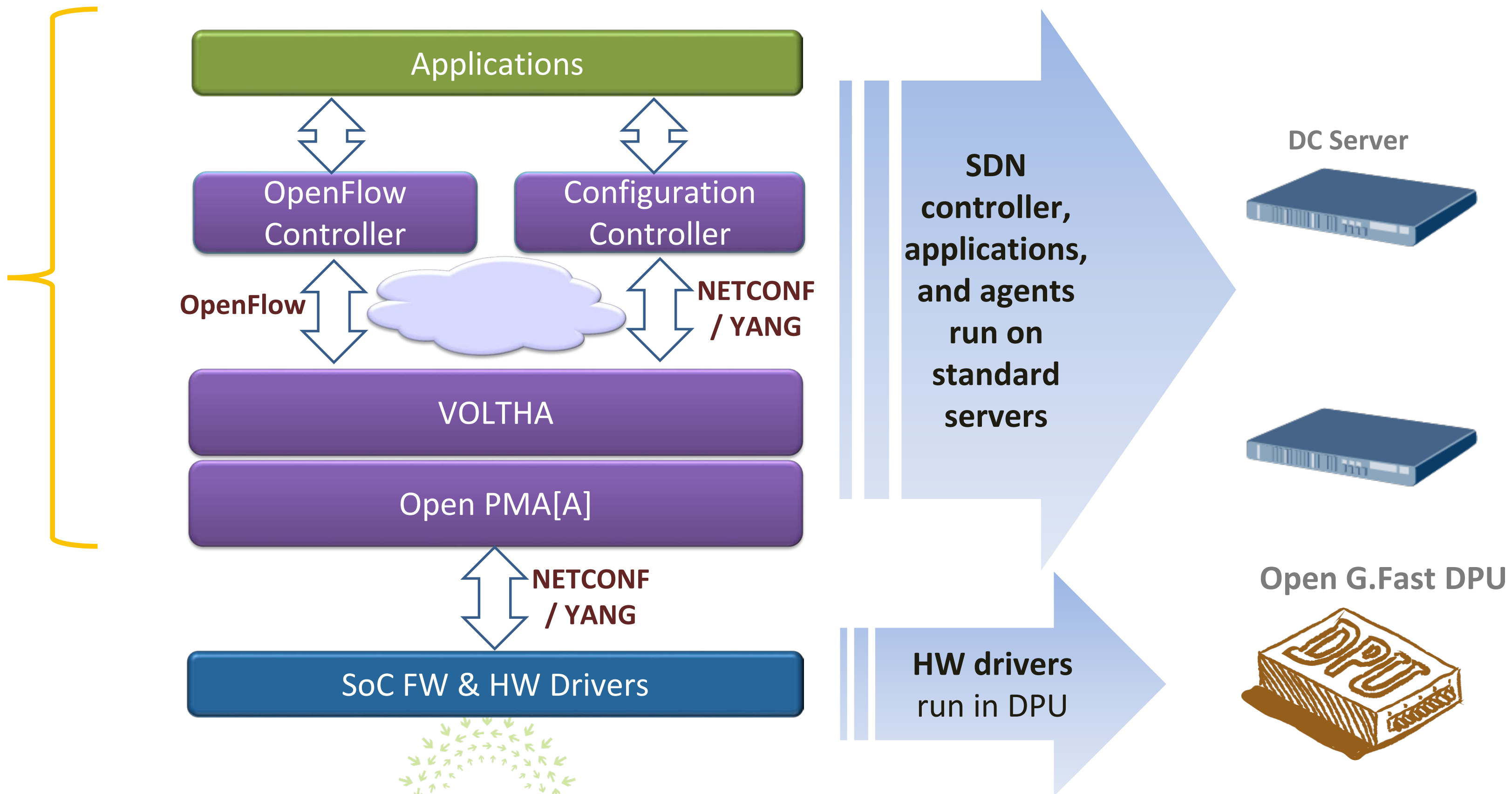


# Open G.Fast Software Stack

CORD

Central Office Re-  
architected as a  
Datacenter

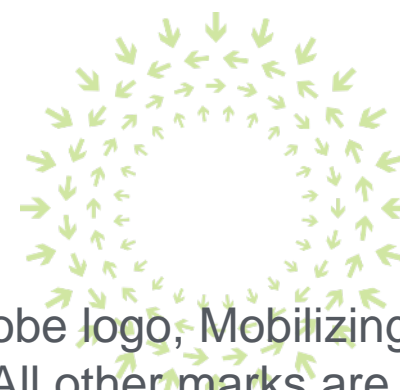
Open Software



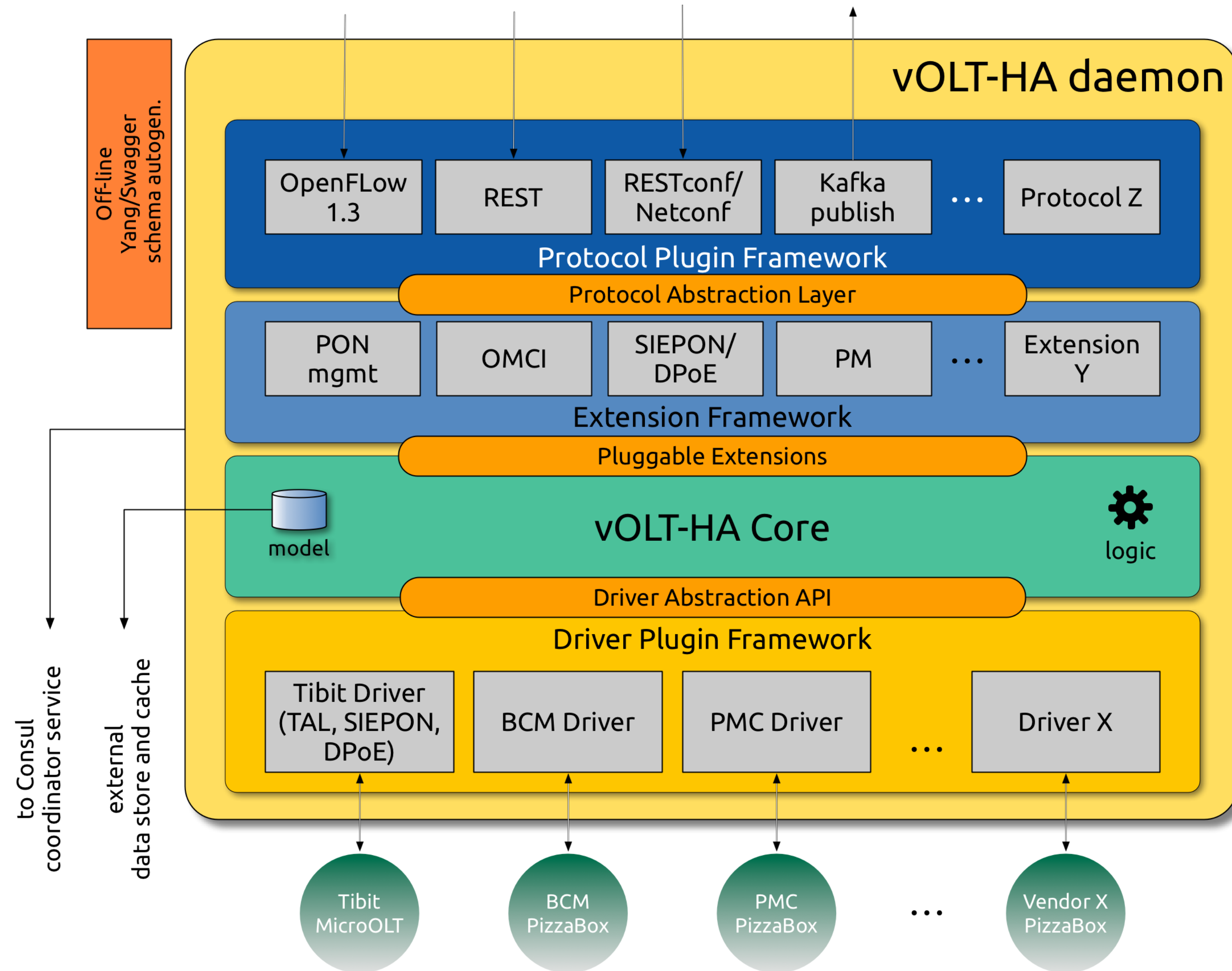


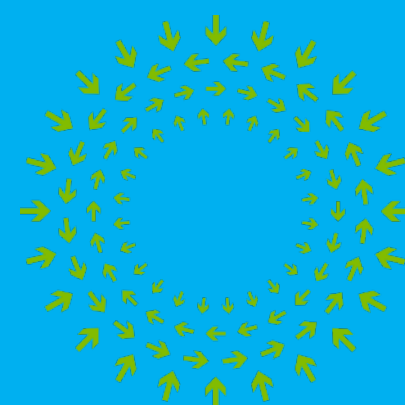
# VOLTHA

- Open Multi-purpose Multi-Protocol driver project
- Auto-generates northbound OpenFlow, NETCONF, etc.
- Common object model for managed devices
- Modules to direct specific Silicon, extensible to others.



# VOLTHA Software Architecture





Thank You!

