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### **ZigBee PRO Green Power feature Protocol Implementation Conformance (PICS) Proforma Basic functionality set Version 1.0**

ZigBee Document 15-0006-11

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Abstract                              This document contains the PICS proforma of the Green Power feature.

Keywords                            ZigBee, Green Power, Battery-less, Energy Harvesting, Green Power stub, Green Power Cluster, Green Power Basic

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# 1 References

The following standards contain provisions, which, through reference in this document, constitute provisions of this standard. All the standards listed are normative references. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

## 1.1 ZigBee Alliance documents

- [R1] ZigBee document 053474r21: ZigBee Specification 2015
- [R2] ZigBee document 08006r03: ZigBee 2007 Layer PICS and Stack Profiles
- [R3] ZigBee document 075123r04, ZigBee Cluster Library Specification
- [R4] ZigBee document 14-0563r16: Green Power Basic specification
- [R5] ZigBee document 15-0015r12: Green Power Basic test specification
- [R6] ZigBee document 064113r08: ZigBee Cluster Library PICS
- [R7] ZigBee document 15-02016, Errata for Green Power Basic PICS
- [R8] ZigBee document 15-00000, GP Basic PICS to test case mapping

## 1.2 IEEE documents

- [R9] IEEE Standard for Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) specifications for Low Rate Wireless Personal Area Networks (LR-WPANs), 2003.

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## 2 Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a given standard. Such a statement is called a protocol implementation conformance statement (PICS).

### 2.1 Scope

This document provides the protocol implementation conformance statement (PICS) proforma for the ZigBee specifications cited in Reference [R4] in compliance with the relevant requirements.

This document addresses the Green Power feature of the ZigBee core stack, together with the necessary cluster-level components (Green Power cluster).

### 2.2 Purpose

The supplier of a protocol implementation claiming to conform to the Green Power feature shall complete the following PICS proforma and accompany it with the information necessary to identify fully both the supplier and the implementation.

The PICS is in the form of answers to a set of questions in the PICS proforma. The questions in a proforma consist of a systematic list of protocol capabilities and options as well as their implementation requirements. The implementation requirement indicates whether implementation of a capability is mandatory, optional, or conditional depending on options selected. When a protocol implementer answers questions in a PICS proforma, they would indicate whether an item is implemented or not, and provide explanations if an item is not implemented.

### 3 Green Power certification status

The current status of the certification and golden unit availability for GreenPower functionality is listed in the tables below.

According to the current version of this specification, only the following GPI device types can be certified: GP Proxy Basic, GP Combo Basic, GP Commissioning Tool.

#### 3.1 Not certified GP functionality

Note: this section reflects the functionality status AFTER this specification is approved.

**Table 1 – Not certified GP functionality**

| Item number   | Item description  | Reference    |
|---|---|--------------|
| GPPCSF5<br>GPPCCF5  | Full unicast communication functionality                                | [R4] A.3.2.8 |
| GPPCSF7<br>GPPCCF7<br>GPF9D-E<br>GPF10A-B<br>GPF100<br>GPF102<br>GPF108 | Proximity bidirectional operation functionality                         | [R4] A.3.2.8 |
| GPPCSF8<br>GPPCCF8<br>GPF9D-E<br>GPF10A-B<br>GPF100<br>GPF102<br>GPF108 | Multi-hop bidirectional operation functionality                         | [R4] A.3.2.8 |
| GPPCSF9<br>GPPCCF9  | Proxy Table maintenance (active and passive) functionality              | [R4] A.3.2.8 |
| GPPCSF13<br>GPPCCF13<br>GPF9D-E<br>GPF10A-B<br>GPF100<br>GPCF7          | Maintenance of GPD (deliver channel/key during operation) functionality | [R4] A.3.2.8 |
| GPPCSF18  | Sink Table-based groupcast forwarding functionality                     | [R4] A.3.2.8 |
| GPD1<br>GPS1B   | GP Simple Generic 2-state Switch  | [R4] A.4.3   |
| GPD3<br>GPS3  | GP Level Control Switch   | [R4] A.4.3   |
| GPD4<br>GPS4  | GP Simple Sensor  | [R4] A.4.3   |
| GPD6<br>GPS14B  | GP Advanced Generic 2-state Switch                                      | [R4] A.4.3   |
| GPD10<br>GPS5   | GP Color Dimmer Switch  | [R4] A.4.3   |
| GPD11<br>GPS6   | GP Light Sensor   | [R4] A.4.3   |
| GPD12<br>GPS7   | GP Occupancy Sensor   | [R4] A.4.3   |
| GPD20<br>GPS8   | GP Door Lock Controller   | [R4] A.4.3   |
| GPD30<br>GPS9   | GP Temperature Sensor   | [R4] A.4.3   |



| Item number                   | Item description             | Reference  |
|-------------------------------|------------------------------|------------|
| GPD31<br>GPS10                | GP Pressure Sensor           | [R4] A.4.3 |
| GPD32<br>GPS11                | GP Flow Sensor               | [R4] A.4.3 |
| GPD33<br>GPS12, GPS9,<br>GPS6 | GP Indoor Environment Sensor | [R4] A.4.3 |

### 3.2 Certified GP functionality

**Table 2 – To-date certified device types**

| Item number | Item description  | Reference         |
|-------------|---|-------------------|
| GPDT0       | Green Power Device (GPD) functionality                          | [R4] A.1.6, A.1.7 |
| GPDT2B      | GP proxy functionality of Green Power Proxy Basic (GPPB) device | [R4] A.3.2.6      |
| GPDT2CB     | GP proxy functionality of Green Power Combo Basic (GPCB) device | [R4] A.3.2.7      |
| GPDT3CB     | GP sink functionality of Green Power Combo Basic (GPCB) device  | [R4] A.3.2.7      |

**Table 3 – To-date certified GP functionality**

| Item number   | Item description   | Reference    |
|---|--|--------------|
| GPPCSF1<br>GPPCCF1  | GP feature   | [R4] A.3.2.8 |
| GPPCSF2<br>GPPCCF2<br>GPF4A GPF4C   | Direct communication (via GP stub) functionality                         | [R4] A.3.2.8 |
| GPPCSF3<br>GPPCCF3  | Derived groupcast communication functionality                            | [R4] A.3.2.8 |
| GPPCSF4<br>GPPCCF4  | Pre-commissioned groupcast communication functionality                   | [R4] A.3.2.8 |
| GPPCSF6<br>GPPCCF6  | Lightweight unicast communication functionality                          | [R4] A.3.2.8 |
| GPPCSF10<br>GPPCCF10<br>GPCF4GPCF1<br>GPCF2<br>GPF4A-D<br>GPF9A-C<br>GPF10C-E<br>GPCF10<br>GPCF11<br>GPCF12B<br>GPCF13B     | Proximity commissioning (unidirectional and bidirectional) functionality | [R4] A.3.2.8 |
| GPPCSF11<br>GPPCCF11<br>GPCF4<br>GPCF1<br>GPCF2<br>GPF4A-D<br>GPF9A-C<br>GPF10C-E<br>GPCF10<br>GPCF11<br>GPCF12B<br>GPCF13B | Multi-hop commissioning (unidirectional and bidirectional) functionality | [R4] A.3.2.8 |

| Item number                                  | Item description   | Reference           |
|--|--|---------------------|
| GPPCSF12<br>GPPCCF12<br>GPPCC151<br>GPPCS110 | CT-based commissioning functionality   | [R4] A.3.2.8        |
| GPPCSF14<br>GPPCCF14<br>GPF8                 | gpdSecurityLevel = 0b00 functionality<br><i>Note: According to the current version of the specification, only GPD that support gpdSecurityLevel = 0b10 or higher AND support TC-LK protection (as indicated by the GPDkeyEncryption sub-field of the Extended Options field of the GPD Commissioning command) of the GPD key, if exchanged over the air, can be certified.</i> | [R4] A.3.2.8        |
| GPPCSF15<br>GPPCCF15<br>GPF7                 | gpdSecurityLevel = 0b01 functionality (deprecated)   | [R4] A.3.2.8        |
| GPPCSF16<br>GPPCCF16<br>GPF6                 | gpdSecurityLevel = 0b10 functionality  | [R4] A.3.2.8        |
| GPPCSF17<br>GPPCCF17<br>GPF5                 | gpdSecurityLevel = 0b11 functionality  | [R4] A.3.2.8        |
| GPPCSF19                                     | Translation Table functionality  | [R4] A.3.2.8        |
| GPPCSF20<br>GPPCCF20<br>GPF4D<br>GPF4B       | GPD IEEE address functionality   | [R4] A.3.2.8        |
| GPCF12B<br>GPCF13B                           | TC-LK encryption of the GPD key exchanged during commissioning   | [R4] A.3.9, A.1.5.9 |
| GPD2<br>GPS2                                 | GP On/Off switch functionality   | [R4] A.4            |
| GPD0<br>GPS1A                                | GP Simple Generic 1-state Switch   | [R4] A.4.3          |
| GPD5<br>GPS14A                               | GP Advanced Generic 1-state Switch   | [R4] A.4.3          |

## 4 Abbreviations and special symbols

Notations for requirement status:

|                    |   |
|--------------------|---|
| M                  | Mandatory   |
| O                  | Optional  |
| O.n                | Optional, but support of at least one or only one (as indicated in the footnote to the O.n label) of the group of options labeled O.n is required.<br>(Clarification - the number 'n' is a label for the group, not a count of the number of options within the group, or the ordinal number of the option within the group. All options in the group are indicated identically as O.n) |
| N/A                | Not applicable  |
| X                  | Prohibited  |
| Item label: Status | Status is conditional on support of the item with the given item label.   |

Examples

1/ If items labeled A and B are both marked "O.n" this indicates that the status is optional for both A and B, but at least one of the two features described by items A and B is required to be implemented.

2/ If m items are each marked A: O.n, this indicates that, if item A is implemented, the status is optional for all of them, but at least one of the m features described by the items is required to be implemented.

## 5 Instructions for completing the PICS proforma

If a given implementation is claimed to conform to this standard, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma in this annex, and shall preserve the numbering and naming and the ordering of the PICS proforma.

A PICS which conforms to this document shall be a conforming PICS proforma completed in accordance with the instructions for completion given in this annex.

The main part of the PICS is a fixed-format questionnaire, divided into five tables. Answers to the questionnaire are to be provided in the rightmost column, either by simply marking an answer to indicate a restricted choice (such as Yes or No), or by entering a value, set, or range of values.

## 6 Identification of the implementation

### Implementation under test (IUT) identification

IUT name: \_\_\_\_\_

IUT version: \_\_\_\_\_

### System under test (SUT) identification

SUT name: **Z3 Light Application**

Software Version: **EmberZNet 6.7.9**

Hardware Version: **EM35xx Family**

Operating system (optional): \_\_\_\_\_

ZigBee stack revision and profile (should be PRO r20 or later): **R22**

### Product supplier

Name: **Silicon Laboratories**

Address: **400 West Cesar Chavez, Austin, TX 78701**

Telephone number: **(617) 951-1226**

Facsimile number: \_\_\_\_\_

Email address: **John.Loukota@silabs.com**

Additional information: \_\_\_\_\_

### Client

Name: \_\_\_\_\_

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Additional information: \_\_\_\_\_

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Telephone number: **(617) 951-1226**

Facsimile number: \_\_\_\_\_

Email address: **John.Loukota@silabs.com**

Additional information: \_\_\_\_\_

**PICS/System conformance statement**

## 7 Identification of the protocol

This PICS proforma applies to the Green Power feature, cited in Reference [R4].

## 8 Global statement of conformance

The implementation described in this PICS proforma meets all of the mandatory requirements of the referenced standards:

Green Power – 14-0563r16

Yes

No

Note -- Answering 'No' indicates non-conformance to the specified protocol standard. Non-supported mandatory capabilities are to be identified in the following tables, with an explanation by the implementer explaining why the implementation is non-conforming.

The supplier will have fully complied with the requirements for a statement of conformance by completing the statement contained in this subclause. That means, by clicking the above, the statement of conformance is complete.



## 9 ZigBee stack profile [R2] errata

### 9.1 Modify the Table in “8.6.3.1.5 ZigBee Device Objects functions”, p.89, of 08006r03

#### 9.1.1 After AZD18, add

|       |  |          |   |   |
|-------|--|----------|---|---|
| AZD19 | Does the device support conflict checking with its own short address, on reception of Device_annce with IEEE address 0xffffffffffffff? | [R4] A.2 | M | Y |
|-------|--|----------|---|---|

### 9.2 Modify the Table in “8.4.2.2 Network layer frames” to include alias usage for Tx and Rx, p.47,

#### 9.2.1 after NDF4, add

|      |  |            |  |   |
|------|--|------------|--|---|
| NDF5 | Does the device support reception of ZigBee NWK frames with non-incremental sequence number in the NWK header Sequence Number field? | ZigBee     | GPDT4: M   |   |
|      |  | ZigBee-ED  | M  | Y |
| NDF6 | Does the device support transmission of ZigBee NWK frames with AliasSrcAddr and AliasSeqNumb, as supplied by next higher layer?      | ZigBee     | GPDT4: O   |   |
|      |  | ZigBee-PRO | GPDT2: M<br>GPDT3t: X<br>GPDT3t+: X<br>GPDT3c: X<br>GPDT3CB: M<br>GPDT4: M | Y |

## 10 Green Power feature

The following tables are composed of the detailed questions to be answered, which make up the PICS proforma.

According to the current version of this specification, only the following GPI device types can be certified: GP Proxy Basic, GP Combo Basic, GP Commissioning Tool.

### 10.1 Green Power Device Types

Table 4 – Green Power device types

| Item number | Item description  | Reference         | Status                  | Support |
|-------------|---|-------------------|-------------------------|---------|
| GPDT0       | Does the product support GPD functionality?                             | [R4] A.1.6, A.1.7 | O.6 <sup>1</sup>        | N       |
| GPDT1       | Does the product support the functionality of GP infrastructure device? | [R4] A.3.2        | O.6                     | Y       |
| GPDT2       | Does the product support GPP functionality?                             | [R4] A.3.2.3      | GPDT1: O.7 <sup>2</sup> | Y       |
| GPDT2f      | Is the product programmed as a GPP?                                     | [R4] A.3.2.3      | GPDT2: X                |         |
| GPDT2B      | Is the product programmed as a GPPB?                                    | [R4] A.3.2.6      | GPDT2: O.8 <sup>3</sup> | Y       |
| GPDT2CB     | Is the product programmed as a GPCB?                                    | [R4] A.3.2.4      | GPDT2: O.8              |         |
| GPDT3       | Does the product support GPS functionality?                             | [R4] A.3.2        | GPDT1: O.7              |         |
| GPDT3t      | Is the product programmed as a GPT?                                     | [R4] A.3.2.1      | GPDT3: X                |         |
| GPDT3t+     | Is the product programmed as a GPT+?                                    | [R4] A.3.2.2      | GPDT3: X                |         |
| GPDT3c      | Is the product programmed as a GPC?                                     | [R4] A.3.2.4      | GPDT3: X                |         |
| GPDT3CB     | Is the product programmed as a GPCB?                                    | [R4] A.3.2.7      | GPDT3: O                |         |
| GPDT4       | Does the product support GP commissioning tool functionality?           | [R4] A.3.2.5      | GPDT1: O.7              |         |
| GPDT4ct     | Is the product programmed as a GP Commissioning Tool?                   | [R4] A.3.2.5      | GPDT1: O                |         |

Please note: all PICS items applicable for all the GPP and GPS subtypes, use the generic item label: GPDT2 or GPDT3, respectively.

The sub-type specific item labels (GPDT2f, GPDT2B, GPDT2CB, GPDT2c, GPDT3t, GPDT3t+, GPDT3c, GPDT3CB) are used for sub-type specific requirements.

<sup>1</sup> O.6 - Device under test shall select only one of these options.

<sup>2</sup> O.7 - Device under test shall select at least one of these options.

<sup>3</sup> O.8 - Device under test shall select only one of these options.

# 11 Functionality of Green Power infrastructure device

## 11.1 Green Power stub capabilities of GP infrastructure devices

This PICS table applies to GP infrastructure devices GPDT1, GPDT2, GPDT3 and GPDT4.

All PICS items applicable for all the generic GP device types, use the generic item label: GPDT1 if applicable to all devices, or GPDT2, GPDT3, and GPDT4, if applicable in general to GPP, GPS or GPCT functionality, respectively.

The sub-type specific item labels (GPDT2f, GPDT2BGPDT2CB, GPDT2c, GPDT3t, GPDT3t+, GPDT3c, and GPDT3CB) are used for sub-type specific requirements.

Since GPDT0 are not ZigBee-PRO devices, their functionality is not discussed here. Please see ZCL PICS for GPDT0 compliance requirements.

| Item number | Item description   | Reference             | Status  | Support |
|-------------|--|-----------------------|---|---------|
| GPF1        | Does the device implement cGP stub?  | [R4] A.1              | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF2        | Does the device implement dGP stub?  | [R4] A.1              | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF3        | Does the device support the general Green Power Device Frame format?   | [R4] A.1.4            | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF3A       | Does the device support nwkcProtocolVersion = 0x3?   | [R4] A.1.4            | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF4C       | Does the device support receiving GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b000?   | [R4] A.1.4            | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF4D       | Does the device support receiving GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b010?   | [R4] A.1.4            | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF5        | Does the device's dGP stub support GPDF SecurityLevel=0b11?  | [R4] A.1.5.4; A.3.7.2 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: O.4<br>GPDT4: M | Y       |
| GPF6        | Does the device's dGP stub support GPDF SecurityLevel=0b10?  | [R4] A.1.5.4; A.3.7.2 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: O.4<br>GPDT4: M | Y       |
| GPF7        | Does the device's dGP stub support GPDF SecurityLevel=0b01? (deprecated)   | [R4] A.1.5.4; A.3.7.2 | GPDT1: X (deprecated)                               | N       |
| GPF8A       | Does the device's dGP stub support GPDF SecurityLevel=0b00 in commissioning?   | [R4] A.1.5.4; A.3.7.2 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF8B       | Does the device's dGP stub support GPDF SecurityLevel=0b00 in operation?   | [R4] A.1.5.4; A.3.7.2 | GPDT2B: O<br>GPDT2CB: O<br>GPDT3CB: O<br>GPDT4: M   | Y       |
| GPF9A       | Does the device support transmitting GPDF frame format with <i>ApplicationID</i> sub-field of the Extended NWK Frame Control field set to 0b000 and Frame type sub-field of the NWK Frame Control field set to 0b00 (Data frame) in commissioning, without security? | [R4] A.1              | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |

| Item number | Item description   | Reference       | Status  | Support |
|-------------|--|-----------------|---|---------|
| GPF9B       | Does the device support transmitting GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b010 in commissioning, without security?   | [R4] A.1        | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF9C       | Does the device support transmitting in commissioning mode a GPDF frame format with Frame type sub-field of the NWK Frame Control field set to 0b01 (Maintenance frame)?   | [R4] A.1, A.3.9 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: M<br>GPDT4: M   | Y       |
| GPF9D       | Does the device support transmitting GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b000 and Frame type sub-field of the NWK Frame Control field set to 0b00 (Data frame) in operation, with security? | [R4] A.1        | GPDT2B: X GPDT2CB: X<br>GPDT3CB: X<br>GPDT4: O  | N       |
| GPF9E       | Does the device support transmitting GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b010 in operation, with security?  | [R4] A.1        | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: X<br>GPDT4: O   | N       |
| GPSF1A      | Does the device support gpTxQueue?   | [R4] A.1        | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: M<br>GPDT4: M   | N       |
| GPSF2       | Is the device capable of transmitting a response GPDF between gpTxOffset and gpTxOffset+gpMaxTxOffsetVariation ms after reception of the request GPDF (aka immediate response)?  | [R4] A.1        | GPDT2: X<br>GPDT3: O<br>GPF9A-E: O<br>GPPCSF10: O<br>GPPCSF11: O<br>GPPCSF7: O<br>GPPCSF8: O<br>GPPCSF13: O | N       |

## 11.2 Green Power: Support of proxy basic functionality

This PICS table applies to GP infrastructure devices GPDT1, GPDT2, GPDT3 and GPDT4.

All PICS items applicable for all the generic GP device types use the generic item label: GPDT1 if applicable to all devices, or GPDT2, GPDT3, and GPDT4, if applicable in general to GPP, GPS or GPCT functionality, respectively.

The sub-type specific item labels (GPDT2B, GPDT2CB) are used for sub-type specific requirements.

Since GPDT0 are not ZigBee-PRO devices, their functionality is not discussed here. Please see ZCL PICS for GPDT0 compliance requirements.

| Item number | Item description   | Reference                    | Status   | Support |
|-------------|--|------------------------------|--|---------|
| GPPC0       | Does the device support the GP proxy basic functionality?  | [R4] A.3.2.6                 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: X<br>GPDT4: O  | Y       |
| GPPC1       | Is the GreenPower cluster supported?   | [R4] A.3                     | GPPC0: M   | Y       |
| GPPC2       | Does the device support Green Power End Point (GPEP)?  | [R4] A.3.1                   | GPPC0: M   | Y       |
| GPPC3       | Does the device support GPEP duplicate filtering?  | [R4] A.3.6.1                 | GPPC0: M   | Y       |
| GPPCC1      | Is the GreenPower cluster supported as a client?   | [R4] A.3.4                   | GPPC0: O.5 <sup>4</sup><br>GPDT2B: M<br>GPDT2CB: M   | Y       |
| GPPCC2      | Is the gppMaxProxyTableEntries attribute supported?  | [R4] A.3.4.2.1               | GPPCC1: M  | Y       |
| GPPCC3A     | Is the Proxy Table attribute supported?  | [R4]A.3.4.2.2                | GPPCC1: M  | Y       |
| GPPCC3B     | Is the minimum number of 5 entries in the Proxy Table attribute supported?<br>Indicate the actual number of entries in the Proxy Table supported by this device. | [R4]A.3.4.2.2                | GPPCC1: M  | Y 5 0   |
| GPPCC3F     | Is Proxy Table readout via ZCL Read Attributes/Read Attributes Response commands supported?  | [R4] A.3.4.2.2.1             | GPPCC1: M  | Y       |
| GPPCC3G     | Is Proxy Table readout via GP Proxy Table Request/Response commands supported?   | [R4] A.3.4.3.1,<br>A.3.4.4.2 | GPPCC1: M  | Y       |
| GPPCC8      | Is the gppFunctionality attribute supported?   | [R4]A.3.4.2.7                | GPPCC1: M  | Y       |
| GPPCC9      | Is the gppActiveFunctionality attribute supported?   | [R4]A.3.4.2.8                | GPPCC1: M  | Y       |
| GPPCS1      | Is the GreenPower cluster supported as a server?   | [R4]A.3.3                    | GPPC0: O.5 GPDT3CB:<br>X   |         |
| GPPCS2      | Is the gppMaxSinkTableEntries attribute supported?   | [R4]A.3.3.2.1                | GPPCS1: M  |         |
| GPPCS3A     | Is the Sink Table attribute supported?   | [R4]A.3.3.2.2                | GPPCS1: M  |         |
| GPPCS3B     | Is the minimum number of 5 entries in the Sink Table attribute supported?  | [R4]A.3.3.2.2                | GPPCS1: M  |         |
| GPPCS3C     | Is Sink Table readout via ZCL Read Attributes/Read Attributes Response commands supported?   | [R4] A.3.3.2.2.1             | GPPCS1: M  |         |
| GPPCS3D     | Is Sink Table readout via GP Sink Table Request/Response commands supported?   | [R4] A.3.3.5.6,<br>A.3.3.4.7 | GPPCS1: M  |         |
| GPPCS8      | Is the gpsFunctionality attribute supported?   | [R4]A.3.3.2.7                | GPPCS1: M  |         |
| GPPCS9      | Is the gpsActiveFunctionality attribute supported?   | [R4]A.3.3.2.8                | GPPCS1: M  |         |
| GPPC101     | Is the gpSharedSecurityKeyType attribute supported?  | [R4]A.3.3.3.1                | GPPC0: O<br>(GPDT2B    GPDT2CB)<br>&& GPPCCF11: O<br>GPDT3CB &&<br>(GPPCCF10   <br>GPPCCF11): M<br>GPPC102: M<br>(GPPCCF7    GPPCCF8<br>) && (GPF5  GPF6): M | N       |
| GPPC102     | Is the gpSharedSecurityKey attribute supported?  | [R4]A.3.3.3.2                | GPPC0: O<br>(GPDT2B    GPDT2CB)<br>&& GPPCCF11: O<br>GPDT3CB &&<br>(GPPCCF10   <br>GPPCCF11): M<br>GPPC101: M<br>(GPPCCF7    GPPCCF8<br>) && (GPF5  GPF6): M | N       |
| GPPC103     | Is the gpLinkKey attribute supported?  | [R4]A.3.3.3.3                | GPDT2B: O<br>GPDT2CB: O  | Y       |
| GPPC104     | Is the global <i>ClusterRevision</i> attribute (0xfffd) supported?   | [R4]A.3.3.3                  | GPDT2B: M<br>GPDT2CB: M  | Y       |
| GPPCC101B   | Is transmission of the GP Notification command in lightweight unicast supported?   | [R4] A.3.3.4.1               | GPDT2B: M<br>GPDT2CB: M  | Y       |
| GPPCC102    | Is transmission of the GP Notification command in derived groupcast supported?   | [R4]A.3.3.4.1                | GPDT2B: M<br>GPDT2CB: M  | Y       |

|          |   |                |                         |   |
|----------|---|----------------|-------------------------|---|
| GPPCC103 | Is transmission of the GP Notification command in commissioned groupcast supported? | [R4]A.3.3.4.1  | GPDT2B: M<br>GPDT2CB: M | Y |
| GPPCC151 | Is reception of the GP Pairing command supported?                                   | [R4] A.3.3.5.2 | GPPCC1: M               | Y |

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<sup>4</sup> O.5: DUT shall support at least one of those options.

### 11.3 Functionality of GreenPower cluster

The GPPCCF\$ items refer ONLY to the PROXY functionality of the DUT. Analogously, the GPPCSF\$ items refer ONLY to the SINK functionality of the DUT.

Thus, for a GPC, each item set covers only a part of GPC's functionality. Therefore, for the two functional parts of the GPC, both PICS items sets have to be checked independently.

**Table 5 – GreenPower cluster feature support**

| Item number | Item description   | Reference    | Status  | Support |
|-------------|--|--------------|---|---------|
| GPPCSF1     | Is GP feature supported as a server? (GP feature sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: M<br>GPDT4: M                              |         |
| GPPCSF2     | Is Direct communication (via GP stub) supported as a server? (Direct communication sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: M<br>GPDT4: M                              |         |
| GPPCSF3     | Is Derived groupcast communication supported as a server? (Derived groupcast communication sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: O.11<br>GPDT4: O                           |         |
| GPPCSF4     | Is Pre-commissioned groupcast communication supported as a server? (Pre-commissioned groupcast communication sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: O.11<br>(GPDT3CB & GPPCSF3: M)<br>GPDT4: O |         |
| GPPCSF5     | Is Unicast communication supported as a server? (Unicast communication sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: X<br>GPDT4: O                              |         |
| GPPCSF6     | Is Lightweight unicast communication supported as a server? (Lightweight unicast communication sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: O.11<br>GPDT4: O                           |         |
| GPPCSF7     | Is Proximity bidirectional operation supported as a server? (Proximity bidirectional operation sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: X<br>GPDT4: O                              |         |
| GPPCSF8     | Is Multi-hop bidirectional operation supported as a server? (Multi-hop bidirectional operation sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: X<br>GPDT4: O                              |         |
| GPPCSF9     | Is Proxy Table maintenance (active and passive) supported as a server? (Proxy Table maintenance sub-field of the gpsFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: X<br>GPDT4: O                              |         |
| GPPCSF10    | Is Proximity commissioning (unidirectional and bidirectional) supported as a server? (Proximity commissioning sub-field of the gpsFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: M<br>GPDT4: M                              |         |
| GPPCSF11    | Is Multi-hop commissioning (unidirectional and bidirectional) supported as a server? (Multi-hop commissioning sub-field of the gpsFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: M<br>GPDT4: O                              |         |
| GPPCSF12    | Is CT-based commissioning supported as a server? (CT-based commissioning sub-field of the gpsFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: M<br>GPDT4: M                              |         |
| GPPCSF13    | Is Maintenance of GPD (deliver channel/key during operation) supported as a server? (Maintenance of GPD sub-field of the gpsFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: X<br>GPDT4: O                              |         |
| GPPCSF14    | Is gpdSecurityLevel = 0b00 supported in operation as a server? (gpdSecurityLevel = 0b00 sub-field of the gpsFunctionality attribute set?)<br><i>Note: According to the current version of the specification, only GPD that support gpdSecurityLevel = 0b10 or higher AND support TC-LK protection of the GPD key, if exchanged over the air, can be certified.</i> | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: O<br>GPDT4: O                                |         |
| GPPCSF15    | Is gpdSecurityLevel = 0b01 supported as a server? (gpdSecurityLevel = 0b01 sub-field of the gpsFunctionality attribute set?) (deprecated)  | [R4] A.3.2.8 | GPDT1: X (deprecated)   |         |

| Item number | Item description  | Reference    | Status   | Support |
|-------------|---|--------------|--|---------|
| GPPCSF16    | Is gpdSecurityLevel = 0b10 supported as a server? (gpdSecurityLevel = 0b10 sub-field of the gpsFunctionality attribute set?)                                    | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: O.12 <sup>5</sup><br>GPDT4: O |         |
| GPPCSF17    | Is gpdSecurityLevel = 0b11 supported as a server? (gpdSecurityLevel = 0b11 sub-field of the gpsFunctionality attribute set?)                                    | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: O.12<br>GPDT4: O              |         |
| GPPCSF18    | Is SinkTable-based groupcast forwarding supported as a server? (SinkTable-based groupcast forwarding sub-field of the gpsFunctionality attribute set?)          | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: X<br>GPDT4: O               |         |
| GPPCSF19    | Is Translation Table feature supported as a server? (Translation Table sub-field of the gpsFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: O<br>GPDT4: O                 |         |
| GPPCSF20    | Is GPD IEEE address feature supported as a server? (GPD IEEE address sub-field of the gpsFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3CB: M<br>GPDT4: M               |         |
| GPPCCF1     | Is GP feature supported as a client? (GP feature sub-field of the gppFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2B: M<br>GPCT2CB: M<br>GPDT3: N/A<br>GPDT4: O  | Y       |
| GPPCCF2     | Is Direct communication (via GP stub) supported as a client? (Direct communication sub-field of the gppFunctionality attribute set?)                            | [R4] A.3.2.8 | GPDT2B: M<br>GPCT2CB: M<br>GPDT3: N/A<br>GPDT4: O  | Y       |
| GPPCCF3     | Is Derived groupcast communication supported as a client? (Derived groupcast communication sub-field of the gppFunctionality attribute set?)                    | [R4] A.3.2.8 | GPDT2B: M<br>GPCT2CB: M<br>GPDT3: N/A<br>GPDT4: O  | Y       |
| GPPCCF4     | Is Pre-commissioned groupcast communication supported as a client? (Pre-commissioned groupcast communication sub-field of the gppFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2B: M<br>GPCT2CB: M<br>GPDT3: N/A<br>GPDT4: O  | Y       |
| GPPCCF5     | Is Full unicast communication supported as a client? (Unicast communication sub-field of the gppFunctionality attribute set?)                                   | [R4] A.3.2.8 | GPDT2B: X<br>GPDT2CB: X<br>GPDT3: N/A<br>GPDT4: O  | N       |
| GPPCCF6     | Is Lightweight unicast communication supported as a client? (Lightweight unicast communication sub-field of the gppFunctionality attribute set?)                | [R4] A.3.2.8 | GPDT2B: M<br>GPCT2CB: M<br>GPDT3: N/A<br>GPDT4: O  | Y       |
| GPPCCF7     | Is Proximity bidirectional operation supported as a client? (Proximity bidirectional operation sub-field of the gppFunctionality attribute set?)                | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: N/A<br>GPDT4: O               |         |
| GPPCCF8     | Is Multi-hop bidirectional operation supported as a client? (Multi-hop bidirectional operation sub-field of the gppFunctionality attribute set?)                | [R4] A.3.2.8 | GPDT2B: X<br>GPDT2CB: X<br>GPDT3: N/A<br>GPDT4: O  |         |
| GPPCCF9     | Is Proxy Table maintenance (active and passive) supported as a client? (Proxy Table maintenance sub-field of the gppFunctionality attribute set?)               | [R4] A.3.2.8 | GPDT2B: X<br>GPDT2CB: X<br>GPDT3: N/A<br>GPDT4: O  | N       |
| GPPCCF10    | Is Proximity commissioning (unidirectional and bidirectional) supported as a client? (Proximity commissioning sub-field of the gppFunctionality attribute set?) | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: N/A<br>GPDT4: O               | N       |
| GPPCCF11    | Is Multi-hop commissioning (unidirectional and bidirectional) supported as a client? (Multi-hop commissioning sub-field of the gppFunctionality attribute set?) | [R4] A.3.2.8 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: N/A<br>GPDT4: O  | Y       |
| GPPCCF12    | Is CT-based commissioning supported as a client? (CT-based commissioning sub-field of the gppFunctionality attribute set?)                                      | [R4] A.3.2.8 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: N/A<br>GPDT4: O  | Y       |

<sup>5</sup> O.12: DUT shall implement at least one of those options.



| Item number | Item description   | Reference    | Status  | Support |
|-------------|--|--------------|---|---------|
| GPPCCF13    | Is Maintenance of GPD (deliver channel/key during operation) supported as a client? (Maintenance of GPD sub-field of the gppFunctionality attribute set?)  | [R4] A.3.2.8 | GPDT2B: X<br>GPDT2CB: X<br><br>GPDT3: N/A<br>GPDT4: O | N       |
| GPPCCF14    | Is gpdSecurityLevel = 0b00 supported in operation as a client? (gpdSecurityLevel = 0b00 sub-field of the gppFunctionality attribute set?)<br><i>Note: According to the current version of the specification, only GPD that support gpdSecurityLevel = 0b10 or higher AND support TC-LK protection of the GPD key, if exchanged over the air, can be certified.</i> | [R4] A.3.2.8 | GPDT2B: O<br>GPDT2CB: O<br>GPDT3CB: N/A<br>GPDT4: O   | Y       |
| GPPCCF15    | Is gpdSecurityLevel = 0b01 supported as a client? (gpdSecurityLevel = 0b01 sub-field of the gppFunctionality attribute set?) (deprecated)  | [R4] A.3.2.8 | GPDT1: X (deprecated)                                 | N       |
| GPPCCF16    | Is gpdSecurityLevel = 0b10 supported as a client? (gpdSecurityLevel = 0b10 sub-field of the gppFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: N/A<br>GPDT4: O   | Y       |
| GPPCCF17    | Is gpdSecurityLevel = 0b11 supported as a client? (gpdSecurityLevel = 0b11 sub-field of the gppFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: N/A<br>GPDT4: O   | Y       |
| GPPCCF18    | Is SinkTable-based groupcast forwarding supported as a client? (SinkTable-based groupcast forwarding sub-field of the gppFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: N/A<br>GPDT4: N/A                |         |
| GPPCCF19    | Is Translation Table feature supported as a client? (Translation Table sub-field of the gppFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2: N/A<br>GPDT3: N/A<br>GPDT4: N/A                |         |
| GPPCCF20    | Is GPD IEEE address feature supported as a client? (GPD IEEE address sub-field of the gppFunctionality attribute set?)   | [R4] A.3.2.8 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: N/A<br>GPDT4: N/A | Y       |

## 11.3.1 GreenPower cluster: items common to client and server

Table 6 – GreenPower cluster items common to client and server

| Item number | Item description   | Reference                 | Status   | Support |
|-------------|--|---------------------------|--|---------|
| GPPC1       | Is the GreenPower cluster supported?   | [R4] A.3                  | GPDT1: M   | Y       |
| GPPC2       | Does the device support Green Power End Point (GPEP)?  | [R4] A.3.1                | GPDT1: M   | Y       |
| GPPC3       | Does the device support GPEP duplicate filtering?  | [R4] A.3.6.1.2            | GPDT1: M   | Y       |
| GPPC3r      | Does the device support random MAC sequence number for GPD commands' duplicate filtering?          | [R4] A.3.6.1.2            | GPDT1&& (GPF8A    GPF8B): M  | Y       |
| GPPC3i      | Does the device support incremental MAC sequence number for GPD commands' duplicate filtering?     | [R4] A.3.6.1.2            | GPDT1&& (GPF8A    GPF8B): M  | Y       |
| GPPC3s      | Does the device support GPD security frame counter for GPD commands' duplicate filtering?          | [R4] A.3.6.1.2            | GPDT1&& (GPF5  GPF6): M  | Y       |
| GPPC4       | Does the device support transmission of Device_annce for the alias?                                | [R4] A.3.6.3.3, A.3.6.3.4 | GPDT3 && (GPPCSF3    GPPCSF4    GPPCSF6): M<br>GPDT2: X  | N       |
| GPPC5       | Does the device support conflict checking for the alias on reception of Device_annce?              | [R4] A.3.6.3.3, A.3.6.3.4 | GPDT1: M   | Y       |
| GPPC6       | Does the device support transmission of Device_annce for the alias, upon alias conflict detection? | [R4] A.3.6.3.3, A.3.6.3.4 | GPDT1: M   | Y       |
| GPPC101     | Is the <i>gpSharedSecurityKeyType</i> attribute supported?   | [R4] A.3.3.3.1            | GPDT1: O<br>GPPCCF11 && (GPDT2B    GPDT2CB): O<br>GPDT3CB && (GPPCSF10    GPPCSF11): M<br>GPPC102: M<br>GPDT1&& ((GPPCSF7    GPPCSF8   GPPCCF7    GPPCCF8 ) && (GPF5  GPF6): M     | N       |
| GPPC102     | Is the <i>gpSharedSecurityKey</i> attribute supported?   | [R4] A.3.3.3.2            | GPDT1: O<br>(GPDT2B    GPDT2CB) && GPPCCF11: O<br>GPDT3CB && (GPPCSF10    GPPCSF11): M<br>GPPC102: M<br>GPDT1&& ((GPPCSF7    GPPCSF8    GPPCCF7    GPPCCF8    ) && (GPF5  GPF6): M | N       |
| GPPC103     | Is the <i>gpLinkKey</i> attribute supported?   | [R4] A.3.3.3.3            | GPDT2B: O<br>GPDT2CB: O<br>GPDT3CB&& (GPF5  GPF6): M   | Y       |
| GPPC104     | Is the <i>ClusterRevision</i> cluster global attribute supported?                                  | [R4] A.3.3.3              | GPDT1: M   | Y       |

## 11.3.2 Server side

**Table 7 – GreenPower cluster server capabilities**

| Item number | Item description  | Reference                       | Status   | Support |
|-------------|---|---------------------------------|--|---------|
| GPPCS1      | Is the GreenPower cluster supported as a server?  | [R4] A.3.3                      | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: M<br>GPDT4: M<br>GPPCSF1: M  |         |
| GPPCS2      | Is the <code>gpsMaxSinkTableEntries</code> attribute supported?                               | [R4] A.3.3.2.1                  | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O                               |         |
| GPPCS3A     | Is the Sink Table attribute supported?  | [R4] A.3.3.2.2                  | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O                               |         |
| GPPCS3B     | Is the required minimum number of entries in the Sink Table attribute supported? <sup>6</sup> | [R4] A.3.3.2.2                  | GPDT3CB: 5<br>GPDT3 && GPPCSF18: 10<br>GPDT3 && !GPPCSF18:5      |         |
| GPPCS3C     | Is Sink Table readout via ZCL Read Attributes/Read Attributes Response commands supported?    | [R4] A.3.3.2.2.1                | GPDT3CB: M   |         |
| GPPCS3D     | Is Sink Table readout via GP Sink Table Request/Response commands supported?                  | [R4] A.3.3.5.6,<br>A.3.3.4.7    | GPDT3CB: M   |         |
| GPPCS4      | Is the <code>gpsCommunication</code> mode attribute supported?                                | [R4] A.3.3.2.3                  | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O                               |         |
| GPPCS5      | Is the <code>gpsCommissioningExitMode</code> attribute supported?                             | [R4] A.3.3.2.4                  | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O                               |         |
| GPPCS6      | Is the <code>gpsCommissioningWindow</code> attribute supported?                               | [R4] A.3.3.2.5                  | GPDT2: X<br>GPDT3CB: O<br>GPDT4: O                               |         |
| GPPCS7      | Is the <code>gpsSecurityLevel</code> attribute supported?                                     | [R4] A.3.3.2.6                  | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O                               |         |
| GPPCS8      | Is the <code>gpsFunctionality</code> attribute supported?                                     | [R4] A.3.3.2.7                  | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O                               |         |
| GPPCS9      | Is the <code>gpsActiveFunctionality</code> attribute supported?                               | [R4] A.3.3.2.8                  | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O                               |         |
| GPPCS99     | Is Translation Table supported?   | [R4] A.3.5.2.2                  | GPDT2: X<br>GPDT3CB: O<br>GPDT4: O<br>GPPCSF19: M                |         |
| GPPCS100    | Is reception of the GP Notification command supported?  | [R4] A.3.2.10<br>[R4] A.3.3.3   | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: M<br>GPDT4: O                |         |
| GPPCS101A   | Is reception of the GP Notification command in full unicast supported?                        | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2: X<br>GPDT3CB: X<br>GPPCSF5: M<br>GPDT4: O                 |         |
| GPPCS101B   | Is reception of the GP Notification command in lightweight unicast supported?                 | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2: X<br>GPDT3CB: O.14 <sup>7</sup><br>GPPCSF6: M<br>GPDT4: O |         |

<sup>6</sup> 5 is the default minimum number of entries defined by the GP Proxy cluster [R4]. A particular profile adopting the cluster may mandate different value.

<sup>7</sup> O.14: The device under test shall implement at least one of those options; only one is enabled at any given time.

| Item number | Item description   | Reference                                       | Status   | Support |
|-------------|--|---|--|---------|
| GPPCS102    | Is reception of the GP Notification command in derived groupcast supported?      | [R4] A.3.2.10<br>[R4] A.3.3.4.1                 | GPDT2B: X<br>GPDT2CB: X<br>(GPPCCF8  GPPCCF9  GPPCCF13): M<br>GPDT3CB: O.14<br>GPPCSF3: M<br>GPDT4: O                |         |
| GPPCS103    | Is reception of the GP Notification command in commissioned groupcast supported? | [R4] A.3.2.10<br>[R4] A.3.3.4.1                 | GPDT2B: X<br>GPDT2CB: X<br>(GPPCCF8  GPPCCF9  GPPCCF13): M<br>GPDT3CB: O.14<br>GPPCSF4: M<br>GPPCS102: M<br>GPDT4: O |         |
| GPPCS104    | Is reception of the GP Notification command in broadcast supported?              | [R4] A.3.2.10<br>[R4] A.3.3.4.1<br>[R4] A.5.2.1 | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF9: M<br>GPDT3CB: X<br>GPPCSF9: M<br>GPDT4: O  |         |
| GPPCS105    | Is reception of the GP Pairing Search command supported?                         | [R4] A.3.2.10<br>[R4] A.3.3.4.2                 | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF9: O<br>GPDT3CB: X<br>GPDT4: O<br>GPPCSF9: M  |         |
| GPPCS106    | Is reception of the GP Tunneling Stop command supported?                         | [R4] A.3.2.10<br>[R4] A.3.4.4.1                 | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF5: M<br>GPDT3CB: X<br>GPDT4: O  |         |
| GPPCS107    | Is reception of the GP Commissioning Notification command supported?             | [R4] A.3.2.10<br>[R4] A.3.3.4.4                 | (GPDT2B  <br>GPDT2CB) && GPPCCF11: X<br>GPPCCF11: M<br>GPDT3CB: M<br>GPPCSF11: M<br>GPDT4: O                         |         |
| GPPCS108    | Is reception of the GP Translation Table Update command supported?               | [R4] A.3.2.10<br>[R4] A.3.3.4.6                 | GPDT2: X<br>GPDT3CB: O<br>GPDT4: O<br>GPPCSF19: M  |         |
| GPPCS109    | Is reception of the GP Translation Table Request command supported?              | [R4] A.3.2.10<br>[R4] A.3.3.4.5                 | GPDT2: X<br>GPDT3CB: O<br>GPDT4: O<br>GPPCSF19: M  |         |
| GPPCS110    | Is reception of the GP Pairing Configuration command supported?                  | [R4] A.3.2.10<br>[R4] A.3.3.4.7                 | GPDT2: X<br>GPDT3CB: M<br>GPPCSF4    GPPCSF12    GPPCSF18:<br>M  |         |
| GPPCS111    | Is reception of the GP Sink Table Request command supported?                     | [R4] A.3.3.5.6,<br>A.3.3.4.7                    | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: M<br>GPDT4: O  |         |
| GPPCS112    | Is reception of the GP Proxy Table Response command supported?                   | [R4] A.3.4.3.1,<br>A.3.4.4.2                    | GPDT2B: O<br>GPDT2CB: O<br>GPDT3CB: O<br>GPDT4: O<br>GPPCS157: M   |         |
| GPPCS113    | Is reception of the GP Sink Commissioning Mode command supported?                | [R4] A.3.3.4.7,<br>A.3.9.1                      | GPDT2: X<br>GPDT3: O<br>GPDT4: O   |         |
| GPPCS150    | Is transmission of the GP Notification Response command supported?               | [R4] A.3.2.10<br>[R4] A.3.3.5.1                 | GPDT2: X<br>GPDT3CB: X<br>GPDT4: O<br>GPPCSF5: M   |         |

| Item number | Item description   | Reference                       | Status  | Support |
|-------------|--|---------------------------------|---|---------|
| GPPCS151A   | Is transmission of the GP Response command with SrcID = 0x00000000 in commissioning supported?   | [R4] A.3.2.10<br>[R4] A.3.3.5.4 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O<br>GPPCSF11: M<br>GPPCSF10: O              |         |
| GPPCS151B   | Is transmission of the GP Response command with SrcID != 0x00000000 in commissioning supported?  | [R4] A.3.2.10<br>[R4] A.3.3.5.4 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O<br>GPPCSF10  GPPCSF11: M<br>GPPCSF10: M    |         |
| GPPCS151C   | Is transmission of the GP Response command with IEEE address and Endpoint in commissioning supported?  | [R4] A.3.2.10<br>[R4] A.3.3.5.4 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O<br>GPPCSF10   GPPCSF11 &&<br>GPPCSF20: M   |         |
| GPPCS151D   | Is transmission of the GP Response command with SrcID != 0x00000000 in operation supported?  | [R4] A.3.2.10<br>[R4] A.3.3.5.4 | GPDT2: X<br>GPDT3CB: X<br>GPDT4: O<br>GPPCSF8    GPPCSF13: M                  |         |
| GPPCS151E   | Is transmission of the GP Response command with IEEE address and Endpoint in operation supported?  | [R4] A.3.2.10<br>[R4] A.3.3.5.4 | GPDT2: X<br>GPDT3CB: X<br>GPDT4: O<br>(GPPCSF8   GPPCSF 13) &&<br>GPPCSF20: M |         |
| GPPCS152    | Is transmission of the GP Pairing command supported?   | [R4] A.3.2.10<br>[R4] A.3.3.5.2 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: M  |         |
| GPPCS153    | Is generation of the GP Pairing command with RemoveGPD sub-field set to 0b1 supported?   | [R4] A.3.2.10<br>[R4] A.3.3.5.2 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: M  |         |
| GPPCS153A   | Is generation of the GP Pairing command with RemoveGPD sub-field set to 0b1 upon reception of Decommissioning command in commissioning mode supported?   | [R4] A.3.2.10<br>[R4] A.3.3.5.2 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: M  |         |
| GPPCS153B   | Is generation of the GP Pairing command with RemoveGPD sub-field set to 0b1 upon a local trigger supported?  | [R4] A.3.2.10<br>[R4] A.3.3.5.2 | GPDT2: X<br>GPDT3CB: O<br>GPDT4: M  |         |
| GPPCS153A   | Is generation of the GP Pairing command with RemoveGPD sub-field set to 0b1 upon reception of GP Pairing Configuration command with Action sub-field of the Actions field set to 0b100 (Remove GPD) and Send GP Pairing sub-field of the Actions field set to 0b1? | [R4] A.3.2.10<br>[R4] A.3.3.5.2 | GPDT2: X<br>GPDT3CB: M<br>GPPCSF12: M<br>GPDT4: O                             |         |
| GPPCS154    | Is transmission of the GP Proxy Commissioning Mode command supported?  | [R4] A.3.2.10<br>[R4] A.3.3.5.3 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: M<br>GPPCSF11: M                             |         |
| GPPCS155    | Is transmission of the GP Translation Table Response command supported?  | [R4] A.3.2.10<br>[R4] A.3.3.5.5 | GPDT2: X<br>GPDT3CB: O<br>GPPCS109: M<br>GPDT4: O<br>GPPCSF19: M              |         |
| GPPCS156    | Is transmission of the GP Sink Table Response command supported?   | [R4] A.3.3.5.6,<br>A.3.3.4.7    | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: M<br>GPDT4: O                             |         |
| GPPCS157    | Is transmission of the GP Proxy Table Request command supported?   | [R4] A.3.4.3.1,<br>A.3.4.4.2    | GPDT2B: O<br>GPDT2CB: O<br>GPDT3CB: O<br>GPDT4: O                             |         |
| GPPCS201    | Is persistent storage of Sink Table supported?   | [R4] A.3.2.10<br>[R4] A.3.3.2.2 | GPDT2: X<br>GPDT3CB: M<br>GPDT4: O  |         |

### 11.3.3 Client side

**Table 8 – GreenPower cluster client capabilities**

| Item number | Item description  | Reference                    | Status  | Support |
|-------------|---|------------------------------|---|---------|
| GPPCC1      | Is the GreenPower cluster supported as a client?  | [R4] A.3.4                   | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: O<br>GPDT4: O               | Y       |
| GPPCC2      | Is the <i>gppMaxProxyTableEntries</i> attribute supported?  | [R4] A.3.4.2.1               | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: X<br>GPDT4: O               | Y       |
| GPPCC3A     | Is the Proxy Table attribute supported?   | [R4] A.3.4.2.2               | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: X<br>GPDT4: O               | Y       |
| GPPCC3B     | Is the required minimal number of entries in the Proxy Table attribute supported? <sup>8</sup><br>Indicate the actual number of entries in the Proxy Table attribute supported by this device.              | [R4] A.3.4.2.2               | GPDT2: 5  | 5       |
| GPPCC3C     | Is the required minimal number of entries in the <i>Lightweight sink address list</i> per Proxy Table entry supported?  | [R4] A.3.4.2.2               | GPDT2 && GPPCCF6: 2   | Y       |
| GPPCC3D     | Is the required minimal number of entries in the <i>Sink group list</i> per Proxy Table entry supported?  | [R4] A.3.4.2.2               | GPDT2 && GPPCCF4: 2   | Y       |
| GPPCC3E     | Is the required minimal number of simultaneously used entries in the <i>Lightweight sink address list/Full unicast sink address list</i> and in the <i>Sink group list</i> per Proxy Table entry supported? | [R4] A.3.4.2.2               | GPDT2 && (GPPCCF5    GPPCCF6) && (GPPCCF4): 1+1               | Y       |
| GPPCC3H     | Is the required minimal number of entries in the <i>Full unicast sink address list</i> per Proxy Table entry supported?   | [R4] A.3.4.2.2               | GPDT2 && GPPCCF5: 2   |         |
| GPPCC3F     | Is Proxy Table readout via ZCL Read Attributes/Read Attributes Response commands supported?   | [R4] A.3.4.2.2.1             | GPPCC1: M   | Y       |
| GPPCC3G     | Is Proxy Table readout via GP Proxy Table Request/Response commands supported?  | [R4] A.3.4.3.1,<br>A.3.4.4.2 | GPPCC1: M   | Y       |
| GPPCC4      | Is the <i>gppNotificationRetryNumber</i> attribute supported?   | [R4] A.3.4.2.3               | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF5: M<br>GPDT3: X<br>GPDT4: O | N       |
| GPPCC5      | Is the <i>gppNotificationRetryTimer</i> attribute supported?  | [R4] A.3.4.2.4               | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF5: M<br>GPDT3: X<br>GPDT4: O | N       |
| GPPCC6      | Is the <i>gppMaxSearchCounter</i> attribute supported?  | [R4] A.3.4.2.5               | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF9: M<br>GPDT3: X<br>GPDT4: O | N       |
| GPPCC7      | Is the <i>gppBlockedSrcID</i> attribute supported?  | [R4] A.3.4.2.6               | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF9: O<br>GPDT3: X<br>GPDT4: O | N       |
| GPPCC8      | Is the <i>gppFunctionality</i> attribute supported?   | [R4] A.3.4.2.7               | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: X<br>GPDT4: O               | Y       |

<sup>8</sup> 5 is the default minimum number of entries defined by the GP Proxy cluster [R4]. A particular profile adopting the cluster may mandate different value.

| Item number | Item description   | Reference                       | Status   | Support |
|-------------|--|---------------------------------|--|---------|
| GPPCC9      | Is the <i>gppActiveFunctionality</i> attribute supported?  | [R4] A.3.4.2.8                  | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: X<br>GPDT4: O  | Y       |
| GPPCC100    | Is transmission of the GP Notification command supported?  | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: X<br>GPDT4: O  | Y       |
| GPPCC101A   | Is transmission of the GP Notification command in full unicast supported?  | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF5: M<br>GPDT3CB: X<br>GPDT4: O  | N       |
| GPPCC101B   | Is transmission of the GP Notification command in lightweight unicast supported?                                   | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF6: M<br>GPDT3CB: X<br>GPDT4: O  | Y       |
| GPPCC102    | Is transmission of the GP Notification command in derived groupcast supported?                                     | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF3: M<br>GPDT3CB: X<br>GPPCSF18: M<br>GPDT4: O   | Y       |
| GPPCC103    | Is transmission of the GP Notification command in commissioned groupcast supported?                                | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2: M<br>GPDT2CB: M<br>GPPCCF4: M<br>GPDT3CB: X<br>GPPCSF18: M<br>GPDT4: O  | Y       |
| GPPCC104    | Is transmission of the GP Notification command in broadcast supported?   | [R4] A.3.2.10<br>[R4] A.3.3.4.1 | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: X<br>GPPCCF9: M<br>GPDT4: O  | N       |
| GPPCC105    | Is transmission of the GP Notification command in multiple communication modes supported?                          | [R4] A.3.2.10<br>[R4] A.3.5.2.1 | GPDT2B: M<br>GPDT2CB: M<br>Any two of<br>(GPPCCF3  GPPCCF4  GPPCCF5  <br>GPPCCF6): M<br>GPDT3CB: X<br>GPPCSF18 &&<br>(GPPCCF3  GPPCCF4): M<br>GPDT4: O | Y       |
| GPPCC106    | Is transmission of the GP Pairing Search command supported?  | [R4] A.3.2.10<br>[R4] A.3.4.2   | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: X<br>GPPCCF9: M<br>GPDT4: M  | N       |
| GPPCC107    | Is transmission of the GP Tunneling Stop command supported?  | [R4] A.3.2.10<br>[R4] A.3.4.4.1 | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF5: M<br>GPDT3CB: X<br>GPDT4: O  | N       |
| GPPCC108A   | Is transmission of the GP Commissioning Notification command with alias, after Dmin, supported?                    | [R4] A.3.2.10<br>[R4] A.3.3.4.4 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF11: M<br>GPDT3CB: X<br>GPDT4: O   | Y       |
| GPPCC108B   | Is transmission of the GP Commissioning Notification command without alias, at <i>gppTunnelingDelay</i> supported? | [R4] A.3.2.10<br>[R4] A.3.3.4.4 | (GPDT2B   <br>GPDT2CB) && GPPCCF11: M<br>GPPCCF11: M<br>GPDT3CB: X<br>GPDT4: O   | Y       |

| Item number | Item description  | Reference                                       | Status   | Support |
|-------------|---|---|--|---------|
| GPPCC109    | Is transmission of the GP Translation Table Update command supported?                                   | [R4] A.3.2.10<br>[R4] A.3.3.4.5<br>[R4] A.3.2.5 | GPDT2: X<br>GPDT3CB: O<br>GPDT4: M   | N       |
| GPPCC110    | Is transmission of the GP Translation Table Request command supported?                                  | [R4] A.3.2.10<br>[R4] A.3.3.4.6<br>[R4] A.3.2.5 | GPDT2: X<br>GPDT3CB: O<br>GPDT4: M   | N       |
| GPPCC111    | Is transmission of the GP Pairing Configuration command supported?                                      | [R4] A.3.2.10<br>[R4] A.3.3.4.7<br>[R4] A.3.2.5 | GPDT2B: X<br>GPDT2CB: X<br>GPDT3CB: O<br>GPDT4: M<br>GPPCSF4    GPPCSF18: M                  | N       |
| GPPCC112    | Is transmission of the GP Proxy Table Response command supported?                                       | [R4] A.3.3.5.6,<br>A.3.3.4.7                    | GPDT2B: M<br>GPDT2CB: M<br>GPDT3: X<br>GPDT4: O  | Y       |
| GPPCC113    | Is transmission of the GP Sink Table Request command supported?   | [R4] A.3.4.3.1,<br>A.3.4.4.2                    | GPDT2B: O<br>GPDT2CB: O<br>GPDT3CB: O<br>GPDT4: M  | N       |
| GPPCC114    | Is transmission of the GP Sink Commissioning Mode command supported?                                    | [R4] A.3.3.4.7,<br>A.3.9.1                      | GPDT2: O<br>GPDT3: O<br>GPDT4: M   | N       |
| GPPCC150    | Is reception of the GP Notification Response command supported?   | [R4] A.3.2.10<br>[R4] A.3.3.5.1                 | GPDT2B: X<br>GPDT2CB: X<br>GPPCCF5: M<br>GPDT3: X<br>GPDT4: O                                | N       |
| GPPCC151    | Is reception of the GP Pairing command supported?   | [R4] A.3.2.10<br>[R4] A.3.3.5.2                 | GPDT2: M<br>GPDT3: X<br>GPDT4: M   | Y       |
| GPPCC152    | Is reception of the GP Pairing command with <i>RemoveGPD</i> sub-field set to 0b1 supported?            | [R4] A.3.2.10<br>[R4] A.3.3.5.2                 | GPDT2: M<br>GPDT3: X<br>GPDT4: M   | Y       |
| GPPCC153    | Is reception of the GP Proxy Commissioning Mode command supported?                                      | [R4] A.3.2.10<br>[R4] A.3.3.5.3                 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF11: M<br>GPDT3CB: O<br>GPDT4: M                             | Y       |
| GPPCC154A   | Is reception of the GP Response command with SrcID = 0x00000000 in commissioning mode supported?        | [R4] A.3.2.10<br>[R4] A.3.3.5.4                 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF11: M<br>GPDT3CB: M<br>GPPCSF10    GPPCSF11 : M<br>GPDT4: O | Y       |
| GPPCC154B   | Is reception of the GP Response command with SrcID != 0x00000000 in commissioning mode supported?       | [R4] A.3.2.10<br>[R4] A.3.3.5.4                 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF11: M<br>GPDT3CB: M<br>GPPCSF10  GPPCSF11: M<br>GPDT4: O    | Y       |
| GPPCC154C   | Is reception of the GP Response command with IEEE address and Endpoint in commissioning mode supported? | [R4] A.3.2.10<br>[R4] A.3.3.5.4                 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF11: M<br>GPDT3CB: M<br>GPPCSF10  GPPCSF11: M<br>GPDT4: O    | Y       |



| Item number | Item description   | Reference                                       | Status   | Support |
|-------------|--|---|--|---------|
| GPPCC154B   | Is reception of the GP Response command with SrcID != 0x00000000 in operation supported?       | [R4] A.3.2.10<br>[R4] A.3.3.5.4                 | GPDT2B: X<br>GPDT2CB: X<br>(GPPCCF8    GPPCCF13): M<br>GPDT3CB: X<br>(GPPCSF7  GPPCSF8  <br>GPPCCF13): M<br>GPDT4: O | N       |
| GPPCC154C   | Is reception of the GP Response command with IEEE address and Endpoint in operation supported? | [R4] A.3.2.10<br>[R4] A.3.3.5.4                 | GPDT2B: X<br>GPDT2CB: X<br>(GPPCCF8    GPPCCF13): M<br>GPDT3CB: X<br>(GPPCSF7  GPPCSF8  <br>GPPCCF13): M<br>GPDT4: O |         |
| GPPCC155    | Is reception of the GP Translation Table Response command supported?                           | [R4] A.3.2.10<br>[R4] A.3.3.5.5<br>[R4] A.3.2.5 | GPDT2: X<br>GPDT3CB: O<br>GPPCC110: M<br>GPDT4: M  | N       |
| GPPCC156    | Is reception of the GP Proxy Table Request command supported?                                  | [R4] A.3.3.5.6,<br>A.3.3.4.7                    | GPDT2B: M<br>GPCT2CB: M<br>GPDT3: X<br>GPDT4: O  | Y       |
| GPPCC157    | Is reception of the GP Sink Table Response command supported?                                  | [R4] A.3.4.3.1,<br>A.3.4.4.2                    | GPDT2: X<br>GPDT3: O<br>GPDT4: O<br>GPPCC113: M  |         |
| GPPCC200    | Is persistent storage of Proxy Table supported?  | [R4] A.3.4.2.2                                  | GPPCC3A: M   | Y       |
| GPPCC201    | Is handling of Proxy Table entries with status other than active and valid supported?          | [R4] A.3.5.2.2                                  | GPDT2B: X<br>GPDT2CB: X<br>GPDT3: X<br>GPDT4: O<br>GPPCCF9: M  |         |
| GPPCC202    | Is passive discovery supported?  | [R4] A.3.5.2.2.3                                | GPDT2B: X<br>GPDT2CB: X<br>GPDT3: X<br>GPDT4: O<br>GPPCCF9: M  |         |
| GPPCC2034   | Is active discovery supported?   | [R4] A.3.5.2.2.4                                | GPDT2B: X<br>GPDT2CB: X<br>GPDT3: X<br>GPDT4: O<br>GPPCCF9: M  |         |
| GPPCC204    | Is active re-discovery supported?  | [R4] A.3.5.2.2.5                                | GPDT2B: X<br>GPDT2CB: X<br>GPDT3: X<br>GPDT4: O<br>GPPCCF9: M  |         |
| GPPCC205    | Is limiting the number of the transmitted GreenPower cluster messages supported?               | [R4] A.3.6.3.1,<br>A.3.6.3.3                    | GPDT2B: M<br>GPDT2CB: M<br>GPDT3CB: X<br>(GPPCSF18 &&<br>(GPPCSF7  GPPCSF8)): M<br>GPDT4: O                          | Y       |

| Item number | Item description  | Reference                                       | Status   | Support |
|-------------|---|---|--|---------|
| GPPCC205A   | Is quality-based gppTunnelingDelay supported?   | [R4] A.3.6.3.1<br>[R4] A.3.2.8,<br>[R4] A.3.2.9 | (GPDT2B   <br>GPDT2CB) && GPPCCF11: M<br>GPPCCF5    GPPCCF8 <br>GPPCCF9  GPPCCF11  GPPCCF13:<br>M<br>(GPPCCF3   GPPCCF4   GPPCCF6)<br>&& !( GPPCCF5    GPPCCF8 <br>GPPCCF9  GPPCCF11  GPPCCF13)<br>: X<br>GPDT3CB: X<br>(GPPCSF18 &&<br>(GPPCSF7  GPPCSF8)): M<br>GPDT4: O           | Y       |
| GPPCC205B   | Is dropping the scheduled GreenPower cluster message on reception of equivalent message supported?  | [R4] A.3.6.3.1<br>[R4] A.3.2.8,<br>[R4] A.3.2.9 | GPDT2B && GPPCCF11: X<br>GPDT2CB && GPPCCF11: X<br>GPPCCF5    GPPCCF8 <br>GPPCCF9  GPPCCF11  GPPCCF13:<br>M<br>(GPPCCF3   GPPCCF4   GPPCCF6)<br>&& !( GPPCCF5    GPPCCF8 <br>GPPCCF9  GPPCCF11  GPPCCF13)<br>: X<br>GPDT3CB: X<br>(GPPCSF18 &&<br>(GPPCSF7  GPPCSF8)): M<br>GPDT4: O | N       |
| GPPCC205C   | Is transmission of GreenPower cluster commands with alias supported?  | [R4] A.3.6.3.3<br>[R4] A.3.2.8,<br>[R4] A.3.2.9 | GPDT2B: M<br>GPDT2CB: M<br>GPPCCF3  GPPCCF4  GPPCCF5  <br>GPPCCF11: M<br>GPDT3CB: X<br>GPPCSF18: M<br>GPDT4: O   | Y       |
| GPPCC206    | Is updating <i>Lightweight sink address list and Full unicast sink address list</i> field of the Proxy Table attribute on reception of Device_ance supported? | [R4] A.3.5.2.1                                  | GPDT2B: M<br>GPDT2CB: M<br>GPPCC3A&&(GPPCCF5  GPPCCF<br>6): M<br>GPDT3: N/A<br>GPDT4: O  | Y       |

## 11.3.4 Support of GP functionality

### 11.3.4.1 Bidirectional operation

**Table 9 – Support for Green Power bidirectional operation**

| Item number | Item description  | Reference                      | Status   | Support |
|-------------|---|--------------------------------|--|---------|
| GPF101      | Is transmission of GPD Read Attributes command supported?       | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.9 <sup>9</sup><br>GPPCSF7  GPPCSF8: O   |         |
| GPF102      | Is reception of GPD Read Attributes command supported?          | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.16<br>GPPCSF7  GPPCSF8: X               |         |
| GPF103      | Is transmission of GPD Read Attributes Response supported?      | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.16<br>GPPCSF7  GPPCSF8: X               |         |
| GPF104      | Is reception of GPD Read Attributes Response command supported? | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.16<br>(GPPCSF7  GPPCSF8)&&GPF101<br>: M |         |
| GPF105      | Is transmission of GPD Request Attributes command supported?    | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.16<br>GPPCSF7  GPPCSF8: X               |         |
| GPF106      | Is reception of GPD Request Attributes command supported?       | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.16<br>GPPCSF7  GPPCSF8: M               |         |

<sup>9</sup> M.16: Note: the bidirectional operation is transparent to the proxy. It just needs to act add the command received in GP Response to its zgptxQueue and send it upon reception of GPDF frame with *RxAfterTx* set; it doesn't care about the type of the command.

| Item number | Item description   | Reference                      | Status  | Support |
|-------------|--|--------------------------------|---|---------|
| GPF107      | Is transmission of GPD Write Attributes command supported?   | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.16<br>GPPCSF7  GPPCSF8: O                |         |
| GPF108      | Is reception of GPD Write Attributes command supported?  | [R4] A.4.2.5<br>[R4] A.3.6.1.5 | GPPCCF8: M.16<br>GPPCSF7  GPPCSF8: X                |         |
| GPF109      | Is transmission of GPD ZCL Tunneling command (0xF6) supported?   | [R4] A.4.2.3.5                 | GPPCCF8: M.16<br>(GPPCSF7  GPPCSF8)&&<br>GPDRXA6: M |         |
| GPF110      | Is reception of GPD ZCL Tunneling command (0xF6) supported?  | [R4] A.4.2.3.5                 | GPPCCF8: M.16<br>GPPCSF7  GPPCSF8: X                |         |
| GPF111      | List the functionality accessible via GPD ZCL Tunneling command.<br>List the ZCL generic command, with the corresponding ClusterID(s) and AttributeID(s), if any.<br>List the cluster-specific CommandIDs per ZCL-defined Cluster, if any.<br>Manufacturer-specific functionality doesn't have to be listed. |                                | GPF109: M   |         |

### 11.3.4.2 Green Power Commissioning Support

Table 10 – GP Commissioning Support

| Item number | Item description   | Reference      | Status  | Support |
|-------------|--|----------------|---|---------|
| GPCF1       | Does the device support pairing with Data GPDF with Auto-Commissioning bit set to 0b1?<br><i>Note: According to the current version of the specification, only GPD that support <code>gpdSecurityLevel = 0b10</code> or higher AND support TC-LK protection of the GPD key, if exchanged over the air, can be certified.</i> | [R4] A.3.9     | GPPCCF11: M<br>(GPPCSF10    GPPCSF11): O<br>GPPCSF14: M<br>GPDT4: M | Y       |
| GPCF2       | Does the device support pairing with Commissioning GPDF?   | [R4] A.3.9     | GPPCCF11: M<br>(GPPCSF10    GPPCSF11): : M<br>GPDT4: M              | Y       |
| GPCF3A      | Does the device support transmission of GPD Commissioning command?   | [R4] A.4.2.1.1 | GPDT1: X  |         |
| GPCF3B      | Does the device support reception of GPD Commissioning command?  | [R4] A.4.2.1.1 | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M                  | Y       |
| GPCF4       | Does the device support bidirectional communication in commissioning mode?   | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M                  | Y       |
| GPCF5A      | Does the device support transmission of the GPD Channel Request command in commissioning mode?   | [R4] A.3.9     | GPDT1: X  |         |
| GPCF5B      | Does the device support reception of the GPD Channel Request command in commissioning mode?  | [R4] A.3.9     | GPPCCF11: M<br>(GPPCSF10    GPPCSF11): M                            | Y       |
| GPCF6       | Does the device support transmission of the GPD Channel Configuration command?   | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M                  | Y       |
| GPCF6A      | Does the device support transmission of the GPD Channel Configuration command in commissioning mode, as a Maintenance frame?   | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M                  | Y       |
| GPCF6B      | Does the device support transmission of the GPD Channel Configuration command in operational mode, as a Data frame?  | [R4] A.3.9     | GPPCCF8    GPPCCF13: M<br>GPPCSF13: M<br>GPDT4: O                   |         |
| GPCF7       | Does the device support reception of the GPD Channel Configuration command?  | [R4] A.3.9     | GPDT1: X  |         |
| GPCF8       | Does the device support transmission of the GPD Commissioning Reply command?   | [R4] A.4.2.1.2 | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M                  | Y       |
| GPCF8A      | Does the device support transmission of the GPD Commissioning Reply command in commissioning mode?   | [R4] A.4.2.1.2 | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M                  | Y       |

| Item number | Item description   | Reference      | Status   | Support |
|-------------|--|----------------|--|---------|
| GPCF8B      | Does the device support transmission of the GPD Commissioning Reply command in operational mode?   | [R4] A.4.2.1.2 | GPPCCF8    GPPCCF13: M<br>GPPCSF13: M<br>GPDT4: O  |         |
| GPCF9       | Does the device support reception of the GPD Commissioning Reply command?  | [R4] A.4.2.1.2 | GPDT1: X   |         |
| GPCF10      | Is GPD removal via GPD Decommissioning command supported?  | [R4] A.4.2.1.3 | GPPCCF11: M<br>GPPCSF10  GPPCSF11: M<br>GPDT4: M   | Y       |
| GPCF11      | Does the device come with pre-configured GPD key?  | [R4] A.3.9     | GPDT1: X   |         |
| GPCF12A     | Does the device support GPD key exchange in GPD Commissioning command?   | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M | Y       |
| GPCF12B     | Does the device support exchange of encrypted GPD key in GPD Commissioning command?  | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M | Y       |
| GPCF13A     | Does the device support GPD key exchange in GPD Commissioning Reply command?   | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M | Y       |
| GPCF13B     | Does the device support exchange of encrypted GPD key in GPD Commissioning Reply command?  | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10  GPPCSF11: M<br>GPDT4: M   | Y       |
| GPCF14      | Does the device support out-of-band GPD key configuration?   | [R4] A.3.9     | GPDT2: O<br>GPDT3: O<br>GPDT4: O                   |         |
| GPCF15A     | Does the device support transmission of GPD Success command in commissioning mode?   | [R4] A.3.9     | GPDT1: X   |         |
| GPCF15B     | Does the device support reception of GPD Success command in commissioning mode?  | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M | Y       |
| GPCF16      | Does the device support in-band configuration of PANId (via GPD Commissioning Reply command)?  | [R4] A.3.9     | GPPCCF11: M<br>GPPCSF10    GPPCSF11: M<br>GPDT4: M | Y       |
| GPCF17      | Does the device support transmission of GPD Commissioning command with Application information?  | [R4] A.4.2.1.1 | GPDT1: X   |         |
| GPCF17A     | Does the device support transmission of the GPD Commissioning command with the ModelID?  | [R4] A.4.2.1.1 | GPDT1: X   |         |
| GPCF17B     | Does the device support transmission of the GPD Commissioning command with the ManufacturerID?<br>If YES, specify the ManufacturerID used.                                       | [R4] A.4.2.1.1 | GPDT1: X   |         |
| GPCF17C     | Does the device support transmission of the GPD Commissioning command with the GPD command list containing GPD-defined commands?<br>If YES, list the GPD commands used.          | [R4] A.4.2.1.1 | GPDT1: X   |         |
| GPCF17D     | Does the device support transmission of the GPD Commissioning command with the GPD command list containing manufacturer-defined commands?<br>If YES, list the GPD commands used. | [R4] A.4.2.1.1 | GPDT1: X   |         |
| GPCF17E     | Does the device support transmission of the GPD Commissioning command with the Cluster list containing ZCL-defined clusters?<br>If YES, list the ZCL clusters used.              | [R4] A.4.2.1.1 | GPDT1: X   |         |
| GPCF17F     | Does the device support transmission of the GPD Commissioning command with the Cluster list containing manufacturer-specific clusters?<br>If YES, list the GPD commands used.    | [R4] A.4.2.1.1 | GPDT1: X   |         |
| GPCF18      | Does the device support reception of GPD Commissioning command with Application information?   | [R4] A.4.2.1.1 | GPCF3B: O  |         |
| GPCF18A     | Does the device support reception of the GPD Commissioning command with the ModelID?   | [R4] A.4.2.1.1 | GPCF18: M  |         |

| Item number | Item description  | Reference      | Status                                   | Support |
|-------------|---|----------------|--|---------|
| GPCF18B     | Does the device support reception of the GPD Commissioning command with the ManufacturerID?<br>If yes, list the ManufacturerID supported.   | [R4] A.4.2.1.1 | GPCF18: M                                |         |
| GPCF18C     | Does the device support reception of the GPD Commissioning command with the GPD command list containing GPD-defined commands?<br>If yes, list the GPD commands supported.                                   | [R4] A.4.2.1.1 | GPCF18: M                                |         |
| GPCF18D     | Does the device support reception of the GPD Commissioning command with the GPD command list containing manufacturer-defined GPD commands?<br>If yes, list the GPD commands supported.                      | [R4] A.4.2.1.1 | GPCF18: M                                |         |
| GPCF18E     | Does the device support reception of the GPD Commissioning command with the Cluster list containing ZCL-defined clusters?<br>If yes, list the ZCL clusters controllable via GP.                             | [R4] A.4.2.1.1 | GPCF18: M                                |         |
| GPCF18F     | Does the device support reception of the GPD Commissioning command with the Cluster list containing manufacturer-specific clusters?<br>If yes, list the manufacturer-specific clusters controllable via GP. | [R4] A.4.2.1.1 | GPCF18: M                                |         |
| GPCF100     | Is writing into Sink Table attribute via generic ZCL command supported during commissioning mode?   | [R4] A.3.3.2   | GPPCCF12: N/A<br>GPPCSF12: X<br>GPDT4: X |         |
| GPCF101     | Is writing into Sink Table attribute via generic ZCL command supported during operational mode?   | [R4] A.3.3.2   | GPPCCF12: N/A<br>GPPCSF12: X<br>GPDT4: X |         |
| GPCF102     | Is writing into Proxy Table attribute via generic ZCL command supported during commissioning mode?  | [R4] A.3.4.2   | GPPCCF12: X<br>GPPCSF12: N/A<br>GPDT4: X |         |
| GPCF103     | Is writing into Proxy Table attribute via generic ZCL command supported during operational mode?  | [R4] A.3.4.2   | GPPCCF12: X<br>GPPCSF12: N/A<br>GPDT4: X |         |

## 11.4 GPS application functionality

### 11.4.1.1 GPS device description support

In Table 11, device descriptions for the GPS (GPDT3, i.e. GPDT3t, GPDT3t+, GPDT3c and GPDT3CB) are given.

These PICS items are not applicable to the other GP device types (i.e. GPDT0: X, GPDT1: X, GPDT2: X, GPDT4: X).

**Table 11 – GPS device description support**

| Item number | Item description  | Reference    | Status                    | Support |
|-------------|---|--------------|---------------------------|---------|
| GPS1A       | Is the product programmed with support for GP Simple generic 1-state switch functionality?                            | [R4] A.4.3   | GPDT3: O.17 <sup>10</sup> |         |
| GPS1B       | Is the product programmed with support for GP Simple generic 2-state switch functionality?                            | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS2        | Is the product programmed with (GP-controllable) server-side On/Off cluster?  | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS3        | Is the product programmed with (GP-controllable) server-side Level Control cluster?                                   | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS4        | Is the product programmed with (GP-controllable) client-side Binary Input cluster?                                    | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS5        | Is the product programmed with (GP-controllable) server-side Color control cluster?                                   | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS6        | Is the product programmed with (GP-controllable) client-side Illuminance Measurement cluster?                         | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS7        | Is the product programmed with (GP-controllable) client-side Occupancy Sensing cluster?                               | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS8        | Is the product programmed with (GP-controllable) server-side Door Lock cluster?                                       | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS9        | Is the product programmed with (GP-controllable) client-side Temperature measurement cluster?                         | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS10       | Is the product programmed with (GP-controllable) client-side Pressure Measurement cluster?                            | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS11       | Is the product programmed with (GP-controllable) client-side Flow Measurement cluster?                                | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS12       | Is the product programmed with (GP-controllable) client-side Relative Humidity Measurement cluster?                   | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS14A      | Is the product programmed with support for GP Advanced generic 1-state switch functionality?                          | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS14B      | Is the product programmed with support for GP Advanced generic 2-state switch functionality?                          | [R4] A.4.3   | GPDT3: O.17               |         |
| GPS15       | Is the product programmed with support for other GP functionality?  | [R4] A.4.3.1 | GPDT3: O.17               |         |
| GPS15A      | What manufacturer-defined GPD commands does the product support? List ManufacturerID and GPD CommandIDs.              | [R4] A.4.3.1 | GPS15: O.35 <sup>11</sup> |         |
| GPS15B      | What additional GP-controllable clusters does the product support? List (public) ZCL ClusterIDs,                      | [R4] A.4.3.1 | GPS15: O.35               |         |
| GPS15C      | What manufacturer-specific GP-controllable clusters does the product support? List ManufacturerID and GPD ClusterIDs. | [R4] A.4.3.1 | GPS15: O.35               |         |

<sup>10</sup> O.17: DUT shall implement at least one of those options.

<sup>11</sup> O.35: DUT shall support at least one of those options.

## 11.4.2 GPD command support by GPS

Note: all the commands below are transparent to GPP, thus GPDT2: X. For GPDT0: X.

**Table 12 – GPD commands support - reception**

| Item number | Item description                                      | Reference                  | Status                   | Support |
|-------------|---|----------------------------|--------------------------|---------|
| GPDRX10     | Is reception of GPD Recall Scene 0 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX11     | Is reception of GPD Recall Scene 1 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX12     | Is reception of GPD Recall Scene 2 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX13     | Is reception of GPD Recall Scene 3 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX14     | Is reception of GPD Recall Scene 4 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX15     | Is reception of GPD Recall Scene 5 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX16     | Is reception of GPD Recall Scene 6 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX17     | Is reception of GPD Recall Scene 7 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O                 |         |
| GPDRX18     | Is reception of GPD Store Scene 0 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX10: O   |         |
| GPDRX19     | Is reception of GPD Store Scene 1 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX11: O   |         |
| GPDRX1a     | Is reception of GPD Store Scene 2 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX12: O   |         |
| GPDRX1b     | Is reception of GPD Store Scene 3 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX13: O   |         |
| GPDRX1c     | Is reception of GPD Store Scene 4 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX14: O   |         |
| GPDRX1d     | Is reception of GPD Store Scene 5 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX15: O   |         |
| GPDRX1e     | Is reception of GPD Store Scene 6 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX16: O   |         |
| GPDRX1f     | Is reception of GPD Store Scene 7 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT3: O<br>GPDRX17: O   |         |
| GPDRX20     | Is reception of GPD Off command supported?            | [R4] A.4.3<br>[R4] A.4.1   | GPS2: O.20 <sup>12</sup> |         |
| GPDRX21     | Is reception of GPD On command supported?             | [R4] A.4.3<br>[R4] A.4.1   | GPS2 &&<br>GPDRX21: M    |         |
| GPDRX22     | Is reception of GPD Toggle command supported?         | [R4] A.4.3<br>[R4] A.4.1   | GPS2: O.20               |         |
| GPDRX23     | Is reception of GPD Release command supported?        | [R4] A.4.3<br>[R4] A.4.1   | GPS2: M                  |         |
| GPDRX30     | Is reception of GPD Move up command supported?        | [R4] A.4.3<br>[R4] A.4.2.4 | GPS3: O.21 <sup>13</sup> |         |

<sup>12</sup> O.20: DUT shall implement exactly one of those options.

<sup>13</sup> O.21: DUT shall implement at least one of those options.

| Item number | Item description   | Reference                                | Status                                | Support |
|-------------|--|--|---------------------------------------|---------|
| GPDRX31     | Is reception of GPD Move Down command supported?               | [R4] A.4.3<br>[R4] A.4.2.4               | GPS3 &&<br>GPDRX30: M                 |         |
| GPDRX32     | Is reception of GPD Step UP command supported?                 | [R4] A.4.3<br>[R4] A.4.2.4               | GPS3: O.21                            |         |
| GPDRX33     | Is reception of GPD Step Down command supported?               | [R4] A.4.3<br>[R4] A.4.2.4               | GPS3 &&<br>GPDRX32: M                 |         |
| GPDRX34     | Is reception of GPD Stop command supported?                    | [R4] A.4.3<br>[R4] A.4.1                 | GPS3 &&<br>(GPDRX30   <br>GPDRX35): M |         |
| GPDRX35     | Is reception of GPD Move Up (with On/Off) command supported?   | [R4] A.4.3<br>[R4] A.4.2.4               | GPS3: O.21                            |         |
| GPDRX36     | Is reception of GPD Move Down (with On/Off) command supported? | [R4] A.4.3<br>[R4] A.4.2.4               | GPS3: O.21<br>&&GPDRX35               |         |
| GPDRX37     | Is reception of GPD Step Up (with On/Off) command supported?   | [R4] A.4.3<br>[R4] A.4.2.4               | GPS3: O.21                            |         |
| GPDRX38     | Is reception of GPD Step Down (with On/Off) command supported? | [R4] A.4.3<br>[R4] A.4.2.4               | GPS3: O.21<br>&&GPDRX37               |         |
| GPDRX40     | Is reception of GPD Move Hue command supported?                | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22 <sup>14</sup>              |         |
| GPDRX41     | Is reception of GPD Move Hue Up command supported?             | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22                            |         |
| GPDRX42     | Is reception of GPD Move Hue Down command supported?           | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5 && GPDRX41                       |         |
| GPDRX43     | Is reception of GPD Step Hue Up command supported?             | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22                            |         |
| GPDRX44     | Is reception of GPD Step Hue Down command supported?           | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5 && GPDRX43                       |         |
| GPDRX45     | Is reception of GPD Move Saturation command supported?         | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22                            |         |
| GPDRX46     | Is reception of GPD Move Saturation Up command supported?      | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22                            |         |
| GPDRX47     | Is reception of GPD Move Saturation Down command supported?    | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5 && GPDRX46                       |         |
| GPDRX48     | Is reception of GPD Step Saturation Up command supported?      | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22                            |         |
| GPDRX49     | Is reception of GPD Step Saturation Down command supported?    | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5 && GPDRX48                       |         |
| GPDRX4a     | Is reception of GPD Move Color command supported?              | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22                            |         |
| GPDRX4b     | Is reception of GPD Step Color command supported?              | [R4] A.4.3<br>[R4] A.4.2.5               | GPS5: O.22                            |         |
| GPDRX50     | Is reception of GPD Lock Door command supported?               | [R4] A.4.3<br>[R4] A.4.1                 | GPS8: M                               |         |
| GPDRX51     | Is reception of GPD Unlock Door command supported?             | [R4] A.4.3<br>[R4] A.4.1                 | GPS8: M                               |         |
| GPDRX60     | Is reception of GPD Press 1 of 1 command supported?            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS1A: M<br>GPS14A: M                 |         |
| GPDRX61     | Is reception of GPD Release 1 of 1 command supported?          | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS1A: M<br>GPS14A: M                 |         |
| GPDRX62     | Is reception of GPD Press 1 of 2 command supported?            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS1B: M<br>GPS14B: M                 |         |
| GPDRX63     | Is reception of GPD Release 1 of 2 command supported?          | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS1B: M<br>GPS14B: M                 |         |

<sup>14</sup> O.22: DUT shall implement at least one of those options.



| Item number | Item description   | Reference                                | Status   | Support |
|-------------|--|--|--|---------|
| GPDRX64     | Is reception of GPD Press 2 of 2 command supported?                                  | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS1B: M<br>GPS14B: M  |         |
| GPDRX65     | Is reception of GPD Release 2 of 2 command supported?                                | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS1B: M<br>GPS14B: M  |         |
| GPDRX66     | Is reception of GPD Short press 1 of 1 command supported?                            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS14A: M  |         |
| GPDRX67     | Is reception of GPD Short press 1 of 2 command supported?                            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS14B: M  |         |
| GPDRX68     | Is reception of GPD Short press 2 of 2 command supported?                            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPS14B: M  |         |
| GPDRXA0     | Is reception of GPD Attribute reporting command supported?                           | [R4] A.4.3<br>[R4] A.4.2.3               | GPS4,<br>GPS6,<br>GPS7,<br>GPS9,<br>GPS10,<br>GPS11,<br>GPS12,<br>: M                      |         |
| GPDRXA1     | Is reception of GPD Manufacturer-specific attribute reporting command supported?     | [R4] A.4.3<br>[R4] A.4.2.3               | GPS4,<br>GPS6,<br>GPS7,<br>GPS9,<br>GPS10,<br>GPS11,<br>GPS12,<br>: M                      |         |
| GPDRXA2     | Is reception of GPD Multi-cluster reporting command supported?                       | [R4] A.4.3<br>[R4] A.4.2.3               | GPS4,<br>GPS6,<br>GPS7,<br>GPS9,<br>GPS10,<br>GPS11,<br>GPS12,<br>: M                      |         |
| GPDRXA3     | Is reception of GPD manufacturer-specific multi-cluster reporting command supported? | [R4] A.4.3<br>[R4] A.4.2.3               | GPS4,<br>GPS6,<br>GPS7,<br>GPS9,<br>GPS10,<br>GPS11,<br>GPS12: M                           |         |
| GPDRXA6     | Is reception of GPD ZCL Tunneling command supported?                                 | [R4] A.4.3                               | GPS4,<br>GPS6,<br>GPS7,<br>GPS9,<br>GPS10,<br>GPS11,<br>GPS12: M<br>GPS15C    GPS15B:<br>M |         |

## 12 Green Power Device functionality

The PICS items in section 12 are only applicable to the GPD (GPDT0). They are not applicable to the other GP device types (i.e. GPDT1: X, GPDT2: X, GPDT3: X, GPDT4: X). If the GPD supports multiple SrcID (in case of *ApplicationID* = 0b000) or multiple Endpoints (in case of *ApplicationID* = 0b010), the SrcID/Endpoint supporting a given PICS item shall be indicated in the corresponding Support column.

### 12.1 GPD device description support

In Table 13, device descriptions for the GPD (GPDT0) are given.

Table 13 – GPD device description support

| Item number | Item description  | Reference    | Status                      | Support |
|-------------|---|--------------|-----------------------------|---------|
| GPDT0       | Is the product programmed as a GP Simple Generic 1-state Switch?  | [R4] A.4.3   | GPDT0: O.23 <sup>15</sup>   |         |
| GPDT1       | Is the product programmed as a GP Simple Generic 2-state Switch?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT2       | Is the product programmed as a GP On/Off Switch?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT3       | Is the product programmed as a GP Level Control Switch?   | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT4       | Is the product programmed as a GP Simple Sensor?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT5       | Is the product programmed as a GP Advanced Generic 1-state Switch?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT5B      | What is the value of the short press time threshold?  | [R4] A.4.2.2 | Implementation-specific     |         |
| GPDT6       | Is the product programmed as a GP Advanced Generic 2-state Switch?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT6B      | What is the value of the short press time threshold?  | [R4] A.4.2.2 | Implementation-specific     |         |
| GPDT10      | Is the product programmed as a GP Color Dimmer Switch?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT11      | Is the product programmed as a GP Light Sensor?   | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT12      | Is the product programmed as a GP Occupancy Sensor?   | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT20      | Is the product programmed as a GP Door Lock Controller?   | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT30      | Is the product programmed as a GP Temperature Sensor?   | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT31      | Is the product programmed as a GP Pressure Sensor?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT32      | Is the product programmed as a GP Flow Sensor?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT33      | Is the product programmed as a GP Indoor Environment Sensor?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT100     | Does the product deviate from the standard GPD functionality mandatory for the product's DeviceID?  | [R4] A.4.3.1 | GPDT0: O                    |         |
| GPDT100A    | Does the standard GPD Data command set supported by the product deviate from the standard GPD Data command set mandatory for the product's DeviceID?<br>If yes, list all standard GPD CommandIDs supported. | [R4] A.4.3.1 | GPDT100: O.35 <sup>16</sup> |         |
| GPDT100B    | Does the standard ZCL cluster set supported by the product deviate from the standard ZCL cluster set mandatory for the product's DeviceID?<br>If yes, list all standard ZCL ClusterIDs supported,           | [R4] A.4.3.1 | GPDT100: O.35               |         |
| GPDTFE      | Is the product programmed as an undefined GP device (DeviceID = 0xFE)?  | [R4] A.4.3   | GPDT0: O.23                 |         |
| GPDT101     | Is the product with DeviceID = 0xFE programmed with support any standard functionality?<br>Note: a GPD not supporting any standard functionality cannot be certified.                                       | [R4] A.4.3.1 | GPDTFE: M                   |         |

<sup>15</sup> O.23: DUT shall implement exactly one of those options.

<sup>16</sup> O.35: DUT may support at least one of those options.

| Item number | Item description  | Reference    | Status                    | Support |
|-------------|---|--------------|---------------------------|---------|
| GPD101A     | Is the product programmed with support for any standard GPD Data command?<br>If yes, list all standard GPD CommandIDs supported.                              | [R4] A.4.3.1 | GPDT0: O.36 <sup>17</sup> |         |
| GPD101B     | Is the product programmed with support for any standard ZCL cluster in a server role?<br>If yes, list all standard ZCL ClusterIDs supported in a server role: | [R4] A.4.3.1 | GPDT0: O.36               |         |
| GPD101C     | Is the product programmed with support for any standard ZCL cluster in a client role?<br>If yes, list all standard ZCL ClusterIDs supported in a client role: | [R4] A.4.3.1 | GPDT0: O.36               |         |

## 12.2 GPD functionality

Table 14 – GPD functionality

| Item number | Item description  | Reference                      | Status                         | Support |
|-------------|---|--------------------------------|--------------------------------|---------|
| GPSF1       | Does the device implement cGP stub?   | [R4] A.1                       | GPDT0: X                       |         |
| GPSF2       | Does the device implement dGP stub?   | [R4] A.1                       | GPDT0: X                       |         |
| GPPC1       | Does the device support Green Power End Point (GPEP)?   | [R4] A.3.1                     | GPDT0: X                       |         |
| GPF4A       | Does the device support transmitting GPDF frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b000?   | [R4] A.1.4.1.3                 | GPDT0: O.22 <sup>18</sup>      |         |
| GPF4B       | Does the device support transmitting GPDF frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b010?   | [R4] A.1.4.1.3                 | GPDT0: O.22                    |         |
| GPFA1       | Does the device support multiple SrcID?<br>If yes, list the SrcIDs.   | [R4] A.1.6.2.1                 | GPFA: O<br>GPF4B: X            |         |
| GPFA2       | Apart from Endpoint 0x00 and 0xFF, does the device support multiple Endpoints from the range 0x01 – 0xF0?<br>If yes, list the Endpoints.  | [R4] A.1.6.2.2                 | GPFA: X<br>GPF4B: O            |         |
| GPF5        | Does the device support SecurityLevel=0b11?   | [R4] A.1.5.4<br>[R4] A.3.7.2.1 | GPDT0: O.24 <sup>19</sup>      |         |
| GPF6        | Does the device support SecurityLevel=0b10?   | [R4] A.1.5.4<br>[R4] A.3.7.2.1 | GPDT0: O.24                    |         |
| GPF7        | Does the device support SecurityLevel=0b01? (deprecated)  | [R4] A.1.5.4<br>[R4] A.3.7.2.1 | GPDT0: X<br>(deprecated)       |         |
| GPF8A       | Does the device support SecurityLevel=0b00 in commissioning?  | [R4] A.1.5.4<br>[R4] A.3.9.1   | GPDT0: O<br>GPDT0: && GPCF4: M |         |
| GPF8B       | Does the device support SecurityLevel=0b00 in operation?<br><i>According to the current version of the specification, only GPD that support gpdSecurityLevel = 0b10 or higher AND support TC-LK protection of the GPD key, if exchanged over the air, can be certified.</i>     | [R4] A.1.5.4<br>[R4] A.3.7.2.1 | GPDT0: O                       |         |
| GPF10A      | Does the device support receiving GPDF frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b000 and <i>Frame type</i> sub-field of the <i>NWK Frame Control</i> field set to 0b00 (Data frame) in operation, with security? | [R4] A.1.4.1.3                 | GPDT0&&GPF4A: O<br>(GPF4B: X)  |         |
| GPF10B      | Does the device support receiving GPDF frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b010 in operation, with security?  | [R4] A.1.4.1.3                 | GPDT0&&GPF4B: O<br>(GPF4A: X)  |         |
| GPF10C      | Does the device support receiving in commissioning mode a GPDF frame format with <i>Frame type</i> sub-field of the <i>NWK Frame Control</i> field set to 0b01 (Maintenance frame)?   | [R4] A.1,<br>A.3.9             | GPDT0 && GPCF4: M              |         |

<sup>17</sup> O.36: DUT shall support at least one of those options.

<sup>18</sup> O.22: Device under test shall implement only one of those options

<sup>19</sup> O.24: Device under test shall implement at least one of those options.

| Item number | Item description   | Reference         | Status                                | Support |
|-------------|--|-------------------|---------------------------------------|---------|
| GPF10D      | Does the device support receiving GPDF frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b000 and <i>Frame type</i> sub-field of the <i>NWK Frame Control</i> field set to 0b00 (Data frame) in commissioning, without security? | [R4] A.1, A.3.9   | GPDT0 && GPF4A && GPCF4: M (GPF4B: X) |         |
| GPF10E      | Does the device support receiving GPDF frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b010 in commissioning, without security?  | [R4] A.1, A.3.9   | GPDT0 && GPF4B && GPCF4: M (GPF4A: X) |         |
| GPDF2       | Does the device support incremental MAC sequence number for GPD commands?  | [R4] A.1.6, A.1.7 | GPDT0 && (GPFA    GPF8B): O           |         |
| GPDF3       | Is the FixedLocation flag in the Commissioning GPD command set?  | [R4] A.1.6, A.1.7 | GPDT0: O                              |         |

## 12.2.1 GPD Bidirectional operation

**Table 15 – Support for GreenPower functionality**

| Item number | Item description   | Reference                      | Status             | Support |
|-------------|--|--------------------------------|--------------------|---------|
| GPF100      | Does the device support bidirectional communication in operational mode?   | [R4] A.1.6.3<br>[R4] A.3.6.1.5 | GPDT0: O           |         |
| GPF101      | Is transmission of GPD Read Attributes command supported?  | [R4] A.4.2.5                   | GPDT0: X           |         |
| GPF102      | Is reception of GPD Read Attributes command supported?   | [R4] A.4.2.5                   | GPDT0&&GPF100: M   |         |
| GPF103      | Is transmission of GPD Read Attributes Response supported?   | [R4] A.4.2.5                   | GPDT0&&GPF100: M   |         |
| GPF104      | Is reception of GPD Read Attributes Response command supported?  | [R4] A.4.2.5                   | GPDT0: X           |         |
| GPF105      | Is transmission of GPD Request Attributes command supported?   | [R4] A.4.2.5                   | GPDT0&&GPF100: O   |         |
| GPF106      | Is reception of GPD Request Attributes command supported?  | [R4] A.4.2.5                   | GPDT0: X           |         |
| GPF107      | Is transmission of GPD Write Attributes command supported?   | [R4] A.4.2.5                   | GPDT0: X           |         |
| GPF108      | Is reception of GPD Write Attributes command supported?  | [R4] A.4.2.5                   | GPDT0&&GPF100: O   |         |
| GPF109      | Is transmission of GPD ZCL Tunneling command (0xF6) supported?   | [R4] A.4.2.3.5                 | GPDT0: X           |         |
| GPF110      | Is reception of GPD ZCL Tunneling command (0xF6) supported?  | [R4] A.4.2.3.5                 | GPDT0&& GPDTXA6: M |         |
| GPF111      | List the functionality accessible via GPD ZCL Tunneling command.<br>List the ZCL generic command, with the corresponding ClusterID(s) and AttributeID(s), if any.<br>List the cluster-specific CommandIDs per ZCL-defined Cluster, if any.<br>Manufacturer-specific functionality doesn't have to be listed. |                                | GPF110: M          |         |

## 12.2.2 GPD commissioning support

Table 16 – GP Commissioning Feature Support

| Item number | Item description   | Reference                                  | Status  | Support |
|-------------|--|--|---|---------|
| GPCF0       | Does the device support re-commissioning (to another network/channel), after it was already commissioned?<br><i>Note: for GPDs supporting decommissioning/reset (GPCF10A/B), it is permissible to re-commission only after reset.</i>  | [R4] A.1.7.3.2                             | M   |         |
| GPCF1       | Does the device support pairing with Data GPDF with Auto-Commissioning bit set to 0b1?<br><i>Note: According to the current version of the specification, only GPD that support <code>gpdSecurityLevel = 0b10</code> or higher AND support TC-LK protection of the GPD key, if exchanged over the air, can be certified.</i> | [R4] A.3.9<br>[R4] A.1.4,<br>A.1.6         | GPDT0: O.26   |         |
| GPCF2       | Does the device support pairing with Commissioning GPDF?   | [R4] A.3.9<br>[R4] A.4.2.1.1               | GPDT0: O.26 <sup>20</sup><br>GPDT0 && (GPD4  <br>GPD11  <br>GPD12  <br>GPD30  <br>GPD31  <br>GPD32  <br>GPD33): M |         |
| GPCF3A      | Does the device support transmission of GPD Commissioning command?   | [R4] A.4.2.1.1                             | GPDT0&&GPCF2: M   |         |
| GPCF3B      | Does the device support reception of GPD Commissioning command?  | [R4] A.4.2.1.1                             | GPDT0: X  |         |
| GPCF4       | Does the device support bidirectional communication in commissioning mode?   | [R4] A.3.9                                 | GPDT0: O  |         |
| GPDF10      | Does the device support configuration of operational channel when in commissioning mode?   | [R4] A.3.9                                 | GPDT0: O  |         |
| GPDF10A     | Does the device support out-of-band configuration of operational channel?  | [R4] A.3.9                                 | GPDT0: O.27 <sup>21</sup><br>(GPDT0 && GPCF4): X  |         |
| GPDF10B     | Does the device support configuration of operational channel via channel toggling (GPD Commissioning command with RxAfterTx = 0b0)?  | [R4] A.3.9                                 | GPDT0: O.27<br>(GPDT0 && GPCF4): X  |         |
| GPDF10C     | Does the device support in-band configuration of operational channel (via GPD Channel Request/Channel Configuration command)?  | [R4] A.3.9                                 | GPDT0: O.27<br>(GPDT0 && GPCF4): M  |         |
| GPDF10D     | Does the device support the recommended channel set (11, 15, 20, 25)?  | [R4] A.1.6,<br>A.1.7                       | GPDT0&&GPCF16: M  |         |
| GPDF10E     | Does the device support the full channel set (11- 25 (26))? If the device does not support a full channel set, indicate which channels are supported?  | [R4] A.1.6,<br>A.1.7                       | GPDT0: O  |         |
| GPCF5A      | Does the device support transmission of the GPD Channel Request command in commissioning mode?   | [R4] A.3.9<br>[R4] A.4.2.1.4<br>[R4] A.1.4 | GPDT0: O<br>GPDT0 &&(GPCF4  <br>GPDF10C): M   |         |
| GPCF5B      | Does the device support reception of the GPD Channel Request command in commissioning mode?  | [R4] A.3.9<br>[R4] A.4.2.1.4<br>[R4] A.1.4 | GPDT0: X  |         |
| GPCF6       | Does the device support transmission of the GPD Channel Configuration command?   | [R4] A.3.9<br>[R4] A.4.2.1.5<br>[R4] A.1.4 | GPDT0: X  |         |
| GPCF7       | Does the device support reception of the GPD Channel Configuration command?  | [R4] A.3.9<br>[R4] A.4.2.1.5<br>[R4] A.1.4 | GPDT0: O  |         |
| GPCF7A      | Does the device support reception of the GPD Channel Configuration command in commissioning mode?  | [R4] A.3.9<br>[R4] A.4.2.1.5<br>[R4] A.1.4 | GPDT0: O<br>GPDT0<br>&&(GPCF4  GPDF10C): M  |         |
| GPCF7B      | Does the device support reception of the GPD Channel Configuration command in operational mode?  | [R4] A.6<br>[R4] A.4.2.1.5<br>[R4] A.1.4   | GPDT0: O<br>GPDT0 && (GPF10A   <br>GPF10B): O   |         |

<sup>20</sup> O.26: DUT should implement exactly one of those methods. Hull test event comment #81 (ZigBee document docs-11-5603)

<sup>21</sup> O.27: device under test shall support at least one of the methods.

| Item number | Item description   | Reference                    | Status   | Support |
|-------------|--|------------------------------|--|---------|
| GPCF8       | Does the device support transmission of the GPD Commissioning Reply command?   | [R4] A.4.2.1.2               | GPDT0: X   |         |
| GPCF9       | Does the device support reception of the GPD Commissioning Reply command?  | [R4] A.4.2.1.2               | GPDT0 && GPCF2: O  |         |
| GPCF9A      | Does the device support reception of the GPD Commissioning Reply command in commissioning mode?  | [R4] A.4.2.1.2               | GPDT0 && GPCF4: M  |         |
| GPCF9B      | Does the device support reception of the GPD Commissioning Reply command in operational mode?  | [R4] A.6                     | GPDT0 && (GPF10A    GPF10B): O   |         |
| GPCF10A     | Is GPD reset/decommissioning via an explicit user action supported?  | [R4] A.1.7.3.2               | GPDT0: O   |         |
| GPCF10B     | Is GPD removal via GPD Decommissioning command supported?  | [R4] A.4.2.1.3               | GPDT0: O<br>GPCF10A: O   |         |
| GPCF11      | Does the device come with pre-configured GPD key?  | [R4] A.3.9                   | GPDT0 && (GPF5  GPF6): O.28 <sup>22</sup>  |         |
| GPCF12A     | Does the device support GPD key exchange in GPD Commissioning command?   | [R4] A.3.9                   | GPDT0 && GPCF2: O<br>GPDT0 && GPCF11: M  |         |
| GPCF12B     | Does the device support exchange of encrypted GPD key in GPD Commissioning command?<br><i>Note: According to the current version of the specification, only GPD that support gpdSecurityLevel = 0b10 or higher AND support TC-LK protection of the GPD key, if exchanged over the air, can be certified.</i>       | [R4] A.3.9<br>[R4] A.1.5     | GPDT0 && GPCF11: M   |         |
| GPCF13A     | Does the device support GPD key exchange in GPD Commissioning Reply command?   | [R4] A.3.9                   | GPDT0 && (GPF5  GPF6): O.28<br>GPDT0 && GPCF9: O   |         |
| GPCF13B     | Does the device support exchange of encrypted GPD key in GPD Commissioning Reply command?<br><i>Note: According to the current version of the specification, only GPD that support gpdSecurityLevel = 0b10 or higher AND support TC-LK protection of the GPD key, if exchanged over the air, can be certified.</i> | [R4] A.3.9<br>[R4] A.1.5     | GPDT0 && GPCF13A: M  |         |
| GPCF14      | Does the device support out-of-band GPD key configuration?   | [R4] A.3.9                   | GPDT0 && (GPF5  GPF6): O.28  |         |
| GPCF15A     | Does the device support transmission of GPD Success command in commissioning mode?   | [R4] A.3.9<br>[R4] A.4.1     | GPDT0: O<br>GPDT0 && GPCF4: M  |         |
| GPCF15B     | Does the device support reception of GPD Success command when in commissioning mode?   | [R4] A.3.9<br>[R4] A.4.1     | GPDT0: X   |         |
| GPCF16      | Does the device support in-band configuration of PANID (via GPD Commissioning Reply command)?  | [R4] A.3.9<br>[R4] A.4.2.1.2 | GPDT0 && GPCF4: O  |         |
| GPCF17      | Does the device support transmission of GPD Commissioning command with Application information?  | [R4] A.4.2.1.1               | GPCF3A: O<br>GPD100: M<br>GPDFE: M<br>GPCF17A    GPCF17B    GPCF17C    GPCF17E: M            |         |
| GPCF17A     | Does the device support transmission of the GPD Commissioning command with the ModelID?<br>If YES, indicate the ModelID.   | [R4] A.4.2.1.1               | GPCF3A: O<br>GPCF17: O.33 <sup>23</sup>  |         |
| GPCF17B     | Does the device support transmission of the GPD Commissioning command with the ManufacturerID?<br>If YES, specify the ManufacturerID.  | [R4] A.4.2.1.1               | GPCF3A: O<br>GPCF17: O.33<br>GPCF17A    GPCF17D    GPCF17F: M                                |         |
| GPCF17C     | Does the device support transmission of the GPD Commissioning command with the GPD command list containing any standard GPD Data commands (0x00 – 0x9F, 0xF1, 0xF2, 0xF6)?<br>If yes AND if deviating from the GPD command list mandatory for the supported DeviceID, list all the standard GPD Data commands,     | [R4] A.4.2.1.1               | GPCF3A: O<br>GPCF17: O.33<br>GPD100    GPDFE: O.34 <sup>24</sup><br>GPD100A: M<br>GPD101A: M |         |

<sup>22</sup> O.28: DUT shall support at least one of those options.

<sup>23</sup> O.33: DUT should support at least one of this options

<sup>24</sup> O.34: DUT shall support at least one of this options

| Item number | Item description  | Reference      | Status  | Support |
|-------------|---|----------------|---|---------|
| GPCF17D     | Does the device support transmission of the GPD Commissioning command with the GPD command list containing manufacturer-defined commands?   | [R4] A.4.2.1.1 | GPCF3A: O<br>GPCF17: O.33                             |         |
| GPCF17E     | Does the device support transmission of the GPD Commissioning command with the Cluster list containing ZCL-defined clusters?<br><br>If yes AND if deviating from the ZCL clusters mandatory for the supported DeviceID, list all the standard ZCL clusters. | [R4] A.4.2.1.1 | GPCF3A: O<br>GPCF17: O.33<br>GPD100    GPDFE: O.34    |         |
| GPCF17F     | Does the device support transmission of the GPD Commissioning command with the Cluster list containing manufacturer-specific clusters?  | [R4] A.4.2.1.1 | GPCF3A: O<br>GPCF17: O.33<br>GPD100B: M<br>GPD101B: M |         |
| GPCF18      | Does the device support reception of GPD Commissioning command with Application information?  | [R4] A.4.2.1.1 | GPDT0: X  |         |
| GPCF18A     | Does the device support reception of the GPD Commissioning command with the ModelID?  | [R4] A.4.2.1.1 | GPDT0: X  |         |
| GPCF18B     | Does the device support reception of the GPD Commissioning command with the ManufacturerID?   | [R4] A.4.2.1.1 | GPDT0: X  |         |
| GPCF18C     | Does the device support reception of the GPD Commissioning command with the GPD command list containing GPD-defined commands?   | [R4] A.4.2.1.1 | GPDT0: X  |         |
| GPCF18D     | Does the device support reception of the GPD Commissioning command with the GPD command list containing manufacturer-defined GPD commands?  | [R4] A.4.2.1.1 | GPDT0: X  |         |
| GPCF18E     | Does the device support reception of the GPD Commissioning command with the Cluster list containing ZCL-defined clusters?   | [R4] A.4.2.1.1 | GPDT0: X  |         |
| GPCF18F     | Does the device support reception of the GPD Commissioning command with the Cluster list containing manufacturer-specific clusters?   | [R4] A.4.2.1.1 | GPDT0: X  |         |
| GPCF19      | Does the device support automatic progressing between the commissioning steps?  | [R4] A.3.9.1   | GPDT0: O<br>GPCF4: O                                  |         |
| GPCF100     | Is writing into Sink Table attribute via generic ZCL command supported during commissioning mode?   | [R4] A.3.3.2.2 | GPDT0: X  |         |
| GPCF101     | Is writing into Sink Table attribute via generic ZCL command supported during operational mode?   | [R4] A.3.3.2.2 | GPDT0: X  |         |
| GPCF102     | Is writing into Proxy Table attribute via generic ZCL command supported during commissioning mode?  | [R4] A.3.3.2.2 | GPDT0: X  |         |
| GPCF103     | Is writing into Proxy Table attribute via generic ZCL command supported during operational mode?  | [R4] A.3.3.2.2 | GPDT0: X  |         |



## 12.3 GPD application functionality

### 12.3.1 GPD command support by GPD

Table 17 – GPD commands support - transmission

| Item number | Item description   | Reference                  | Status                           | Support |
|-------------|--|----------------------------|----------------------------------|---------|
| GPDTX10     | Is transmission of GPD Recall Scene 0 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX11     | Is transmission of GPD Recall Scene 1 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX12     | Is transmission of GPD Recall Scene 2 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX13     | Is transmission of GPD Recall Scene 3 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX14     | Is transmission of GPD Recall Scene 4 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX15     | Is transmission of GPD Recall Scene 5 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX16     | Is transmission of GPD Recall Scene 6 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX17     | Is transmission of GPD Recall Scene 7 command supported? | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O                         |         |
| GPDTX18     | Is transmission of GPD Store Scene 0 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX10: O           |         |
| GPDTX19     | Is transmission of GPD Store Scene 1 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX11: O           |         |
| GPDTX1a     | Is transmission of GPD Store Scene 2 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX12: O           |         |
| GPDTX1b     | Is transmission of GPD Store Scene 3 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX13: O           |         |
| GPDTX1c     | Is transmission of GPD Store Scene 4 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX14: O           |         |
| GPDTX1d     | Is transmission of GPD Store Scene 5 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX15: O           |         |
| GPDTX1e     | Is transmission of GPD Store Scene 6 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX16: O           |         |
| GPDTX1f     | Is transmission of GPD Store Scene 7 command supported?  | [R4] A.4.3<br>[R4] A.4.1   | GPDT1: O<br>GPDTX17: O           |         |
| GPDTX20     | Is transmission of GPD Off command supported?            | [R4] A.4.3<br>[R4] A.4.1   | GPD2: O.29 <sup>25</sup>         |         |
| GPDTX21     | Is transmission of GPD On command supported?             | [R4] A.4.3<br>[R4] A.4.1   | GPD2: O.29<br>GPD2 && GPDTX20: O |         |
| GPDTX22     | Is transmission of GPD Toggle command supported?         | [R4] A.4.3<br>[R4] A.4.1   | GPD2: O.29                       |         |
| GPDTX23     | Is transmission of GPD Release command supported?        | [R4] A.4.3<br>[R4] A.4.1   | GPD2: O                          |         |
| GPDTX30     | Is transmission of GPD Move Up command supported?        | [R4] A.4.3<br>[R4] A.4.2.4 | GPD3: O.30 <sup>26</sup>         |         |
| GPDTX31     | Is transmission of GPD Move Down command supported?      | [R4] A.4.3<br>[R4] A.4.2.4 | GPD3: O.30<br>GPD3 && GPDTX30: O |         |
| GPDTX32     | Is transmission of GPD Step Up command supported?        | [R4] A.4.3<br>[R4] A.4.2.4 | GPD3: O.30                       |         |

<sup>25</sup> O.29: Device under test shall at least one of those options.

<sup>26</sup> O.30: Device under test has to implement at least one of those commands



| Item number | Item description  | Reference                                | Status   | Support |
|-------------|---|--|--|---------|
| GPDTX33     | Is transmission of GPD Step Down command supported?               | [R4] A.4.3<br>[R4] A.4.2.4               | GPD3: O.30<br>GPD3 && GPDTX32: O                 |         |
| GPDTX34     | Is transmission of GPD Stop command supported?                    | [R4] A.4.3<br>[R4] A.4.1                 | GPD3: O.30<br>GPD3 && (GPDTX30   <br>GPDTX35): O |         |
| GPDTX35     | Is transmission of GPD Move Up (with On/Off) command supported?   | [R4] A.4.3<br>[R4] A.4.2.4               | GPD3: O.30                                       |         |
| GPDTX36     | Is transmission of GPD Move Down (with On/Off) command supported? | [R4] A.4.3<br>[R4] A.4.2.4               | GPD3: O.30<br>GPD3&&GPDTX35: O                   |         |
| GPDTX37     | Is transmission of GPD Step Up (with On/Off) command supported?   | [R4] A.4.3<br>[R4] A.4.2.4               | GPD3: O.30                                       |         |
| GPDTX38     | Is transmission of GPD Step Down (with On/Off) command supported? | [R4] A.4.3<br>[R4] A.4.2.4               | GPD3: O.30<br>GPD3&&GPDTX37: O                   |         |
| GPDTX40     | Is transmission of GPD Move Hue command supported?                | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31 <sup>27</sup>                        |         |
| GPDTX41     | Is transmission of GPD Move Hue Up command supported?             | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31                                      |         |
| GPDTX42     | Is transmission of GPD Move Hue Down command supported?           | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31<br>GPD10 && GPDTX41: O               |         |
| GPDTX43     | Is transmission of GPD Step Hue Up command supported?             | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31                                      |         |
| GPDTX44     | Is transmission of GPD Step Hue Down command supported?           | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31<br>GPD10 && GPDTX43: O               |         |
| GPDTX45     | Is transmission of GPD Move Saturation command supported?         | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31                                      |         |
| GPDTX46     | Is transmission of GPD Move Saturation Up command supported?      | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31                                      |         |
| GPDTX47     | Is transmission of GPD Move Saturation Down command supported?    | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31<br>GPD10 && GPDTX46: O               |         |
| GPDTX48     | Is transmission of GPD Step Saturation Up command supported?      | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31                                      |         |
| GPDTX49     | Is transmission of GPD Step Saturation Down command supported?    | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31<br>GPD10 && GPDTX48: O               |         |
| GPDTX4a     | Is transmission of GPD Move Color command supported?              | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31                                      |         |
| GPDTX4b     | Is transmission of GPD Step Color command supported?              | [R4] A.4.3<br>[R4] A.4.2.5               | GPD10: O.31                                      |         |
| GPDTX50     | Is transmission of GPD Lock Door command supported?               | [R4] A.4.3<br>[R4] A.4.1                 | GPD20: O.37 <sup>28</sup>                        |         |
| GPDTX51     | Is transmission of GPD Unlock Door command supported?             | [R4] A.4.3<br>[R4] A.4.1                 | GPD20: O.37                                      |         |
| GPDTX60     | Is transmission of GPD Press 1 of 1 command supported?            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPD0: M<br>GPD5: M                               |         |
| GPDTX61     | Is transmission of GPD Release 1 of 1 command supported?          | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPD0: M<br>GPD5: M                               |         |
| GPDTX62     | Is transmission of GPD Press 1 of 2 command supported?            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPD1: M<br>GPD6: M                               |         |
| GPDTX63     | Is transmission of GPD Release 1 of 2 command supported?          | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPD1: M<br>GPD6: M                               |         |
| GPDTX64     | Is transmission of GPD Press 2 of 2 command supported?            | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPD1: M<br>GPD6: M                               |         |

<sup>27</sup> O.31: Device under test has to implement at least one of those commands

<sup>28</sup> O.37: Device under test has to implement at least one of those commands

| Item number | Item description   | Reference                                | Status  | Support |
|-------------|--|--|---|---------|
| GPDTX65     | Is transmission of GPD Release 2 of 2 command supported?   | [R4] A.4.3<br>[R4] A.4.1<br>[R4] A.4.2.2 | GPD1: M<br>GPD6: M  |         |
| GPDTX66     | Is transmission of GPD Short press 1 of 1 command supported?   | [R4] Table 43                            | GPD5: M   |         |
| GPDTX67     | Is transmission of GPD Short press 1 of 2 command supported?   | [R4] Table 43                            | GPD6: M   |         |
| GPDTX68     | Is transmission of GPD Short press 2 of 2 command supported?   | [R4] Table 43                            | GPD6: M   |         |
| GPDTXA0     | Is transmission of GPD Attribute reporting command supported?  | [R4] A.4.3<br>[R4] A.4.2.3               | GPD4,<br>GPD11,<br>GPD12,<br>GPD30,<br>GPD31,<br>GPD32<br>GPD33: O.32 <sup>29</sup> |         |
| GPDTXA1     | Is transmission of GPD Manufacturer-specific attribute reporting command supported?  | [R4] A.4.3<br>[R4] A.4.2.3               | GPD4,<br>GPD11,<br>GPD12,<br>GPD30,<br>GPD31,<br>GPD32<br>GPD33: O.32               |         |
| GPDTXA2     | Is transmission of GPD Multi-cluster reporting command supported?  | [R4] A.4.3<br>[R4] A.4.2.3               | GPD11,<br>GPD12,<br>GPD30,<br>GPD31,<br>GPD32<br>GPD33: O.32                        |         |
| GPDTXA3     | Is transmission of GPD manufacturer-specific multi-cluster reporting command supported?  | [R4] A.4.3<br>[R4] A.4.2.3               | GPD11,<br>GPD12,<br>GPD30,<br>GPD31,<br>GPD32<br>GPD33: O.32                        |         |
| GPDTXA6     | Is transmission of GPD ZCL Tunneling command (0xA6) supported?   | [R4] A.4.3<br>[R4] A.4.2.3               | GPDT0: O.32   |         |
| GPDTXA6.2   | List the functionality accessible via GPD ZCL Tunneling command.<br>List the ZCL generic command, with the corresponding ClusterID(s) and AttributeID(s), if any.<br>List the cluster-specific CommandIDs per ZCL-defined Cluster, if any.<br>Manufacturer-specific functionality doesn't have to be listed. |  | GPDTXA6: M  |         |

Note: all the commands below are transparent to GPP, thus GPDT2: X. For GPDT1: X.

<sup>29</sup> O.32: Device under test shall implement at least one of those commands.

## 12.3.2 ZigBee attribute support by GPD sensor devices

In Table 18 –

| Item number | Item description  | Reference  | Status                                   | Support |
|-------------|---|------------|--|---------|
| AREAD1      | Does the GPD support reading of the 0x0051: OutOfService attribute from Binary Input Cluster?   | [R4] A.4.3 | GPD4 && GPF102: M                        |         |
| AREAD2      | Does the GPD support reading of the 0x0055: PresentValue attribute from Binary Input Cluster?   | [R4] A.4.3 | GPD4 && GPF102: M                        |         |
| AREAD3      | Does the GPD support reading of the 0x006F: StatusFlags attribute from Binary Input Cluster?  | [R4] A.4.3 | GPD4 && GPF102: M                        |         |
| AREAD4      | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster?   | [R4] A.4.3 | GPD11 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD5      | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Illuminance Measurement Cluster?  | [R4] A.4.3 | GPD11 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD6      | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Illuminance Measurement Cluster?  | [R4] A.4.3 | GPD11 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD7      | Does the GPD support reading of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster?   | [R4] A.4.3 | GPD12 && GPF102: M                       |         |
| AREAD8      | Does the GPD support reading of the 0x0000: Occupancy Sensor Type attribute from Occupancy Sensing Cluster?   | [R4] A.4.3 | GPD12 && GPF102: M                       |         |
| AREAD9      | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster?   | [R4] A.4.3 | GPD30 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD10     | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Temperature Measurement Cluster?  | [R4] A.4.3 | GPD30 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD11     | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Temperature Measurement Cluster?  | [R4] A.4.3 | GPD30 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD12     | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster?  | [R4] A.4.3 | GPD31 && GPF102: M                       |         |
| AREAD13     | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster?  | [R4] A.4.3 | GPD32 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD14     | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Flow Measurement Cluster?   | [R4] A.4.3 | GPD32 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD15     | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Flow Measurement Cluster?   | [R4] A.4.3 | GPD32 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD16     | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Relative Humidity Cluster?   | [R4] A.4.3 | GPD33 && GPF102: M                       |         |
| AREAD17     | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Relative Humidity Cluster?  | [R4] A.4.3 | GPD33 && GPF102: M                       |         |
| AREAD18     | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Relative Humidity Cluster?  | [R4] A.4.3 | GPD33 && GPF102: M                       |         |
| AREADF      | Does the GPD support reading of any ZCL-defined attributes not specified above?<br>If yes, please list all, by including ClusterID and AttributeID. | [R4] A.4.3 | GPD0: O                                  |         |

Table 20, ZigBee attributes supported by the GPD devices are listed.

These PICS items are not applicable to the other GP device types.

Table 18 – Reported ZigBee attributes per GPD device

| Item number | Item description  | Reference  | Status  | Support |
|-------------|---|------------|---------|---------|
| AREP1       | Does the GPD support reporting of the 0x0055: PresentValue attribute from Binary Input Cluster? | [R4] A.4.3 | GPD4: M |         |

|       |   |            |                      |  |
|-------|---|------------|----------------------|--|
| AREP2 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster?   | [R4] A.4.3 | GPD11: M<br>GPD33: M |  |
| AREP3 | Does the GPD support reporting of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster?   | [R4] A.4.3 | GPD12: M             |  |
| AREP4 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster?   | [R4] A.4.3 | GPD30: M<br>GPD33: M |  |
| AREP5 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster?  | [R4] A.4.3 | GPD31: M             |  |
| AREP6 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster?  | [R4] A.4.3 | GPD32: M             |  |
| AREP7 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Relative Humidity Measurement Cluster?                                     | [R4] A.4.3 | GPD33: M             |  |
| AREPF | Does the GPD support reporting of any ZCL-defined attributes not specified above?<br>If yes, please list all, by including ClusterID and AttributeID. | [R4] A.4.3 | GPDT0: O             |  |

Table 19 – Readable ZigBee attributes per GPD device

| Item number | Item description   | Reference  | Status                                   | Support |
|-------------|--|------------|--|---------|
| AREAD1      | Does the GPD support reading of the 0x0051: OutOfService attribute from Binary Input Cluster?                | [R4] A.4.3 | GPD4 && GPF102: M                        |         |
| AREAD2      | Does the GPD support reading of the 0x0055: PresentValue attribute from Binary Input Cluster?                | [R4] A.4.3 | GPD4 && GPF102: M                        |         |
| AREAD3      | Does the GPD support reading of the 0x006F: StatusFlags attribute from Binary Input Cluster?                 | [R4] A.4.3 | GPD4 && GPF102: M                        |         |
| AREAD4      | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster?    | [R4] A.4.3 | GPD11 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD5      | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Illuminance Measurement Cluster? | [R4] A.4.3 | GPD11 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD6      | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Illuminance Measurement Cluster? | [R4] A.4.3 | GPD11 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD7      | Does the GPD support reading of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster?              | [R4] A.4.3 | GPD12 && GPF102: M                       |         |
| AREAD8      | Does the GPD support reading of the 0x0000: Occupancy Sensor Type attribute from Occupancy Sensing Cluster?  | [R4] A.4.3 | GPD12 && GPF102: M                       |         |
| AREAD9      | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster?    | [R4] A.4.3 | GPD30 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD10     | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Temperature Measurement Cluster? | [R4] A.4.3 | GPD30 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD11     | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Temperature Measurement Cluster? | [R4] A.4.3 | GPD30 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD12     | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster?       | [R4] A.4.3 | GPD31 && GPF102: M                       |         |
| AREAD13     | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster?           | [R4] A.4.3 | GPD32 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD14     | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Flow Measurement Cluster?        | [R4] A.4.3 | GPD32 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD15     | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Flow Measurement Cluster?        | [R4] A.4.3 | GPD32 && GPF102: M<br>GPD33 && GPF102: M |         |
| AREAD16     | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Relative Humidity Cluster?          | [R4] A.4.3 | GPD33 && GPF102: M                       |         |

| Item number | Item description  | Reference  | Status             | Support |
|-------------|---|------------|--------------------|---------|
| AREAD17     | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Relative Humidity Cluster?  | [R4] A.4.3 | GPD33 && GPF102: M |         |
| AREAD18     | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Relative Humidity Cluster?  | [R4] A.4.3 | GPD33 && GPF102: M |         |
| AREADF      | Does the GPD support reading of any ZCL-defined attributes not specified above?<br>If yes, please list all, by including ClusterID and AttributeID. | [R4] A.4.3 | GPDT0: O           |         |

Table 20 – Writable ZigBee attributes per GPD device

| Item number | Item description  | Reference  | Status            | Support |
|-------------|---|------------|-------------------|---------|
| AWRITE1     | Does the GPD support writing of the 0x0051: OutOfService attribute from Binary Input Cluster?   | [R4] A.4.3 | GPD4 && GPF100: M |         |
| AWRITEF     | Does the GPD support writing of any ZCL-defined attributes not specified above?<br>If yes, please list all, by including ClusterID and AttributeID. | [R4] A.4.3 | GPDT0: O          |         |