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ZigBee Cluster Library IAS WD Cluster (0x0502) Test Specification Version 0.9

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

Keywords ZCL, IAS WD, cluster

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Revision history

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001	June 5 th , 2017	Resolves comments from the 0.9 ballot.	Phil Jamieson

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1 Introduction

This document contains the PICS, test specification and PICS/test case cross reference for the ZCL *IAS WD* 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].

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 WD 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

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

3.1 Usage

Item number	Feature	Reference	Status	Support
IASWD.S	Does the device implement the <i>IAS WD</i> cluster as a server?	8.4.2	O	Yes/No
IASWD.C	Does the device implement the <i>IAS WD</i> cluster as a client?	8.4.3	O	Yes/No

3.2 Server

3.2.1 Attributes

Item number	Feature	Reference	Status	Support
IASWD.S.A0000	Does the device implement the <i>MaxDuration</i> attribute?	8.4.2.2.1	IASWD.S: M	Yes/No
IASWD.S.Afffd	Does the device implement the <i>ClusterRevision</i> global attribute?	Table 2-1, 2.3.5.1.1	IASWD.S: M	Yes/No
IASWD.S.Afffe	Does the device implement the <i>AttributeReportingStatus</i> global attribute?	Table 2-1, 2.3.5.1.2	IASWD.S: O	Yes/No

3.2.2 Commands received

Item number	Feature	Reference	Status	Support
IASWD.S.C00.Rsp	Does the device implement receiving the <i>Start Warning</i> command?	8.4.2.3.1	IASWD.S: M	Yes/No
IASWD.S.C01.Rsp	Does the device implement receiving the <i>Squawk</i> command?	8.4.2.3.2	IASWD.S: M	Yes/No

3.2.3 Commands sent

No cluster specific commands are generated by the server cluster

3.3 Client

The client receives no cluster specific commands.

3.3.1 Attributes

Item number	Feature	Reference	Status	Support
IASWD.C.Afffd	Does the device implement the <i>ClusterRevision</i> global attribute?	Table 2-1, 2.3.5.1.1	IASWD.C: M	Yes/No
IASWD.C.Afffe	Does the device implement the <i>AttributeReportingStatus</i> global attribute?	Table 2-1, 2.3.5.1.2	IASWD.C: O	Yes/No

3.3.2 Commands received

The client receives no cluster specific commands.

3.3.3 Commands sent

Item number	Feature	Reference	Status	Support
IASWD.C.C00.Tx	Does the device implement sending the <i>Start Warning</i> command?	8.4.2.3.1	IASWD.C: M	Yes/No
IASWD.C.C01.Tx	Does the device implement sending the <i>Squawk</i> command?	8.4.2.3.2	IASWD.C: M	Yes/No

4 Test specification

4.1 Introduction

4.1.1 Test case overview

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

Test ID	Description	Reference
Global tests		
IASWD-TC-01G	Global attributes	4.2.1
Server side tests		
IASWD-TC-01S	Server attributes with server as DUT	4.3.1
IASWD-TC-02S	Primary functionality with server as DUT	4.3.2
Client side tests		
IASWD-TC-01C	Primary functionality with client as DUT	4.4.1

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 $\pm 15\%$ 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.

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 than verifying the attribute manipulation command in question.

4.2 Generic test cases

4.2.1 IASWD-TC-01G: Global attributes

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

4.2.1.1 Scope

General:

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



IAS WD cluster (0x0502):

- All global attributes

PICS:

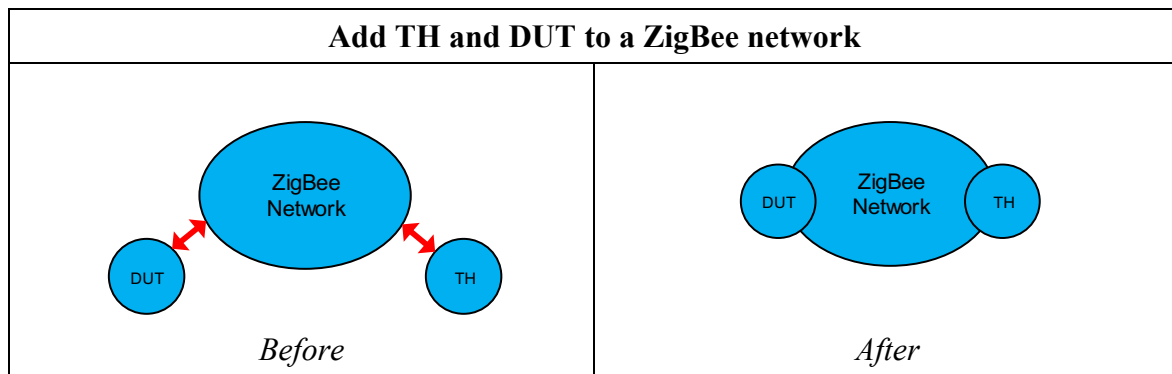
- *IASWD.S*, *IASWD.C*
- *IASWD.S.Agm*, *IASWD.C.Agm*, *IASWD.S.Ago*, *IASWD.C.Ago*

4.2.1.2 Required devices

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

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.

165 **4.2.1.4 Test preparation**

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IASWD-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 IASWD-TC-01G preparation ---

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168 **4.2.1.5 Test procedure**

IASWD-TC-01G: Global attributes			
Item	PICS	Test Harness Step	DUT pass Verification
1	IASWD.S.Ag <i>m</i> , IASWD.C.Ag <i>m</i>	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	IASWD.S.Ag <i>m</i> , IASWD.C.Ag <i>m</i>	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	IASWD.S.Ag <i>m</i> , IASWD.C.Ag <i>m</i>	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...

IASWD-TC-01G: Global attributes			
Item	PICS	Test Harness Step	DUT pass Verification
3	IASWD.S.Ag o, IASWD.C.Ag o	TH unicasts a ZCL <i>read attributes</i> command frame to DUT to read each optional global attribute of this cluster one at a time.	DUT unicasts a ZCL <i>read attributes response</i> command frame to TH containing each attribute. 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. 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	IASWD.S.Ag o, IASWD.C.Ag o	TH unicasts a ZCL <i>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.	DUT unicasts a ZCL <i>write attributes response</i> 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	IASWD.S.Ag o, IASWD.C.Ag o	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 IASWD-TC-01G ---

4.3 Server test cases

4.3.1 IASWD-TC-01S: Attributes with server as DUT

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

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

4.3.1.1 Scope

General:

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



IAS WD cluster (0x0502):

- All non-global attributes

PICS:

- *IASWD.S*,
- *IASWD.S.Am*, *IASWD.S.Ao*

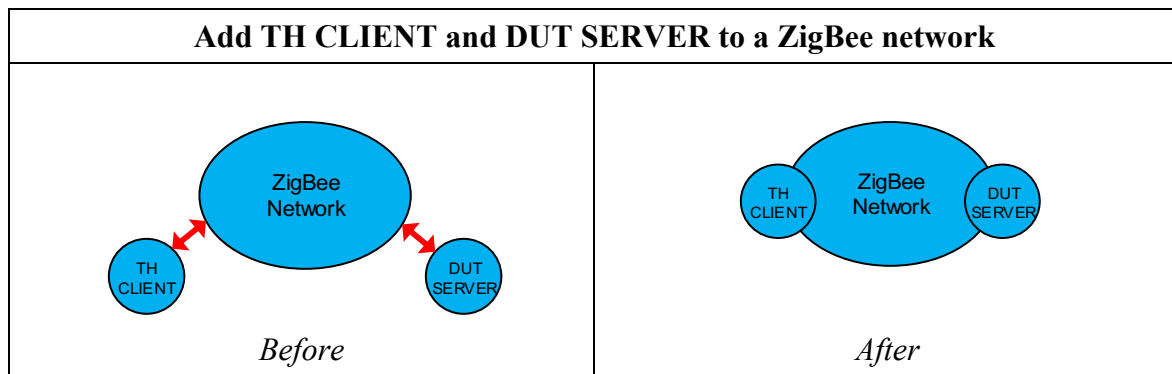
4.3.1.2 Required devices

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

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.

192 4.3.1.4 Test preparation



IASWD-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 IASWD-TC-01S preparation ---

195 **4.3.1.5 Test procedure**

IASWD-TC-01S: Attributes with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
1	IASWD.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	IASWD.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	IASWD.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...

IASWD-TC-01S: Attributes with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
3	IASWD.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	IASWD.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...

IASWD-TC-01S: Attributes with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
4b	IASWD.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 IASWD-TC-01S ---

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4.3.2 IASWD-TC-02S: Primary functionality with server as a DUT

This test case verifies the Primary Functionality process of the *IAS WD* Cluster with respect to the CIE, which in this case is the Test Harness Client.

4.3.2.1 Scope



Commands:

- *Start Warning command (0x00)*
- *Squawk command (0x01)*

PICS:

- IASWD.S

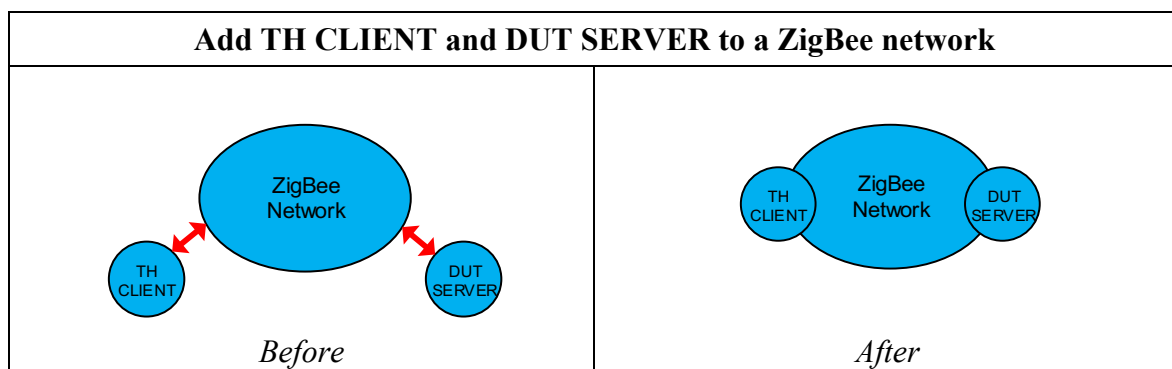
4.3.2.2 Required devices

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

4.3.2.3 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.

4.3.2.4 Test preparation



IASWD-TC-02S: Primary functionality 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.	The TH CLIENT shall be observing the communication over the air interface.

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

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213 **4.3.2.5 Test procedure**

IASWD-TC-02S: Primary functionality with server as DUT			
Item	PICS	Test Harness Step	DUT pass Verification
1	IASWD.S.C00. Rsp	TH CLIENT sends multiple <i>Warning Commands</i> and checks that DUT SERVER emits a sound during the MaxDuration time. If implemented, a siren should sound at the appropriate level indicated in the command. If implemented, a light should strobe at the frequency and intensity indicated in the command. Repeat this test for all levels of all fields in the command.	DUT SERVER receives the <i>Warning</i> command and emits a sound during MaxDuration Time, at the indicated level, and strobes light at the appropriate frequency and intensity.
2	IASWD.S.C01. Rsp	TH CLIENT sends a <i>Squawk Command</i> with strobe field set to 1 and checks that DUT SERVER emits a quick sound. If implemented, a light should strobe in parallel. Repeat test for all fields at all values.	DUT SERVER receives the <i>Squawk</i> command and emits a quick sound (and strobe light if implemented).
3	IASWD.S.C00. Rsp	TH CLIENT sends a Start Warning Command to DUT SERVER with a Siren Level of “low level sound” (0x00), a Strobe Duty Cycle of 50 (0x32), and a Strobe Level of “low level strobe” (0x00).	DUT SERVER successfully receives the Start Warning command and saves all defined parameters. If able, observe strobe duty cycle of a ½ second, low siren volume and medium strobe level.

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

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4.4 Client test cases

4.4.1 IASWD-TC-01C: Primary functionality with client as DUT

This case test verifies the functionality of the *IAS WD* 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 WD* 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 IASWD.C.Cd,Tx represents the list of commands that are declared as being transmitted by the DUT.

Scope



IAS WD cluster (0x0500):

- *Start Warning* command (0x00)
- *Squawk* command (0x01)

PICS:

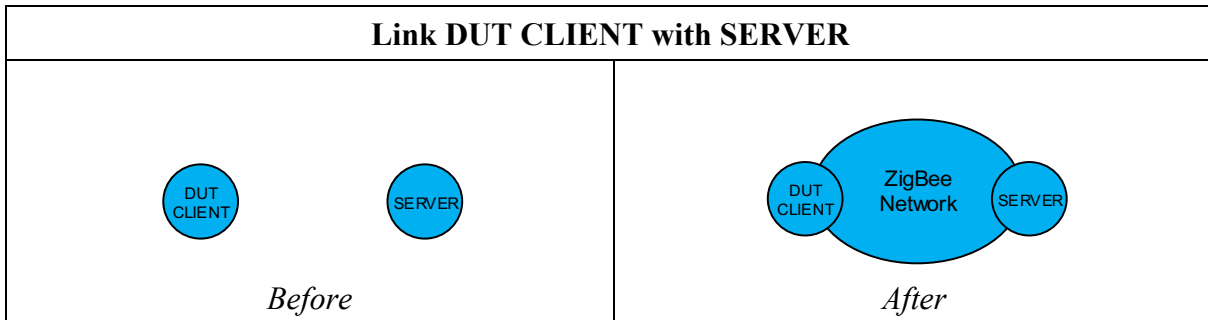
- IASWD.C
- IASWD.C.C00.Tx
- IASWD.C.C01.Tx

Required devices

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

236 **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.

237 **Test preparation**

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IASWD-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 IASWD-TC-01C preparation ---

239 **Test procedure**

IASWD-TC-01C: Primary functionality with client as DUT			
Item	PICS	Test Harness Step	DUT Pass Verification
1	IASWD.C.C0 0.Tx	DUT CLIENT sends a Start Warning Command to TH SERVER	DUT CLIENT is capable of sending Start Warning command
2	IASWD.C.C0 1.Tx	DUT CLIENT sends a Squawk command to TH SERVER	DUT CLIENT is capable of sending Squawk command

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

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5 Annex A: PICS to test case cross reference

5.1 Server

PICS	Test Case		
	IASWD-TC-01G	IASWD-TC-01S	IASWD-TC-02S
IASWD.S	X	X	X
IASWD.S.A0000		X	
IASWD.S.Afffd	X		
IASWD.S.Afffe	X		
IASWD.S.C00			X
IASWD.S.C01			X

5.2 Client

PICS	Test Case	
	IASWD-TC-01G	IASWD-TC-01C
IASWD.C	X	X
IASWD.C.Afffd	X	
IASWD.C.Afffe	X	
IASWD.S.C00		X
IASWD.S.C01		X