

65.4 Protocol Implementation Conformance Statement (PICS) proforma for Clause 65, Extensions of the Reconciliation Sublayer (RS) for Point to Point Emulation

65.4.1 Introduction

The supplier of a protocol implementation that is claimed to conform to IEEE Std 802.3ah-200x, Extensions of the RS for Point to Point Emulation, shall complete the following Protocol Implementation Conformance Statement (PICS) proforma. A detailed description of the symbols used in the PICS proforma, along with instructions for completing the PICS proforma, can be found in Clause 21.

65.4.2 Identification

65.4.2.1 Implementation identification

Supplier	
Contact point for enquiries about the PICS	
Implementation Name(s) and Version(s)	
Other information necessary for full identification—e.g., name(s) and version(s) for machines and/or operating systems; System Names(s)	
<p>Only the first three items are required for all implementations; other information may be completed as appropriate in meeting the requirements for the identification.</p> <p>The terms Name and Version should be interpreted appropriately to correspond with a supplier's terminology (e.g., Type, Series, Model).</p>	

65.4.2.2 Protocol summary

Identification of protocol standard	IEEE Std 802.3ah-200x, Extensions of the Reconciliation Sublayer (RS) for Point to Point Emulation
Identification of amendments and corrigenda to this PICS proforma that have been completed as part of this PICS	
<p>Have any Exception items been required? No [] Yes [] (See Clause 21; the answer Yes means that the implementation does not conform to IEEE Std 802.3ah-200x)</p>	
Date of Statement	

65.4.3 Major capabilities/options

Item	Feature	Subclause	Value/Comment	Status	Support
*OLT	OLT Functionality	65.1.1	Device supports functionality required for OLT	O.1	Yes [] No []
*ONU	ONU Functionality	65.1.1	Device supports functionality required for ONU	O.1	Yes [] No []
*FEC	Forward Error Correction for Multipoint Optical Links	65.2	Device supports FEC for Multipoint Optical Links	O	Yes [] No []

65.4.4 PICS proforma tables for Extensions of Reconciliation Sublayer (RS) for Point to Point Emulation.

65.4.4.1 Variables associated with each MAC

Item	Feature	Subclause	Value/Comment	Status	Support
FS1	type Variable	65.1.2.1	Set to 1 for OLT and 0 for ONU	M	Yes []
FS2	enable Variable	65.1.2.2	True for ONU, True for OLT if MAC enabled, False for OLT if MAC not enabled	M	Yes []
FS3	mode Variable	65.1.2.2	0 for ONU, 0 for OLT unicast, and 1 for OLT multicast	M	Yes []
FS4	logical_link_id variable	65.1.2.2	Set to 0x7FFF until ONU MAC is registered Set to 0x7FFF for OLT broadcast MAC	M	Yes []
FS5	logical_link_id sharing	65.1.2.2	Unicast and Multicast ONU share same logical_link_id	M	Yes []

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65.4.4.2 Preamble Mapping and Replacement

Item	Feature	Subclause	Value/Comment	Status	Support
PM1	CRC-8 Generation	65.1.2.3.3	CRC calculation produces same result as serial implementation	M	Yes [] No []
PM2	CRC-8 Checking	65.1.2.4.3	If CRC does not match then discard packet	M	Yes [] No []
PM3	CRC-8 Replacement	65.1.2.4.3	Replace CRC with preamble	M	Yes [] No []
PM4	SPD Parsing	65.1.2.4.1	If SPD is not found then discard packet	M	Yes [] No []
PM5	SPD Replacement	65.1.2.4.1	Replace SPD with preamble	M	Yes [] No []
PM6	LLID matching for OLT	65.1.2.4.2	If LLID does not match then discard packet	OLT:M	Yes [] No []
PM7	LLID matching for ONU	65.1.2.4.2	If LLID does not match then discard packet	ONU:M	Yes [] No []
PM8	LLID Replacement	65.1.2.4.2	Replace LLID with preamble	M	Yes [] No []

65.4.4.3 FEC Requirements

Item	Feature	Subclause	Value/Comment	Status	Support

65.4.4.4 State Machines

Item	Feature	Subclause	Value/Comment	Status	Support
SM1	Transmit	65.2.4.3.7	Meets the requirements of Figure 65–9	M	Yes []
SM2	Receive octet alignment	65.2.4.3.8	Meets the requirements of Figure 65–10	M	Yes []
SM3	Receive buffer fill	65.2.4.3.9	Meets the requirements of Figure 65–11	M	Yes []
SM4	Receiver buffer empty	65.2.4.3.9	Meets the requirements of Figure 65–12	M	Yes []

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