

CableLabs® Specification Engineering Change (EC) Form

EC TRACKING INFORMATION (Blue fields to be completed by CableLabs only)

Project	P2PCO	Status	N	Identifier	PHYv1.0-N-18.0002-2	Version	2
Affected Specification	P2PCO-SP-PHYv1.0-I01-180629						
ECR Date	11/7/2018	Comment Period End Date	11/28/2018	SEVERITY		CHANGE TYPE	
ECO Date	11/28/2018	Comment Period End Date	12/12/2018	<input checked="" type="checkbox"/> Non-Critical		<input checked="" type="checkbox"/> Minor	
ECN Date	12/12/2018	Cert Wave No		<input type="checkbox"/> Critical		<input type="checkbox"/> Major	
ECN Effective Date		Overall Type of Change (Tech/Edit/Both)		Technical			

TO OBTAIN LATEST ISSUED SPECIFICATION WORD VERSION, CLICK THE FOLLOWING:

<https://community.cablelabs.com/wiki/display/TECHPUBS/Coherent+Optics+Specifications>

TO SUBMIT EC, EMAIL COMPLETED FORM TO: CoherentOptics-ec@cablelabs.com

SPECIFICATION DOCUMENT DETAILS			
Document EC is written against:		P2PCO-PHYv1.0	
Issued Version #		I01	
AUTHOR INFORMATION			
Primary Author	First Alberto	Last Campos	Country USA
Email	a.campos@cablelabs.com		Phone
Company	CableLabs		
Additional Contributors	Matt Schmitt, Steve Jia		
ENGINEERING CHANGE DOCUMENT DETAILS			
Title of EC	Full Duplex Coherent Optics (PHY)		
Date sent to CableLabs	11/6/2018		
EC REVISION HISTORY			
Date of revised EC			
Brief description of revision			
DETAILED PROPOSED CHANGES			
Sections Affected	5.2, 5.3, 6.3, 7.3.1, 7.4.1.2, 7.4.10		
REQs Affected	Yes	Test Plans Affected	No

Commented [c1]: Click on the drop-down arrow and select the specification or Test Plan name.

Commented [c2]: This is a DATE only field. Information for each version can be listed in the brief description field below.

Commented [c3]: To be filled in ONLY when revising the original posted EC. For multiple revisions, please add to the previous text, noting the version # to which the description applies.

DOES THIS EC REQUEST A NEW TLV OR SUB-TLV NUMBER? Yes ___
 See embedded change detail for TLV table templates.

DOES THIS EC REQUEST A NEW OR REVISED FIGURE OR GRAPHIC? Yes _x_
 If yes, attach all graphic files and list those attached files in the table below. NOTE: Graphics submitted are to be editable except for UML diagrams.

This Engineering Change has the following file(s) attached.	
Type of Attachment(s) (Visio, Word, txt, .yang, etc.)	File Name of Attachment(s)

OTHER RELATED ENGINEERING CHANGES (LIST ALL THE APPLY)		
The following EC(s) are recommended to be processed in conjunction with this document:		
EC#	Title of EC	Affected Document

ARCH-x-18.0001-x	Full Duplex Coherent Optics (Architecture)	P2PCO-SP-ARCH
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NOTE! IMPORTANT EC AUTHOR INSTRUCTIONS:

Project and IPR information: [Charter for the Optical Project](#). Note related info in the footer of this form. Contact legal@cablelabs.com.

For an ECR to advance to ECO status, all spec requirements are to have the correct DUT clearly stated and *only one* requirement type is used in the sentence.

For an ECO to advance to ECN status, new or updated traceability inserted as a comment is required. Also if applicable, compiled MIB files and final Schema docs must be attached and the MIB REQ Change Details table completed.

DETAILED DESCRIPTION OF PROBLEM:

According to a recent operators' survey, approximately 20 percent of existing cable access networks use a single-fiber topology, meaning that downstream and upstream transmission to and from fiber nodes takes place on a single strand of fiber. The same survey estimated that this number is likely to grow larger in the future, for example to provide for redundant optical links and new business opportunities. Therefore, a cost-effective mechanism to support bidirectional transmission over a single fiber is needed for coherent signals in access networks.

These ECs add a new feature referred to as "Full Duplex Coherent Optics" in order to address this need.

CHANGE DETAILS FOR THE SPECIFICATION:

Complete Engineering Change details **for the specification** are contained in *either* the following Change Details file **or** the latest complete specification Word document the EC author has embedded below:



PHYV1.0-18.0002.do
cx

CHANGE DETAILS FOR MIB OBJECTS ONLY

MIB REQ CHANGE DETAILS ONLY - Mandatory for ECO and ECN (all fields require completion)					
REQ ID# List existing ID or "new"	Add/ Change/ Delete (A/C/D)	MIB OBJECTS (Only enter new MIB requirement text or final revised MIB text)	Rqmt Category MUST, SHOULD, MAY or No Change (NC)	DUT List new value: CM, CMTS, CCAP, RPD, CCAP Core or "NC"	Trace To Test Case (TC#) Insert TC#, "new", or No Change (NC)

End of Request

Additional Instructions to EC Author

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 By submitting this Engineering Change Request ("ECR"), the contributor (including any additional authors and contributors), individually and as an authorized representative of their respective Company(ies), agrees that if CableLabs incorporates this ECR in whole or in part into the relevant Specification or Test Plan, all intellectual property shall be considered a "Contribution" as defined in Charter for the Optical Project, including the Intellectual Property Rights Policy therein. CableLabs may disclose the content of this ECR as is necessary for the development of CableLabs' Specifications. Questions about the licensing of intellectual property in this ECR submission may be directed to legal@cablelabs.com.



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