ZigBee Cluster Library
Power Configuration Cluster (0x0001)
Test Specification
Version 0.7

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3 Notice of use and disclosure

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38 Revision history

Revision	Date	Details	Editor
000	July 11th, 2016	First draft.	Phil Jamieson
001	July 11th, 2016	Updated with the number.	Phil Jamieson
002	July 12th, 2016	Added in the secondary and tertiary bank/cell attributes.	Phil Jamieson

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44   **Table of Contents**

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1   Introduction

This document contains the PICS, test specification and PICS/test case cross reference for the ZCL *power configuration* cluster.

1.1 Conformance levels

The key words "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED" and "MAY" in this document are to be interpreted as described in [R4].

Page 9

80 ## 2 References

81 ### 2.1 ZigBee Alliance documents

82 [R1] ZigBee Cluster Library Specification, ZigBee Alliance document 07-5123.
83 [R2] ZCL General Test Specification, ZigBee Alliance document 16-0xxx.
84 [R3] ZCL Power Configuration Cluster XML PICS, ZigBee Alliance document 16-0xxx.

85 ### 2.2 IETF documents

86 [R4] S. Bradner, Key words for use in RFCs to Indicate Requirement Levels, IETF RFC 2119,
87   March 1997.
88

89 ## 3 PICS

90   All references are for the ZigBee Cluster Library specification [R1] unless otherwise indicated.

91   An XML version of these PICS is also available in [R3].

92 ### 3.1 Usage

Item number	Feature	Reference	Status	Support
PC.S	Does the device implement the *power configuration* cluster as a server?	3.3.2	O	Yes
PC.C	Does the device implement the *power configuration* cluster as a client?	3.3	O	No

93

94 ### 3.2 Server

95 ### 3.2.1 Attributes

Item number	Feature	Reference	Status	Support
PC.S.A0000	Does the device implement the *MainsVoltage* attribute?	Table 3.15, 3.3.2.2.1.1	PC.S: O	No
PC.S.A0001	Does the device implement the *MainsFrequency* attribute?	Table 3.15, 3.3.2.2.1.2	PC.S: O	No
PC.S.A0010	Does the device implement the *MainsAlarmMask* attribute?	Table 3.16, 3.3.2.2.2.1	PC.S: O	No
PC.S.A0011	Does the device implement the *MainsVoltageMinThreshold* attribute?	Table 3.16, 3.3.2.2.2.2	PC.S: O	No
PC.S.A0012	Does the device implement the *MainsVoltageMaxThreshold* attribute?	Table 3.16, 3.3.2.2.2.3	PC.S: O	No
PC.S.A0013	Does the device implement the *MainsVoltageDwellTripPoint* attribute?	Table 3.16, 3.3.2.2.2.4	PC.S: O	No
PC.S.A0020	Does the device implement the *BatteryVoltage* attribute?	Table 3.18, 3.3.2.2.3.1	PC.S: O	Yes
PC.S.A0021	Does the device implement the *BatteryPercentageRemaining* attribute?	Table 3.18, 3.3.2.2.3.2	PC.S: O	Yes
PC.S.A0030	Does the device implement the *BatteryManufacturer* attribute?	Table 3.19, 3.3.2.2.4.1	PC.S: O	No
PC.S.A0031	Does the device implement the *BatterySize* attribute?	Table 3.19, 3.3.2.2.4.2	PC.S: O	No
PC.S.A0032	Does the device implement the *BatteryAHrRating* attribute?	Table 3.19, 3.3.2.2.4.3	PC.S: O	No

Item number	Feature	Reference	Status	Support
PC.S.A0033	Does the device implement the *BatteryQuantity* attribute?	Table 3.19, 3.3.2.2.4.4	PC.S: O	No
PC.S.A0034	Does the device implement the *BatteryRatedVoltage* attribute?	Table 3.19, 3.3.2.2.4.5	PC.S: O	No
PC.S.A0035	Does the device implement the *BatteryAlarmMask* attribute?	Table 3.19, 3.3.2.2.4.6	PC.S: O	No
PC.S.A0036	Does the device implement the *BatteryVoltageMinThreshold* attribute?	Table 3.19, 3.3.2.2.4.7	PC.S: O	No
PC.S.A0037	Does the device implement the *BatteryVoltageThreshold1* attribute?	Table 3.19, 3.3.2.2.4.8	PC.S: O	No
PC.S.A0038	Does the device implement the *BatteryVoltageThreshold2* attribute?	Table 3.19, 3.3.2.2.4.8	PC.S: O	No
PC.S.A0039	Does the device implement the *BatteryVoltageThreshold3* attribute?	Table 3.19, 3.3.2.2.4.8	PC.S: O	No
PC.S.A003a	Does the device implement the *BatteryPercentageMinThreshold* attribute?	Table 3.19, 3.3.2.2.4.9	PC.S: O	No
PC.S.A003b	Does the device implement the *BatteryPercentageThreshold1* attribute?	Table 3.19, 3.3.2.2.4.10	PC.S: O	No
PC.S.A003c	Does the device implement the *BatteryPercentageThreshold2* attribute?	Table 3.19, 3.3.2.2.4.10	PC.S: O	No
PC.S.A003d	Does the device implement the *BatteryPercentageThreshold3* attribute?	Table 3.19, 3.3.2.2.4.10	PC.S: O	No
PC.S.A003e	Does the device implement the *BatteryAlarmState* attribute?	Table 3.19, 3.3.2.2.4.11	PC.S: O	No
PC.S.A0040	Does the device implement the *BatteryVoltage* attribute for a secondary bank/cell?	3.3.2.2.5	PC.S: O	No
PC.S.A0041	Does the device implement the *BatteryPercentageRemaining* attribute for a secondary bank/cell?	3.3.2.2.5	PC.S: O	No
PC.S.A0050	Does the device implement the *BatteryManufacturer* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0051	Does the device implement the *BatterySize* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No

Item number	Feature	Reference	Status	Support
PC.S.A0052	Does the device implement the *BatteryAHrRating* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0053	Does the device implement the *BatteryQuantity* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0054	Does the device implement the *BatteryRatedVoltage* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0055	Does the device implement the *BatteryAlarmMask* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0056	Does the device implement the *BatteryVoltageMinThreshold* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0057	Does the device implement the *BatteryVoltageThreshold1* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0058	Does the device implement the *BatteryVoltageThreshold2* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0059	Does the device implement the *BatteryVoltageThreshold3* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A005a	Does the device implement the *BatteryPercentageMinThreshold* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A005b	Does the device implement the *BatteryPercentageThreshold1* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A005c	Does the device implement the *BatteryPercentageThreshold2* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A005d	Does the device implement the *BatteryPercentageThreshold3* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A005e	Does the device implement the *BatteryAlarmState* attribute for a secondary bank/cell?	3.3.2.2.6	PC.S: O	No
PC.S.A0060	Does the device implement the *BatteryVoltage* attribute for a tertiary bank/cell?	3.3.2.2.7	PC.S: O	No

Item number	Feature	Reference	Status	Support
PC.S.A0061	Does the device implement the *BatteryPercentageRemaining* attribute for a tertiary bank/cell?	3.3.2.2.7	PC.S: O	No
PC.S.A0070	Does the device implement the *BatteryManufacturer* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0071	Does the device implement the *BatterySize* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0072	Does the device implement the *BatteryAHrRating* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0073	Does the device implement the *BatteryQuantity* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0074	Does the device implement the *BatteryRatedVoltage* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0075	Does the device implement the *BatteryAlarmMask* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0076	Does the device implement the *BatteryVoltageMinThreshold* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0077	Does the device implement the *BatteryVoltageThreshold1* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0078	Does the device implement the *BatteryVoltageThreshold2* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A0079	Does the device implement the *BatteryVoltageThreshold3* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A007a	Does the device implement the *BatteryPercentageMinThreshold* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A007b	Does the device implement the *BatteryPercentageThreshold1* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A007c	Does the device implement the *BatteryPercentageThreshold2* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No

Item number	Feature	Reference	Status	Support
PC.S.A007d	Does the device implement the *BatteryPercentageThreshold3* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.A007e	Does the device implement the *BatteryAlarmState* attribute for a tertiary bank/cell?	3.3.2.2.8	PC.S: O	No
PC.S.Afffd	Does the device implement the *ClusterRevision* global attribute?	Table 2-1, 2.3.5.1.1	PC.S: M	Yes
PC.S.Afffe	Does the device implement the *AttributeReportingStatus* global attribute?	Table 2-1, 2.3.5.1.2	PC.S: O	No

96

3.3 Client

3.3.1 Attributes

Item number	Feature	Reference	Status	Support
PC.C.Afffd	Does the device implement the *ClusterRevision* global attribute?	Table 2-1, 2.3.5.1.1	PC.C: M	No
PC.C.Afffe	Does the device implement the *AttributeReportingStatus* global attribute?	Table 2-1, 2.3.5.1.2	PC.C: O	No

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4 Test specification

4.1 Introduction

4.1.1 Test case overview

The following test cases are available for the *power configuration* cluster:

Test ID	Description	Reference
Global tests		
PC-TC-01G	Global attributes	4.2.1
Server side tests		
PC-TC-01S	Attributes with server as DUT	4.3.1

4.1.2 Testing tolerances

In test cases where a change in an attribute value is tested over time, it is permitted for the devices involved in the test to be within a tolerance of ±15% of the expected value. As such, these test cases indicate that the attribute value must be approximately equal to an expected value, to which the ±15% tolerance should then be applied. All other attribute values presented are expected to be exact.

4.1.3 Client DUTs

For client test cases only test steps that pertain to commands that are supported on the DUT are required to be executed. All commands in this cluster for which support is indicated in the PICS shall be exercised, using valid, application achievable values.

Note that for the client attribute test case, it is permissible for the client not to be able to execute any of the test steps.

The client SHALL ensure that an application link, e.g. a binding link, exists between itself and the test harness. This should be configured before starting the test.

4.1.4 Test steps manipulating attributes

In test case steps that require more than one attribute to be manipulated (e.g. read), the tester may decide whether it is appropriate or practical to send a single attribute manipulation command, containing multiple attributes, or multiple attribute manipulation commands, each containing a single attribute. The test case is designed to verify the behavior of the device supporting the attribute rather that verifying the attribute manipulation command in question.

126 **4.2 Generic test cases**

127 **4.2.1 PC-TC-01G: Global attributes**

128 This test case verifies the behavior of the global attributes of the *power configuration* cluster
129 client and server.

130 In this test, the PICS notation PC.S.A*gm* and PC.C.A*gm* represents the list of global attributes
131 that are specified as being mandatory for either the server or client, respectively. Similarly, the
132 PICS notation PC.S.A*go* and PC.C.A*go* represents the list of global attributes that are specified
133 as being optional for either the server or client, respectively.

134 **4.2.1.1 Scope**

135 General:

136 - *Read attributes* command (0x00)
137 - *Read attributes response* command (0x01)
138 - *Write attributes* command (0x02)
139 - *Write attributes response* command (0x04)

140 *Power configuration* cluster (0x0001):

141 - All global attributes

142 PICS:

143 - PC.S, PC.C
144 - PC.S.A*gm*, PC.C.A*gm*, PC.S.A*go*, PC.C.A*go*

145 **4.2.1.2 Required devices**

Designation	Symbol	Description
DUT	DUT	Device under test implementing: - The *power configuration* cluster server or client.
TH	TH	Test harness implementing: - The *power configuration* cluster client or server, i.e. the opposite cluster instantiation as implemented on the DUT.

146

147   ### 4.2.1.3 Initial conditions

Item	Initial Conditions
1	A packet sniffer shall be observing the communication over the air interface.
2	All devices are factory new and powered off until used.

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149   ### 4.2.1.4 Test preparation

Add TH and DUT to a ZigBee network

Before   *After*
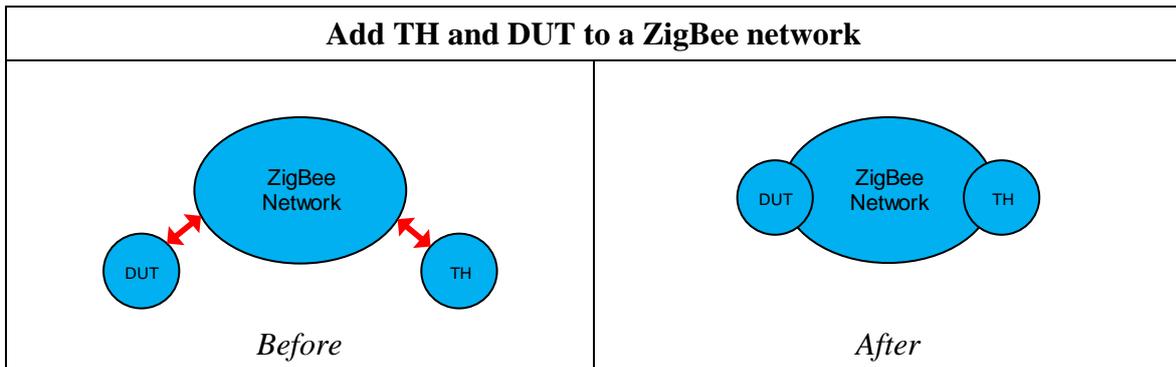
150

PC-TC-01G: Global attributes		
Item	Preparation Step	Observation
P1	Form a ZigBee network.	Observe appropriate command frame to form the network.
P2	Power on TH and DUT.	TH and DUT are powered on.
P3	Join TH and DUT to a ZigBee network.	Observe appropriate communication between TH, DUT and any other relevant node on the ZigBee network.

--- End of test case PC-TC-01G preparation ---

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152　**4.2.1.5 Test procedure**

**PC-TC-01G: Global attributes**
Item	**PICS**	**Test Harness Step**	**DUT pass Verification**
1	PC.S.A*gm*, PC.C.A*gm*	TH unicasts a ZCL *read attributes* command frame to DUT to read each mandatory global attribute of this cluster one at a time.	DUT unicasts a ZCL *read attributes response* command frame to TH containing each requested attribute. The data type in each command must match the value listed in the specification(s). The data value in each command for the attribute must fall within the valid range described in the specification(s).
2a	PC.S.A*gm*, PC.C.A*gm*	TH unicasts a ZCL *write attributes* command frame to DUT to write the respective default value to each mandatory global attribute of this cluster one at a time.	DUT unicasts a ZCL *write attributes response* command frame to TH for each attribute. If the access control of DUT is set to READ, the DUT response will indicate that the attribute write command was not a SUCCESS. If the access control of DUT is set to READ/WRITE, the DUT response will indicate that the write command was a SUCCESS.
2b	PC.S.A*gm*, PC.C.A*gm*	TH unicasts a ZCL *read attributes* command frame to DUT to read back each attribute written in step 2a.	DUT unicasts a ZCL *read attributes response* command frame to TH containing the requested attribute. If the *Status* field of the *write attributes response* command frame was equal to SUCCESS, the updated value is read back. If the *Status* field of the *write attributes response* command frame was not equal to SUCCESS the value is not updated when read back.

Continued…

PC-TC-01G: Global attributes			
Item	**PICS**	**Test Harness Step**	**DUT pass Verification**
3	PC.S.A*go*, PC.C.A*go*	TH unicasts a ZCL *read attributes* command frame to DUT to read each optional global attribute of this cluster one at a time.	DUT unicasts a ZCL *read attributes response* command frame to TH containing each attribute. If the DUT implements the attribute, the *Status* field will be equal to SUCCESS and the command will contain the requested attribute. If the DUT does not implement the attribute, the *Status* field will not be equal to SUCCESS. The data type in each command must match the value listed in the specification(s). The data value in each command for the attribute must fall within the valid range described in the specification(s).
4a	PC.S.A*go*, PC.C.A*go*	TH unicasts a ZCL *write attributes* command frame to DUT to write the respective default value to each optional global attribute of this cluster one at a time.	DUT unicasts a ZCL *write attributes response* command frame to TH for each attribute. If the attribute is not implemented or the access control of DUT is set to READ, the DUT response will indicate that the attribute write command was not a SUCCESS. If the attribute is implemented and the access control of DUT is set to READ/WRITE, the DUT response will indicate that the write command was a SUCCESS.
4b	PC.S.A*go*, PC.C.A*go*	TH unicasts a ZCL *read attributes* command frame to DUT to read back each attribute written in step 4a.	DUT unicasts a ZCL *read attributes response* command frame to TH containing the requested attribute. If the *Status* field of the *write attributes response* command frame was equal to SUCCESS, the updated value is read back. If the *Status* field of the *write attributes response* command frame was not equal to SUCCESS the value is not updated when read back.

--- End of test case PC-TC-01G ---

153

154 4.3 Server test cases

155 4.3.1 PC-TC-01S: Attributes with server as DUT

156 This test case verifies the behavior of the attributes of the *power configuration* cluster server.

157 In this test, the PICS notation PC.S.A*m* represents the list of non-global attributes that are
158 specified as being mandatory. Similarly, the PICS notation PC.S.A*o* represents the list of non-
159 global attributes that are specified as being optional.

160

161 4.3.1.1 Scope

162 General:

163 - *Read attributes* command (0x00)
164 - *Read attributes response* command (0x01)
165 - *Write attributes* command (0x02)
166 - *Write attributes response* command (0x04)

167 *Power configuration* cluster (0x0001):

168 - All non-global attributes

169 PICS:

170 - PC.S,
171 - PC.S.A*m*, PC.S.A*o*

172 4.3.1.2 Required devices

Designation	Symbol	Description
TH CLIENT	TH CLIENT	Test harness client implementing: • The *power configuration* cluster client.
DUT SERVER	DUT SERVER	Device under test server: • The *power configuration* cluster server.

173

174 4.3.1.3 Initial conditions

Item	Initial Conditions
1	A packet sniffer shall be observing the communication over the air interface.
2	All devices are factory new and powered off until used.

175

176

177 ### 4.3.1.4 Test preparation

Add TH CLIENT and DUT SERVER to a ZigBee network
Before   *After*
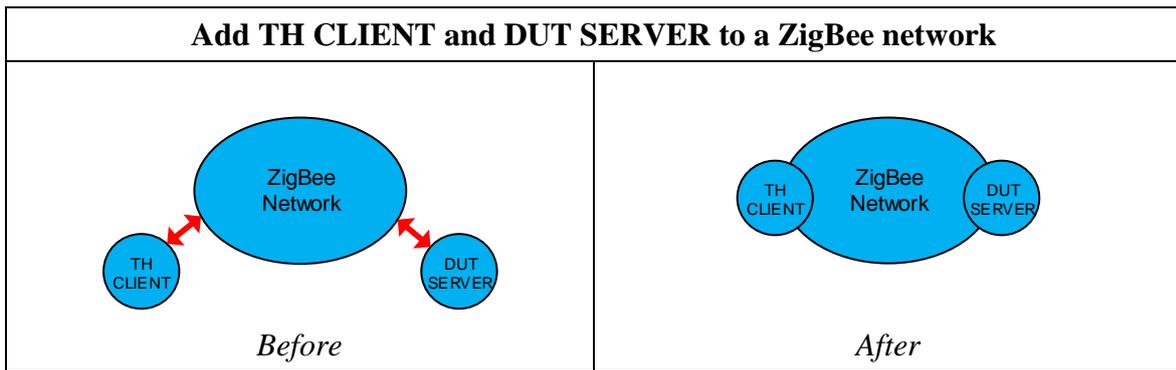
178

PC-TC-01S: Attributes with server as DUT		
Item	**Preparation Step**	**Observation**
P1	Form a ZigBee network.	Observe appropriate command frame to form the network.
P2	Power on TH CLIENT and DUT SERVER.	TH CLIENT and DUT SERVER are powered on.
P3	Join TH CLIENT and DUT SERVER to a ZigBee network.	Observe appropriate communication between TH CLIENT, DUT SERVER and any other relevant node on the ZigBee network.

--- End of test case PC-TC-01C preparation ---

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180 ### 4.3.1.5 Test procedure

		PC-TC-01S: Attributes with server as DUT	
Item	**PICS**	**Test Harness Step**	**DUT pass Verification**
1	PC.S.A*m*	TH CLIENT unicasts a ZCL *read attributes* command frame to DUT SERVER to read each mandatory attribute of this cluster one at a time.	DUT SERVER unicasts a ZCL *read attributes response* command frame to TH CLIENT containing each requested attribute. The data type in each command must match the value listed in the specification(s). The data value in each command for the attribute must fall within the valid range described in the specification(s).
2a	PC.S.A*m*	TH CLIENT unicasts a ZCL *write attributes* command frame to DUT SERVER to write the respective default value to each mandatory attribute of this cluster one at a time.	DUT SERVER unicasts a ZCL *write attributes response* command frame to TH CLIENT for each attribute. If the access control of DUT SERVER is set to READ, the DUT SERVER response will indicate that the attribute write command was not a SUCCESS. If the access control of DUT SERVER is set to READ/WRITE, the DUT SERVER response will indicate that the write command was a SUCCESS.
2b	PC.S.A*m*	TH CLIENT unicasts a ZCL *read attributes* command frame to DUT SERVER to read back each attribute written in step 2a.	DUT SERVER unicasts a ZCL *read attributes response* command frame to TH CLIENT containing the requested attribute. If the *Status* field of the *write attributes response* command frame was equal to SUCCESS, the updated value is read back. If the *Status* field of the *write attributes response* command frame was not equal to SUCCESS the value is not updated when read back.

Continued…

PC-TC-01S: Attributes with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
3	PC.S.A*o*	TH CLIENT unicasts a ZCL *read attributes* command frame to DUT SERVER to read each optional attribute of this cluster one at a time.	DUT SERVER unicasts a ZCL *read attributes response* command frame to TH CLIENT containing each attribute. If the DUT SERVER implements the attribute, the *Status* field will be equal to SUCCESS and the command will contain the requested attribute. If the DUT SERVER does not implement the attribute, the *Status* field will not be equal to SUCCESS. The data type in each command must match the value listed in the specification(s). The data value in each command for the attribute must fall within the valid range described in the specification(s).
4a	PC.S.A*o*	TH CLIENT unicasts a ZCL *write attributes* command frame to DUT SERVER to write the respective default value to each optional attribute of this cluster one at a time.	DUT SERVER unicasts a ZCL *write attributes response* command frame to TH CLIENT for each attribute. If the attribute is not implemented or the access control of DUT SERVER is set to READ, the DUT SERVER response will indicate that the attribute write command was not a SUCCESS. If the attribute is implemented and the access control of DUT SERVER is set to READ/WRITE, the DUT response will indicate that the write command was a SUCCESS.

Continued…

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PC-TC-01S: Attributes with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
4b	PC.S.A*o*	TH CLIENT unicasts a ZCL *read attributes* command frame to DUT SERVER to read back each attribute written in step 4a.	DUT SERVER unicasts a ZCL *read attributes response* command frame to TH CLIENT containing the requested attribute. If the *Status* field of the *write attributes response* command frame was equal to SUCCESS, the updated value is read back. If the *Status* field of the *write attributes response* command frame was not equal to SUCCESS the value is not updated when read back.

--- End of test case PC-TC-01S ---

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183   5   Annex A: PICS to test case cross reference

184   5.1   Server

	Test case	
PICS	PC-TC-01G	PC-TC-01S
PC.S	X	X
PC.S.A0000		X
PC.S.A0001		X
PC.S.A0010		X
PC.S.A0011		X
PC.S.A0012		X
PC.S.A0013		X
PC.S.A0020		X
PC.S.A0021		X
PC.S.A0030		X
PC.S.A0031		X
PC.S.A0032		X
PC.S.A0033		X
PC.S.A0034		X
PC.S.A0035		X
PC.S.A0036		X
PC.S.A0037		X
PC.S.A0038		X
PC.S.A0039		X
PC.S.A003a		X
PC.S.A003b		X
PC.S.A003c		X
PC.S.A003d		X
PC.S.A003e		X
PC.S.A0040		X
PC.S.A0041		X
PC.S.A0050		X
PC.S.A0051		X
PC.S.A0052		X
PC.S.A0053		X
PC.S.A0054		X
PC.S.A0055		X

PICS	Test case	
	PC-TC-01G	PC-TC-01S
PC.S.A0056		X
PC.S.A0057		X
PC.S.A0058		X
PC.S.A0059		X
PC.S.A005a		X
PC.S.A005b		X
PC.S.A005c		X
PC.S.A005d		X
PC.S.A005e		X
PC.S.A0060		X
PC.S.A0061		X
PC.S.A0070		X
PC.S.A0071		X
PC.S.A0072		X
PC.S.A0073		X
PC.S.A0074		X
PC.S.A0075		X
PC.S.A0076		X
PC.S.A0077		X
PC.S.A0078		X
PC.S.A0079		X
PC.S.A007a		X
PC.S.A007b		X
PC.S.A007c		X
PC.S.A007d		X
PC.S.A007e		X
PC.S.Afffd	X	
PC.S.Afffe	X	

185

186 ## 5.2 Client

PICS	Test case
	PC-TC-01G
PC.C	X
PC.C.Afffd	X

	Test case
PICS	PC-TC-01G
PC.C.Afffe	X

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