



**Zigbee PRO Green Power feature
Protocol Implementation Conformance (PICS)
Proforma
Basic functionality set
Version 1.1.1**

Zigbee Document 15-0006-013

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Abstract This document is a maintenance release of the Green Power Basic v1.1 PICS, containing all applicable errata.

Keywords Zigbee, Green Power, Battery-less, Energy Harvesting, Green Power stub, Green Power Cluster, Green Power Basic, generic switch, Compact Attribute Reporting, multi-sensor, setpoint

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Revision history

| Revision | Date | Details | Editor |
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| 000 | July 7 th , 2016 | Baseline: clean Green Power Basic PICS (15-0006-11) | Bozena Erdmann |
| 001 | July 20 th , 2016 | First draft, based on the multi-sensor baseline (16-02605) | Bozena Erdmann |
| 002 | July 29 th , 2016 | Implementing comments as discussed during Green Power WG call on July 27 th and received via email from Jorgen van Parys on July 28 th | Bozena Erdmann |
| 003 | September 12 th , 2016 | Implementing comments from the GP multi-sensor August PoC, Zigbee document 16-02611 | Bozena Erdmann |
| 004 | October 5 th , 2016 | Implementing comments from GP multi-sensor v0.7 letter ballot | Bozena Erdmann |
| 005 | October 6 th , 2016 | Implementing comments from GP multi-sensor v0.7 letter ballot: comment #783 | Bozena Erdmann |
| 006 | October 23 rd , 2016 | Merging the GP multi-sensor v0.7 PICS with the GP generic switch v0.7 PICS (16-02015-004) | Bozena Erdmann |
| 007 | November 18 th , 2016 | Adding several missing references to GP multi-sensor specification | Bozena Erdmann |
| 008 | December 3 rd , 2016 | Implementing resolutions to GP multi-sensor LB v0.9 comments: #973, #976. Adding several missing references. | Bozena Erdmann |
| 009 | February 10 th , 2017 | Implementing resolutions to comments from GP generic switch and multi-sensor December '16 SVE: #1013, #1014, #1025. | Bozena Erdmann |
| 010 | February 13 th , 2017 | Implementing resolutions to comments from GP generic switch and multi-sensor December '16 SVE: #1031. Implementing resolutions for the v0.9 TSC approval comments: #1048, #1052, #1053. | Bozena Erdmann |
| 011 | June 15 th , 2017 | Integrated approved GP Basic errata from 15-02016r004. Updated list of certified/non-certified features. | Bozena Erdmann |
| 012 | January 24 th , 2018 | Integrating draft errata from 15-02016r009 Implementing resolutions to CCBs against the original GP Basic PICS, as in 15-02016-007: #2372, Implementing resolutions for the v1.0 WG approval comments: #1374. Implementing comment resolution from letter ballot for GP Basic errata set: Kavi comment: Kavi comment #1383. Implementing resolution for CCB #2524. | Bozena Erdmann |
| 013 | February 21 st , 2018 | Adding pointers to the PIXIT items as defined in the XML PICS document [R10]. Implementing resolution for CCB #2533. | Bozena Erdmann |

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 14-0563r18: Green Power Basic specification v1.1.1
- [R5] Zigbee document 15-0015r14: Green Power Basic test specification v1.1.1
- [R6] Zigbee document 064113r08: Zigbee Cluster Library PICS
- [R7] Zigbee document 15-02016, Errata for Green Power Basic PICS
- [R8] Zigbee document 15-00000r004, GP Basic PICS to test case mapping
- [R9] Zigbee document 13-0166r01, Master List of Green Power Device Definitions
- [R10] Zigbee document 16-02615, Green Power Basic XML PICS

1.2 IEEE documents

- [R11] ¹IEEE Standard for Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) specifications for Low Rate Wireless Personal Area Networks (LR-WPANs), 2011.

¹ v0.9 TSC approval comment #1048:

https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1048

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² v0.9 TSC approval comment #1052:

https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1052

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 Green Power 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 GPPCCF5 | Full unicast communication functionality | [R4] A.3.2.8 |
| GPPCSF7 GPPCCF7 GPF9D-E GPF10A-B GPF100 GPF102 GPF108 | Proximity bidirectional operation functionality | [R4] A.3.2.8 |
| GPPCSF8 GPPCCF8 GPF9D-E GPF10A-B GPF100 GPF102 GPF108 | Multi-hop bidirectional operation functionality | [R4] A.3.2.8 |
| GPPCSF9 GPPCCF9 | Proxy Table maintenance (active and passive) functionality | [R4] A.3.2.8 |
| GPPCSF13 GPPCCF13 GPF9D-E GPF10A-B GPF100 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 |
| | | |
| | | |
| GPD4 GPS4 | GP Simple Sensor | [R4] A.4.3 |
| | | |
| GPD10 GPS5 | GP Color Dimmer Switch | [R4] A.4.3 |
| | | |
| | | |
| GPD20 GPS8 | GP Door Lock Controller | [R4] A.4.3 |
| GPD30 GPS9 | GP Temperature Sensor | [R4] A.4.3 |
| GPD31 GPS10 | GP Pressure Sensor | [R4] A.4.3 |
| GPD32 GPS11 | GP Flow Sensor | [R4] A.4.3 |

| Item number | Item description | Reference |
|-------------------------------|------------------------------|------------|
| GPD33 GPS12, GPS9, GPS6 | GP Indoor Environment Sensor | [R4] A.4.3 |
| GPS18 | GP Window Covering cluster | [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 GPPCCF1 | GP feature | [R4] A.3.2.8 |
| GPPCSF2 GPPCCF2 GPF4A GPF4C | Direct communication (via GP stub) functionality | [R4] A.3.2.8 |
| GPPCSF3 GPPCCF3 | Derived groupcast communication functionality | [R4] A.3.2.8 |
| GPPCSF4 GPPCCF4 | Pre-commissioned groupcast communication functionality | [R4] A.3.2.8 |
| GPPCSF6 GPPCCF6 | Lightweight unicast communication functionality | [R4] A.3.2.8 |
| GPPCSF10 GPPCCF10 GPCF4GPCF1 GPCF2 GPF4A-D GPF9A-C GPF10C-E GPCF10 GPCF11 GPCF12B GPCF13B | Proximity commissioning (unidirectional and bidirectional) functionality | [R4] A.3.2.8 |
| GPPCSF11 GPPCCF11 GPCF4 GPCF1 GPCF2 GPF4A-D GPF9A-C GPF10C-E GPCF10 GPCF11 GPCF12B GPCF13B | Multi-hop commissioning (unidirectional and bidirectional) functionality | [R4] A.3.2.8 |
| GPPCSF12 GPPCCF12 ³ GPPCC151AG PPCS110 | CT-based commissioning functionality | [R4] A.3.2.8 |

³ CCB #2279 and CCB #2278; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:
https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

| Item number | Item description | Reference |
|--|--|---------------------|
| GPPCSF14 GPPCCF14 GPF8 | gpdSecurityLevel = 0b00 functionality <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 GPPCCF15 GPF7 | gpdSecurityLevel = 0b01 functionality (deprecated) | [R4] A.3.2.8 |
| GPPCSF16 GPPCCF16 GPF6 | gpdSecurityLevel = 0b10 functionality | [R4] A.3.2.8 |
| GPPCSF17 GPPCCF17 GPF5 | gpdSecurityLevel = 0b11 functionality | [R4] A.3.2.8 |
| GPPCSF19 | Translation Table functionality | [R4] A.3.2.8 |
| GPPCSF20 GPPCCF20 GPF4D GPF4B | GPD IEEE address functionality | [R4] A.3.2.8 |
| GPCF12B GPCF13B | TC-LK encryption of the GPD key exchanged during commissioning | [R4] A.3.9, A.1.5.9 |
| GPD0 GPS1A | GP Simple Generic 1-state Switch | [R4] A.4.3 |
| GPD1 GPS1B | GP Simple Generic 2-state Switch | [R4] A.4.3 |
| GPD2 GPS2 | GP On/Off switch functionality | [R4] A.4 |
| GPD3 GPS3 | GP Level Control Switch | [R4] A.4.3 |
| GPD5 GPS14A | GP Advanced Generic 1-state Switch | [R4] A.4.3 |
| GPD6 GPS14B | GP Advanced Generic 2-state Switch | [R4] A.4.3 |
| GPD7 GPS17 | GP Generic 8-contact Switch | |
| GPD11 GPS6 | GP Light Sensor | [R4] A.4.3 |
| GPD12 GPS7 | GP Occupancy Sensor | [R4] A.4.3 |
| GPD102 GPS16 GPPCSF21 | Standard ZCL cluster controllable via GPD Compact Attribute Reporting | [R4] A.4.3 |
| GPDTX10 - GPDTX1f GPDRX10 - GPDRX1f | GP Scene functionality | [R4] A.4.3 |
| GPDTXA6 GPDRXA6 | GPD ZCL Tunneling command | [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. (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: PTM 215Z FOH (DB) EnOcean ON / OFF Switch Transmitter Module

Software Version:
1.0.0.0

Hardware Version:
PTM215BZ-DB

Operating system (optional):
Not applicable

Zigbee stack revision and profile (should be PRO r20 or later):
Not applicable

Product supplier

Name: EnOcean GmbH

Address: Kolpingring 18a, 82041 Oberhaching Germany

Telephone number: +498967346890

Facsimile number: _____

Email address: matthias.kassner@enocean.com

Additional information: _____

Client

Name: _____

Address: _____

Telephone number: _____

Facsimile number: _____

Email address: _____

Additional information: _____

PICS contact person

Name: Matthias Kassner

Address: Kolpingring 18a, 82041 Oberhaching

Telephone number: +4915164959429

Facsimile number: _____

Email address: matthias.kassner@enocean.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 – 14-0563r18

☒ 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 | |
|-------|--|----------|---|--|

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 ⁴after 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 | M | |
| NDF6 | Does the device support transmission of Zigbee NWK frames with AliasSrcAddr and AliasSeqNumb, as supplied by next higher layer? | | | |
| | | Zigbee-PRO | GPDT2: M GPDT3t: X GPDT3c: X GPDT3CB: M GPDT4: M | |

⁴ v0.9 TSC approval comment #1053:

https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1053

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 ⁵ | Yes |
| GPDT1 | Does the product support the functionality of GP infrastructure device? | [R4] A.3.2 | O.6 | No |
| GPDT2 | Does the product support GPP functionality? | [R4] A.3.2.3 | GPDT1: O.7 ⁶ | No |
| GPDT2f | Is the product programmed as a GPP? | [R4] A.3.2.3 | GPDT2: X | No |
| GPDT2B | Is the product programmed as a GPPB? | [R4] A.3.2.6 | GPDT2: O.8 ⁷ | No |
| GPDT2CB | Is the product programmed as a GPCB? | [R4] A.3.2.4 | GPDT2: O.8 | No |
| GPDT3 | Does the product support GPS functionality? | [R4] A.3.2 | GPDT1: O.7 | No |
| GPDT3t | Is the product programmed as a GPT? | [R4] A.3.2.1 | GPDT3: X | No |
| GPDT3t+ | Is the product programmed as a GPT+? | [R4] A.3.2.2 | GPDT3: X | No |
| GPDT3c | Is the product programmed as a GPC? | [R4] A.3.2.4 | GPDT3: X | No |
| GPDT3CB | Is the product programmed as a GPCB? | [R4] A.3.2.7 | GPDT3: O | No |
| GPDT4 | Does the product support GP commissioning tool functionality? | [R4] A.3.2.5 | GPDT1: O.7 | No |
| GPDT4ct | Is the product programmed as a GP Commissioning Tool? | [R4] A.3.2.5 | GPDT1: O | No |

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.

⁵ O.6 - Device Under Test SHALL support only one of these options.

⁶ O.7 - Device Under Test SHALL support at least one of these options.

⁷ O.8 - Device Under Test SHALL support 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 GPDT2CB: M GPDT3CB: M ⁸ GPDT4: O ^{9,10} GPF2A: M | |
| ¹¹ GPF2A | Does the device implement dGP stub? | [R4] A.1 | GPDT2B: M GPDT2CB: M GPDT3CB: M ¹² GPDT4: O ¹³ GPF1: M | |
| ¹⁴ GPF2B | Does the device support gpTxQueue? | [R4] A.1 | ¹⁵ GPDT2B: M GPDT2CB: M GPDT3CB: M ¹⁶ GPDT4: O | |
| GPF3 | Does the device support the general Green Power Device Frame format? | [R4] A.1.4 | GPDT2B: M GPDT2CB: M GPDT3CB: M ¹⁷ GPDT4: O ¹⁸ GPF1 ¹⁹ GPF2A: M | |
| GPF3A | Does the device support <i>nwkcProtocolVersion</i> = 0x3? | [R4] A.1.4 | GPDT2B: M GPDT2CB: M GPDT3CB: M ²⁰ GPDT4: O ²¹ GPF3: M | |
| GPF4C | Does the device support receiving GPDP frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b000? | [R4] A.1.4 | GPDT2B: M GPDT2CB: M GPDT3CB: M ²² GPDT4: O | |
| GPF4D | Does the device support receiving GPDP frame format with <i>ApplicationID</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b010? | [R4] A.1.4 | GPDT2B: M GPDT2CB: M GPDT3CB: M ²³ GPDT4: O | |

⁸ CCB #2372; Resolution added in 15-02016-007

⁹ CCB #2372; Resolution added in 15-02016-007

¹⁰ CCB #2524; resolution added in 15-02016-009;

¹¹ CCB #2524; resolution added in 15-02016-009;

¹² CCB #2372; Resolution added in 15-02016-007

¹³ CCB #2372; Resolution added in 15-02016-007

¹⁴ CCB #2524; resolution added in 15-02016-009;

¹⁵ CCB #2198; Resolution added in 15-02016-002

¹⁶ CCB #2372; Resolution added in 15-02016-007

¹⁷ CCB #2372; Resolution added in 15-02016-007

¹⁸ CCB #2372; Resolution added in 15-02016-007

¹⁹ CCB #2524; resolution added in 15-02016-009;

²⁰ CCB #2372; Resolution added in 15-02016-007

²¹ CCB #2372; Resolution added in 15-02016-007

²² CCB #2372; Resolution added in 15-02016-007

²³ CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|---------------------|--|-----------------------|---|---------|
| GPF5 | Does the device's dGP stub support GPDP SecurityLevel=0b11? | [R4] A.1.5.4; A.3.7.2 | GPDT2B: M GPDT2CB: M GPDT3CB: O.4 ²⁴ GPDT4: O | |
| GPF6 | Does the device's dGP stub support GPDP SecurityLevel=0b10? | [R4] A.1.5.4; A.3.7.2 | GPDT2B: M GPDT2CB: M GPDT3CB: O.4 ²⁵ GPDT4: O | |
| GPF7 | Does the device's dGP stub support GPDP SecurityLevel=0b01? (deprecated) | [R4] A.1.5.4; A.3.7.2 | GPDT1: X (deprecated) | |
| GPF8A | Does the device's dGP stub support GPDP SecurityLevel=0b00 in commissioning? | [R4] A.1.5.4; A.3.7.2 | GPDT2B: M GPDT2CB: M GPDT3CB: M ²⁶ GPDT4: O | |
| GPF8B | Does the device's dGP stub support GPDP SecurityLevel=0b00 in operation? | [R4] A.1.5.4; A.3.7.2 | GPDT2B: O GPDT2CB: O GPDT3CB: O ²⁷ GPDT4: O | |
| GPF9A | Does the device support transmitting GPDP 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 GPDT2CB: M GPDT3CB: M ²⁸ GPDT4: O | |
| GPF9B | Does the device support transmitting GPDP frame format with <i>ApplicationID</i> sub-field of the Extended NWK Frame Control field set to 0b010 in commissioning, without security? | [R4] A.1 | GPDT2B: M GPDT2CB: M GPDT3CB: M ²⁹ GPDT4: O | |
| GPF9C | Does the device support transmitting in commissioning mode a GPDP 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 GPDT2CB: M GPDT3CB: M ³⁰ GPDT4: O | |
| GPF9D | Does the device support transmitting GPDP frame format with <i>ApplicationID</i> sub-field of the Extended NWK Frame Control field set to 0b000 and <i>Frame type</i> sub-field of the NWK Frame Control field set to 0b00 (Data frame) in operation, with security? | [R4] A.1 | GPDT2B: X GPDT2CB: X GPDT3CB: X GPDT4: O | |
| GPF9E | Does the device support transmitting GPDP frame format with <i>ApplicationID</i> sub-field of the Extended NWK Frame Control field set to 0b010 in operation, with security? | [R4] A.1 | GPDT2B: X GPDT2CB: X GPDT3CB: X GPDT4: O | |
| ³¹ GPF11 | Is the device capable of transmitting a response GPDP between <i>gpTxOffset</i> and <i>gpTxOffset+gpMaxTxOffsetVariation</i> ms after reception of the request GPDP (aka immediate response)? | [R4] A.1 | GPDT2: X GPDT3: O GPF9A-E: O GPPCSF10: O GPPCSF11: O GPPCSF7: O GPPCSF8: O GPPCSF13: O | |

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.

²⁴ CCB #2372; Resolution added in 15-02016-007

²⁵ CCB #2372; Resolution added in 15-02016-007

²⁶ CCB #2372; Resolution added in 15-02016-007

²⁷ CCB #2372; Resolution added in 15-02016-007

²⁸ CCB #2372; Resolution added in 15-02016-007

²⁹ CCB #2372; Resolution added in 15-02016-007

³⁰ CCB #2372; Resolution added in 15-02016-007

³¹ CCB #2524; resolution added in 15-02016-009;

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 GPDT2CB: M GPDT3CB: X GPDT4: O | |
| GPPC1 | Is the Green Power cluster supported? | [R4] A.3 | GPPC0: M | |
| GPPC2 | Does the device support Green Power End Point (GPEP)? | [R4] A.3.1 | GPPC0: M | |
| GPPC3 | Does the device support GPEP duplicate filtering? | [R4] A.3.6.1 | GPPC0: M | |
| GPPCC1 | Is the Green Power cluster supported as a client? | [R4] A.3.4 | GPPC0: O.5 ³² GPDT2B: M GPDT2CB: M | |
| GPPCC2 | Is the gppMaxProxyTableEntries attribute supported? | [R4] A.3.4.2.1 | GPPCC1: M | |
| GPPCC3A | Is the Proxy Table attribute supported? | [R4]A.3.4.2.2 | GPPCC1: M | |
| GPPCC3B | Is the minimum number of 5 entries in the Proxy Table attribute supported? Indicate the actual number of entries in the Proxy Table supported by this device. | [R4]A.3.4.2.2 [R10] GPPPIXIT01 | GPPCC1: M | |
| GPPCC3F | Is Proxy Table readout via ZCL Read Attributes/Read Attributes Response commands supported? | [R4] A.3.4.2.2.1 | GPPCC1: M | |
| GPPCC3G | Is Proxy Table readout via GP Proxy Table Request/Response commands supported? | [R4] A.3.4.3.1, A.3.4.4.2 | GPPCC1: M | |
| GPPCC8 | Is the gppFunctionality attribute supported? | [R4]A.3.4.2.7 | GPPCC1: M | |
| GPPCC9 | Is the gppActiveFunctionality attribute supported? | [R4]A.3.4.2.8 | GPPCC1: M | |
| GPPCS1 | Is the Green Power cluster supported as a server? | [R4]A.3.3 | GPPC0: O.5 GPDT3CB: 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 [R10] GPSPIXIT01 | 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, 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 (GPDT2B GPDT2CB) && GPPCCF11: O GPDT3CB && (GPPCCF10 GPPCCF11): M GPPC102: M ((GPPCCF7 GPPCCF8) && (GPF5 GPF6)): M | |
| GPPC102 | Is the gpSharedSecurityKey attribute supported? | [R4]A.3.3.3.2 | GPPC0: O (GPDT2B GPDT2CB) && GPPCCF11: O GPDT3CB && (GPPCCF10 GPPCCF11): M GPPC101: M ((GPPCCF7 GPPCCF8) && (GPF5 GPF6)): M | |
| GPPC103 | Is the gpLinkKey attribute supported? | [R4]A.3.3.3.3 | GPDT2B: O GPDT2CB: O | |
| GPPC104 | Is the global <i>ClusterRevision</i> attribute (0xfffd) supported? | [R4]A.3.3.3 | GPDT2B: M GPDT2CB: M | |
| GPPCC101B | Is transmission of the GP Notification command in lightweight unicast supported? | [R4] A.3.3.4.1 | GPDT2B: M GPDT2CB: M | |
| GPPCC102 | Is transmission of the GP Notification command in derived groupcast supported? | [R4]A.3.3.4.1 | GPDT2B: M GPDT2CB: M | |

| | | | | |
|-----------------------------|---|----------------|-------------------------|--|
| GPPCC103 | Is transmission of the GP Notification command in commissioned groupcast supported? | [R4]A.3.3.4.1 | GPDT2B: M GPDT2CB: M | |
| ³³ GPPCC151 A | Is reception of the GP Pairing command supported? | [R4] A.3.3.5.2 | GPPCC1: M | |

³² O.5: Device Under Test SHALL support at least one of those options.

³³ CCB #2279 and CCB #2278; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:
https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

11.3 Functionality of Green Power cluster

The GPPCCF\$ items refer ONLY to the PROXY functionality of the Device Under Test (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 – Green Power 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.3.2.9 | GPDT2: N/A GPDT3CB: M ³⁴ GPDT4: O | |
| GPPCSF2 | Is Direct communication (via GP stub) supported as a server? (Direct communication sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: M ³⁵ GPDT4: O | |
| GPPCSF3 | Is Derived groupcast communication supported as a server? (Derived groupcast communication sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: O.11 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.3.2.9 | GPDT2: N/A GPDT3CB: O.11 (GPDT3CB & GPPCSF3: M) GPDT4: O | |
| GPPCSF5 | Is Unicast communication supported as a server? (Unicast communication sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: X GPDT4: O | |
| GPPCSF6 | Is Lightweight unicast communication supported as a server? (Lightweight unicast communication sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: O.11 GPDT4: O | |
| GPPCSF7 | Is Proximity bidirectional operation supported as a server? (Proximity bidirectional operation sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: X 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.3.2.9 | GPDT2: N/A GPDT3CB: X 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.3.2.9 | GPDT2: N/A GPDT3CB: X GPDT4: O | |
| GPPCSF10 | Is Proximity commissioning (unidirectional and bidirectional) supported as a server? (Proximity commissioning sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: M ³⁶ GPDT4: O | |
| GPPCSF11 | Is Multi-hop commissioning (unidirectional and bidirectional) supported as a server? (Multi-hop commissioning sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: M GPDT4: O | |
| GPPCSF12 | Is CT-based commissioning supported as a server? (CT-based commissioning sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: M ³⁷ GPDT4: O | |
| 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.3.2.9 | GPDT2: N/A GPDT3CB: X GPDT4: O | |
| GPPCSF14 | Is gpdSecurityLevel = 0b00 supported in operation as a server? (gpdSecurityLevel = 0b00 sub-field of the gpsFunctionality attribute set?) <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.3.2.9 | GPDT2: N/A GPDT3: O GPDT4: O | |

³⁴ CCB #2372; Resolution added in 15-02016-007

³⁵ CCB #2372; Resolution added in 15-02016-007

³⁶ CCB #2372; Resolution added in 15-02016-007

³⁷ CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|------------------------|--|--------------|---|---------|
| GPPCSF15 | Is gpdSecurityLevel = 0b01 supported as a server? (gpdSecurityLevel = 0b01 sub-field of the gpsFunctionality attribute set?) (deprecated) | [R4] A.3.2.9 | GPDT1: X (deprecated) | |
| GPPCSF16 | Is gpdSecurityLevel = 0b10 supported as a server? (gpdSecurityLevel = 0b10 sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3: O.12 ³⁸ GPDT4: O | |
| GPPCSF17 | Is gpdSecurityLevel = 0b11 supported as a server? (gpdSecurityLevel = 0b11 sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3: O.12 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.3.2.9 | GPDT2: N/A GPDT3CB: X GPDT4: O | |
| GPPCSF19 | Is Translation Table feature supported as a server? (Translation Table sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3: O GPDT4: O | |
| GPPCSF20 | Is GPD IEEE address feature supported as a server? (GPD IEEE address sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: M ³⁹ GPDT4: O | |
| ⁴⁰ GPPCSF21 | Is compact attribute reporting feature supported as a server? (Compact attribute reporting sub-field of the gpsFunctionality attribute set?) | [R4] A.3.2.9 | GPDT2: N/A GPDT3CB: O ⁴¹ GPS6 GPS7 GPS9 GPS12: M GPDT4: O | |
| GPPCCF1 | Is GP feature supported as a client? (GP feature sub-field of the gppFunctionality attribute set?) | [R4] A.3.2.8 | GPDT2B: M GPCT2CB: M GPDT3: N/A GPDT4: O | |
| 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 GPCT2CB: M GPDT3: N/A GPDT4: O | |
| 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 GPCT2CB: M GPDT3: N/A GPDT4: O | |
| 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 GPCT2CB: M GPDT3: N/A GPDT4: O | |
| 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 GPDT2CB: X GPDT3: N/A GPDT4: O | |
| 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 GPCT2CB: M GPDT3: N/A GPDT4: O | |
| 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 GPDT3: N/A 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 GPDT2CB: X GPDT3: N/A 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 GPDT2CB: X GPDT3: N/A GPDT4: O | |

³⁸ O.12: Device Under Test SHALL support at least one of those options.

³⁹ CCB #2372; Resolution added in 15-02016-007

⁴⁰ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1014

⁴¹ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1014

| Item number | Item description | Reference | Status | Support |
|-------------|--|--------------|---|---------|
| 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 GPDT3: N/A GPDT4: O | |
| 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 GPDT2CB: M GPDT3: N/A GPDT4: O | |
| 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 GPDT2CB: M GPDT3: N/A GPDT4: O | |
| 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 GPDT2CB: X GPDT3: N/A GPDT4: O | |
| GPPCCF14 | Is gpdSecurityLevel = 0b00 supported in operation as a client? (gpdSecurityLevel = 0b00 sub-field of the gppFunctionality attribute set?) <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 GPDT2CB: O GPDT3CB: N/A GPDT4: O | |
| 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) | |
| GPPCCF16 | Is gpdSecurityLevel = 0b10 supported as a client? (gpdSecurityLevel = 0b10 sub-field of the gppFunctionality attribute set?) | [R4] A.3.2.8 | GPDT2B: M GPDT2CB: M GPDT3CB: N/A GPDT4: O | |
| GPPCCF17 | Is gpdSecurityLevel = 0b11 supported as a client? (gpdSecurityLevel = 0b11 sub-field of the gppFunctionality attribute set?) | [R4] A.3.2.8 | GPDT2B: M GPDT2CB: M GPDT3CB: N/A GPDT4: O | |
| 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 GPDT3: N/A 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 GPDT3: N/A 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 GPDT2CB: M GPDT3CB: N/A GPDT4: N/A | |

11.3.1 Green Power cluster: items common to client and server

Table 6 – Green Power cluster items common to client and server

| Item number | Item description | Reference | Status | Support |
|-------------|--|---------------------------|--|---------|
| GPPC1 | Is the Green Power cluster supported? | [R4] A.3 | GPDT1: M | |
| GPPC2 | Does the device support Green Power End Point (GPEP)? | [R4] A.3.1 | GPDT1: M | |
| GPPC3 | Does the device support GPEP duplicate filtering? | [R4] A.3.6.1.2 | GPDT1: M | |
| GPPC3r | Does the device support random MAC sequence number for GPD commands' duplicate filtering? | [R4] A.3.6.1.2 | GPDT1&& (GPF8A GPF8B): M | |
| GPPC3i | Does the device support incremental MAC sequence number for GPD commands' duplicate filtering? | [R4] A.3.6.1.2 | GPDT1&& (GPF8A GPF8B): M | |
| GPPC3s | Does the device support GPD security frame counter for GPD commands' duplicate filtering? | [R4] A.3.6.1.2 | GPDT1&& (GPF5 GPF6): M | |
| 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 GPDT2: X | |
| 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 | |
| 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 | |
| GPPC101 | Is the <i>gpSharedSecurityKeyType</i> attribute supported? | [R4] A.3.3.3.1 | GPDT1: O GPPCCF11 && (GPDT2B GPDT2CB): O GPDT3CB && (GPPCSF10 GPPCSF11): M GPPC102: M GPDT1&& ((GPPCSF7 GPPCSF8 GPPCCF7 GPPCCF8) && (GPF5 GPF6): M | |
| GPPC102 | Is the <i>gpSharedSecurityKey</i> attribute supported? | [R4] A.3.3.3.2 | GPDT1: O (GPDT2B GPDT2CB) && GPPCCF11: O GPDT3CB && (GPPCSF10 GPPCSF11): M GPPC102: M GPDT1&& ((GPPCSF7 GPPCSF8 GPPCCF7 GPPCCF8) && (GPF5 GPF6): M | |
| GPPC103 | Is the <i>gpLinkKey</i> attribute supported? | [R4] A.3.3.3.3 | GPDT2B: O GPDT2CB: O GPDT3CB&& (GPF5 GPF6): M | |
| GPPC104 | Is the <i>ClusterRevision</i> cluster global attribute supported? | [R4] A.3.3.3 | GPDT1: M | |

11.3.2 Server side

Table 7 – Green Power cluster server capabilities

| Item number | Item description | Reference | Status | Support |
|-------------|--|---------------------------------|---|---------|
| GPPCS1 | Is the Green Power cluster supported as a server? | [R4] A.3.3 | GPDT2B: X GPDT2CB: X GPDT3CB: M ⁴² GPDT4: O GPPCSF1: M | |
| GPPCS2 | Is the <i>gpsMaxSinkTableEntries</i> attribute supported? | [R4] A.3.3.2.1 | GPDT2: X GPDT3CB: M GPDT4: O | |
| GPPCS3A | Is the Sink Table attribute supported? | [R4] A.3.3.2.2 | GPDT2: X GPDT3CB: M GPDT4: O | |
| GPPCS3B | Is the required minimum number of entries in the Sink Table attribute supported? ⁴³ | [R4] A.3.3.2.2 | GPDT3CB: 5 GPDT3 && GPPCSF18: 10 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, A.3.3.4.7 | GPDT3CB: M | |
| GPPCS4 | Is the <i>gpsCommunication</i> mode attribute supported? | [R4] A.3.3.2.3 | GPDT2: X GPDT3CB: M GPDT4: O | |
| GPPCS5 | Is the <i>gpsCommissioningExitMode</i> attribute supported? | [R4] A.3.3.2.4 | GPDT2: X GPDT3CB: M GPDT4: O | |
| GPPCS6 | Is the <i>gpsCommissioningWindow</i> attribute supported? | [R4] A.3.3.2.5 | GPDT2: X GPDT3CB: O GPDT4: O | |
| GPPCS7 | Is the <i>gpsSecurityLevel</i> attribute supported? | [R4] A.3.3.2.6 | GPDT2: X GPDT3CB: M GPDT4: O | |
| GPPCS8 | Is the <i>gpsFunctionality</i> attribute supported? | [R4] A.3.3.2.7 | GPDT2: X GPDT3CB: M GPDT4: O | |
| GPPCS9 | Is the <i>gpsActiveFunctionality</i> attribute supported? | [R4] A.3.3.2.8 | GPDT2: X GPDT3CB: M GPDT4: O | |
| GPPCS99 | Is Translation Table supported? | [R4] A.3.5.2.2 | GPDT2: X GPDT3CB: O GPDT4: O GPPCSF19: M | |
| GPPCS100 | Is reception of the GP Notification command supported? | [R4] A.3.2.10 [R4] A.3.3.3 | GPDT2B: X GPDT2CB: X GPDT3CB: M GPDT4: O | |
| GPPCS101A | Is reception of the GP Notification command in full unicast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2: X GPDT3CB: X GPPCSF5: M GPDT4: O | |
| GPPCS101B | Is reception of the GP Notification command in lightweight unicast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2: X GPDT3CB: O. ¹⁴ ⁴⁴ GPPCSF6: M GPDT4: O | |

⁴² CCB #2372; Resolution added in 15-02016-007

⁴³ 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.

⁴⁴ O.14: Device Under Test SHALL support at least one of those options; only one SHALL be 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 [R4] A.3.3.4.1 | GPDT2B: X GPDT2CB: X (GPPCCF8 GPPCCF9 GPPCCF13): M GPDT3CB: O.14 GPPCSF3: M GPDT4: O | |
| GPPCS103 | Is reception of the GP Notification command in commissioned groupcast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2B: X GPDT2CB: X (GPPCCF8 GPPCCF9 GPPCCF13): M GPDT3CB: O.14 GPPCSF4: M GPPCS102: M GPDT4: O | |
| GPPCS104 | Is reception of the GP Notification command in broadcast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 [R4] A.5.2.1 | GPDT2B: X GPDT2CB: X GPPCCF9: M GPDT3CB: X GPPCSF9: M GPDT4: O | |
| GPPCS105 | Is reception of the GP Pairing Search command supported? | [R4] A.3.2.10 [R4] A.3.3.4.2 | GPDT2B: X GPDT2CB: X GPPCCF9: O GPDT3CB: X GPDT4: O GPPCSF9: M | |
| GPPCS106 | Is reception of the GP Tunneling Stop command supported? | [R4] A.3.2.10 [R4] A.3.4.4.1 | GPDT2B: X GPDT2CB: X GPPCCF5: M GPDT3CB: X GPDT4: O | |
| GPPCS107 | Is reception of the GP Commissioning Notification command supported? | [R4] A.3.2.10 [R4] A.3.3.4.4 | (GPDT2B GPDT2CB) && GPPCCF11: X GPPCCF11: M GPDT3CB: M GPPCSF11: M GPDT4: O | |
| GPPCS108 | Is reception of the GP Translation Table Update command supported? | [R4] A.3.2.10 [R4] A.3.3.4.6 | GPDT2: X GPDT3CB: O GPDT4: O GPPCSF19: M | |
| GPPCS109 | Is reception of the GP Translation Table Request command supported? | [R4] A.3.2.10 [R4] A.3.3.4.5 | GPDT2: X GPDT3CB: O GPDT4: O GPPCSF19: M | |
| GPPCS110 | Is reception of the GP Pairing Configuration command supported? | [R4] A.3.2.10 [R4] A.3.3.4.7 | GPDT2: X GPDT3CB: M GPPCSF4 GPPCSF12 GPPCSF18: M | |
| GPPCS111 | Is reception of the GP Sink Table Request command supported? | [R4] A.3.3.5.6, A.3.3.4.7 | GPDT2B: X GPDT2CB: X GPDT3CB: M GPDT4: O | |
| GPPCS112 | Is reception of the GP Proxy Table Response command supported? | [R4] A.3.4.3.1, A.3.4.4.2 | GPDT2B: O GPDT2CB: O GPDT3CB: O GPDT4: O GPPCS157: M | |
| GPPCS113 | Is reception of the GP Sink Commissioning Mode command supported? | [R4] A.3.3.4.7, A.3.9.1 | GPDT2: X GPDT3: O GPDT4: O | |
| GPPCS150 | Is transmission of the GP Notification Response command supported? | [R4] A.3.2.10 [R4] A.3.3.5.1 | GPDT2: X GPDT3CB: X GPDT4: O 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 [R4] A.3.3.5.4 | GPDT2: X GPDT3CB: M GPDT4: O GPPCSF11: M GPPCSF10: O | |
| GPPCS151B | Is transmission of the GP Response command with SrcID != 0x00000000 in commissioning supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2: X GPDT3CB: M GPDT4: O GPPCSF10 GPPCSF11: M GPPCSF10: M | |
| GPPCS151C | Is transmission of the GP Response command with IEEE address and Endpoint in commissioning supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2: X GPDT3CB: M GPDT4: O GPPCSF10 GPPCSF11 && GPPCSF20: M | |
| GPPCS151D | Is transmission of the GP Response command with SrcID != 0x00000000 in operation supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2: X GPDT3CB: X GPDT4: O GPPCSF8 GPPCSF13: M | |
| GPPCS151E | Is transmission of the GP Response command with IEEE address and Endpoint in operation supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2: X GPDT3CB: X GPDT4: O (GPPCSF8 GPPCSF13) && GPPCSF20: M | |
| GPPCS152 | Is transmission of the GP Pairing command supported? | [R4] A.3.2.10 [R4] A.3.3.5.2 | GPDT2: X GPDT3CB: M ⁴⁵ GPDT4: O | |
| GPPCS153 | Is generation of the GP Pairing command with RemoveGPD sub-field set to 0b1 supported? | [R4] A.3.2.10 [R4] A.3.3.5.2 | GPDT2: X GPDT3CB: M ⁴⁶ GPDT4: O | |
| 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 [R4] A.3.3.5.2 | GPDT2: X GPDT3CB: M ⁴⁷ GPDT4: O | |
| 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 [R4] A.3.3.5.2 | GPDT2: X GPDT3CB: O ⁴⁸ GPDT4: O | |
| 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 [R4] A.3.3.5.2 | GPDT2: X GPDT3CB: M GPPCSF12: M GPDT4: O | |
| GPPCS154 | Is transmission of the GP Proxy Commissioning Mode command supported? | [R4] A.3.2.10 [R4] A.3.3.5.3 | GPDT2: X GPDT3CB: M ⁴⁹ GPDT4: O GPPCSF11: M | |
| GPPCS155 | Is transmission of the GP Translation Table Response command supported? | [R4] A.3.2.10 [R4] A.3.3.5.5 | GPDT2: X GPDT3CB: O GPPCS109: M GPDT4: O GPPCSF19: M | |
| GPPCS156 | Is transmission of the GP Sink Table Response command supported? | [R4] A.3.3.5.6, A.3.3.4.7 | GPDT2B: X GPDT2CB: X GPDT3CB: M GPDT4: O | |
| GPPCS157 | Is transmission of the GP Proxy Table Request command supported? | [R4] A.3.4.3.1, A.3.4.4.2 | GPDT2B: O GPDT2CB: O GPDT3CB: O GPDT4: O | |

⁴⁵ CCB #2372; Resolution added in 15-02016-007⁴⁶ CCB #2372; Resolution added in 15-02016-007⁴⁷ CCB #2372; Resolution added in 15-02016-007⁴⁸ CCB #2372; Resolution added in 15-02016-007⁴⁹ CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|-------------|--|---------------------------------|------------------------------------|---------|
| GPPCS201 | Is persistent storage of Sink Table supported? | [R4] A.3.2.10 [R4] A.3.3.2.2 | GPDT2: X GPDT3CB: M GPDT4: O | |

11.3.3 Client side

Table 8 – Green Power cluster client capabilities

| Item number | Item description | Reference | Status | Support |
|-------------|---|---------------------------------------|---|---------|
| GPPCC1 | Is the Green Power cluster supported as a client? | [R4] A.3.4 | GPDT2B: M GPDT2CB: M GPDT3: O GPDT4: O | |
| GPPCC2 | Is the <i>gppMaxProxyTableEntries</i> attribute supported? | [R4] A.3.4.2.1 | GPDT2B: M GPDT2CB: M GPDT3: X GPDT4: O | |
| GPPCC3A | Is the Proxy Table attribute supported? | [R4] A.3.4.2.2 | GPDT2B: M GPDT2CB: M GPDT3: X GPDT4: O | |
| GPPCC3B | Is the required minimal number of entries in the Proxy Table attribute supported? ⁵⁰ Indicate the actual number of entries in the Proxy Table attribute supported by this device. | [R4] A.3.4.2.2 [R10] GPPPIXIT01 | GPDT2: 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 | |
| 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 | |
| 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 | |
| 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 | |
| GPPCC3G | Is Proxy Table readout via GP Proxy Table Request/Response commands supported? | [R4] A.3.4.3.1, A.3.4.4.2 | GPPCC1: M | |
| GPPCC4 | Is the <i>gppNotificationRetryNumber</i> attribute supported? | [R4] A.3.4.2.3 | GPDT2B: X GPDT2CB: X GPPCCF5: M GPDT3: X GPDT4: O | |
| GPPCC5 | Is the <i>gppNotificationRetryTimer</i> attribute supported? | [R4] A.3.4.2.4 | GPDT2B: X GPDT2CB: X GPPCCF5: M GPDT3: X GPDT4: O | |
| GPPCC6 | Is the <i>gppMaxSearchCounter</i> attribute supported? | [R4] A.3.4.2.5 | GPDT2B: X GPDT2CB: X GPPCCF9: M GPDT3: X GPDT4: O | |
| GPPCC7 | Is the <i>gppBlockedSrcID</i> attribute supported? | [R4] A.3.4.2.6 | GPDT2B: X GPDT2CB: X GPPCCF9: O GPDT3: X GPDT4: O | |
| GPPCC8 | Is the <i>gppFunctionality</i> attribute supported? | [R4] A.3.4.2.7 | GPDT2B: M GPDT2CB: M GPDT3: X GPDT4: O | |

⁵⁰ 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 GPDT2CB: M GPDT3: X GPDT4: O | |
| GPPCC100 | Is transmission of the GP Notification command supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2B: M GPDT2CB: M GPDT3CB: X GPDT4: O | |
| GPPCC101A | Is transmission of the GP Notification command in full unicast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2B: X GPDT2CB: X GPPCCF5: M GPDT3CB: X GPDT4: O | |
| GPPCC101B | Is transmission of the GP Notification command in lightweight unicast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2B: M GPDT2CB: M GPPCCF6: M GPDT3CB: X GPDT4: O | |
| GPPCC102 | Is transmission of the GP Notification command in derived groupcast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2B: M GPDT2CB: M GPPCCF3: M GPDT3CB: X GPPCSF18: M GPDT4: O | |
| GPPCC103 | Is transmission of the GP Notification command in commissioned groupcast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2: M GPDT2CB: M GPPCCF4: M GPDT3CB: X GPPCSF18: M GPDT4: O | |
| GPPCC104 | Is transmission of the GP Notification command in broadcast supported? | [R4] A.3.2.10 [R4] A.3.3.4.1 | GPDT2B: X GPDT2CB: X GPDT3CB: X GPPCCF9: M GPDT4: O | |
| GPPCC105 | Is transmission of the GP Notification command in multiple communication modes supported? | [R4] A.3.2.10 [R4] A.3.5.2.1 | GPDT2B: M GPDT2CB: M Any two of (GPPCCF3 GPPCCF4 GPPCCF5 GPPCCF6): M GPDT3CB: X GPPCSF18 && (GPPCCF3 GPPCCF4): M GPDT4: O | |
| GPPCC106 | Is transmission of the GP Pairing Search command supported? | [R4] A.3.2.10 [R4] A.3.4.2 | GPDT2B: X GPDT2CB: X GPDT3CB: X GPPCCF9: M ⁵¹ GPDT4: O | |
| GPPCC107 | Is transmission of the GP Tunneling Stop command supported? | [R4] A.3.2.10 [R4] A.3.4.4.1 | GPDT2B: X GPDT2CB: X GPPCCF5: M GPDT3CB: X GPDT4: O | |
| GPPCC108A | Is transmission of the GP Commissioning Notification command with alias, after Dmin, supported? | [R4] A.3.2.10 [R4] A.3.3.4.4 | GPDT2B: M GPDT2CB: M GPPCCF11: M GPDT3CB: X GPDT4: O | |

⁵¹ CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|-------------------------|--|---|---|---------|
| GPPCC108B | Is transmission of the GP Commissioning Notification command without alias, at gppTunnelingDelay supported? | [R4] A.3.2.10 [R4] A.3.3.4.4 | (GPDT2B GPDT2CB) && GPPCCF11: M GPPCCF11: M GPDT3CB: X GPDT4: O | |
| GPPCC109 | Is transmission of the GP Translation Table Update command supported? | [R4] A.3.2.10 [R4] A.3.3.4.5 [R4] A.3.2.5 | GPDT2: X GPDT3CB: O ⁵² GPDT4: O | |
| GPPCC110 | Is transmission of the GP Translation Table Request command supported? | [R4] A.3.2.10 [R4] A.3.3.4.6 [R4] A.3.2.5 | GPDT2: X GPDT3CB: O ⁵³ GPDT4: O | |
| GPPCC111 | Is transmission of the GP Pairing Configuration command supported? | [R4] A.3.2.10 [R4] A.3.3.4.7 [R4] A.3.2.5 | GPDT2B: X GPDT2CB: X GPDT3CB: O ⁵⁴ GPDT4: O GPPCSF4 GPPCSF18: M | |
| GPPCC112 | Is transmission of the GP Proxy Table Response command supported? | [R4] A.3.3.5.6, A.3.3.4.7 | GPDT2B: M GPDT2CB: M GPDT3: X GPDT4: O | |
| GPPCC113 | Is transmission of the GP Sink Table Request command supported? | [R4] A.3.4.3.1, A.3.4.4.2 | GPDT2B: O GPDT2CB: O GPDT3CB: O ⁵⁵ GPDT4: O | |
| GPPCC114 | Is transmission of the GP Sink Commissioning Mode command supported? | [R4] A.3.3.4.7, A.3.9.1 | GPDT2: O GPDT3: O ⁵⁶ GPDT4: O | |
| GPPCC150 | Is reception of the GP Notification Response command supported? | [R4] A.3.2.10 [R4] A.3.3.5.1 | GPDT2B: X GPDT2CB: X GPPCCF5: M GPDT3: X GPDT4: O | |
| ⁵⁷ GPPCC151A | Is reception of the GP Pairing command supported? | [R4] A.3.2.10 [R4] A.3.3.5.2 | GPDT2: M GPDT3: X ⁵⁸ GPDT4: O | |
| ⁵⁹ GPPCC151B | Does the device support checking of the <i>CommunicationMode</i> sub-field of the <i>Options</i> field of the received GP Pairing command? | [R4] A.3.5.2.3 | GPPCC151A: M | |
| ⁶⁰ GPPCC151C | Does the device support checking if its Proxy Table is full on reception of GP Pairing command? | [R4] A.3.5.2.3 | GPPCC151A: M | |
| GPPCC152 | Is reception of the GP Pairing command with <i>RemoveGPD</i> sub-field set to 0b1 supported? | [R4] A.3.2.10 [R4] A.3.3.5.2 | GPDT2: M GPDT3: X ⁶¹ GPDT4: O | |
| GPPCC153 | Is reception of the GP Proxy Commissioning Mode command supported? | [R4] A.3.2.10 [R4] A.3.3.5.3 | GPDT2B: M GPDT2CB: M GPPCCF11: M GPDT3CB: O ⁶² GPDT4: O | |

⁵² CCB #2372; Resolution added in 15-02016-007⁵³ CCB #2372; Resolution added in 15-02016-007⁵⁴ CCB #2372; Resolution added in 15-02016-007⁵⁵ CCB #2372; Resolution added in 15-02016-007⁵⁶ CCB #2372; Resolution added in 15-02016-007⁵⁷ CCB #2279 and CCB #2278; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383⁵⁸ CCB #2372; Resolution added in 15-02016-007⁵⁹ CCB #2278; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383⁶⁰ CCB #2279; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383⁶¹ CCB #2372; Resolution added in 15-02016-007⁶² CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|-------------|---|---|--|---------|
| GPPCC154A | Is reception of the GP Response command with SrcID = 0x00000000 in commissioning mode supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2B: M GPDT2CB: M GPPCCF11: M GPDT3CB: M GPPCSF10 GPPCSF11 : M GPDT4: O | |
| GPPCC154B | Is reception of the GP Response command with SrcID != 0x00000000 in commissioning mode supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2B: M GPDT2CB: M GPPCCF11: M GPDT3CB: M GPPCSF10 GPPCSF11: M GPDT4: O | |
| GPPCC154C | Is reception of the GP Response command with IEEE address and Endpoint in commissioning mode supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2B: M GPDT2CB: M GPPCCF11: M GPDT3CB: M GPPCSF10 GPPCSF11: M GPDT4: O | |
| GPPCC154B | Is reception of the GP Response command with SrcID != 0x00000000 in operation supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2B: X GPDT2CB: X (GPPCCF8 GPPCCF13): M GPDT3CB: X (GPPCSF7 GPPCSF8 GPPCCF13): M GPDT4: O | |
| GPPCC154C | Is reception of the GP Response command with IEEE address and Endpoint in operation supported? | [R4] A.3.2.10 [R4] A.3.3.5.4 | GPDT2B: X GPDT2CB: X (GPPCCF8 GPPCCF13): M GPDT3CB: X (GPPCSF7 GPPCSF8 GPPCCF13): M GPDT4: O | |
| GPPCC155 | Is reception of the GP Translation Table Response command supported? | [R4] A.3.2.10 [R4] A.3.3.5.5 [R4] A.3.2.5 | GPDT2: X GPDT3CB: O GPPCC110: M ⁶³ GPDT4: O | |
| GPPCC156 | Is reception of the GP Proxy Table Request command supported? | [R4] A.3.3.5.6, A.3.3.4.7 | GPDT2B: M GPCT2CB: M GPDT3: X GPDT4: O | |
| GPPCC157 | Is reception of the GP Sink Table Response command supported? | [R4] A.3.4.3.1, A.3.4.4.2 | GPDT2: X GPDT3: O GPDT4: O GPPCC113: M | |
| GPPCC200 | Is persistent storage of Proxy Table supported? | [R4] A.3.4.2.2 | GPPCC3A: M | |
| GPPCC201 | Is handling of Proxy Table entries with status other than active and valid supported? | [R4] A.3.5.2.2 | GPDT2B: X GPDT2CB: X GPDT3: X GPDT4: O GPPCCF9: M | |
| GPPCC202 | Is passive discovery supported? | [R4] A.3.5.2.2.3 | GPDT2B: X GPDT2CB: X GPDT3: X GPDT4: O GPPCCF9: M | |
| GPPCC2034 | Is active discovery supported? | [R4] A.3.5.2.2.4 | GPDT2B: X GPDT2CB: X GPDT3: X GPDT4: O GPPCCF9: M | |

⁶³ CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|-------------|---|---|--|---------|
| GPPCC204 | Is active re-discovery supported? | [R4] A.3.5.2.2.5 | GPDT2B: X GPDT2CB: X GPDT3: X GPDT4: O GPPCCF9: M | |
| GPPCC205 | Is limiting the number of the transmitted Green Power cluster messages supported? | [R4] A.3.6.3.1, A.3.6.3.3 | GPDT2B: M GPDT2CB: M GPDT3CB: X (GPPCSF7 GPPCSF8): M GPDT4: O | |
| GPPCC205A | Is quality-based gppTunnelingDelay supported? | [R4] A.3.6.3.1 [R4] A.3.2.8, [R4] A.3.2.9 | (GPDT2B GPDT2CB) && GPPCCF11: M GPPCCF5 GPPCCF8 GPPCCF9 GPPCCF11 GPPCCF13: M (GPPCCF3 GPPCCF4 GPPCCF6) && !(GPPCCF5 GPPCCF8 GPPCCF9 GPPCCF11 GPPCCF13) : X GPDT3CB: X (GPPCSF18 && (GPPCSF7 GPPCSF8)): M GPDT4: O | |
| GPPCC205B | Is dropping the scheduled Green Power cluster message on reception of equivalent message supported? | [R4] A.3.6.3.1 [R4] A.3.2.8, [R4] A.3.2.9 | GPDT2B && GPPCCF11: X GPDT2CB && GPPCCF11: X GPPCCF5 GPPCCF8 GPPCCF9 GPPCCF11 GPPCCF13: M (GPPCCF3 GPPCCF4 GPPCCF6) && !(GPPCCF5 GPPCCF8 GPPCCF9 GPPCCF11 GPPCCF13) : X GPDT3CB: X (GPPCSF18 && (GPPCSF7 GPPCSF8)): M GPDT4: O | |
| GPPCC205C | Is transmission of Green Power cluster commands with alias supported? | [R4] A.3.6.3.3 [R4] A.3.2.8, [R4] A.3.2.9 | GPDT2B: M GPDT2CB: M GPPCCF3 GPPCCF4 GPPCCF5 GPPCCF11: M GPDT3CB: X GPPCSF18: M GPDT4: O | |
| GPPCC206 | Is updating <i>Lightweight sink address list</i> and <i>Full unicast sink address list</i> field of the Proxy Table attribute on reception of Device_annce supported? | [R4] A.3.5.2.1 | GPDT2B: M GPDT2CB: M GPPCC3A&&(GPPCCF5 GPPCCF6): M GPDT3: N/A GPDT4: O | |

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 [R4] A.3.6.1.5 | GPPCCF8: M.9 ⁶⁴ GPPCSF7 GPPCSF8: O | |
| GPF102 | Is reception of GPD Read Attributes command supported? | [R4] A.4.2.5 [R4] A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7 GPPCSF8: X | |

⁶⁴ 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 gpTxQueue 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 |
|-------------|--|------------------------------------|--|---------|
| GPF103 | Is transmission of GPD Read Attributes Response supported? | [R4] A.4.2.5 [R4] A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7 GPPCSF8: X | |
| GPF104 | Is reception of GPD Read Attributes Response command supported? | [R4] A.4.2.5 [R4] A.3.6.1.5 | GPPCCF8: M.16 (GPPCSF7 GPPCSF8)&&GPF101 : M | |
| GPF105 | Is transmission of GPD Request Attributes command supported? | [R4] A.4.2.5 [R4] A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7 GPPCSF8: X | |
| GPF106 | Is reception of GPD Request Attributes command supported? | [R4] A.4.2.5 [R4] A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7 GPPCSF8: M | |
| GPF107 | Is transmission of GPD Write Attributes command supported? | [R4] A.4.2.5 [R4] A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7 GPPCSF8: O | |
| GPF108 | Is reception of GPD Write Attributes command supported? | [R4] A.4.2.5 [R4] A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7 GPPCSF8: X | |
| GPF109 | Is transmission of GPD ZCL Tunneling command (0xF6) supported? | [R4] A.4.2.3.5 | GPPCCF8: M.16 (GPPCSF7 GPPCSF8)&& GPDRXA6: M | |
| GPF110 | Is reception of GPD ZCL Tunneling command (0xF6) supported? | [R4] A.4.2.3.5 | GPPCCF8: M.16 GPPCSF7 GPPCSF8: X | |
| GPF111 | List the functionality accessible via GPD ZCL Tunneling command. List the ZCL generic command, with the corresponding ClusterID(s) and AttributeID(s), if any. List the cluster-specific CommandIDs per ZCL-defined Cluster, if any. Manufacturer-specific functionality doesn't have to be listed. | [R10] GPSPIXIT07, GPSPIXIT08 | 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? <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 (GPPCSF10 GPPCSF11): O GPPCSF14: M ⁶⁵ GPDT4: O | |
| GPCF2 | Does the device support pairing with Commissioning GPDF? | [R4] A.3.9 | GPPCCF11: M (GPPCSF10 GPPCSF11): : M ⁶⁶ GPDT4: O | |
| 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 GPPCSF10 GPPCSF11: M ⁶⁷ GPDT4: O | |
| GPCF4 | Does the device support bidirectional communication in commissioning mode? | [R4] A.3.9 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁶⁸ GPDT4: O | |
| 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 (GPPCSF10 GPPCSF11): M | |
| GPCF6 | Does the device support transmission of the GPD Channel Configuration command? | [R4] A.3.9 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁶⁹ GPDT4: O | |

⁶⁵ CCB #2372; Resolution added in 15-02016-007

⁶⁶ CCB #2372; Resolution added in 15-02016-007

⁶⁷ CCB #2372; Resolution added in 15-02016-007

⁶⁸ CCB #2372; Resolution added in 15-02016-007

⁶⁹ CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|-------------|--|----------------|--|---------|
| 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 GPPCSF10 GPPCSF11: M ⁷⁰ GPDT4: O | |
| 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 GPPCSF13: M 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 GPPCSF10 GPPCSF11: M ⁷¹ GPDT4: O | |
| GPCF8A | Does the device support transmission of the GPD Commissioning Reply command in commissioning mode? | [R4] A.4.2.1.2 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁷² GPDT4: O | |
| GPCF8B | Does the device support transmission of the GPD Commissioning Reply command in operational mode? | [R4] A.4.2.1.2 | GPPCCF8 GPPCCF13: M GPPCSF13: M 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 GPPCSF10 GPPCSF11: M ⁷³ GPDT4: O | |
| 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 GPPCSF10 GPPCSF11: M ⁷⁴ GPDT4: O | YES |
| GPCF12B | Does the device support exchange of encrypted GPD key in GPD Commissioning command? | [R4] A.3.9 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁷⁵ GPDT4: O | YES |
| GPCF13A | Does the device support GPD key exchange in GPD Commissioning Reply command? | [R4] A.3.9 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁷⁶ GPDT4: O | |
| GPCF13B | Does the device support exchange of encrypted GPD key in GPD Commissioning Reply command? | [R4] A.3.9 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁷⁷ GPDT4: O | |
| GPCF14 | Does the device support out-of-band GPD key configuration? | [R4] A.3.9 | GPDT2: O GPDT3: O 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 GPPCSF10 GPPCSF11: M ⁷⁸ GPDT4: O | |
| GPCF16 | Does the device support in-band configuration of PANId (via GPD Commissioning Reply command)? | [R4] A.3.9 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁷⁹ GPDT4: O | |
| 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? If YES, specify the ModelID used. | [R4] A.4.2.1.1 | GPDT1: X | |

⁷⁰ CCB #2372; Resolution added in 15-02016-007⁷¹ CCB #2372; Resolution added in 15-02016-007⁷² CCB #2372; Resolution added in 15-02016-007⁷³ CCB #2372; Resolution added in 15-02016-007⁷⁴ CCB #2372; Resolution added in 15-02016-007⁷⁵ CCB #2372; Resolution added in 15-02016-007⁷⁶ CCB #2372; Resolution added in 15-02016-007⁷⁷ CCB #2372; Resolution added in 15-02016-007⁷⁸ CCB #2372; Resolution added in 15-02016-007⁷⁹ CCB #2372; Resolution added in 15-02016-007

| Item number | Item description | Reference | Status | Support |
|----------------------|---|---------------------------------------|---|---------|
| GPCF17B | Does the device support transmission of the GPD Commissioning command with the ManufacturerID? 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? 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? 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? 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? If YES, list the GPD commands used. | [R4] A.4.2.1.1 | GPDT1: X | |
| GPCF17G | Does the device support transmission of the GPD Commissioning command with the Switch Information? | [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 | |
| GPCF18B | Does the device support reception of the GPD Commissioning command with the ManufacturerID? If yes, list the ManufacturerID supported. | [R4] A.4.2.1.1 [R10] GPSPIXIT02 | GPCF18: M | |
| GPCF18C | Does the device support reception of the GPD Commissioning command with the GPD command list containing GPD-defined commands? If yes, list the GPD commands supported. | [R4] A.4.2.1.1 [R10] GPSPIXIT03 | GPCF18: M | |
| GPCF18D | Does the device support reception of the GPD Commissioning command with the GPD command list containing manufacturer-defined GPD commands? If yes, list the GPD commands supported. | [R4] A.4.2.1.1 [R10] GPSPIXIT04 | GPCF18: M | |
| GPCF18E | Does the device support reception of the GPD Commissioning command with the Cluster list containing ZCL-defined clusters? If yes, list the ZCL clusters controllable via GP. | [R4] A.4.2.1.1 [R10] GPSPIXIT05 | GPCF18: M | |
| GPCF18F | Does the device support reception of the GPD Commissioning command with the Cluster list containing manufacturer-specific clusters? If yes, list the manufacturer-specific clusters controllable via GP. | [R4] A.4.2.1.1 [R10] GPSPIXIT06 | GPCF18: M | |
| GPCF18G | Does the device support reception of the GPD Commissioning command with the Switch Information? | [R4] A.4.2.1.1 | GPS17: M | |
| GPCF19 | Does the device support automatic progressing between the commissioning steps? | [R4] A.3.9.1 | GPDT1: X | |
| GPCF20 | Does the device support transmission of the GPD Application Description command? | [R4] A.3.9.1, A.4.2.1.6 | GPDT1: X | |
| GPCF21 | Does the device support reception of the GPD Application Description command? | [R4] A.3.9.1, [R4] A.4.2.1.6 | ⁸⁰ GPS16: M ⁸¹ GPPCCF11: M | |
| ⁸² GPCF22 | Does the GPD support subsequent commissioning? | [R4] A.3.9.1 | GPDT1: X | |

⁸⁰ Comment #785 from GP multi-sensor v0.7 letter ballot⁸¹ Comment #1374 from GP multi-sensor v1.0 WG ballot;⁸² Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1025

| Item number | Item description | Reference | Status | Support |
|-----------------------|---|--------------|--|---------|
| GPCF22A | Does the GPD supporting bidirectional commissioning with OOB key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | GPDT1: X | |
| GPCF22B | Does the GPD supporting bidirectional commissioning with OOB key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPDT1: X | |
| GPCF22C | Does the GPD supporting bidirectional commissioning with shared key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | GPDT1: X | |
| GPCF22D | Does the GPD supporting bidirectional commissioning with shared key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPDT1: X | |
| GPCF22E | Does the GPD supporting unidirectional commissioning implement the subsequent commissioning as full unidirectional procedure? | [R4] A.3.9.1 | GPDT1: X | |
| GPCF22F | Does the GPD supporting unidirectional commissioning implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPDT1: X | |
| ⁸³ GPCF23 | Does the device support subsequent commissioning? | [R4] A.3.9.1 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁸⁴ GPDT4: O | |
| GPCF23A | Does the device supporting bidirectional commissioning with OOB key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁸⁵ GPDT4: O | |
| GPCF23B | Does the device supporting bidirectional commissioning with OOB key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁸⁶ GPDT4: O | |
| GPCF23C | Does the device supporting bidirectional commissioning with shared key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁸⁷ GPDT4: O | |
| GPCF23D | Does the device supporting bidirectional commissioning with shared key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁸⁸ GPDT4: O | |
| GPCF23E | Does the device supporting unidirectional commissioning implement the subsequent commissioning as full unidirectional procedure? | [R4] A.3.9.1 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁸⁹ GPDT4: O | |
| GPCF23F | Does the device supporting unidirectional commissioning implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPPCCF11: M GPPCSF10 GPPCSF11: M ⁹⁰ GPDT4: O | |
| ⁹¹ GPCF24A | Does the device support handling of unprotected GPDP with GPD CommandIDs from the range 0xE4 – 0xEF in commissioning mode (forwarding using GP Commissioning Notification, responding with GPDP buffered in <i>gpTxQueue</i>)? | [R4] A.3.9.1 | GPPCCF11: M | |
| ⁹² GPCF24B | Does the device support handling of unprotected GPDP with GPD CommandIDs from the manufacturer-specific range 0xB0 – 0xBF in commissioning mode (forwarding using GP Commissioning Notification, responding with GPDP buffered in <i>gpTxQueue</i>)? | [R4] A.3.9.1 | GPPCCF11: M | |

⁸³ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1025

⁸⁴ CCB #2372; Resolution added in 15-02016-007

⁸⁵ CCB #2372; Resolution added in 15-02016-007

⁸⁶ CCB #2372; Resolution added in 15-02016-007

⁸⁷ CCB #2372; Resolution added in 15-02016-007

⁸⁸ CCB #2372; Resolution added in 15-02016-007

⁸⁹ CCB #2372; Resolution added in 15-02016-007

⁹⁰ CCB #2372; Resolution added in 15-02016-007

⁹¹ CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:

https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

⁹² CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:

https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

| Item number | Item description | Reference | Status | Support |
|-----------------------|---|--------------|--|---------|
| ⁹³ GPCF24C | Does the device support sending of unprotected GPDF with GPD CommandIDs from the range 0xF7 – 0xFF and <i>Direction</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b1, after receiving it in a GP Response command in commissioning mode? | [R4] A.3.9.1 | GPPCCF11: M | |
| ⁹⁴ GPCF24D | Does the device support sending of unprotected GPDF with GPD CommandIDs from the range 0xB0 – 0xBF and <i>Direction</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b1, after receiving it in a GP Response command in commissioning mode? | [R4] A.3.9.1 | GPPCCF11: M | |
| GPCF100 | Is writing into Sink Table attribute via generic ZCL command supported during commissioning mode? | [R4] A.3.3.2 | GPPCCF12: N/A GPPCSF12: X 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 GPPCSF12: X GPDT4: X | |
| GPCF102 | Is writing into Proxy Table attribute via generic ZCL command supported during commissioning mode? | [R4] A.3.4.2 | GPPCCF12: X GPPCSF12: N/A GPDT4: X | |
| GPCF103 | Is writing into Proxy Table attribute via generic ZCL command supported during operational mode? | [R4] A.3.4.2 | GPPCCF12: X GPPCSF12: N/A GPDT4: X | |

⁹³ CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set: https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

⁹⁴ CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set: https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

11.4 GPS application functionality

11.4.1 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 ⁹⁵ | |
| 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 [R10] GPSPIXIT04 | GPS15: O.35 ⁹⁶ | |
| GPS15B | What additional GP-controllable clusters does the product support? List (public) ZCL ClusterIDs, | [R4] A.4.3.1 [R10] GPSPIXIT05 | GPS15: O.35 | |
| GPS15C | What manufacturer-specific GP-controllable clusters does the product support? List ManufacturerID and GPD ClusterIDs. | [R4] A.4.3.1 [R10] GPSPIXIT06 | GPS15: O.35 | |

⁹⁵ O.17: Device Under Test SHALL support at least one of those options.

⁹⁶ O.35: Device Under Test SHALL support at least one of those options.

| | | | | |
|----------------------|--|---|--|--|
| GPS16 | Is the product programmed with support for any standard ZCL cluster using GPD Compact Attribute Reporting functionality? If yes, list all standard ZCL ClusterIDs supported ⁹⁷ via GPD Compact Attribute Reporting functionality: | [R4] A.4.2.3.6 [R10] GPSPIXIT09 | GPDT3: O ⁹⁸ GPS6 GPS7 GPS9 GPS12: M GPPCSF21: M | |
| ⁹⁹ GPS16B | Is the product capable of buffering at least the minimum number of 1 GPD Application Description command and forwarding it as GPD Pairing Configuration commands with <i>Action</i> = 0b101 in case of <i>gpsCommunicationMode</i> = pre-commissioned group? What number of GPD Application Description commands can be buffered (<i>MultiSensorCommissioningBufferSize</i>)? | [R4] A.4.2.3.6 [R4] A.3.9.1 [R10] GPSPIXIT10 | GPS16 && GPPCSF4 && GPPCSF12: M ¹⁰⁰ GPPCSF21: M | |
| GPS17 | Is the product programmed with support for GP Generic 8-contact switch functionality? | [R4] A.4.3.1 | GPDT3: O.17 ¹⁰¹ GPS1A GPS1B: M GPS2: M GPS3: M ¹⁰² GPS14A GPS14B: M Any of GPDRX10 - GPDRX1f: M ¹⁰³ GPS18: M | |
| GPS17A | Is the product programmed with support for other GP Generic 8-contact switch functionality indicating <i>Switch type</i> : generic in Commissioning GPDF? | [R4] A.4.2.1.1.10 | GPS17: M | |
| GPS17B | Is the product programmed with support for other GP Generic 8-contact switch functionality indicating <i>Switch type</i> : button in Commissioning GPDF? | [R4] A.4.2.1.1.10 | GPS17: M | |
| GPS17C | Is the product programmed with support for other GP Generic 8-contact switch functionality indicating <i>Switch type</i> : rocker in Commissioning GPDF? | [R4] A.4.2.1.1.10 | GPS17: M | |
| ¹⁰⁴ GPS18 | Is the product programmed with (GP-controllable) server-side Window Covering cluster? | [R4] A.4.3 | GPDT3: O. 17 | |

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 [R4] A.4.1 | GPDT3: O | |
| GPDRX11 | Is reception of GPD Recall Scene 1 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O | |
| GPDRX12 | Is reception of GPD Recall Scene 2 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O | |
| GPDRX13 | Is reception of GPD Recall Scene 3 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O | |
| GPDRX14 | Is reception of GPD Recall Scene 4 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O | |

⁹⁷ Comment #774 from GP multi-sensor v0.7 letter ballot

⁹⁸ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1014

⁹⁹ GP multi-sensor v0.9 LB comment #973: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=973

¹⁰⁰ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1014

¹⁰¹ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1014

¹⁰² Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1014

¹⁰³ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013

¹⁰⁴ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013

| Item number | Item description | Reference | Status | Support |
|------------------------|---|----------------------------|---|---------|
| GPDRX15 | Is reception of GPD Recall Scene 5 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O | |
| GPDRX16 | Is reception of GPD Recall Scene 6 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O | |
| GPDRX17 | Is reception of GPD Recall Scene 7 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O | |
| GPDRX18 | Is reception of GPD Store Scene 0 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX10: O | |
| GPDRX19 | Is reception of GPD Store Scene 1 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX11: O | |
| GPDRX1a | Is reception of GPD Store Scene 2 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX12: O | |
| GPDRX1b | Is reception of GPD Store Scene 3 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX13: O | |
| GPDRX1c | Is reception of GPD Store Scene 4 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX14: O | |
| GPDRX1d | Is reception of GPD Store Scene 5 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX15: O | |
| GPDRX1e | Is reception of GPD Store Scene 6 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX16: O | |
| GPDRX1f | Is reception of GPD Store Scene 7 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT3: O GPDRX17: O | |
| GPDRX20 | Is reception of GPD Off command supported? | [R4] A.4.3 [R4] A.4.1 | GPS2: O.20105 | |
| GPDRX21 | Is reception of GPD On command supported? | [R4] A.4.3 [R4] A.4.1 | GPS2 && GPDRX21: M | |
| GPDRX22 | Is reception of GPD Toggle command supported? | [R4] A.4.3 [R4] A.4.1 | GPS2: O.20 | |
| GPDRX23 | Is reception of GPD Release command supported? | [R4] A.4.3 [R4] A.4.1 | GPS2: M | |
| ¹⁰⁶ GPDRX30 | Is reception of GPD Move up command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21107 ¹⁰⁸ GPS18: O.21 GPDRX31: M | |
| ¹⁰⁹ GPDRX31 | Is reception of GPD Move Down command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21 ¹¹⁰ GPS18: O.21GPDRX30: M | |
| ¹¹¹ GPDRX32 | Is reception of GPD Step Up command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21 ¹¹² GPS18: O.21 GPDRX33: M | |

¹⁰⁵ O.20: Device Under Test SHALL support exactly one of those options.¹⁰⁶ CCB #2198; Resolution added in 15-02016-003;¹⁰⁷ O.21: Device Under Test SHALL support at least one of those options.¹⁰⁸ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹⁰⁹ CCB #2198; Resolution added in 15-02016-003;¹¹⁰ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹¹¹ CCB #2198; Resolution added in 15-02016-003;¹¹² Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013

| Item number | Item description | Reference | Status | Support |
|------------------------|--|----------------------------|--|---------|
| ¹¹³ GPDRX33 | Is reception of GPD Step Down command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21 ¹¹⁴ GPS18: O.21 GPDRX32: M | |
| ¹¹⁵ GPDRX34 | Is reception of GPD Stop command supported? | [R4] A.4.3 [R4] A.4.1 | GPS3: O.21 ¹¹⁶ GPS18: O.21 (GPDRX30 GPDRX31 GPDRX35 GPDRX36): M | |
| ¹¹⁷ GPDRX35 | Is reception of GPD Move Up (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21 ¹¹⁸ GPS18: O.21 GPDRX36: M | |
| ¹¹⁹ GPDRX36 | Is reception of GPD Move Down (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21 ¹²⁰ GPS18: O.21 GPDRX35: M | |
| ¹²¹ GPDRX37 | Is reception of GPD Step Up (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21 ¹²² GPS18: O.21 GPDRX38: M | |
| ¹²³ GPDRX38 | Is reception of GPD Step Down (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPS3: O.21 ¹²⁴ GPS18: O.21 GPDRX37: M | |
| GPDRX40 | Is reception of GPD Move Hue ¹²⁵ Stop command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 ¹²⁶ (GPDRX41 GPDRX42): M | |
| ¹²⁸ GPDRX41 | Is reception of GPD Move Hue Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX42: M | |
| ¹²⁹ GPDRX42 | Is reception of GPD Move Hue Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX41: M | |
| ¹³⁰ GPDRX43 | Is reception of GPD Step Hue Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX44: M | |
| ¹³¹ GPDRX44 | Is reception of GPD Step Hue Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX43: M | |
| ¹³² GPDRX45 | Is reception of GPD Move Saturation ¹³³ Stop command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 (GPDRX46 GPDRX47): M | |
| ¹³⁴ GPDRX46 | Is reception of GPD Move Saturation Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX47: M | |
| ¹³⁵ GPDRX47 | Is reception of GPD Move Saturation Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX46: M | |

¹¹³ CCB #2198; Resolution added in 15-02016-003;¹¹⁴ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹¹⁵ CCB #2198; Resolution added in 15-02016-003;¹¹⁶ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹¹⁷ CCB #2198; Resolution added in 15-02016-003;¹¹⁸ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹¹⁹ CCB #2198; Resolution added in 15-02016-003;¹²⁰ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹²¹ CCB #2198; Resolution added in 15-02016-003;¹²² Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹²³ CCB #2198; Resolution added in 15-02016-003;¹²⁴ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹²⁵ https://workspace.zigbee.org/kws/groups/PRO_GP/comments?clear=1&workgroup_id=46, added in 15-02016-r004¹²⁶ O.22: Device Under Test SHALL support at least one of those options.¹²⁷ CCB #2198; Resolution added in 15-02016-003;¹²⁸ CCB #2198; Resolution added in 15-02016-003;¹²⁹ CCB #2198; Resolution added in 15-02016-003;¹³⁰ CCB #2198; Resolution added in 15-02016-003;¹³¹ CCB #2198; Resolution added in 15-02016-003;¹³² CCB #2198; Resolution added in 15-02016-003;¹³³ https://workspace.zigbee.org/kws/groups/PRO_GP/comments?clear=1&workgroup_id=46, added in 15-02016-r004¹³⁴ CCB #2198; Resolution added in 15-02016-003;¹³⁵ CCB #2198; Resolution added in 15-02016-003;

| Item number | Item description | Reference | Status | Support |
|------------------------|--|--|--|---------|
| ¹³⁶ GPDRX48 | Is reception of GPD Step Saturation Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX49: M | |
| ¹³⁷ GPDRX49 | Is reception of GPD Step Saturation Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 GPDRX48: M | |
| GPDRX4a | Is reception of GPD Move Color command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 | |
| GPDRX4b | Is reception of GPD Step Color command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPS5: O.22 | |
| GPDRX50 | Is reception of GPD Lock Door command supported? | [R4] A.4.3 [R4] A.4.1 | GPS8: M | |
| GPDRX51 | Is reception of GPD Unlock Door command supported? | [R4] A.4.3 [R4] A.4.1 | GPS8: M | |
| GPDRX60 | Is reception of GPD Press 1 of 1 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS1A: M GPS14A: M | |
| GPDRX61 | Is reception of GPD Release 1 of 1 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS1A: M GPS14A: M | |
| GPDRX62 | Is reception of GPD Press 1 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS1B: M GPS14B: M ¹³⁸ GPS18: M | |
| GPDRX63 | Is reception of GPD Release 1 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS1B: M GPS14B: M ¹³⁹ GPS18: M | |
| GPDRX64 | Is reception of GPD Press 2 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS1B: M GPS14B: M ¹⁴⁰ GPS18: M | |
| GPDRX65 | Is reception of GPD Release 2 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS1B: M GPS14B: M ¹⁴¹ GPS18: M | |
| GPDRX66 | Is reception of GPD Short Press 1 of 1 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS14A: M | |
| GPDRX67 | Is reception of GPD Short Press 1 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS14B: M ¹⁴² GPS18: M | |
| GPDRX68 | Is reception of GPD Short Press 2 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS14B: M ¹⁴³ GPS18: M | |
| GPDRX69 | Is reception of GPD 8-bit vector: press command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS17: M ¹⁴⁴ GPS18: M | |
| GPDRX6A | Is reception of GPD 8-bit vector: release command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPS17: O ¹⁴⁵ GPS18: M | |

¹³⁶ CCB #2198; Resolution added in 15-02016-003;¹³⁷ CCB #2198; Resolution added in 15-02016-003;¹³⁸ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹³⁹ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹⁴⁰ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹⁴¹ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹⁴² Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹⁴³ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹⁴⁴ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013¹⁴⁵ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013

| Item number | Item description | Reference | Status | Support |
|------------------------|--|----------------------------|--|---------|
| GPDRXA0 | Is reception of GPD Attribute Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPS4 GPS6 GPS7 GPS9 GPS10 GPS11 GPS12: M | |
| GPDRXA1 | Is reception of GPD Manufacturer-Specific Attribute Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPS4 GPS6 GPS7 GPS9 GPS10 GPS11 GPS12: M | |
| GPDRXA2 | Is reception of GPD Multi-Cluster Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPS4 GPS6 GPS7 GPS9 GPS10 GPS11 GPS12: M | |
| GPDRXA3 | Is reception of GPD Manufacturer-Specific Multi-Cluster Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPS4 GPS6 GPS7 GPS9 GPS10 GPS11 GPS12: M | |
| GPDRXA6 | Is reception of GPD ZCL Tunneling command supported? | [R4] A.4.3 | GPS4 GPS6 GPS7 GPS9 GPS10 GPS11 GPS12: M GPS15C GPS15B: M | |
| ¹⁴⁶ GPDRXA8 | Is reception of GPD Compact Attribute Reporting command supported? | [R4] A.4.2.3.6 | GPS6 GPS7 GPS9 GPS12 ¹⁴⁷ GPS16: M ¹⁴⁸ GPPCSF21: M | |

¹⁴⁶ Comment #784, #785, #783 from GP multi-sensor v0.7 letter ballot¹⁴⁷ Comment #785 from GP multi-sensor v0.7 letter ballot¹⁴⁸ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1014

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.23 ¹⁴⁹ | No |
| GPDT1 | Is the product programmed as a GP Simple Generic 2-state Switch? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT2 | Is the product programmed as a GP On/Off Switch? | [R4] A.4.3 | GPDT0: O.23 | Yes |
| GPDT3 | Is the product programmed as a GP Level Control Switch? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT4 | Is the product programmed as a GP Simple Sensor? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT5 | Is the product programmed as a GP Advanced Generic 1-state Switch? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT5B | What is the value of the short press time threshold? | [R4] A.4.2.2 | Implementation-specific | No |
| GPDT6 | Is the product programmed as a GP Advanced Generic 2-state Switch? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT6B | What is the value of the short press time threshold? | [R4] A.4.2.2 | Implementation-specific | No |
| GPDT7 | Is the product programmed as a GP Generic 8-contact Switch? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT7B | What is the number of supported contacts? | [R4] A.4.2.1.1.10, A.4.2.2.1 | GPDT7: Implementation-specific (0-8) | 5 |
| GPDT7C | Does the GP Generic 8-contact Switch indicate <i>Switch type</i> : generic in Commissioning GPDF? | [R4] A.4.2.1.1.10 | GPDT7: O.40 ¹⁵⁰ | Yes |
| GPDT7D | Does the GP Generic 8-contact Switch indicate <i>Switch type</i> : button in Commissioning GPDF? | [R4] A.4.2.1.1.10 | GPDT7: O.40 | No |
| GPDT7E | Does the GP Generic 8-contact Switch indicate <i>Switch type</i> : rocker in Commissioning GPDF? | [R4] A.4.2.1.1.10 | GPDT7: O.40 | No |
| xGPDT10 | Is the product programmed as a GP Color Dimmer Switch? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT11 | Is the product programmed as a GP Light Sensor? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT12 | Is the product programmed as a GP Occupancy Sensor? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT20 | Is the product programmed as a GP Door Lock Controller? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT30 | Is the product programmed as a GP Temperature Sensor? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT31 | Is the product programmed as a GP Pressure Sensor? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT32 | Is the product programmed as a GP Flow Sensor? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT33 | Is the product programmed as a GP Indoor Environment Sensor? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPDT100 | Does the product deviate from the standard GPD functionality mandatory for the product's DeviceID? | [R4] A.4.3.1 | GPDT0: O | Yes |

¹⁴⁹ O.23: Device Under Test SHALL support exactly one of those options.

¹⁵⁰ O.40: DUT shall implement exactly one of those options.

| Item number | Item description | Reference | Status | Support |
|-------------|--|---|-----------------------------|--|
| GPD100A | 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? If yes, list all standard GPD CommandIDs supported. | [R4] A.4.3.1 [R10] GPDPIXIT14 | GPD100: O.35 ¹⁵¹ | Yes 0x10 0x11 0x12 0x13 0x14 0x15 0x16 0x17 0x22 0x60 0x62 0x63 0x64 0x65 0x66 0x67 0x68 |
| GPD100B | Does the standard ZCL cluster set supported by the product deviate from the standard ZCL cluster set mandatory for the product's DeviceID? If yes, list all standard ZCL ClusterIDs supported, | [R4] A.4.3.1 [R10] GPDPIXIT15, [R10] GPDPIXIT16 | GPD100: O.35 | No |
| GPDFE | Is the product programmed as an undefined GP device (DeviceID = 0xFE)? | [R4] A.4.3 | GPDT0: O.23 | No |
| GPD101 | Is the product with DeviceID = 0xFE programmed with support for any standard functionality? Note: a GPD not supporting any standard functionality cannot be certified. | [R4] A.4.3.1 | GPDFE: M | No |
| GPD101A | Is the product programmed with support for any standard GPD Data command? If yes, list all standard GPD CommandIDs supported. | [R4] A.4.3.1 [R10] GPDPIXIT09 | GPD101: O.36 ¹⁵² | - |
| GPD101B | Is the product programmed with support for any standard ZCL cluster in a server role? If yes, list all standard ZCL ClusterIDs supported in a server role: | [R4] A.4.3.1 [R10] GPDPIXIT10 | GPD101: O.36 | - |
| GPD101C | Is the product programmed with support for any standard ZCL cluster in a client role? If yes, list all standard ZCL ClusterIDs supported in a client role: | [R4] A.4.3.1 [R10] GPDPIXIT11 | GPD101: O.36 | - |
| GPD102 | Is the product programmed with support for any standard ZCL cluster using GPD Compact Attribute Reporting functionality? If yes, list all standard ZCL ClusterIDs supported ¹⁵³ via GPD Compact Attribute Reporting functionality: | [R4] A.4.2.3.6 [R9] [R10] GPDPIXIT12 | GPD101: O.36 | No |
| GPD103 | Is the product supporting GPD Compact Attribute Reporting ¹⁵⁴ functionality programmed with capability to send reports () with more than one report identifier? If yes, indicate the number of different reports: | [R4] A.4.2.3.6 [R10] GPDPIXIT13 | GPD102: O | - |

12.2 GPD functionality

Table 14 – GPD functionality

| Item number | Item description | Reference | Status | Support |
|---------------------|---|---------------------------------------|----------------------------|---------|
| ¹⁵⁵ GPF1 | Does the device implement cGP stub? | [R4] A.1 | GPDT0: X | No |
| ¹⁵⁶ GPF2 | Does the device implement dGP stub? | [R4] A.1 | GPDT0: X | No |
| GPPC1 | Does the device support Green Power End Point (GPEP)? | [R4] A.3.1 | GPDT0: X | No |
| 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 [R10] GPDPIXIT18 | GPDT0: O.22 ¹⁵⁷ | Yes |
| 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 [R10] GPDPIXIT19 | GPDT0: O.22 | No |

¹⁵¹ O.35: Device Under Test MAY support at least one of those options.

¹⁵² O.36: Device Under Test SHALL support at least one of those options.

¹⁵³ Comment #775 from GP multi-sensor v0.7 letter ballot

¹⁵⁴ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1013

¹⁵⁵ CCB #2524; resolution added in 15-02016-009;

¹⁵⁶ CCB #2524; resolution added in 15-02016-009;

¹⁵⁷ O.22: Device Under Test SHALL support only one of those options.

| Item number | Item description | Reference | Status | Support |
|-------------|--|---------------------------------------|---|---------|
| GPFA1 | Does the device support multiple SrcID? If yes, list the SrcIDs. | [R4] A.1.6.2.1 [R10] GPDPIXIT18 | GPFA4A: O GPFA4B: X | No |
| GPFA2 | Apart from Endpoint 0x00 and 0xFF, does the device support multiple Endpoints from the range 0x01 – 0xF0? If yes, list the Endpoints. | [R4] A.1.6.2.2 [R10] GPDPIXIT20 | GPFA4A: X GPFA4B: O | No |
| GPF5 | Does the device support SecurityLevel=0b11? | [R4] A.1.5.4 [R4] A.3.7.2.1 | GPDT0: O.24 ¹⁵⁸ | No |
| GPF6 | Does the device support SecurityLevel=0b10? | [R4] A.1.5.4 [R4] A.3.7.2.1 | GPDT0: O.24 | Yes |
| GPF7 | Does the device support SecurityLevel=0b01? (deprecated) | [R4] A.1.5.4 [R4] A.3.7.2.1 | GPDT0: X (deprecated) | No |
| GPF8A | Does the device support SecurityLevel=0b00 in commissioning? | [R4] A.1.5.4 [R4] A.3.9.1 | GPDT0: O GPDT0: && GPCF4: M | No |
| GPF8B | Does the device support SecurityLevel=0b00 in operation? <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 [R4] A.3.7.2.1 | GPDT0: O | No |
| 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 (GPF4B: X) | No |
| 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 (GPF4A: X) | No |
| 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, A.3.9 | GPDT0 && GPCF4: M | No |
| 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) | No |
| 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) | No |
| GPDF2 | Does the device support incremental MAC sequence number for GPD commands? | [R4] A.1.6, A.1.7 | GPDT0 && (GPFA GPF8B): O | Yes |
| GPDF3 | Is the FixedLocation flag in the Commissioning GPD command set? | [R4] A.1.6, A.1.7 | GPDT0: O | No |

12.2.1 GPD Bidirectional operation

Table 15 – Support for Green Power functionality

| Item number | Item description | Reference | Status | Support |
|-------------|--|--------------------------------|------------------|---------|
| GPF100 | Does the device support bidirectional communication in operational mode? | [R4] A.1.6.3 [R4] A.3.6.1.5 | GPDT0: O | No |
| GPF101 | Is transmission of GPD Read Attributes command supported? | [R4] A.4.2.5 | GPDT0: X | No |
| GPF102 | Is reception of GPD Read Attributes command supported? | [R4] A.4.2.5 | GPDT0&&GPF100: M | No |
| GPF103 | Is transmission of GPD Read Attributes Response supported? | [R4] A.4.2.5 | GPDT0&&GPF100: M | No |
| GPF104 | Is reception of GPD Read Attributes Response command supported? | [R4] A.4.2.5 | GPDT0: X | No |
| GPF105 | Is transmission of GPD Request Attributes command supported? | [R4] A.4.2.5 | GPDT0&&GPF100: O | No |

¹⁵⁸ O.24: Device Under Test SHALL support at least one of those options.

| Item number | Item description | Reference | Status | Support |
|-------------|---|--|--------------------|---------|
| GPF106 | Is reception of GPD Request Attributes command supported? | [R4] A.4.2.5 | GPDT0: X | No |
| GPF107 | Is transmission of GPD Write Attributes command supported? | [R4] A.4.2.5 | GPDT0: X | No |
| GPF108 | Is reception of GPD Write Attributes command supported? | [R4] A.4.2.5 | GPDT0&&GPF100: O | No |
| GPF109 | Is transmission of GPD ZCL Tunneling command (0xF6) supported? | [R4] A.4.2.3.5 | GPDT0: X | No |
| GPF110 | Is reception of GPD ZCL Tunneling command (0xF6) supported? | [R4] A.4.2.3.5 | GPDT0&& GPDTXA6: M | No |
| GPF111 | List the functionality accessible (receivable) via GPD ZCL Tunneling command. List the ZCL generic command, with the corresponding ClusterID(s) and AttributeID(s), if any. List the cluster-specific CommandIDs per ZCL-defined Cluster, if any. Manufacturer-specific functionality doesn't have to be listed. | [R4] A.4.2.3.5 [R10] GPDPIXIT07, GPDPIXIT08 | GPF110: M | No |

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? <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 | GPDT0: M | Yes |
| GPCF1 | Does the device support pairing with Data GPDF with Auto-Commissioning bit set to 0b1? <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 [R4] A.1.4, A.1.6 | GPDT0: O.26 | No |
| GPCF2 | Does the device support pairing with Commissioning GPDF? | [R4] A.3.9 [R4] A.4.2.1.1 | GPDT0: O.26 ¹⁵⁹ GPDT0 && (GPD4 GPD11 GPD12 GPD30 GPD31 GPD32 GPD33): M | Yes |
| GPCF3A | Does the device support transmission of GPD Commissioning command? | [R4] A.4.2.1.1 | GPDT0&&GPCF2: M | Yes |
| GPCF3B | Does the device support reception of GPD Commissioning command? | [R4] A.4.2.1.1 | GPDT0: X | No |
| GPCF4 | Does the device support bidirectional communication in commissioning mode? | [R4] A.3.9 | GPDT0: O | No |
| GPDF10 | Does the device support configuration of operational channel when in commissioning mode? | [R4] A.3.9 | GPDT0: O | Yes |
| GPDF10A | Does the device support out-of-band configuration of operational channel? | [R4] A.3.9 | GPDT0: O.27 ¹⁶⁰ (GPDT0 && GPCF4): X | Yes |
| GPDF10B | Does the device support configuration of operational channel via channel toggling (GPD Commissioning command with <code>RxAfterTx = 0b0</code>)? | [R4] A.3.9 | GPDT0: O.27 (GPDT0 && GPCF4): X | Yes |
| 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 (GPDT0 && GPCF4): M | No |
| GPDF10D | Does the device support the recommended channel set (11, 15, 20, 25)? | [R4] A.1.6, A.1.7 | GPDT0&&GPCF16: M | Yes |
| 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, A.1.7 [R10] GPDPIXIT17 | GPDT0: O | No 11,15,20,25 |
| GPCF5A | Does the device support transmission of the GPD Channel Request command in commissioning mode? | [R4] A.3.9 [R4] A.4.2.1.4 [R4] A.1.4 | GPDT0: O GPDT0 &&(GPCF4 GPDF10C): M | No |
| GPCF5B | Does the device support reception of the GPD Channel Request command in commissioning mode? | [R4] A.3.9 [R4] A.4.2.1.4 [R4] A.1.4 | GPDT0: X | No |
| GPCF6 | Does the device support transmission of the GPD Channel Configuration command? | [R4] A.3.9 [R4] A.4.2.1.5 [R4] A.1.4 | GPDT0: X | No |
| GPCF7 | Does the device support reception of the GPD Channel Configuration command? | [R4] A.3.9 [R4] A.4.2.1.5 [R4] A.1.4 | GPDT0: O | No |
| GPCF7A | Does the device support reception of the GPD Channel Configuration command in commissioning mode? | [R4] A.3.9 [R4] A.4.2.1.5 [R4] A.1.4 | GPDT0: O GPDT0 &&(GPCF4 GPDF10C): M | No |

¹⁵⁹ O.26: Device Under Test SHOULD support exactly one of those methods.

¹⁶⁰ O.27: Device Under Test SHALL support at least one of the methods.

| Item number | Item description | Reference | Status | Support |
|-------------|--|--|---|---------|
| GPCF7B | Does the device support reception of the GPD Channel Configuration command in operational mode? | [R4] A.6 [R4] A.4.2.1.5 [R4] A.1.4 | GPDT0: O GPDT0 && (GPF10A GPF10B): O | No |
| GPCF8 | Does the device support transmission of the GPD Commissioning Reply command? | [R4] A.4.2.1.2 | GPDT0: X | No |
| GPCF9 | Does the device support reception of the GPD Commissioning Reply command? | [R4] A.4.2.1.2 | GPDT0 && GPCF2: O | No |
| GPCF9A | Does the device support reception of the GPD Commissioning Reply command in commissioning mode? | [R4] A.4.2.1.2 | GPDT0 && GPCF4: M | No |
| GPCF9B | Does the device support reception of the GPD Commissioning Reply command in operational mode? | [R4] A.6 | GPDT0 && (GPF10A GPF10B): O | No |
| GPCF10A | Is GPD reset/decommissioning via an explicit user action supported? | [R4] A.1.7.3.2 | GPDT0: O ¹⁶¹ GPCF23B GPCF23D GPCF23F: M | No |
| GPCF10B | Is GPD removal via GPD Decommissioning command supported? | [R4] A.4.2.1.3 | GPDT0: O GPCF10A: O | No |
| GPCF11 | Does the device come with pre-configured GPD key? | [R4] A.3.9 | GPDT0 && (GPF5 GPF6): O.28 ¹⁶² | Yes |
| GPCF12A | Does the device support GPD key exchange in GPD Commissioning command? | [R4] A.3.9 | GPDT0 && GPCF2: O GPDT0 && GPCF11: M | Yes |
| GPCF12B | Does the device support exchange of encrypted GPD key in GPD Commissioning command? <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 [R4] A.1.5 | GPDT0 && GPCF11: M | Yes |
| GPCF13A | Does the device support GPD key exchange in GPD Commissioning Reply command? | [R4] A.3.9 | GPDT0 && (GPF5 GPF6): O.28 GPDT0 && GPCF9: O | No |
| GPCF13B | Does the device support exchange of encrypted GPD key in GPD Commissioning Reply command? <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 [R4] A.1.5 | GPDT0 && GPCF13A: M | No |
| GPCF14 | Does the device support out-of-band GPD key configuration? | [R4] A.3.9 | GPDT0 && (GPF5 GPF6): O.28 | No |
| GPCF15A | Does the device support transmission of GPD Success command in commissioning mode? | [R4] A.3.9 [R4] A.4.1 | GPDT0: O GPDT0 && GPCF4: M | No |
| GPCF15B | Does the device support reception of GPD Success command when in commissioning mode? | [R4] A.3.9 [R4] A.4.1 | GPDT0: X | No |
| GPCF16 | Does the device support in-band configuration of PANId (via GPD Commissioning Reply command)? | [R4] A.3.9 [R4] A.4.2.1.2 | GPDT0 && GPCF4: O | No |
| GPCF17 | Does the device support transmission of GPD Commissioning command with Application information? | [R4] A.4.2.1.1 | GPCF3A: O ¹⁶³ GPDT7: M GPD100: M GPD102: M GPDFE: M GPCF17A GPCF17B GPCF17C GPCF17E: M | Yes |
| GPCF17A | Does the device support transmission of the GPD Commissioning command with the ModelID? If YES, indicate the ModelID. | [R4] A.4.2.1.1 [R10] GPDPIXIT01 | GPCF3A: O GPCF17: O.33 ¹⁶⁴ | No |
| GPCF17B | Does the device support transmission of the GPD Commissioning command with the ManufacturerID? If YES, specify the ManufacturerID. | [R4] A.4.2.1.1 [R10] GPDPIXIT02 | GPCF3A: O GPCF17: O.33 GPCF17A GPCF17D GPCF17F: M | No |

¹⁶¹ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1025¹⁶² O.28: Device Under Test SHALL support at least one of those options.¹⁶³ GP multi-sensor v0.9 LB comment #976: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=976¹⁶⁴ O.33: Device Under Test SHOULD support at least one of these options

| Item number | Item description | Reference | Status | Support |
|------------------------|--|---------------------------------------|---|---|
| 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)? 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 [R10] GPDPIXIT03 | GPCF3A: O GPCF17: O.33 GPD100 GPDFE: O.34 ¹⁶⁵ GPD100A: M GPD101A: M | Yes: 0x10 0x11 0x12 0x13 0x14 0x15 0x16 0x17 0x22 0x60 0x62 0x63 0x64 0x65 0x66 0x67 0x68 |
| 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 GPCF17: O.33 | No |
| GPCF17E | Does the device support transmission of the GPD Commissioning command with the Cluster list containing ZCL-defined clusters? 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 [R10] GPDPIXIT04 | GPCF3A: O GPCF17: O.33 GPD100 GPDFE: O.34 | No |
| 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 GPCF17: O.33 GPD100B: M GPD101B: M | No |
| ¹⁶⁶ GPCF17G | Does the device support transmission of the GPD Commissioning command with the Switch Information? | [R4] A.4.2.1.1 | GPCF3A: O GPD7: M GPDTX69: M GPDRX6A: M | No |
| GPCF18 | Does the device support reception of GPD Commissioning command with Application information? | [R4] A.4.2.1.1 | GPDT0: X | No |
| GPCF18A | Does the device support reception of the GPD Commissioning command with the ModelID? | [R4] A.4.2.1.1 | GPDT0: X | No |
| GPCF18B | Does the device support reception of the GPD Commissioning command with the ManufacturerID? | [R4] A.4.2.1.1 | GPDT0: X | No |
| 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 | No |
| 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 | No |
| 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 | No |
| 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 | No |
| ¹⁶⁷ GPCF18G | Does the device support reception of the GPD Commissioning command with the Switch Information? | [R4] A.4.2.1.1 | GPDT0: X | No |
| GPCF19 | Does the device support automatic progressing between the commissioning steps? | [R4] A.3.9.1 | GPDT0: O GPCF4: O | No |
| GPCF20 | Does the device support transmission of the GPD Application Description command? | [R4] A.3.9.1, A.4.2.1.6 | GPD102: M | No |
| GPCF21 | Does the device support reception of the GPD Application Description command? | [R4] A.3.9.1, [R4] A.4.2.1.6 | GPDT0: O | No |
| ¹⁶⁸ GPCF22 | Does the GPD support subsequent commissioning? | [R4] A.3.9.1 | GPDT0: O GPD7 GPDTX69 GPDTX6A: M | No |
| GPCF22A | Does the GPD supporting bidirectional commissioning with OOB key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | ¹⁶⁹ GPCF22: O.50 | No |

¹⁶⁵ O.34: Device Under Test SHALL support at least one of these options¹⁶⁶ GP multi-sensor v0.9 LB comment #976: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=976¹⁶⁷ GP multi-sensor v0.9 LB comment #976: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=976¹⁶⁸ Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1025¹⁶⁹ O.50: Device Under Test SHALL support exactly one of those options.

| Item number | Item description | Reference | Status | Support |
|------------------------|---|--------------|-----------------------------|---------|
| GPCF22B | Does the GPD supporting bidirectional commissioning with OOB key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPCF22: O.50 | No |
| GPCF22C | Does the GPD supporting bidirectional commissioning with shared key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | ¹⁷⁰ GPCF22: O.51 | No |
| GPCF22D | Does the GPD supporting bidirectional commissioning with shared key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPCF22: O.51 | No |
| GPCF22E | Does the GPD supporting unidirectional commissioning implement the subsequent commissioning as full unidirectional procedure? | [R4] A.3.9.1 | ¹⁷¹ GPCF22: O.52 | No |
| GPCF22F | Does the GPD supporting unidirectional commissioning implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPCF22: O.52 | No |
| ¹⁷² GPCF23 | Does the device support subsequent commissioning? | [R4] A.3.9.1 | GPDT0: X | No |
| GPCF23A | Does the device supporting bidirectional commissioning with OOB key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | GPDT0: X | No |
| GPCF23B | Does the device supporting bidirectional commissioning with OOB key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPDT0: X | No |
| GPCF23C | Does the device supporting bidirectional commissioning with shared key implement the subsequent commissioning as full bidirectional procedure? | [R4] A.3.9.1 | GPDT0: X | No |
| GPCF23D | Does the device supporting bidirectional commissioning with shared key implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPDT0: X | No |
| GPCF23E | Does the device supporting unidirectional commissioning implement the subsequent commissioning as full unidirectional procedure? | [R4] A.3.9.1 | GPDT0: X | No |
| GPCF23F | Does the device supporting unidirectional commissioning implement the subsequent commissioning as simplified unidirectional procedure? | [R4] A.3.9.1 | GPDT0: X | No |
| ¹⁷³ GPCF24A | Does the device support handling of unprotected GPDP with GPD CommandIDs from the range 0xE4 – 0xEF in commissioning mode (forwarding using GP Commissioning Notification, responding with GPDP buffered in <i>gpTxQueue</i>)? | [R4] A.3.9.1 | GPDT0: X | No |
| ¹⁷⁴ GPCF24B | Does the device support handling of unprotected GPDP with GPD CommandIDs from the manufacturer-specific range 0xB0 – 0xBF in commissioning mode (forwarding using GP Commissioning Notification, responding with GPDP buffered in <i>gpTxQueue</i>)? | [R4] A.3.9.1 | GPDT0: X | No |
| ¹⁷⁵ GPCF24C | Does the device support sending of unprotected GPDP with GPD CommandIDs from the range 0xF7 – 0xFF and <i>Direction</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b1, after receiving it in a GP Response command in commissioning mode? | [R4] A.3.9.1 | GPDT0: X | No |

¹⁷⁰ O.51: Device Under Test SHALL support exactly one of those options.

¹⁷¹ O.52: Device Under Test SHALL support exactly one of those options.

¹⁷² Dec 2016 SVE comment: https://workspace.zigbee.org/kws/groups/PRO_GP/comments/view_comment?comment_id=1025

¹⁷³ CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set: https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

¹⁷⁴ CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set: https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

¹⁷⁵ CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set: https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

| Item number | Item description | Reference | Status | Support |
|------------------------|---|----------------|----------|---------|
| ¹⁷⁶ GPCF24D | Does the device support sending of unprotected GPDP with GPD CommandIDs from the range 0xB0 – 0xBF and <i>Direction</i> sub-field of the <i>Extended NWK Frame Control</i> field set to 0b1, after receiving it in a GP Response command in commissioning mode? | [R4] A.3.9.1 | GPDT0: X | No |
| GPCF100 | Is writing into Sink Table attribute via generic ZCL command supported during commissioning mode? | [R4] A.3.3.2.2 | GPDT0: X | No |
| GPCF101 | Is writing into Sink Table attribute via generic ZCL command supported during operational mode? | [R4] A.3.3.2.2 | GPDT0: X | No |
| GPCF102 | Is writing into Proxy Table attribute via generic ZCL command supported during commissioning mode? | [R4] A.3.3.2.2 | GPDT0: X | No |
| GPCF103 | Is writing into Proxy Table attribute via generic ZCL command supported during operational mode? | [R4] A.3.3.2.2 | GPDT0: X | No |

¹⁷⁶ CCB #2447; resolution modified in 15-02016-008 as a result of Kavi comment #1383 from letter ballot for GP Basic errata set:
https://workspace.zigbee.org/higherlogic/ws/groups/PRO_GP/comments/view_comment?comment_id=1383

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 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX11 | Is transmission of GPD Recall Scene 1 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX12 | Is transmission of GPD Recall Scene 2 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX13 | Is transmission of GPD Recall Scene 3 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX14 | Is transmission of GPD Recall Scene 4 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX15 | Is transmission of GPD Recall Scene 5 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX16 | Is transmission of GPD Recall Scene 6 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX17 | Is transmission of GPD Recall Scene 7 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O | Yes |
| GPDTX18 | Is transmission of GPD Store Scene 0 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX10: O | No |
| GPDTX19 | Is transmission of GPD Store Scene 1 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX11: O | No |
| GPDTX1a | Is transmission of GPD Store Scene 2 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX12: O | No |
| GPDTX1b | Is transmission of GPD Store Scene 3 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX13: O | No |
| GPDTX1c | Is transmission of GPD Store Scene 4 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX14: O | No |
| GPDTX1d | Is transmission of GPD Store Scene 5 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX15: O | No |
| GPDTX1e | Is transmission of GPD Store Scene 6 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX16: O | No |
| GPDTX1f | Is transmission of GPD Store Scene 7 command supported? | [R4] A.4.3 [R4] A.4.1 | GPDT1: O GPDTX17: O | No |
| GPDTX20 | Is transmission of GPD Off command supported? | [R4] A.4.3 [R4] A.4.1 | GPD2: O.29 ¹⁷⁷ | No |
| GPDTX21 | Is transmission of GPD On command supported? | [R4] A.4.3 [R4] A.4.1 | GPD2: O.29 GPD2 && GPDTX20: O | No |
| GPDTX22 | Is transmission of GPD Toggle command supported? | [R4] A.4.3 [R4] A.4.1 | GPD2: O.29 | Yes |
| GPDTX23 | Is transmission of GPD Release command supported? | [R4] A.4.3 [R4] A.4.1 | GPD2: O | No |
| GPDTX30 | Is transmission of GPD Move Up command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPD3: O.30 ¹⁷⁸ | No |
| GPDTX31 | Is transmission of GPD Move Down command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPD3: O.30 GPD3 && GPDTX30: O | No |
| GPDTX32 | Is transmission of GPD Step Up command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPD3: O.30 | No |

¹⁷⁷ O.29: Device Under Test SHALL support at least one of those options.

¹⁷⁸ O.30: Device Under Test SHALL support 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 [R4] A.4.2.4 | GPD3: O.30 GPD3 && GPDTX32: O | No |
| GPDTX34 | Is transmission of GPD Stop command supported? | [R4] A.4.3 [R4] A.4.1 | GPD3: O.30 GPD3 && (GPDTX30 GPDTX35): O | No |
| GPDTX35 | Is transmission of GPD Move Up (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPD3: O.30 | No |
| GPDTX36 | Is transmission of GPD Move Down (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPD3: O.30 GPD3&&GPDTX35: O | No |
| GPDTX37 | Is transmission of GPD Step Up (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPD3: O.30 | No |
| GPDTX38 | Is transmission of GPD Step Down (with On/Off) command supported? | [R4] A.4.3 [R4] A.4.2.4 | GPD3: O.30 GPD3&&GPDTX37: O | No |
| GPDTX40 | Is transmission of GPD Move Hue ¹⁷⁹ Stop command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 ¹⁸⁰ | No |
| GPDTX41 | Is transmission of GPD Move Hue Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 | No |
| GPDTX42 | Is transmission of GPD Move Hue Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 GPD10 && GPDTX41: O | No |
| GPDTX43 | Is transmission of GPD Step Hue Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 | No |
| GPDTX44 | Is transmission of GPD Step Hue Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 GPD10 && GPDTX43: O | No |
| GPDTX45 | Is transmission of GPD Move Saturation ¹⁸¹ Stop command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 | No |
| GPDTX46 | Is transmission of GPD Move Saturation Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 | No |
| GPDTX47 | Is transmission of GPD Move Saturation Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 GPD10 && GPDTX46: O | No |
| GPDTX48 | Is transmission of GPD Step Saturation Up command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 | No |
| GPDTX49 | Is transmission of GPD Step Saturation Down command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 GPD10 && GPDTX48: O | No |
| GPDTX4a | Is transmission of GPD Move Color command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 | No |
| GPDTX4b | Is transmission of GPD Step Color command supported? | [R4] A.4.3 [R4] A.4.2.5 | GPD10: O.31 | No |
| GPDTX50 | Is transmission of GPD Lock Door command supported? | [R4] A.4.3 [R4] A.4.1 | GPD20: O.37 ¹⁸² | No |
| GPDTX51 | Is transmission of GPD Unlock Door command supported? | [R4] A.4.3 [R4] A.4.1 | GPD20: O.37 | No |
| GPDTX60 | Is transmission of GPD Press 1 of 1 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPD0: M GPD5: M | Yes |
| GPDTX61 | Is transmission of GPD Release 1 of 1 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPD0: M GPD5: M | Yes |
| GPDTX62 | Is transmission of GPD Press 1 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPD1: M GPD6: M | Yes |
| GPDTX63 | Is transmission of GPD Release 1 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPD1: M GPD6: M | Yes |

¹⁷⁹ CCB #2198, incl. approval ballot comment #1035; Resolution added in 15-02016-004;

¹⁸⁰ O.31: Device Under Test SHALL support at least one of those commands.

¹⁸¹ CCB #2198, incl. approval ballot comment #1035; Resolution added in 15-02016-004;

¹⁸² O.37: Device Under Test SHALL support at least one of those commands.

| Item number | Item description | Reference | Status | Support |
|------------------------|---|--|---|---------|
| GPDTX64 | Is transmission of GPD Press 2 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPD1: M GPD6: M | Yes |
| GPDTX65 | Is transmission of GPD Release 2 of 2 command supported? | [R4] A.4.3 [R4] A.4.1 [R4] A.4.2.2 | GPD1: M GPD6: M | Yes |
| GPDTX66 | Is transmission of GPD Short Press 1 of 1 command supported? | [R4] Table 52 | GPD5: M | Yes |
| GPDTX67 | Is transmission of GPD Short Press 1 of 2 command supported? | [R4] Table 52 | GPD6: M | Yes |
| GPDTX68 | Is transmission of GPD Short Press 2 of 2 command supported? | [R4] Table 52 | GPD6: M | Yes |
| GPDTX69 | Is transmission of GPD 8-bit vector: press command supported? | [R4] Table 52 | GPD7: M | No |
| GPDTX6A | Is transmission of GPD 8-bit vector: release command supported? | [R4] Table 52 | GPD7: M | No |
| GPDTXA0 | Is transmission of GPD Attribute Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPD4 GPD11 GPD12 GPD30 GPD31 GPD32 GPD33: O.32 ¹⁸³ | No |
| GPDTXA1 | Is transmission of GPD Manufacturer-Specific Attribute Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPD4 GPD11 GPD12 GPD30 GPD31 GPD32 GPD33: O.32 | No |
| GPDTXA2 | Is transmission of GPD Multi-Cluster Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPD11 GPD12 GPD30 GPD31 GPD32 GPD33: O.32 | No |
| GPDTXA3 | Is transmission of GPD Manufacturer-Specific Multi-Cluster Reporting command supported? | [R4] A.4.3 [R4] A.4.2.3 | GPD11 GPD12 GPD30 GPD31 GPD32 GPD33: O.32 | No |
| ¹⁸⁴ GPDTXA6 | Is transmission of GPD ZCL Tunneling command (0xA6) supported? | [R4] A.4.3 [R4] A.4.2.3 | GPDT0: O GPD4 GPD11 GPD12 GPD30 GPD31 GPD32 GPD33: O.32 | No |
| GPDTXA6.2 | List the functionality accessible via GPD ZCL Tunneling command. List the ZCL generic commands, with the corresponding ClusterID(s) and AttributeID(s), if any. List the cluster-specific CommandIDs per ZCL-defined Cluster, if any. Manufacturer-specific functionality doesn't have to be listed. | [R10] GPDPIXIT05, GPDPIXIT06 | GPDTXA6: M | No |

¹⁸³ O.32: Device Under Test SHALL support at least one of those commands.¹⁸⁴ CCB #2533; resolution added in 15-2016-010

| Item number | Item description | Reference | Status | Support |
|------------------------|---|--------------|-----------|---------|
| ¹⁸⁵ GPDTXA8 | Is transmission of GPD Compact Attribute Reporting command supported? | [R4] A.4.2.6 | GPD102: M | No |

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

¹⁸⁵ Comment #783 from GP multi-sensor v0.7 letter ballot

12.3.2 Zigbee attribute support by GPD sensor devices

In Table 18 – 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 | No |
| AREP2 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster? | [R4] A.4.3 | GPD11: M GPD33: M | No |
| AREP3 | Does the GPD support reporting of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster? | [R4] A.4.3 | GPD12: M | No |
| AREP4 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster? | [R4] A.4.3 | GPD30: M GPD33: M | No |
| AREP5 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster? | [R4] A.4.3 | GPD31: M | No |
| AREP6 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster? | [R4] A.4.3 | GPD32: M | No |
| AREP7 | Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Relative Humidity Measurement Cluster? | [R4] A.4.3 | GPD33: M | No |
| AREPF | Does the GPD support reporting of any ZCL-defined attributes not specified above? If yes, please list all, by including ClusterID and AttributeID. | [R4] A.4.3 | GPDT0: O | No |

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 | No |
| AREAD2 | Does the GPD support reading of the 0x0055: PresentValue attribute from Binary Input Cluster? | [R4] A.4.3 | GPD4 && GPF102: M | No |
| AREAD3 | Does the GPD support reading of the 0x006F: StatusFlags attribute from Binary Input Cluster? | [R4] A.4.3 | GPD4 && GPF102: M | No |
| AREAD4 | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster? | [R4] A.4.3 | GPD11 && GPF102: M GPD33 && GPF102: M | No |
| AREAD5 | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Illuminance Measurement Cluster? | [R4] A.4.3 | GPD11 && GPF102: M GPD33 && GPF102: M | No |
| AREAD6 | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Illuminance Measurement Cluster? | [R4] A.4.3 | GPD11 && GPF102: M GPD33 && GPF102: M | No |
| AREAD7 | Does the GPD support reading of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster? | [R4] A.4.3 | GPD12 && GPF102: M | No |
| AREAD8 | Does the GPD support reading of the 0x0000: Occupancy Sensor Type attribute from Occupancy Sensing Cluster? | [R4] A.4.3 | GPD12 && GPF102: M | No |
| AREAD9 | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster? | [R4] A.4.3 | GPD30 && GPF102: M GPD33 && GPF102: M | No |
| AREAD10 | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Temperature Measurement Cluster? | [R4] A.4.3 | GPD30 && GPF102: M GPD33 && GPF102: M | No |
| AREAD11 | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Temperature Measurement Cluster? | [R4] A.4.3 | GPD30 && GPF102: M GPD33 && GPF102: M | No |
| AREAD12 | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster? | [R4] A.4.3 | GPD31 && GPF102: M | No |

| Item number | Item description | Reference | Status | Support |
|-------------|---|------------|--|---------|
| AREAD13 | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster? | [R4] A.4.3 | GPD32 && GPF102: M GPD33 && GPF102: M | No |
| AREAD14 | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Flow Measurement Cluster? | [R4] A.4.3 | GPD32 && GPF102: M GPD33 && GPF102: M | No |
| AREAD15 | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Flow Measurement Cluster? | [R4] A.4.3 | GPD32 && GPF102: M GPD33 && GPF102: M | No |
| AREAD16 | Does the GPD support reading of the 0x0000: MeasuredValue attribute from Relative Humidity Cluster? | [R4] A.4.3 | GPD33 && GPF102: M | No |
| AREAD17 | Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Relative Humidity Cluster? | [R4] A.4.3 | GPD33 && GPF102: M | No |
| AREAD18 | Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Relative Humidity Cluster? | [R4] A.4.3 | GPD33 && GPF102: M | No |
| AREADF | Does the GPD support reading of any ZCL-defined attributes not specified above? If yes, please list all, by including ClusterID and AttributeID. | [R4] A.4.3 | GPDT0: O | No |

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 | No |
| AWRITEF | Does the GPD support writing of any ZCL-defined attributes not specified above? If yes, please list all, by including ClusterID and AttributeID. | [R4] A.4.3 | GPDT0: O | No |