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ZigBee Cluster Library IAS Zone Cluster (0x0500) Test Specification Version 0.9

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Abstract This document describes the certification tests for devices
which implement the ZCL IAS Zone Cluster.

Keywords ZCL, IAS Zone, cluster

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Revision history

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000	March 23 rd , 2017	First draft.	Vinay Ganji
001	March 30 th , 2017	Added document number.	Phil Jamieson
002	April 13 th , 2017	Added PICS for enrollment methods	Michael Bartholomew
003	April 20 th , 2017	Addressed CCB-2324: all relevant ZoneStatus values to be sent. Added test to verify CIE Address attribute cannot be overwritten once DUT is enrolled	Michael Bartholomew

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1 Introduction

81 This document contains the PICS, test specification and PICS/test case cross reference for the
82 ZCL *IAS Zone* cluster.

83 1.1 Conformance levels

84 The key words "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT",
85 "RECOMMENDED" and "MAY" in this document are to be interpreted as described in [R4].
86

2 References

2.1 ZigBee Alliance documents

- [R1] ZigBee Cluster Library Specification, ZigBee Alliance document 07-5123.
- [R2] ZCL General Test Specification, ZigBee Alliance document 16-0xxx.
- [R3] ZCL IAS Zone Cluster XML PICS, ZigBee Alliance document 16-0xxx.

2.2 IETF documents

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

3 PICS

- 97 All references are for the ZigBee Cluster Library specification [R1] unless otherwise indicated.
 98 An XML version of these PICS is also available in [R3].

3.1 Usage

Item number	Feature	Reference	Status	Support
IASZ.S	Does the device implement the <i>IAS Zone</i> cluster as a server?	8.2.2	O	No
IASZ.C	Does the device implement the <i>IAS Zone</i> cluster as a client?	8.2.3	O	Yes
IASZ.TTP	Does the device support Trip-to-Pair enrollment?	8.2.2.2.3	O	Yes
IASZ.ARSP	Does the device support Auto-Enroll-Response enrollment?	8.2.2.2.3	O	Yes
IASZ.AREQ	Does the device support Auto-Enroll-Request enrollment?	8.2.2.2.3	O	No

3.2 Server

3.2.1 Attributes

Item number	Feature	Reference	Status	Support
Zone Information Attribute Set				
IASZ.S.A0000	Does the device implement the <i>Zone State</i> attribute?	8.2.2.2.1.1	IASZ.S: M	No
IASZ.S.A0001	Does the device implement the <i>Zone Type</i> attribute?	8.2.2.2.1.2	IASZ.S: M	No
IASZ.S.A0002	Does the device implement the <i>Zone Status</i> attribute?	8.2.2.2.1.3	IASZ.S: M	No
Zone Settings Attribute Set				
IASZ.S.A0010	Does the device implement the <i>IAS CIE address</i> attribute?	8.2.2.2.2.1	IASZ.S: M	No
IASZ.S.A0011	Does the device implement the <i>Zone ID</i> attribute?	8.2.2.2.2.2	IASZ.S: M	No
IASZ.S.A0012	Does the device implement <i>Number of Zone Sensitivity Levels Supported</i> attribute?	8.2.2.2.2.3	IASZ.S: O	No

Item number	Feature	Reference	Status	Support
Zone Information Attribute Set				
IASZ.S.A0013	Does the device implement <i>Current Zone Sensitivity Level</i> attribute?	8.2.2.2.4	IASZ.S: O	No
Global Attributes				
IASZ.S.AFFFD	Does the device implement <i>ClusterRevision</i> global attribute?	2.3.5.1.1	IASZ.S: M	No
IASZ.S.AFFFE	Does the device implement <i>AttributeReportingStatus</i> global attribute?	2.3.5.1.2	IASZ.S: O	No

3.2.2 Commands received

Item number	Feature	Reference	Status	Support
IASZ.S.C00.Rsp	Does the device implement receiving the <i>Zone Enroll Response</i> command?	8.2.2.3.1	IASZ.S: M	No
IASZ.S.C01.Rsp	Does the device implement receiving the <i>Initiate Normal Operation Mode</i> command?	8.2.2.3.2	IASZ.S: O	No
IASZ.S.C02.Rsp	Does the device implement receiving the <i>Initiate Test Mode</i> command?	8.2.2.3.2.3	IASZ.S: O	No

3.2.3 Commands sent

Item number	Feature	Reference	Status	Support
IASZ.S.C00.Tx	Does the device implement sending the <i>Zone Status Change Notification</i> command?	8.2.2.4.1	IASZ.S: M	No
IASZ.S.C01.Tx	Does the device implement sending the <i>Zone Enroll Request</i> command?	8.2.2.4.2	IASZ.S: M	No

3.3 Client

No dependencies or cluster specific attributes are defined for the client. The client receives the cluster specific commands detailed in 8.2.2.4. The client generates the cluster specific commands detailed in 8.2.2.3, as required by the application.

3.3.1 Attributes

Item number	Feature	Reference	Status	Support
Global Attributes				
IASZ.C.AFFFD	Does the device implement the <i>ClusterRevision</i> global attribute?	2.3.5.1.1	IASZ.C: M	Yes
IASZ.C.AFFFE	Does the device implement the <i>AttributeReportingStatus</i> global attribute?	2.3.5.1.2	IASZ.C: O	No

3.3.2 Commands received

Item number	Feature	Reference	Status	Support
IASZ.C.C00.Rsp	Does the device implement receiving the <i>Zone Status Change Notification</i> command?	8.2.2.4	IASZ.C: M	Yes
IASZ.C.C01.Rsp	Does the device implement receiving the <i>Zone Enroll Request</i> command?	8.2.2.4	IASZ.C: M	Yes

3.3.3 Commands sent

Item number	Feature	Reference	Status	Support
IASZ.C.C00.Tx	Does the device implement sending the <i>Zone Enroll Response</i> command?	8.2.2.3	IASZ.C: M	Yes
IASZ.C.C01.Tx	Does the device implement sending the <i>Initiate Normal Operation Mode</i> command?	8.2.2.3	IASZ.C: O	No
IASZ.C.C02.Tx	Does the device implement sending the <i>Initiate Test Mode</i> command?	8.2.2.3	IASZ.C: O	No

4 PIXIT items

Item number	Feature	Reference	Status	Specification
IASZ.PIXIT01	What is the <i>CurrentZoneSensitivityLevel</i> for test mode?	8.2.2.3.2.6	IASZ:O	<i>“CurrentZoneSensitivityLevel”</i>
IASZ.PIXIT02	What is the <i>TestModeDuration</i> ?	8.2.2.3.2.5	IASZ:O	<i>“TestModeDuration”</i>

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5 Test specification

5.1 Introduction

5.1.1 Test case overview

The following test cases are available for the *IAS Zone* cluster:

Test ID	Description	Reference
Global tests		
IASZ-TC-01G	Global attributes	5.2.1
Server side tests		
IASZ -TC-01S	Attributes with server as DUT	5.3.1
IASZ -TC-02S	Device Enrollment with server as DUT	
IASZ -TC-03S	IAS Zone Servers common test cases	5.3.2
Client side tests		
IASZ-TC-01C	Device Enrollment with client as DUT	5.4.1
IASZ-TC-02C	Primary Functionality with client as DUT	4.4.2

5.1.2 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 $\pm 15\%$ 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 $\pm 15\%$ tolerance should then be applied. All other attribute values presented are expected to be exact.

5.1.3 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.

5.1.4 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

149 containing a single attribute. The test case is designed to verify the behavior of the device
 150 supporting the attribute rather than verifying the attribute manipulation command in question.

151 5.2 Generic test cases

152 5.2.1 IASZ-TC-01G: Global attributes

153 This test case verifies the behavior of the global attributes of the *IAS Zone* cluster client and
 154 server. In this test, the PICS notation *IASZ.S.Agm* and *IASZ.C.Agm* represents the list of
 155 global attributes that are specified as being mandatory for either the server or client,
 156 respectively. Similarly, the PICS notation *IASZ.S.Ago* and *IASZ.C.Ago* represents the list of
 157 global attributes that are specified as being optional for either the server or client, respectively.

158 5.2.1.1 Scope

159 General:

- 160 • *Read attributes* command (0x00)
- 161 • *Read attributes response* command (0x01)
- 162 • *Write attributes* command (0x02)
- 163 • *Write attributes response* command (0x04)



164 *IAS Zone* cluster (0x0500):

- 165 • All global attributes

166 PICS:

- 167 • *IASZ.S*, *IASZ.C*
- 168 • *IASZ.S.Agm*, *IASZ.C.Agm*, *IASZ.S.Ago*, *IASZ.C.Ago*

169 5.2.1.2 Required devices

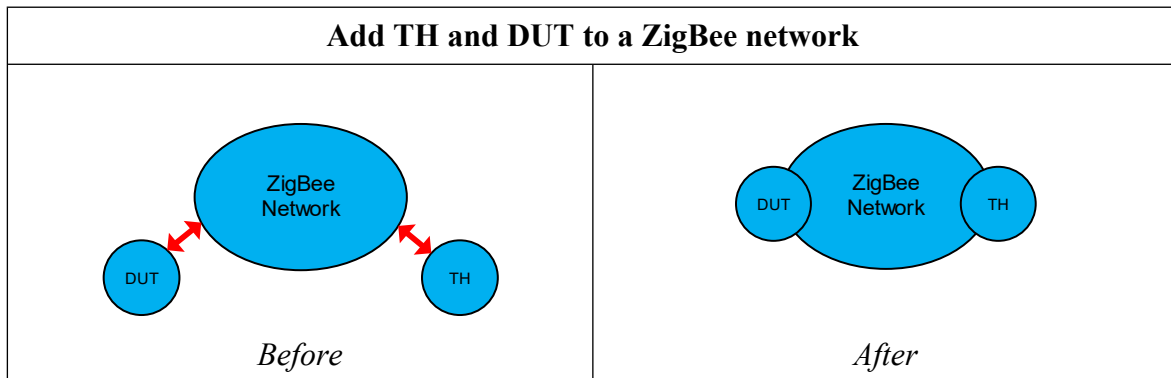
Designation	Symbol	Description
DUT		Device under test implementing: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster server or client.
TH		Test harness implementing: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster client or server, i.e. the opposite cluster instantiation as implemented on the DUT.

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171 **5.2.1.3 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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173 **5.2.1.4 Test preparation**

174

IASZ-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 IASZ-TC-01G preparation ---

175

176 **5.2.1.5 Test procedure**

IASZ-TC-01G: Global attributes			
Item	PICS	Test Harness Step	DUT pass Verification
1	IASZ.S.Agm, IASZ.C.Agm	TH unicasts a ZCL <i>read attributes</i> command frame to DUT to read each mandatory global attribute of this cluster one at a time.	DUT unicasts a ZCL <i>read attributes response</i> 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	IASZ.S.Agm, IASZ.C.Agm	TH unicasts a ZCL <i>write attributes</i> 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 <i>write attributes response</i> 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	IASZ.S.Agm, IASZ.C.Agm	TH unicasts a ZCL <i>read attributes</i> command frame to DUT to read back each attribute written in step 2a.	DUT unicasts a ZCL <i>read attributes response</i> command frame to TH containing the requested attribute. If the <i>Status</i> field of the <i>write attributes response</i> command frame was equal to SUCCESS, the updated value is read back. If the <i>Status</i> field of the <i>write attributes response</i> command frame was not equal to SUCCESS the value is not updated when read back.

Continued...

IASZ-TC-01G: Global attributes			
Item	PICS	Test Harness Step	DUT pass Verification
3	IASZ.S.Ago, IASZ.C.Ago	TH unicasts a <i>ZCL read attributes</i> command frame to DUT to read each optional global attribute of this cluster one at a time.	<p>DUT unicasts a <i>ZCL read attributes response</i> command frame to TH containing each attribute.</p> <p>If the DUT implements the attribute, the <i>Status</i> field will be equal to SUCCESS and the command will contain the requested attribute. If the DUT does not implement the attribute, the <i>Status</i> field will not be equal to SUCCESS.</p> <p>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).</p>
4a	IASZ.S.Ago, IASZ.C.Ago	TH unicasts a <i>ZCL write attributes</i> command frame to DUT to write the respective default value to each optional global attribute of this cluster one at a time.	<p>DUT unicasts a <i>ZCL write attributes response</i> command frame to TH for each attribute.</p> <p>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.</p>

IASZ-TC-01G: Global attributes			
Item	PICS	Test Harness Step	DUT pass Verification
4b	IASZ.S.Ago, IASZ.C.Ago	TH unicasts a ZCL <i>read attributes</i> command frame to DUT to read back each attribute written in step 4a.	DUT unicasts a ZCL <i>read attributes response</i> command frame to TH containing the requested attribute. If the <i>Status</i> field of the <i>write attributes response</i> command frame was equal to SUCCESS, the updated value is read back. If the <i>Status</i> field of the <i>write attributes response</i> command frame was not equal to SUCCESS the value is not updated when read back.

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

5.3 Server test cases

5.3.1 IASZ-TC-01S: Attributes with server as DUT

This test case verifies the behavior of the attributes of the *IAS Zone* cluster server.

In this test, the PICS notation IASZ.S.Am represents the list of non-global attributes that are specified as being mandatory. Similarly, the PICS notation IASZ.S.Ao represents the list of non-global attributes that are specified as being optional.

5.3.1.1 Scope

General:

- *Read attributes* command (0x00)
- *Read attributes response* command (0x01)
- *Write attributes* command (0x02)
- *Write attributes response* command (0x04)



IAS Zone cluster (0x0500):

- All non-global attributes

PICS:

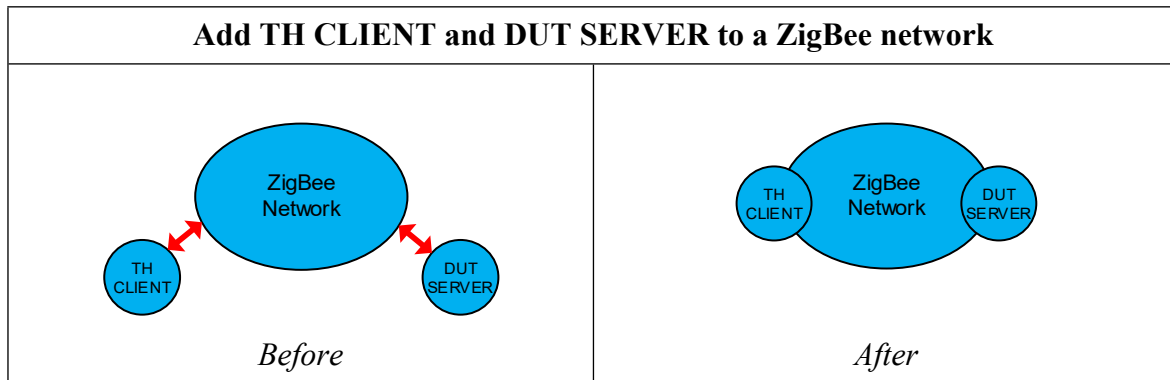
- IASZ.S,
- IASZ.S.Am, IASZ.S.Ao

5.3.1.2 Required devices

Designation	Symbol	Description
TH CLIENT		Test harness client implementing: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster client.
DUT SERVER		Device under test server: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster server.

5.3.1.3 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.

200 **5.3.1.4 Test preparation**

201

IASZ-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 IASZ-TC-01S preparation ---

202

203 **5.3.1.5 Test procedure**

IASZ-TC-01S: Attributes with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
1	IASZ.S.Am	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read each mandatory attribute of this cluster one at a time.	DUT SERVER unicasts a ZCL <i>read attributes response</i> 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	IASZ.S.Am	TH CLIENT unicasts a ZCL <i>write attributes</i> 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 <i>write attributes response</i> 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	IASZ.S.Am	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read back each attribute written in step 2a.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT containing the requested attribute. If the <i>Status</i> field of the <i>write attributes response</i> command frame was equal to SUCCESS, the updated value is read back. If the <i>Status</i> field of the <i>write attributes response</i> command frame was not equal to SUCCESS the value is not updated when read back.

Continued...

IASZ-TC-01S: Attributes with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
3	IASZ.S.Ao	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read each optional attribute of this cluster one at a time.	<p>DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT containing each attribute.</p> <p>If the DUT SERVER implements the attribute, the <i>Status</i> field will be equal to SUCCESS and the command will contain the requested attribute. If the DUT SERVER does not implement the attribute, the <i>Status</i> field will not be equal to SUCCESS.</p> <p>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).</p>
4a	IASZ.S.Ao	TH CLIENT unicasts a ZCL <i>write attributes</i> command frame to DUT SERVER to write the respective default value to each optional attribute of this cluster one at a time.	<p>DUT SERVER unicasts a ZCL <i>write attributes response</i> command frame to TH CLIENT for each attribute.</p> <p>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.</p>

Continued...

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

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

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5.3.2 IASZ-TC-02S: Device Enrollment with server as a DUT

This test case verifies the Device Enrollment process of the *IAS Zone* Cluster with respect to the CIE, which in this case is the Test Harness Client.

5.3.2.1 Scope

General:

- *Read attributes* command (0x00)
- *Read attributes response* command (0x01)
- *Write attributes* command (0x02)
- *Write attributes response* command (0x04)



IAS Zone cluster (0x0500):

- *IAS_CIE_Address* attribute (0x0010)
- *ZoneState* attribute (0x0000)
- *ZoneID* attribute (0x0011)
- *Zone Enroll Request* command (0x01)

PICS:

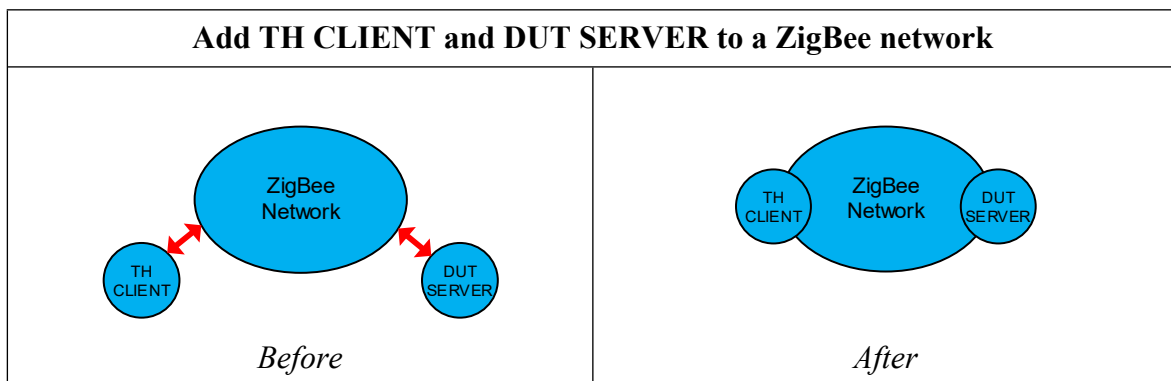
- IASZ.S
- IASZ.S.A0000, IASZ.S.A0010, IASZ.S.A0011
- IASZ.S.C01.Tx, IASZ.S.C00.Rsp

5.3.2.2 Required devices

Designation	Symbol	Description
TH CLIENT		Test harness client implementing: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster client.
DUT SERVER		Device under test server: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster server.

5.3.2.3 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.

228 **5.3.2.4 Test preparation**

229

IASZ-TC-02S: Device Enrollment 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	The DUT SERVER shall be in wireless communication proximity of TH CLIENT. A delay mechanism (e.g., implemented in Test Harness software) is required to validate DUT conformance with the Zone Status Change Notification Command's Delay attribute field.	The TH CLIENT shall be observing the communication over the air interface.
P4	The device manufacturer SHALL indicate in the PICS which enrollment methods it supports: <ul style="list-style-type: none"> i. Trip-to-pair AND Auto-Enroll-Response, OR ii. Auto-Enroll-Request 	The DUT SERVER shall implement either of the enrollment methods.

--- End of test case IASZ-TC-02S preparation ---

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231 **5.3.2.5 Test procedure**

IASZ-TC-02S: Device Enrollment with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
Trip to pair method			
1a	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>write attributes</i> command frame to DUT SERVER to write the <i>IAS_CIE_Address</i> attribute on DUT with its EUI 64.	DUT SERVER unicasts a ZCL <i>write attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
1b	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>IAS_CIE_Address</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>IAS_CIE_Address</i> on DUT SERVER shall match the value written by the TH CLIENT.
2	IASZ.S.C01.T x	Prompt the user to trigger a change on the DUT that causes it to generate a <i>Zone Enroll Request</i> command.	DUT SERVER sends <i>Zone Enroll Request</i> command to TH CLIENT only after operator triggers a state change on the DUT.
3a	IASZ.S.C00.R sp	TH CLIENT sends a <i>Zone Enroll Response</i> command with Enroll Response Code equal to Success (0x00) to DUT SERVER.	If requested, DUT SERVER unicasts a ZCL <i>default response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
3b	IASZ.S.A0000	After 5s after step 3a: TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>ZoneState</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>ZoneState</i> attribute on DUT shall be equal to 0x01 (enrolled). DUT data polls at least once every seven seconds throughout the enrollment process.

IASZ-TC-02S: Device Enrollment with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
3c	IASZ.S.A0011	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>ZoneID</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). ZoneID attribute on DUT shall be equal to the value provided in the <i>Zone Enroll Response</i> from the TH CLIENT in step 3a.
4		Prompt the operator to factory reset the DUT.	None. Note: DUT is in a factory default state.
Auto-Enroll- Response method			
5a	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>write attributes</i> command frame to DUT SERVER to write the <i>IAS_CIE_Address</i> attribute on DUT with its EUI 64.	DUT SERVER unicasts a ZCL <i>write attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
5b	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>IAS_CIE_Address</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>IAS_CIE_Address</i> on DUT SERVER shall match the value written by the TH CLIENT.

IASZ-TC-02S: Device Enrollment with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
6a	IASZ.S.C00.R sp	TH CLIENT sends a <i>Zone Enroll Response</i> command with Enroll Response Code equal to Success (0x00) to DUT SERVER.	If requested, DUT SERVER unicasts a <i>ZCL default response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
6b	IASZ.S.A0000	After 5s after step 6a: TH CLIENT unicasts a <i>ZCL read attributes</i> command frame to DUT SERVER to read the <i>ZoneState</i> attribute on DUT.	DUT SERVER unicasts a <i>ZCL read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>ZoneState</i> attribute on DUT shall be equal to 0x01 (enrolled). DUT data polls at least once every seven seconds throughout the enrollment process.
6c	IASZ.S.A0011	TH CLIENT unicasts a <i>ZCL read attributes</i> command frame to DUT SERVER to read the <i>ZoneID</i> attribute on DUT.	DUT SERVER unicasts a <i>ZCL read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>ZoneID</i> attribute on DUT shall be equal to the value provided in the <i>Zone Enroll Response</i> from the TH CLIENT in step 6a.
7		Prompt the operator to factory reset the DUT.	None. Note: DUT is in a factory default state.
Auto-Enroll-Request			

IASZ-TC-02S: Device Enrollment with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
8a	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>write attributes</i> command frame to DUT SERVER to write the <i>IAS_CIE_Address</i> attribute on DUT with its EUI 64.	DUT SERVER unicasts a ZCL <i>write attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
8b	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>IAS_CIE_Address</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>IAS_CIE_Address</i> on DUT SERVER shall match the value written by the TH CLIENT.
9	IASZ.S.C01.Tx	None.	Within 30 seconds, DUT sends Zone Enroll Request.
10a	IASZ.S.C00.Rsp	TH CLIENT sends a <i>Zone Enroll Response</i> command with Enroll Response Code equal to Success (0x00) to DUT SERVER.	If requested, DUT SERVER unicasts a ZCL <i>default response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
10b	IASZ.S.A0000	<i>After 5s after step 10a:</i> TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>ZoneState</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>ZoneState</i> attribute on DUT shall be equal to 0x01 (enrolled). DUT data polls at least once every seven seconds throughout the enrollment process.

IASZ-TC-02S: Device Enrollment with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
10c	IASZ.S.A0011	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>ZoneID</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). ZoneID attribute on DUT shall be equal to the value provided in the <i>Zone Enroll Response</i> from the TH CLIENT in step 10a.
11a	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>write attributes</i> command frame to DUT SERVER to write the <i>IAS_CIE_Address</i> attribute on DUT with a value other than its own EUI 64.	DUT SERVER unicasts a ZCL <i>write attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
11b	IASZ.S.A0010	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>IAS_CIE_Address</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). <i>IAS_CIE_Address</i> on DUT SERVER shall not match the value written by the TH CLIENT.

--- End of test case IASZ-TC-02S ---

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5.3.3 IASZ-TC-03S: IAS Zone Servers common tests

234 This test case verifies the primary functionality of the *IAS Zone* cluster server in respect to
 235 sending respective events to Test Harness Client as they occur.

236 5.3.3.1 Scope

237 General:

- 238 • *Read attributes* command (0x00)
- 239 • *Read attributes response* command (0x01)
- 240 • *Write attributes* command (0x02)
- 241 • *Write attributes response* command (0x04)



242 *IAS Zone* cluster (0x0500):

- 243 • *ZoneType* attribute (0x0001)
- 244 • *ZoneStatus* attribute (0x0002)
- 245 • *CurrentZoneSensitivityLevel* attribute (0x0013)
- 246 • *NumberOfZoneSensitivityLevelsSupported* attribute (0x0012)
- 247 • *Zone Status Change Notification* command (0x00)
- 248 • *Initiate Test Mode* command (0x02)

249 PICS:

- 250 • IASZ.S
- 251 • IASZ.S.A0001, IASZ.S.A0002, IASZ.S.A0013, IASZ.S.A0012
- 252 • IASZ.S.C00.Tx, IASZ.S.C01.Rsp, IASZ.S.C02.Rsp

253 **5.3.3.2 Required devices**

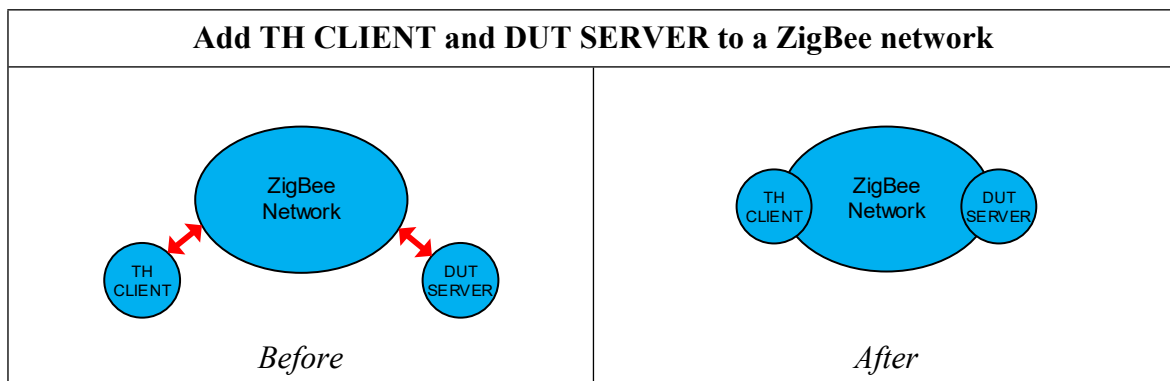
Designation	Symbol	Description
TH CLIENT		Test harness client implementing: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster client.
DUT SERVER		Device under test server: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster server.

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255 **5.3.3.3 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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257 **5.3.3.4 Test preparation**

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IASZ-TC-03S: Primary Functionality with server as a 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 IASZ-TC-03S preparation ---

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261 **5.3.3.5 Test procedure**

IASZ-TC-03S: Primary Functionality with server as a DUT			
Item	PICS	Test Harness Step	DUT pass Verification
1	IASZ.S.A0001	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>ZoneType</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). DUT responds with a valid and accurate <i>ZoneType</i> attribute based on the device's functionality.
2a	IASZ.S.C00.Tx, IASZ.S.A0002	None.	If implemented, DUT activates Zone sensor Alarm1 condition to “alarmed”

IASZ-TC-03S: Primary Functionality with server as a DUT			
Item	PICS	Test Harness Step	DUT pass Verification
2b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit0 set to 1.
3a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT activates Zone sensor Alarm2 condition to “alarmed”
3b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit1 set to 1.
4a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT activates Zone sensor Tamper condition to “Tampered”
4b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit2 set to 1.
5a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT activates Zone sensor Battery condition to “Low Battery”
5b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit3 set to 1.
6a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT sets “Supervision Reports” bit to “True” on the <i>ZoneStatus</i> attribute.
6b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends a <i>ZoneStatusChangeNotification</i> message periodically with no change in the <i>ZoneStatus</i> , if the DUT is left idle. The period of the messages is determined by the DUT implementation.
7a	IASZ.S.C00.T x, IASZ.S.A0002	None.	(If implemented) DUT sets “Restore Reports” bit to “True” on the <i>Zone Status</i> attribute.
7b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT changes the Alarm1 sensor state from “alarmed” to “not alarmed”.

IASZ-TC-03S: Primary Functionality with server as a DUT			
Item	PICS	Test Harness Step	DUT pass Verification
7c	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends a <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit0 set to 0.
8a	IASZ.S.C00.T x, IASZ.S.A0002	None.	(If implemented) DUT sets “Restore Reports” bit to “True” on the <i>Zone Status</i> attribute.
8b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT changes the Alarm2 sensor state from “alarmed” to “not alarmed”.
8c	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends a <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit1 set to 0.
9a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT activates zone sensor Trouble condition to “Trouble/Failure”.
9b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends a <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit6 set to 1.
10a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT activates zone sensor AC/Mains condition to “AC/Mains Fault”
10b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends a <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit7 set to 1.
11a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT activates zone sensor Test condition so that “Test” bit = TRUE
11b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends a <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit8 set to 1.
12a	IASZ.S.C00.T x, IASZ.S.A0002	None.	If implemented, DUT activates zone sensor Battery Defect condition so that “Battery Defect” bit = TRUE
12b	IASZ.S.C00.T x, IASZ.S.A0002	None.	DUT sends a <i>Zone Status Change Notification Command</i> with <i>Zone Status</i> bit9 set to 1.

IASZ-TC-03S: Primary Functionality with server as a DUT			
Item	PICS	Test Harness Step	DUT pass Verification
13a	IASZ.S.C00.Tx, IASZ.S.A0002	(Optional) Test Harness implements a delay mechanism such that the time of event detection and transmission between the TH CLIENT and the DUT SERVER is delayed in order to provide a non-zero value for the Delay field of a <i>Zone Status Change Notification</i> message.	DUT activates zone sensor condition to “alarmed”
13b	IASZ.S.C00.Tx, IASZ.S.A0002	None.	DUT sends a <i>Zone Status Change Notification Command</i> with non-zero <i>Zone Status</i> and an accurate Delay attribute
14a	IASZ.S.C00.Tx, IASZ.S.A0013 , IASZ.S.A0002 , IASZ.S.C02.Rsp	If supported, TH CLIENT sends <i>Initiate Test Mode</i> command with a Test Mode Duration value equal to 30 seconds and Current Zone Sensitivity equal to 0x02.	DUT sends <i>Zone Status Change Notification</i> command with Test bit set to 1 (i.e., test mode).
14b	IASZ.S.C00.Tx, IASZ.S.A0013 , IASZ.S.A0002 , IASZ.S.C02.Rsp	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>CurrentZoneSensitivityLevel</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). DUT responds with <i>CurrentZoneSensitivityLevel</i> attribute equal to 0x02.
15	IASZ.S.C00.Tx, IASZ.S.A0002 , IASZ.S.C01.Rsp,	If supported, TH CLIENT sends <i>Initiate Normal Operation Mode</i> command within the 30-second duration provided in the previous test case.	DUT sends <i>Zone Status Change Notification</i> command with Test bit set to zero (i.e., normal operation mode).

IASZ-TC-03S: Primary Functionality with server as a DUT			
Item	PICS	Test Harness Step	DUT pass Verification
16a	IASZ.S.A0013 , IASZ.S.A0012	If supported, TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>NumberOfZoneSensitivityLevelsSupported</i> attribute.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS).
16b	IASZ.S.A0013 , IASZ.S.A0012	TH CLIENT writes <i>CurrentZoneSensitivityLevel</i> attribute to highest sensitivity level returned by the DUT in <i>NumberOfZoneSensitivityLevelsSupported</i> Attribute in previous step.	DUT SERVER updates its <i>CurrentZoneSensitivityLevel</i> attribute to the value written by the TH CLIENT
16c	IASZ.S.A0013 , IASZ.S.A0012	TH CLIENT unicasts a ZCL <i>read attributes</i> command frame to DUT SERVER to read the <i>CurrentZoneSensitivityLevel</i> attribute on DUT.	DUT SERVER unicasts a ZCL <i>read attributes response</i> command frame to TH CLIENT with the <i>status</i> field equal to 0x00 (SUCCESS). DUT responds with <i>CurrentZoneSensitivityLevel</i> written in previous step.
17	IASZ.S.C00.Tx, IASZ.S.A0002 , IASZ.S.C02.Tx,	If supported, TH CLIENT sends <i>Initiate Test Mode</i> command with a Test Mode Duration value equal to 30 seconds and <i>Current Zone Sensitivity</i> equal to 0x00 (i.e., default sensitivity).	DUT sends <i>Zone Status Change Notification</i> command with Test bit set to 1 (i.e., test mode).

IASZ-TC-03S: Primary Functionality with server as a DUT			
Item	PICS	Test Harness Step	DUT pass Verification
18a	IASZ.S.C00.T _x , IASZ.S.A0002	If supported, prompt the operator to causes DUT to send a <i>Zone Status Change Notification</i> command (e.g., opening the DUT, which triggers a tamper ZoneStatus change) within the 30 second Test Mode Duration window.	Within 30 seconds, DUT sends a <i>Zone Status Change Notification</i> with a ZoneStatus bit set to 1 (i.e., tamper condition detected).
18b	IASZ.S.C00.T _x , IASZ.S.A0002	Wait for 5s: Prompt the operator to restore condition that caused the DUT to send a <i>Zone Status Change Notification</i> in the first step of this item (e.g., close the DUT, which ceases the tamper condition).	DUT sends a <i>Zone Status Change Notification</i> with a ZoneStatus bit set to zero (i.e., tamper condition no longer detected).
18c	IASZ.S.C00.T _x , IASZ.S.A0002	Wait for Test Mode Duration window to complete.	After 30 seconds, DUT sends <i>Zone Status Change Notification</i> command with Test bit set to zero (i.e., normal operation mode).
19	IASZ.S.A0013 , IASZ.S.A0002	If supported, TH CLIENT reads <i>CurrentZoneSensitivityLevel</i> attribute from DUT.	DUT SERVER responds with <i>CurrentZoneSensitivityLevel</i> attribute equal to 0x00 (i.e., default).

--- End of test case IASZ -TC-03S ---

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5.4 Client test cases

5.4.1 IASZ-TC-01C: Device Enrollment with client as DUT

This case test verifies the functionality of the *IAS Zone* cluster client.

The DUT client SHALL be on the same network as a suitable server, provided by the user, and this device SHALL be used by the client to exercise its functionality. The test case uses the test harness to prompt the user, based on the declared PICS, to exercise the functionality of the *IAS Zone* cluster client and to verify the results. A sniffer tool SHALL be used to log the exercised functionality and to determine its validity.

In this test case, the PICS notation *IASZ.C.Cd,Tx* represents the list of commands that are declared as being transmitted by the DUT.

5.4.1.1 Scope

General:

- *Write attributes* command (0x02)
- *Write attributes response* command (0x04)



IAS Zone cluster (0x0500):

- *IAS_CIE_Address* attribute (0x0010)
- *ZoneID* attribute (0x0011)
- *Zone Enroll Response* command (0x00)
- *Zone Enroll Request* command (0x01)

PICS:

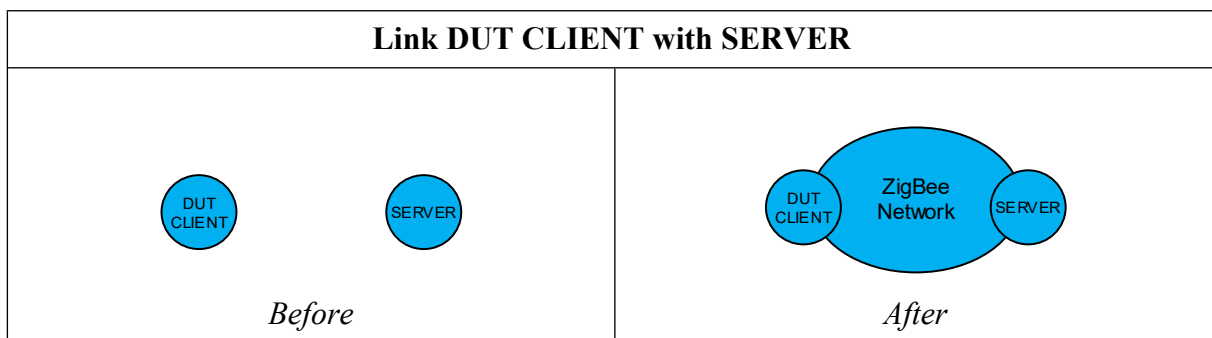
- IASZ.C
- IASZ.S.A0010, IASZ.S.A0011
- IASZ.C.C00.Tx
- IASZ.C.C01.Rsp

308 **5.4.1.2 Required devices**

Designation	Symbol	Description
DUT CLIENT		Device under test client implementing: <ul style="list-style-type: none"> The <i>IAS Zone</i> cluster client.
SERVER		Suitable server device implementing: <ul style="list-style-type: none"> The <i>IAS Zone</i> cluster server.

309 **5.4.1.3 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.

310 **5.4.1.4 Test preparation**

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IASZ-TC-01C: Device Enrollment with client as DUT		
Item	Preparation Step	Observation
P1	Power on the DUT CLIENT device and the TH SERVER device.	DUT CLIENT and TH SERVER are powered on.
P2	The DUT CLIENT shall be in wireless communication proximity of TH SERVER.	The TH SERVER shall be observing the communication over the air interface.

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

312 **5.4.1.5 Test procedure**

IASZ-TC-01C: Device Enrollment with client as DUT			
Item	PICS	Test Harness Step	DUT Pass Verification
Trip-to-pair enrolment			

IASZ-TC-01C: Device Enrollment with client as DUT			
Item	PICS	Test Harness Step	DUT Pass Verification
1a	IASZ.S.A0010	Initiate enrollment process on the TH SERVER	DUT CLIENT writes the <i>IAS_CIE_Address</i> attribute on TH SERVER with its EUI-64.
1b	IASZ.S.A0010	TH SERVER sends a write attributes response with status code equals SUCCESS (0x00)	If requested, DUT CLIENT sends a <i>default response</i> command
2	IASZ.C.C00.T _x , IASZ.S.A0011	Test Harness sends a Zone Enroll Request command.	DUT sends a Zone Enroll Response command with status equal to 0x00 (success) and a valid ZoneID.
Auto-Enroll-Response			
3a	IASZ.S.A0010	Return the Test Harness to a “factory default state” by clearing any settings from the previous test case steps.	None.
3b	IASZ.S.A0010	Initiate Enrollment on the TH SERVER	DUT writes the <i>IAS_CIE_Address</i> attribute on Test Harness with its EUI-64.
4a	IASZ.C.C00.T _x , IASZ.S.A0011	None.	DUT sends a Zone Enroll Response command with status equal to 0x00 (success) and a valid ZoneID.
4b	IASZ.C.C00.T _x , IASZ.S.A0011	If requested, TH SERVER sends a <i>default response</i> command to the DUT CLIENT	None.
Auto-Enroll-Request			
5a	IASZ.S.A0010	Return the Test Harness to a “factory default state” by clearing any settings from the previous test case steps.	None.

IASZ-TC-01C: Device Enrollment with client as DUT			
Item	PICS	Test Harness Step	DUT Pass Verification
5b	IASZ.S.A0010	Initiate Enrollment on the TH SERVER	DUT writes the <i>IAS_CIE_Address</i> attribute on Test Harness with its EUI-64.
6	IASZ.C.C00.Tx, IASZ.S.A0011	Test Harness sends a Zone Enroll Request command to the DUT.	DUT sends a Zone Enroll Response command with status equal to 0x00 (success) and a valid ZoneID.

--- End of test case IASZ-TC-01C ---

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5.4.2 IASZ-TC-02C: Primary Functionality with client as DUT

This case test verifies the primary functionality of the *IAS Zone* cluster client.

The DUT client SHALL be on the same network as a suitable server, provided by the user, and this device SHALL be used by the client to exercise its functionality. The test case uses the test harness to prompt the user, based on the declared PICS, to exercise the functionality of the *IAS Zone* cluster client and to verify the results. A sniffer tool SHALL be used to log the exercised functionality and to determine its validity.

In this test case, the PICS notation IASZ.C.Cd,Rsp represents the list of commands that are declared as being received by the DUT.

5.4.2.1 Scope

General:

- *Read attributes* command (0x00)
- *Read attributes response* command (0x01)



IAS Zone cluster (0x0500):

- *Zone Status Change Notification* command (0x00)
- *ZoneType* attribute (0x0001)
- *ZoneStatus* attribute (0x0002)
- *ZoneState* attribute (0x0000)

PICS:

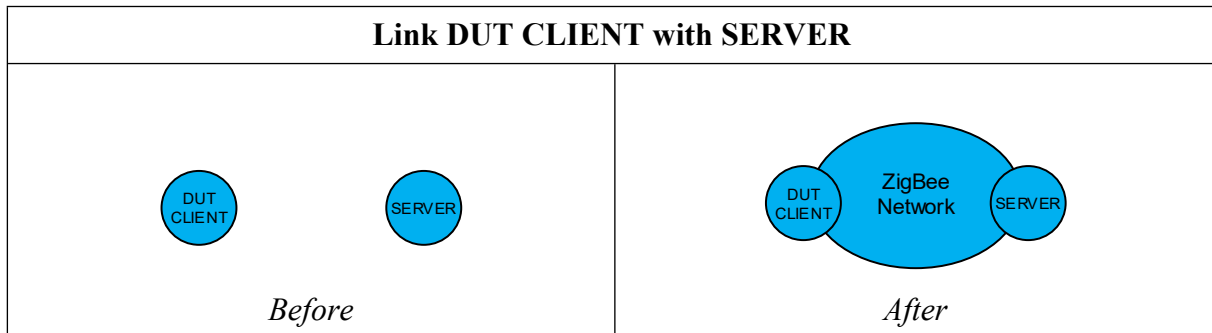
- IASZ.C
- IASZ.S.A0000, IASZ.S.A0001, IASZ.S.A0002
- IASZ.C.C00.Rsp

5.4.2.2 Required devices

Designation	Symbol	Description
DUT CLIENT		Device under test client implementing: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster client.
SERVER		Suitable server device implementing: <ul style="list-style-type: none"> • The <i>IAS Zone</i> cluster server.

339 **5.4.2.3 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.

340 **5.4.2.4 Test preparation**

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IASZ-TC-02C: Primary Functionality with client as DUT		
Item	Preparation Step	Observation
P1	Power on the DUT CLIENT device and the SERVER device.	DUT CLIENT and SERVER are powered on.
P2	Ensure the DUT CLIENT device and the SERVER device are on the same ZigBee network.	Observe appropriate communication between DUT CLIENT, SERVER and any other relevant node on the ZigBee network.

--- End of test case IASZ-TC-02C preparation ---

342 **5.4.2.5 Test procedure**

IASZ-TC-01C: Primary Functionality with client as DUT			
Item	PICS	Test Harness Step	DUT Pass Verification
1	IASZ.C.C00.R sp	TH SERVER sends a <i>Zone Status Change Notification</i> command to the DUT for all relevant Zone Status values (Zone Status bits supported by DUT such as Alarm1 bit = TRUE, Tamper bit = TRUE, etc.).	DUT CLIENT provides audible or visual indication of the receipt of this message.

IASZ-TC-01C: Primary Functionality with client as DUT			
Item	PICS	Test Harness Step	DUT Pass Verification
2a	IASZ.S.A0010	None.	DUT CLIENT reads the <i>IAS_CIE_Address</i> attribute on the TH SERVER.
2b		TH SERVER sends a ZCL <i>read attribute response</i> with <i>IAS_CIE_Address</i> attribute.	If requested DUT CLIENT sends a <i>default response</i> command.
3a	IASZ.S.A0000 , IASZ.S.A0001 , IASZ.S.A0002	None.	DUT CLIENT send ZCL <i>read attributes</i> command to TH SERVER to read the mandatory attributes on the Test Harness. (<i>ZoneState</i> , <i>ZoneType</i> , <i>ZoneStatus</i> attributes)
3b	IASZ.S.A0000 , IASZ.S.A0001 , IASZ.S.A0002	TH SERVER sends a ZCL <i>read attribute response</i> with <i>ZoneState</i> , <i>ZoneType</i> , <i>ZoneStatus</i> attributes	If requested DUT CLIENT sends a <i>default response</i> command.

--- End of test case IASZ-TC-02C ---

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6 Annex A: PICS to test case cross reference

345 6.1 Server

PICS	Test case			
	IASZ-TC-01G	IASZ-TC-01S	IASZ-TC-02S	IASZ-TC-03S
IASZ.S	X	X	X	X
IASZ.TTP			X	
IASZ.ARSP			X	
IASZ.AREQ			X	
IASZ.S.A0000		X	X	
IASZ.S.A0001		X		X
IASZ.S.A0002		X		X
IASZ.S.A0010		X	X	
IASZ.S.A0011		X	X	
IASZ.S.A0012		X		X
IASZ.S.A0013		X		X
IASZ.S.C00.Tx				X
IASZ.S.C01.Tx			X	
IASZ.S.C00.Rsp			X	
IASZ.S.C01.Rsp				X
IASZ.S.C02.Rsp				X
IASZ.S.Afffd	X			
IASZ.S.Afffe	X			

346 6.2 Client

PICS	Test case		
	IASZ-TC-01G	IASZ-TC-01C	IASZ-TC-02C
IASZ.C	X		
IASZ.TTP		X	
IASZ.ARSP		X	
IASZ.AREQ		X	
IASZ.C.C00.Rsp			X
IASZ.C.C01.Rsp		X	
IASZ.C.C01.Tx		X	

PICS	Test case		
	IASZ-TC-01G	IASZ-TC-01C	IASZ-TC-02C
IASZ.C.Afffd	X		
IASZ.C.Afffe	X		

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