

EPoC System Architecture and Device Specifications

CL/MSO EPoC Working Group

EPoC Specification Proposed Timeline

802.3bn Task Force

September 2013 Interim

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NOTE: **RED letters** indicate changes from first version

Goals of CL/MSO EPoC Project

- Develop the overall EPoC system architecture and device requirements
 - Complement the IEEE EPoC PHY 802.3bn effort
- Define the system and component requirements
 - EPoC customer premise device, known as the Coax Network Unit (CNU) in IEEE 802.3bn definitions
 - Optical-coax converter, i.e., the interface(s) between the EPON Optical Line Terminal (OLT) and the CNU
- Specs will include requirements for:
 - Interfaces and devices
 - Functional and operational
 - Performance and physical/environmental
 - etc.

Working Group Participation

- Invitation to participate sent to key vendors
 - Traditional Cable industry, silicon and EPON suppliers
 - Please see us if you were not invited but think you can contribute
- To participate in the Working Group companies must:
 - Sign the CableLabs EPoC Contribution and License Agreement (a.k.a. “EPoC IPR”)
 - Sign the CableLabs EPoC Confidential and Privileged Information Access Agreement (a.k.a. “EPoC NDA”)
 - Sign a CableLabs CE Agreement for each participant

CL/MSO EPoC v1.0 Short Term Schedule

- Working Group intro meeting held on 9/18/2012
 - Only discussed project logistics
- Working Group Kickoff target for 10/22/12
 - Participation requires executed agreements
 - Will begin discussing technical requirements
- Weekly Working Group meetings starting 10/29/12
 - Will likely have several sub-teams focused on different areas
 - System Architecture
 - Hardware and Functional
 - Performance
 - Configuration and Management
 - Testing
 - Will start sub-teams as required
- Monthly Working Group F2F meeting starting 11/16/12
 - Will couple with IEEE meetings when possible

**Questions or comments on the CL/MSO
EPoC System Architecture and Device Specs?**

MSO Target EPoC Schedule

- CL/MSO System/Device Specs and Product
 - System architecture definition by January 2013
 - Hardware and Functional Specs by July 2013
 - Management and Performance Specs by November 2013
 - Acceptance Test Plans by January 2014
 - Sample products by 1~~Q~~H2014
- IEEE PHY Standard
 - Complete baseline for downstream by January 2013
 - Complete baseline for upstream by March 2013
 - Finalize draft standard amendment by July 2013
 - Get the standard ~~ratified~~ by early 1Q2014

Comparing Aggressive vs. MSO Target EPoC Schedules

- Basic alignment with minor deltas: more interaction, slower start, one more deliverable, and faster completion

