

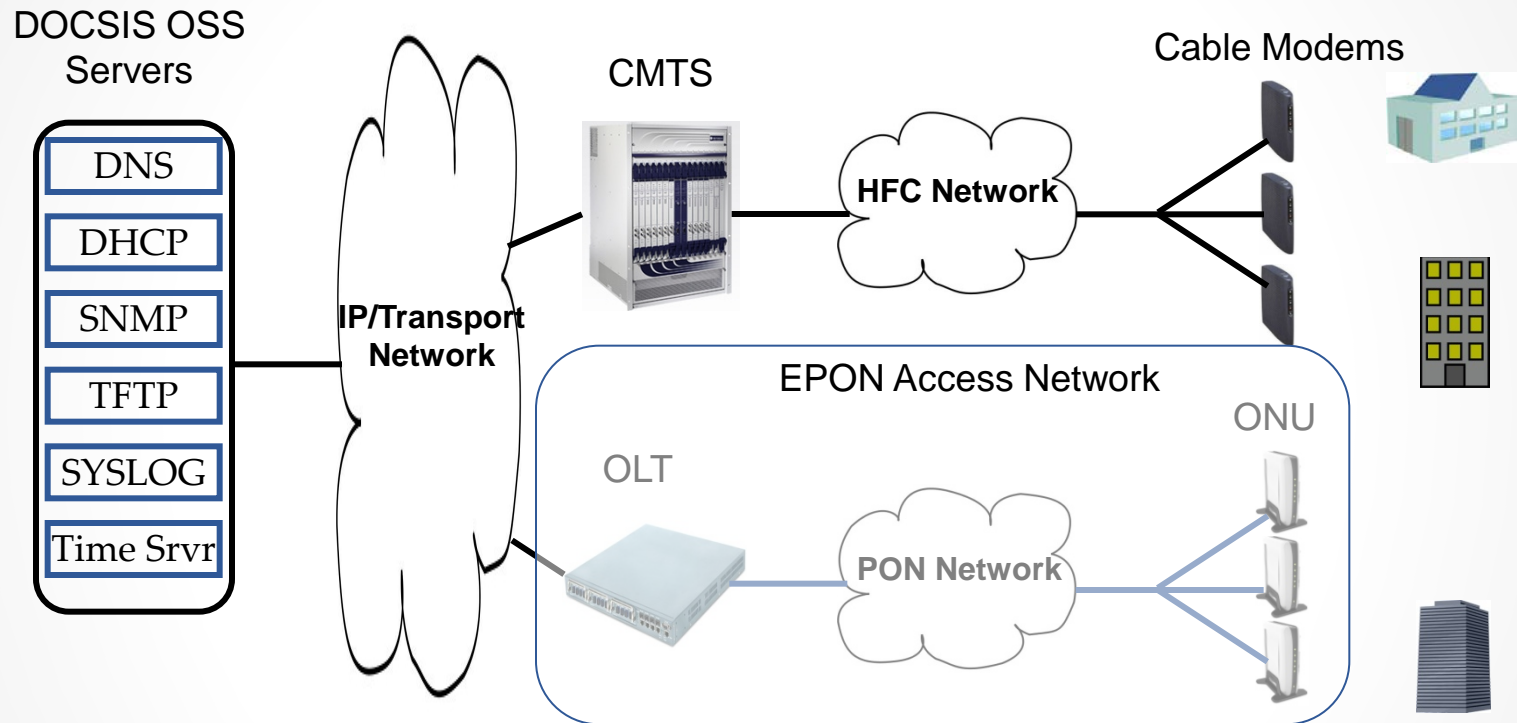
# DPoE Overview

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# DPoE Project Objectives



- Facilitate multi-vendor interoperability
- Develop specifications for EPON devices to support DOCSIS network provisioning and service concepts
- Define additional functionality to support Metro Ethernet services (Ethernet Private Line)

# DOCSIS Provisioning

- Proven – DOCSIS OSS has been in use for years
- Scalability – DOCSIS OSS provisions millions of devices
- Troubleshooting – systems in place to troubleshoot problems
- Knowledge base – existing knowledge of OSS, test systems, etc.

# Ethernet Passive Optical Networks (EPON)

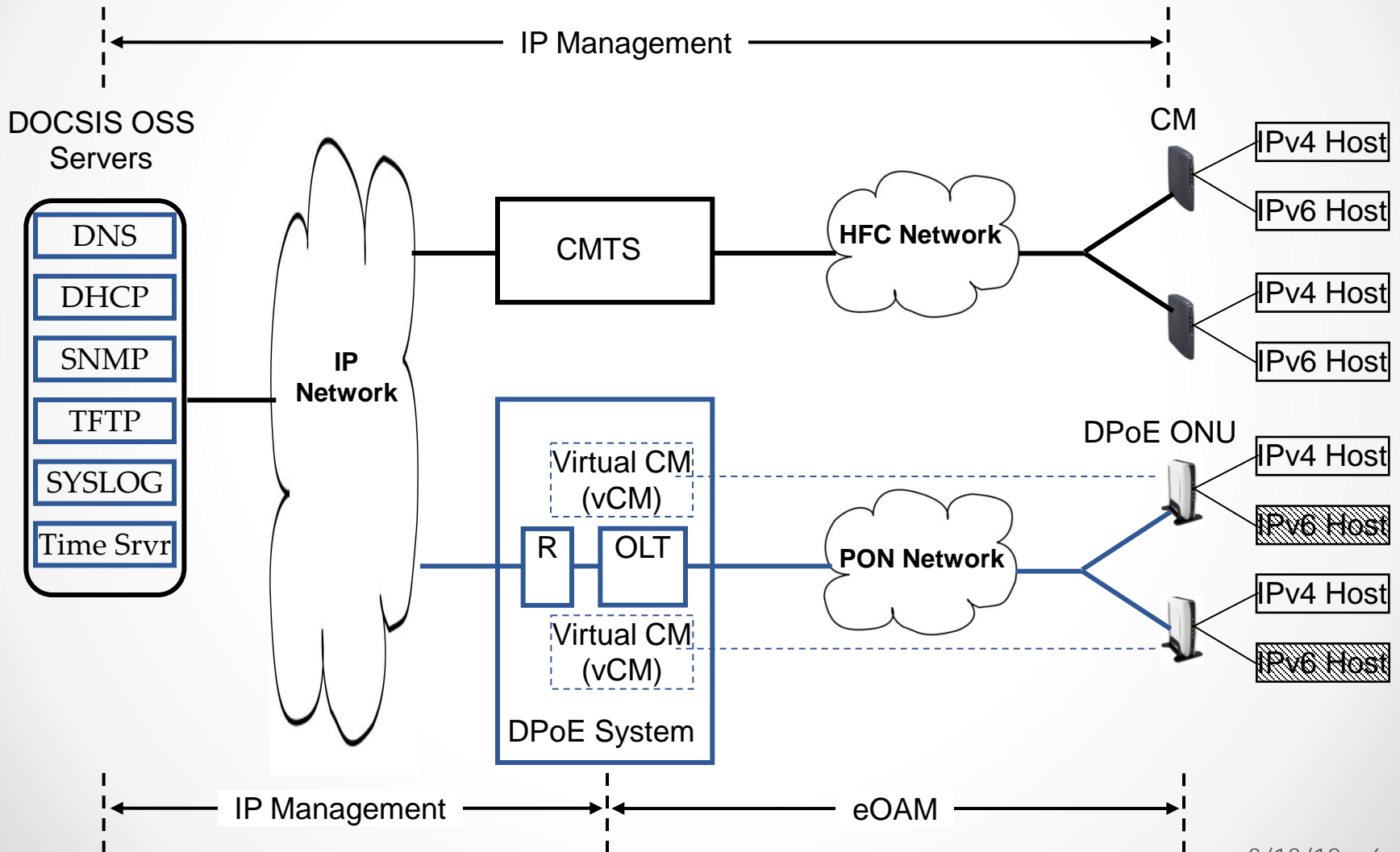
- Scalable capacity
  - 1 Gbps and 10 Gbps systems
- Lowest total cost of ownership among all competing fiber last-mile solutions
- Standards-based equipment and components
- Capable of providing voice, video and data services
- EPON has more ports deployed globally than any other fiber network technology



## DPoE Specifications

- Brings the mature systems and business processes of the DOCSIS backoffice to EPON access networks
- Enables full vendor/equipment interoperability – similar to CMTS and Cable Modems
- Leverages existing technical and customer care knowledge base, systems, and processes
- Developed by the MSO community and CableLabs
- Is *NOT* DOCSIS over fiber

# DPoE Elements and Communication

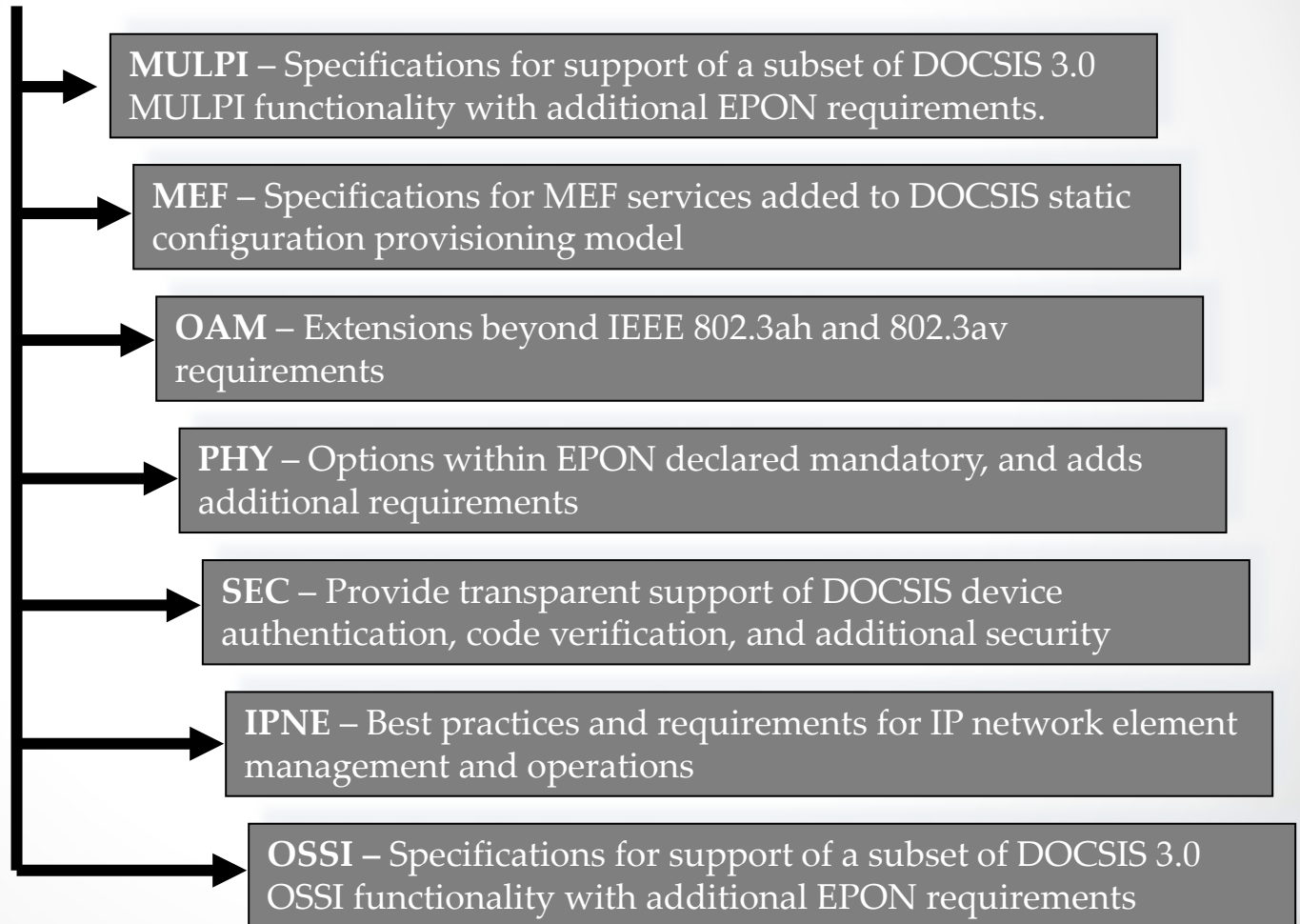


# DPoE 1.0 Specs

**CableLabs® Cable Data Services**  
**DOCSIS® Provisioning of EPON Specifications**  
**DPoE™ Architecture Specification**

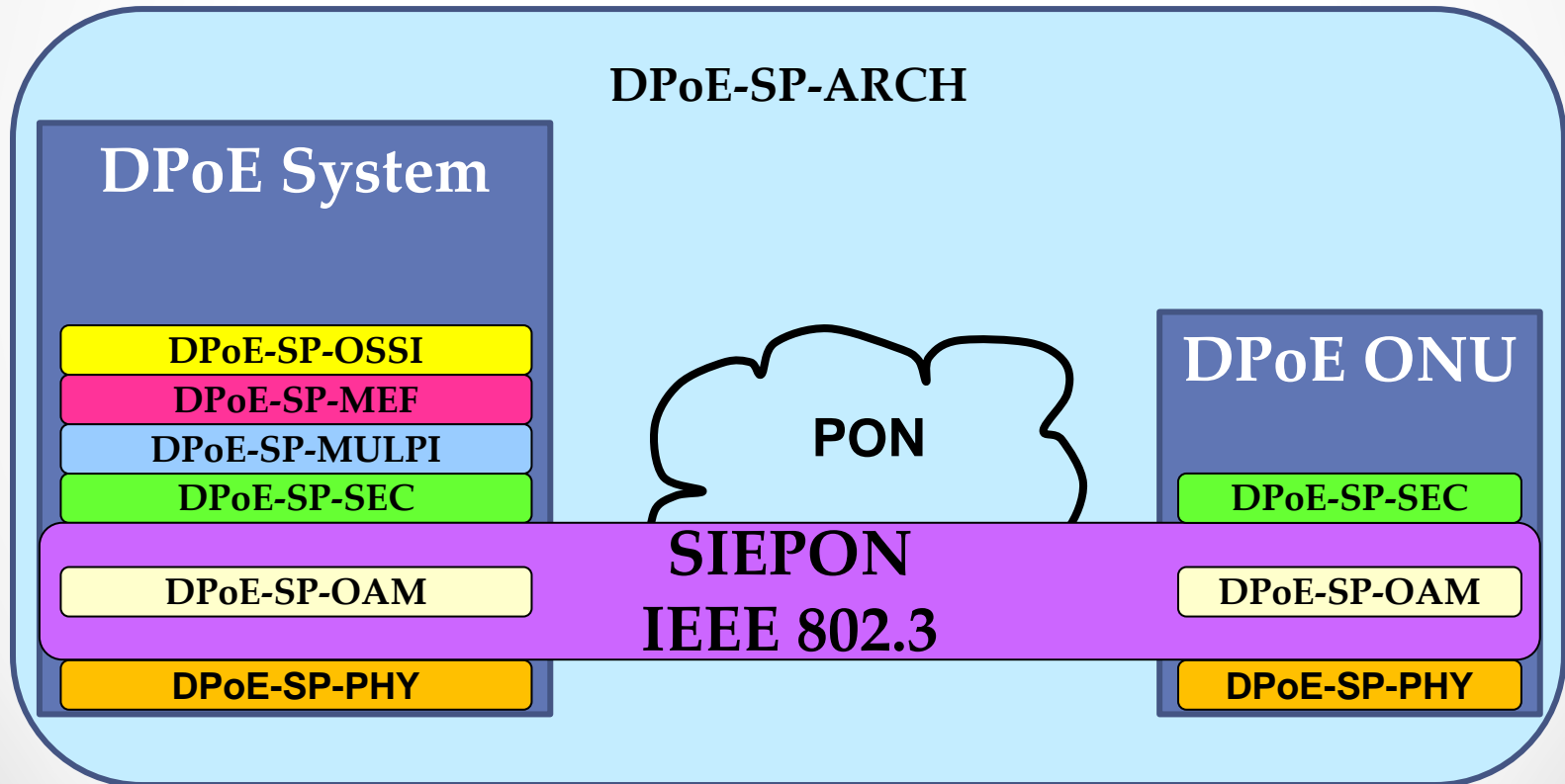
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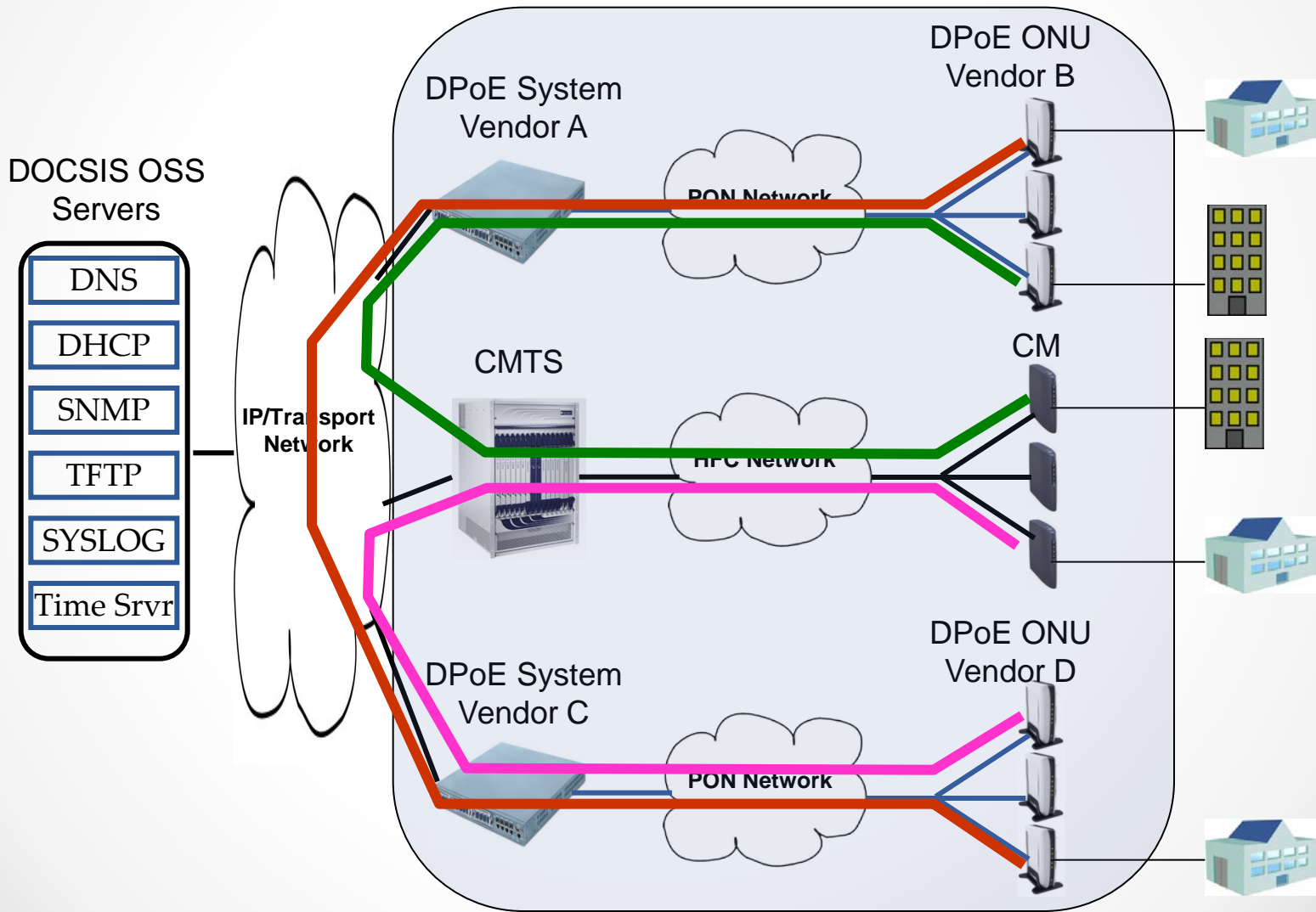
# SIEPON / DPoE v1.0 Relationship

- DPoE specs essentially build on SIEPON standard





# DPoE Interoperability (EPL Service)



**Thank you!**

