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| Project | ZigBee Alliance | |
| Title | **ZigBee Green Power: Draft Protocol Implementation Conformance (PICS) Proforma** | |
| Document | **105850r18** | |
| Date Submitted | **July 5, 2012** | |
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| Re: | ZigBee PICS for the ZigBee Green Power feature | |
| Abstract | As a part of formal conformance testing, manufacturers will be asked to submit a statement of protocol conformance with respect to the appropriate ZigBee devices required by the application profile under test. This document is intended to provide the form of that statement of conformance for the ZigBee Green Power feature. | |
| Purpose | This document, after review by the relevant working groups, should provide a form whereby developers can proffer a statement of protocol conformance to be tested under profile testing. | |
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# 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.

## ZigBee Alliance documents

1. ZigBee document 053474r19: ZigBee Specification 2007
2. ZigBee document 08006r03: ZigBee 2007 Layer PICS and Stack Profiles
3. ZigBee document 075123r02, ZigBee Cluster Library Specification
4. ZigBee document 095499r22: ZigBee Green Power Specification
5. ZigBee document 105521r19: ZigBee Green Power test specification
6. ZigBee document 064113r08: ZigBee Cluster Library PICS

## IEEE documents

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

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[11.3 Add new chapter 7.1.2.3 “ZGPD application functionality” 43](#_Toc328110669)

[11.3.1 Add new chapter 7.1.2.3.1 “ZGPD command support by ZGPD” 43](#_Toc328110670)

[11.3.2 Add new chapter 7.1.2.3.2 “ZigBee attribute support by ZGPD sensor devices” 45](#_Toc328110671)

# Change history

The following table shows the change history for this specification.

Table 1 – Revision change history for revision 1

|  |  |  |
| --- | --- | --- |
| Revision | Version | Description |
| 00 | 0.0 | Draft – according to 095499r09. |
| 01 | 0.0 | Corrections to the draft, according to ZGP spec 095499r10 work in progress |
| 02 | 0.0 | Corrections to the draft, according to ZGP spec 095499r10 work in progress and ZGP test spec 105521r06 work in progress;  Started linking the PICS items with the test items |
| 03 | 0.7 | Adding LPED |
| 04 | 0.7 | Redlined 0.7 version for CSG and ZARC review in .docx format |
| 05 | 0.7 | Clean 0.7 version for CSG and ZARC review in .pdf format |
| 06 | 0.9 | Implementing the comments from the CSG LB1 (ZigBee document 106106), the Frame Type comment as discussed during the joint meetings with ZARC and CSG in Dublin, the comments from the Dublin test event (ZigBee document 106132) and the ZigBee core stack r19 errata. |
| 07 | 0.9 | Implementing the comments from the CSG rLB1 (ZigBee document 11144, 11191). Splitting the PICS into ZigBee stack profile errata, GreenPower cluster PICS and ZGPD PICS. |
| 08 | 0.9 | Clean .pdf version of r07. |
| 09 | 0.9 | Incorporating the comments from the CSG rLB2 (ZigBee document 115377). The major change is making the support of ZGP feature optional for all devices. |
| 10 | 0.9 | Clean specification version after CSG v0.7/v0.9 approval. All changes accepted and all change-related footnotes removed. |
| 11 | 0.95 | Implementing clarifications from Eindhoven test event (ZigBee document docs-11-5578) and Hull test event (ZigBee document docs-11-5603).  Used as baseline for Barcelona certification event. |
| 12 | 0.95 | Implementing clarifications from Barcelona certification event (ZigBee document docs-11-5717). |
| 13 | 0.95 | Implementing clarifications from March 2012 test event (ZigBee document docs-12-0195). |
| 14 | 1.0 candidate | Implementing clarifications from June2012 certification event (ZigBee document docs-12-0275).  Documenting the features certified during the June2012 certification event. |
| 15 | 1.0 candidate | Cross-references with ZGP specification updated/completed.  Clean version (changes approved; editorial footnotes removed). |
| 16 | 1.0 candidate | List of NOT certified ZGP functionalities added. |
| 17 | 1.0 candidate | Redlined version; editorial bugs fixed. |
| 18 | 1.0 candidate | Clean version of r17 (changes approved; editorial footnotes removed). |

# 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).

## 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 ZigBee Green Power core stack feature, together with the necessary cluster-level components.

## Purpose

The supplier of a protocol implementation claiming to conform to the ZigBee 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.

# Green Power certification status

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

## Not certified ZGP functionality

Table 2 – Not certified ZGP functionality

| Item number | Item description | Reference |
| --- | --- | --- |
| GPPCSF6  GPPCCF6 | Lightweight unicast communication feature | A.3.2.8 |
| GPPCSF20  GPPCCF20 | ZGPD IEEE address feature | A.3.2.8 |
| GPCF12B GPCF13B | TC-LK encryption of the ZGPD key exchanged during commissioning | A.3.9, A.1.5.9 |
| ZGPD0  ZGPS1A | ZGP Simple Generic 1-state Switch | A.4.3 |
| ZGPD1  ZGPS1B | ZGP Simple Generic 2-state Switch | A.4.3 |
| ZGPD3  ZGPS3 | ZGP Level Control Switch | A.4.3 |
| ZGPD4  ZGPS4 | ZGP Simple Sensor | A.4.3 |
| ZGPD5  ZGPS14A | ZGP Advanced Generic 1-state Switch | A.4.3 |
| ZGPD6  ZGPS14B | ZGP Advanced Generic 2-state Switch | A.4.3 |
| ZGPD10  ZGPS5 | ZGP Color Dimmer Switch | A.4.3 |
| ZGPD11  ZGPS6 | ZGP Light Sensor | A.4.3 |
| ZGPD12  ZGPS7 | ZGP Occupancy Sensor | A.4.3 |
| ZGPD20  ZGPS8 | ZGP Door Lock Controller | A.4.3 |
| ZGPD30  ZGPS9 | ZGP Temperature Sensor | A.4.3 |
| ZGPD31  ZGPS10 | ZGP Pressure Sensor | A.4.3 |
| ZGPD32  ZGPS11 | ZGP Flow Sensor | A.4.3 |
| ZGPD33  ZGPS12, ZGPS13, ZGPS9, ZGPS6 | ZGP Indoor Environment Sensor | A.4.3 |

## Certified ZGP functionality

Table 3 – To-date certified device types

| Item number | Item description | Reference |
| --- | --- | --- |
| GPDT0 | ZigBee Green Power Device (ZGPD) functionality | A.1.6, A.1.7 |
| GPDT2f | ZGP proxy functionality of ZigBee Green Power Proxy (ZGPP) device | A.3.2.3 |
| GPDT2c | ZGP proxy functionality of ZigBee Green Power Combo (ZGPC) device | A.3.2.4 |
| GPDT3t+ | ZGP sink functionality of ZigBee Green Power Target+ (ZGPT+) device | A.3.2.2 |
| GPDT3c | ZGP sink functionality of ZigBee Green Power Combo (ZGPC) device | A.3.2.4 |
| GPDT3cm | ZGP sink functionality of ZigBee Green Power Combo minimum (ZGPCm) device | A.3.2.7 |

Table 4 – To-date certified ZGP functionality

| Item number | | Item description | Reference |
| --- | --- | --- | --- |
| GPPCSF1  GPPCCF1 | | ZGP feature | A.3.2.8 |
| GPPCSF2  GPPCCF2  GPF4A | | Direct communication (via ZGP stub) feature | A.3.2.8 |
| GPPCSF3  GPPCCF3 | | Derived groupcast communication feature | A.3.2.8 |
| GPPCSF4 GPPCCF4 | | Pre-commissioned groupcast communication feature | A.3.2.8 |
| GPPCSF5  GPPCCF5 | Unicast communication feature | A.3.2.8 |
| GPPCSF7  GPPCCF7  GPF9A GPF100 GPF102 GPF108 | Single-hop (in sink’s range) bidirectional operation feature | A.3.2.8 |
| GPPCSF8 GPPCCF8  GPF9A GPF100 GPF102 GPF108 | Multi-hop (Proxy-based) bidirectional operation feature | A.3.2.8 |
| GPPCSF9  GPPCCF9 | Proxy Table maintenance (active and passive) feature | A.3.2.8 |
| GPPCSF10  GPPCCF10  GPCF1 GPCF2 GPCF4 GPCF10 GPCF11 GPCF12A GPCF13A | Single-hop (in sink’s range) commissioning (unidirectional and bidirectional) feature | A.3.2.8 |
| GPPCSF11  GPPCCF11  GPCF1 GPCF2 GPCF4 GPCF10 GPCF11 GPCF12A GPCF13A | Multi-hop (Proxy-based) commissioning (unidirectional and bidirectional) feature | A.3.2.8 |
| GPPCSF12 GPPCCF12  GPCF1 GPCF2 GPCF4 GPCF10 GPCF11 GPCF12A GPCF13A | CT-based commissioning feature | A.3.2.8 |
| GPPCSF13  GPPCCF13  GPF9A GPF100 GPCF7 | Maintenance of ZGPD (deliver channel/key during operation) feature | A.3.2.8 |
| GPPCSF14  GPPCCF14  GPF8 | zgpdSecurityLevel = 0b00 feature | A.3.2.8 |
| GPPCSF15  GPPCCF15  GPF7 | zgpdSecurityLevel = 0b01 feature | A.3.2.8 |
| GPPCSF16  GPPCCF16  GPF6 | zgpdSecurityLevel = 0b10 feature | A.3.2.8 |
| GPPCSF17 GPPCCF17  GPF5 | zgpdSecurityLevel = 0b11 feature | A.3.2.8 |
| GPPCSF18 | Sink Table-based groupcast forwarding feature | A.3.2.8 |
| GPPCSF19 | Translation Table feature | A.3.2.8 |
| ZGPD2  ZGPS2 | ZGP On/Off switch functionality | A.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.

# 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.

# Identification of the implementation

**Implementation under test (IUT) identification**

IUT name:

IUT version:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**System under test (SUT) identification**

SUT name: TI ZigBee Green Power Combo

Software Version: Z-Stack-2.5.x

Hardware Version:

TI CC2530EM V1.3, TI SmartRF05 EB V1.8.1

Operating system (optional):

N/A

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

Z-Stack-2.5

**Product supplier**

Name: Texas Instruments Inc.

Address: 9276 Scranton Road, Suite 450

San Diego, CA 92121 USA

Telephone number: 1-858-638-4265

Facsimile number: 1-858-638-4202

Email address: nimrod@ti.com

Additional information: N/A

**Client**

Name: N/A

Address: N/A

Telephone number: N/A

Facsimile number: N/A

Email address: N/A

Additional information: N/A

**PICS contact person**

Name: Nimrod Ilan

Address: 9276 Scranton Road, Suite 450

San Diego, CA 92121 USA

Telephone number:

1-858-638-4265

Facsimile number:

1-858-638-4202

Email address: nimrod@ti.com

Additional information: N/A

**PICS/System conformance statement**

# Identification of the protocol

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

# Global statement of conformance

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

ZigBee Green Power – 095499r22ZB





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 conforance is complete.

# ZigBee stack profile [R2] errata: ZGP stub and ZGPPm

## Add new chapter 8.7 “ZigBee Green Power PICS” to the 08006r03 spec

## Add new chapter 8.7.1 “ZigBee Green Power roles”

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item  number | Item  description | Reference | ZigBee  Status | Feature set  Support | | Additional  Constraints | Platform  Support |
| GPDT0 | Does the product support ZGPD functionality? | A.1.6, A.1.7 |  | **ZigBee** | FDT1: X FDT2: X FDT3: X |  | N/A |
| **ZigBee-PRO** | FDT1: X FDT2: X FDT3: X |  | N/A |
| GPDT1 | Does the product support the functionality of ZGP infrastructure device? | A.3.2 |  | **ZigBee** | FDT1: O FDT2: O FDT3: O |  | N/A |
| **ZigBee-PRO** | FDT1: O FDT2: O FDT3: O |  | Y |
| GPDT2 | Does the product support ZGP proxy functionality? | A.3.2.8 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT1: O.1[[1]](#footnote-1) FDT2&GPDT1: O.1 FDT3&GPDT1: O.1 |  | Y |
| GPDT2m | Is the product programmed as a ZGPPm? | A.3.2.6 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT2: O.2 FDT2&GPDT2: O.2 FDT3&GPDT2: O.2[[2]](#footnote-2) |  | N |
| GPDT2f | Is the product programmed as a ZGPP? | A.3.2.3 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1: O.2 FDT2: O.2 FDT3&GPDT2: O.2 |  | N |
| GPDT2c | Is the product programmed as a ZGPC? | A.3.2.4 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1: O.2 FDT2: O.2 FDT3&GPDT2: O.2 |  | Y |
| GPDT3 | Does the product support ZGPS functionality? | A.3.2.8 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT &GPDT1: O.1 FDT2&GPDT1: O.1 FDT3&GPDT1: O.1 |  | Y |
| GPDT3t | Is the product programmed as a ZGPT? | A.3.2.1 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT3: O.3[[3]](#footnote-3) FDT2&GPDT3: O.3 FDT3&GPDT3: O.3 |  | N |
| GPDT3t+ | Is the product programmed as a ZGPT+? | A.3.2.2 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT3: O.3 FDT2&GPDT3: O.3 FDT3&GPDT3: O.3 |  | N |
| GPDT3c | Is the product programmed as a ZGPC? | A.3.2.4 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT3: O.3 FDT2&GPDT3: O.3 FDT3&GPDT3: O.3 |  | Y |
| GPDT3cm | Is the product programmed as a ZGPCm? | A.3.2.7 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT3: O.3 FDT2&GPDT3: O.3 FDT3&GPDT3: O.3 |  | N |
| GPDT4 | Does the product support ZGP commissioning tool functionality? | A.3.2.5 |  | **ZigBee** | O |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT1: O.1 FDT2&GPDT1: O.1 FDT3&GPDT1: O.1 |  | N |
| GPDT4ct | Is the product programmed as a ZGP Commissioning Tool? | A.3.2.5 |  | **ZigBee** | O |  | N/A |
| **ZigBee-PRO** | FDT1&GPDT4: O FDT2&GPDT4: O FDT3&GPDT4: O |  | N |

## ****Add new chapter**** 8.7.2 ****“****ZigBee Green Power stub capabilities of ZGP infrastructure device****s”****

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

All PICS items applicable for all the generic ZGP device types, use the generic item label: GPDT1 if applicable to all devices, or GPDT2, GPDT3, and GPDT4, if applicable in general to ZGPP, ZGPS or ZGPCT functionality, respectively.

The sub-type specific item labels (GPDT2f, GPDT2m, GPDT2c, GPDT3t, GPDT3t+, GPDT3c, GPDT3cm) are used for sub-type specific requirements.

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item  number | Item  description | Reference | ZigBee  Status | Feature set  Support | | Additional  Constraints | Platform  Support |
| GPF1 | Does the device implement cZGP stub? | A.1 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M |  | Y |
| GPF2 | Does the device implement dZGP stub? | A.1 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M |  | Y |
| GPF3 | Does the device support the general ZigBee Green Power frame format? | A.1.4 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M |  | Y |
| GPF4A | Does the device support receiving GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b000? | A.1.4 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M |  | Y |
| GPF4B | Does the device support receiving GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b010? |  |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2: O GPDT3: O GPDT4: M |  | N |
| GPF5 | Does the device’s dZGP stub support GPDF SecurityLevel=0b11? | A.1.5.4; A.3.7.2 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2m: O GPDT2f: M GPDT2c: M GPDT3t: X GPDT3t+: O.4[[4]](#footnote-4) GPDT3c: M GPDT3cm: O.4 GPDT4: M |  | Y |
| GPF6 | Does the device’s dZGP stub support GPDF SecurityLevel=0b10? | A.1.5.4; A.3.7.2 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2: M GPDT3t: X GPDT3t+: O.4 GPDT3c: M GPDT3cm: O.4 GPDT4: M |  | Y |
| GPF7 | Does the device’s dZGP stub support GPDF SecurityLevel=0b01? | A.1.5.4; A.3.7.2 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2m: O GPDT2f: M GPDT2c: M GPDT3t: X GPDT3t+: O.4 GPDT3c: M GPDT3cm: O.4 GPDT4: M |  | Y |
| GPF8 | Does the device’s dZGP stub support GPDF SecurityLevel=0b00? | A.1.5.4; A.3.7.2 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2m: M GPDT2f: M GPDT2c: M GPDT3t: X GPDT3t+: O.4 GPDT3c: M MGPDT3cm: O.4 GPDT4: M |  | Y |
| GPF9A | Does the device support transmitting GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b000? | A.1 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2m: O GPDT2f: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M |  | Y |
| GPF9B | Does the device support transmitting GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b010? |  |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2: O GPDT3: O GPDT4: M |  | N |
| GPSF1 | Does the device support zgpTxQueue? | A.1 |  | **ZigBee** | GPDT4: M |  | N/A |
| **ZigBee-PRO** | GPDT2m: O GPDT2f: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M |  | Y |

## ****Add new chapter**** 8.7.3 ****“**** ZigBee Green Power: ****Support of**** minimal proxy functionality****”****

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

All PICS items applicable for all the generic ZGP device types, use the generic item label: GPDT1 if applicable to all devices, or GPDT2, GPDT3, and GPDT4, if applicable in general to ZGPP, ZGPS or ZGPCT functionality, respectively.

The sub-type specific item labels (GPDT2f, GPDT2m, GPDT2c, GPDT3t, GPDT3t+, GPDT3c, GPDT3cm) are used for sub-type specific requirements.

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item  number | Item  description | Reference | ZigBee  Status | Feature set  Support | | Additional  Constraints | Platform  Support |
| GPPC0 | Does the device support minimum ZGP proxy functionality? | A.3.2.6 |  | **ZigBee** | X |  | N/A |
| **ZigBee-PRO** | FDT1: O FDT2: O FDT3: O |  | Y |
| GPPC1 | Is the GreenPower cluster supported? | A.3 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: M |  | Y |
| GPPC2 | Does the device support EPP? | A.3.1 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: M |  | Y |
| GPPC3 | Does the device support EPP duplicate filtering? | A.3.6.1 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: M |  | Y |
| GPPCC1 | Is the GreenPower cluster supported as a client? | A.3.4 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: O.5[[5]](#footnote-5) GPPC0&GPDT2m: M |  | Y |
| GPPCC2 | Is the zgppMaxProxyTableEntries attribute supported? | A.3.4.2.1 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCC1: M |  | Y |
| GPPCC3A | Is the Proxy Table attribute supported? | A.3.4.2.2 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCC1: M |  | Y |
| GPPCC3B | Is the minimum number of 10 entries in the Proxy Table attribute supported? | A.3.4.2.2 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCC1: M |  | Y |
| GPPCC8 | Is the zgppFeatures attribute supported? | A.3.4.2.7 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCC1: M |  | Y |
| GPPCC9 | Is the zgppActiveFeatures attribute supported? | A.3.4.2.8 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCC1: M |  | Y |
| GPPCS1 | Is the GreenPower cluster supported as a server? | A.3.3 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: O.5 GPPC0&GPDT3cm: M |  | Y |
| GPPCS2 | Is the zgppMaxSinkTableEntries attribute supported? | A.3.3.2.1 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCS1: M |  | Y |
| GPPCS3A | Is the Sink Table attribute supported? | A.3.3.2.2 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCS1: M |  | Y |
| GPPCS3B | Is the minimum number of 5 entries in the Sink Table attribute supported? | A.3.3.2.2 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCS1: M |  | Y |
| GPPCS8 | Is the zgpsFeatures attribute supported? | A.3.3.2.7 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCS1: M |  | Y |
| GPPCS9 | Is the zgpsActiveFeatures attribute supported? | A.3.3.2.8 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCS1: M |  | Y |
| GPPC101 | Is the zgpSharedSecurityKeyType attribute supported? | A.3.3.3.1 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: M |  | Y |
| GPPC102 | Is the zgpSharedSecurityKey attribute supported? | A.3.3.3.2 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: M |  | Y |
| GPPC103 | Is the zgpLinkKey attribute supported? | A.3.3.3.3 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPC0: M |  | Y |
| GPPCC102 | Is transmission of the ZGP Notification command in derived groupcast supported? | A.3.3.4.1 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPDT2m: M  GPDT3cm: O |  | Y |
| GPPCC103 | Is transmission of the ZGP Notification command in commissioned groupcast supported? | A.3.3.4.1 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPDT2m: M  GPDT3cm: M |  | Y |
| GPPCC110 | Is reception of the ZGP Pairing command supported? | A.3.3.5.2 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCC1: M |  | Y |
| GPPCS110 | Is reception of the ZGP Pairing Configuration command supported? | A.3.3.4.7 |  | **ZigBee** | GPDT2m: X  GPDT3cm: X |  | N/A |
| **ZigBee-PRO** | GPPCS1: M |  | Y |

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

### After AZD18, add

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AZD19 | Does the device support conflict checking with its own short address, on reception of Device\_annce with IEEE address 0xffffffffffffffff? | A.2 | M | Y |

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

### after NDF4, add

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NDF5 | Does the device support reception of ZigBee NWK frames with non-incremental sequence number in the NWK header Sequence Number field? | **ZigBee** | GPDT4: M | N/A |
| **ZigBee-PRO** | M | Y |
| NDF6 | Does the device support transmission of ZigBee NWK frames with AliasSrcAddr and AliasSeqNumb, as supplied by next higher layer? | **ZigBee** | GPDT4: O | N/A |
| **ZigBee-PRO** | GPDT2: M GPDT3t: X GPDT3t+: X GPDT3c: X GPDT3cm: M GPDT4: M | Y |

# ZCL PICS [R6] errata: Add new chapter 7.1.1 GreenPower cluster

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

## Add new chapter 7.1.1.1 “GreenPower Device Types”

Table 5 – ZGP device types

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPDT0 | Does the product support ZGPD functionality? | A.1.6, A.1.7 | O.6[[6]](#footnote-6) | N |
| GPDT1 | Does the product support the functionality of ZGP infrastructure device? | A.3.2 | O.6 | Y |
| GPDT2 | Does the product support ZGPP functionality? | A.3.2.3 | GPDT1: O.7[[7]](#footnote-7) | Y |
| GPDT2f | Is the product programmed as a ZGPP? | A.3.2.3 | GPDT2: O.8[[8]](#footnote-8) | N |
| GPDT2m | Is the product programmed as a ZGPPm? | A.3.2.6 | GPDT2: O.8 | N |
| GPDT2c[[9]](#footnote-9) | Is the product programmed as a ZGPC? | A.3.2.4 | GPDT2: O.8 | Y |
| GPDT3 | Does the product support ZGPS functionality? | A.3.2 | GPDT1: O.7 | Y |
| GPDT3t | Is the product programmed as a ZGPT? | A.3.2.1 | GPDT3: O.10[[10]](#footnote-10) | N |
| GPDT3t+ | Is the product programmed as a ZGPT+? | A.3.2.2 | GPDT3: O.10 | N |
| GPDT3c | Is the product programmed as a ZGPC? | A.3.2.4 | GPDT3: O.10 | Y |
| GPDT3cm | Is the product programmed as a ZGPCm? | A.3.2.7 | GPDT3: O.10 | N |
| GPDT4 | Does the product support ZGP commissioning tool functionality | A.3.2.5 | GPDT1: O.7 | N |
| GPDT4ct | Is the product programmed as a ZGP Commissioning Tool? | A.3.2.5 | GPDT1: O | N |

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

The sub-type specific item labels (GPDT2f, GPDT2m, GPDT2c, GPDT3t, GPDT3t+, GPDT3c, GPDT3cm) are used for sub-type specific requirements.

## Add new chapter 7.1.1.2 “GreenPower cluster compliance”

## Add new chapter 7.1.1.2.1 “Features of GreenPower cluster”

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

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

Table 6 – GreenPower cluster feature support

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPPCSF1 | Is ZGP feature supported as a server? (ZGP feature sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3: M GPDT4: M | Y |
| GPPCSF2 | Is Direct communication (via ZGP stub) supported as a server? (Direct communication sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M | Y |
| GPPCSF3 | Is Derived groupcast communication supported as a server? (Derived groupcast communication sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: O.11[[11]](#footnote-11) GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: M GPDT4: O | Y |
| GPPCSF4 | Is Pre-commissioned groupcast communication supported as a server? (Pre-commissioned groupcast communication sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: O.11 GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: M (GPDT3 & GPPCSF3: M) GPDT4: O | Y |
| GPPCSF5 | Is Unicast communication supported as a server? (Unicast communication sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: O.11 GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: X GPDT4: O | Y |
| GPPCSF6 | Is Lightweight unicast communication supported as a server? (Lightweight unicast communication sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: O.11 GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: X GPDT4: O | N |
| GPPCSF7 | Is Single-hop (in sink’s range) bidirectional operation supported as a server? (Single-hop bidirectional operation sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: X GPDT3t+: O GPDT3c: O GPDT3cm: O GPDT4: O | Y |
| GPPCSF8 | Is Multi-hop (Proxy-based) bidirectional operation supported as a server? (Multi-hop bidirectional operation sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: O  GPDT3t+: O GPDT3c: O GPDT3cm: O GPDT4: O | Y |
| GPPCSF9 | Is Proxy Table maintenance (active and passive) supported as a server? (Proxy Table maintenance sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: M GPDT3t+: M GPDT3c: M GPDT3cm: O GPDT4: O | Y |
| GPPCSF10 | Is Single-hop (in sink’s range) commissioning (unidirectional and bidirectional) supported as a server? (Single-hop commissioning sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: N/A GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M | Y |
| GPPCSF11 | Is Multi-hop (Proxy-based) commissioning (unidirectional and bidirectional) supported as a server? (Multi-hop commissioning sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: M GPDT3t+: O GPDT3c: O GPDT3cm: O GPDT4: O | Y |
| GPPCSF12 | Is CT-based commissioning supported as a server? (CT-based commissioning sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3t: O GPDT3t+: O GPDT3c: O GPDT3cm: M GPDT4: M | Y |
| GPPCSF13 | Is Maintenance of ZGPD (deliver channel/key during operation) supported as a server? (Maintenance of ZGPD sub-field of the zgpsFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3: O GPDT4: O | Y |
| GPPCSF14 | Is zgpdSecurityLevel = 0b00 supported as a server? (zgpdSecurityLevel = 0b00 sub-field of the zgpsFeatures attribute set?) |  | GPDT2: N/A GPDT3: O.12[[12]](#footnote-12) GPDT4: O | Y |
| GPPCSF15 | Is zgpdSecurityLevel = 0b01 supported as a server? (zgpdSecurityLevel = 0b01 sub-field of the zgpsFeatures attribute set?) |  | GPDT2: N/A GPDT3: O.12 GPDT4: O | Y |
| GPPCSF16 | Is zgpdSecurityLevel = 0b10 supported as a server? (zgpdSecurityLevel = 0b10 sub-field of the zgpsFeatures attribute set?) |  | GPDT2: N/A GPDT3: O.12 GPDT4: O | Y |
| GPPCSF17 | Is zgpdSecurityLevel = 0b11 supported as a server? (zgpdSecurityLevel = 0b11 sub-field of the zgpsFeatures attribute set?) |  | GPDT2: N/A GPDT3: O.12 GPDT4: O | Y |
| GPPCSF18 | Is SinkTable-based groupcast forwarding supported as a server? (SinkTable-based groupcast forwarding sub-field of the zgpsFeatures attribute set?) |  | GPDT2: N/A GPDT3t: O GPDT3t+: O GPDT3c: O GPDT3cm: M GPDT4: O | N |
| GPPCSF19 | Is Translation Table feature supported as a server? (Translation Table sub-field of the zgpsFeatures attribute set?) |  | GPDT2: N/A GPDT3: O GPDT4: O | Y |
| GPPCSF20 | Is ZGPD IEEE address feature supported as a server? (ZGPD IEEE address sub-field of the zgpsFeatures attribute set?) |  | GPDT2: N/A GPDT3: O GPDT4: M | N |
| GPPCCF1 | Is ZGP feature supported as a client? (ZGP feature sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF2 | Is Direct communication (via ZGP stub) supported as a client? (Direct communication sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF3 | Is Derived groupcast communication supported as a client? (Derived groupcast communication sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2: M GPDT3t: N/A GPDT3t+: N/A GPDT3c: N/A GPDT3cm: M GPDT4: O | Y |
| GPPCCF4 | Is Pre-commissioned groupcast communication supported as a client? (Pre-commissioned groupcast communication sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2: M GPDT3t: N/A GPDT3t+: N/A GPDT3c: N/A GPDT3cm: M GPDT4: O | Y |
| GPPCCF5 | Is Unicast communication supported as a client? (Unicast communication sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2c: M GPDT2f: M GPDT2m: O GPDT3: N/A GPDT4: O | Y |
| GPPCCF6 | Is Lightweight unicast communication supported as a client? (Lightweight unicast communication sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2: O GPDT3: N/A GPDT4: O | N |
| GPPCCF7 | Is Single-hop (in sink’s range) bidirectional operation supported as a client? (Single-hop bidirectional operation sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3: N/A GPDT4: O | N |
| GPPCCF8 | Is Multi-hop (Proxy-based) bidirectional operation supported as a client? (Multi-hop bidirectional operation sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2c: O GPDT2f: O GPDT2m: O GPDT3: N/A GPDT4: O | Y |
| GPPCCF9 | Is Proxy Table maintenance (active and passive) supported as a client? (Proxy Table maintenance sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2c: M GPDT2f: M GPDT2m: O GPDT3: N/A GPDT4: O | Y |
| GPPCCF10 | Is Single-hop (in sink’s range) commissioning (unidirectional and bidirectional) supported as a client? (Single-hop commissioning sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2: N/A GPDT3: N/A GPDT4: O | N |
| GPPCCF11 | Is Multi-hop (Proxy-based) commissioning (unidirectional and bidirectional) supported as a client? (Multi-hop commissioning sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2f: M GPDT2m: O GPDT2c: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF12 | Is CT-based commissioning supported as a client? (CT-based commissioning sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2c: M GPDT2f: M GPDT2m: O GPDT3: N/A GPDT4: O | Y |
| GPPCCF13 | Is Maintenance of ZGPD (deliver channel/key during operation) supported as a client? (Maintenance of ZGPD sub-field of the zgppFeatures attribute set?) | A.3.2.8 | GPDT2f: M GPDT2m: O GPDT2c: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF14 | Is zgpdSecurityLevel = 0b00 supported as a client? (zgpdSecurityLevel = 0b00 sub-field of the zgppFeatures attribute set?) |  | GPDT2f: M GPDT2m: M GPDT2c: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF15 | Is zgpdSecurityLevel = 0b01 supported as a client? (zgpdSecurityLevel = 0b01 sub-field of the zgppFeatures attribute set?) |  | GPDT2f: M GPDT2m: O GPDT2c: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF16 | Is zgpdSecurityLevel = 0b10 supported as a client? (zgpdSecurityLevel = 0b10 sub-field of the zgppFeatures attribute set?) |  | GPDT2f: M GPDT2m: M GPDT2c: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF17 | Is zgpdSecurityLevel = 0b11 supported as a client? (zgpdSecurityLevel = 0b11 sub-field of the zgppFeatures attribute set?) |  | GPDT2f: M GPDT2m: O GPDT2c: M GPDT3: N/A GPDT4: O | Y |
| GPPCCF18 | Is SinkTable-based groupcast forwarding supported as a client? (SinkTable-based groupcast forwarding sub-field of the zgppFeatures attribute set?) |  | GPDT2: N/A GPDT3: N/A GPDT4: N/A | N |
| GPPCCF19 | Is Translation Table feature supported as a client? (Translation Table sub-field of the zgppFeatures attribute set?) |  | GPDT2: N/A GPDT3: N/A GPDT4: N/A | N |
| GPPCCF20 | Is ZGPD IEEE address feature supported as a client? (ZGPD IEEE address sub-field of the zgppFeatures attribute set?) |  | GPDT2: O GPDT3: N/A GPDT4: N/A | N |

### Add new chapter 7.1.1.2.2 “GreenPower cluster: items common to client and server”

Table 7 – GreenPower cluster items common to client and server

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPPC1 | Is the GreenPower cluster supported? | A.3 | GPDT1: M | Y |
| GPPC2 | Does the device support EPP? | A.3.1 | GPDT1: M | Y |
| GPPC3 | Does the device support EPP duplicate filtering? | A.3.6.1.2 | GPDT1: M | Y |
| GPPC3r | Does the device support random MAC sequence number for ZGPD commands’ duplicate filtering? | A.3.6.1.2 | GPDT1&& GPF8: M | Y |
| GPPC3i | Does the device support incremental MAC sequence number for ZGPD commands’ duplicate filtering? | A.3.6.1.2 | GPDT1&& GPF8: M | Y |
| GPPC3s | Does the device support ZGPD security frame counter for ZGPD commands’ duplicate filtering? | A.3.6.1.2 | GPDT1&& (GPF5||GPF6||GPF7): M | Y |
| GPPC4 | Does the device support transmission of Device\_annce for the alias? | A.3.6.3.3, A.3.6.3.4 | GPDT1: M | Y |
| GPPC5 | Does the device support conflict checking for the alias on reception of Device\_annce? | A.3.6.3.3, A.3.6.3.4 | GPDT1: M | Y |
| GPPC101 | Is the *zgpSharedSecurityKeyType* attribute supported? | A.3.3.3.1 | GPDT1&& (GPF5||GPF6||GPF7): M | Y |
| GPPC102 | Is the *zgpSharedSecurityKey* attribute supported? | A.3.3.3.2 | GPDT1&& (GPF5||GPF6||GPF7): M | Y |
| GPPC103 | Is the *zgpLinkKey* attribute supported? | A.3.3.3.3 | GPDT1&& (GPF5||GPF6||GPF7): M | Y |

### Add new chapter 7.1.1.2.3 “Server side”

Table 8 – GreenPower cluster server capabilities

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPPCS1 | Is the GreenPower cluster supported as a server? | A.3.3 | GPDT2: O  GPDT3: M GPDT4: M  GPPCSF1: M | Y |
| GPPCS2 | Is the zgpsMaxSinkTableEntries attribute supported? | A.3.3.2.1 | GPDT2: X  GPDT3: M GPDT4: O | Y |
| GPPCS3A | Is the Sink Table attribute supported? | A.3.3.2.2 | GPDT2: X  GPDT3: M GPDT4: O | Y |
| GPPCS3B | Is the required minimum number of entries in the Sink Table attribute supported?[[13]](#footnote-13) | A.3.3.2.2 | GPDT3: 5 | Y |
| GPPCS4 | Is the zgpsCommunication mode attribute supported? | A.3.3.2.3 | GPDT2: X  GPDT3: M GPDT4: O | Y |
| GPPCS5 | Is the zgpsCommissioningExitMode attribute supported? | A.3.3.2.4 | GPDT2: X  GPDT3: M GPDT4: O | Y |
| GPPCS6 | Is the zgpsCommissioningWindow attribute supported? | A.3.3.2.5 | GPDT2: X  GPDT3: O GPDT4: O | Y |
| GPPCS7 | Is the zgpsSecurityLevel attribute supported? | A.3.3.2.6 | GPDT2: X  GPDT3: M GPDT4: O | Y |
| GPPCS8 | Is the *zgpsFeatures* attribute supported? | A.3.3.2.7 | GPDT2: X  GPDT3: M GPDT4: O | Y |
| GPPCS9 | Is the *zgpsActiveFeatures* attribute supported? | A.3.3.2.8 | GPDT2: X  GPDT3: M GPDT4: O | Y |
| GPPCS99 | Is Translation Table supported? | A.3.5.2.2 | GPDT2: X  GPDT3: O GPDT4: O  GPPCSF19: M | Y |
| GPPCS100 | Is reception of the ZGP Notification command supported? | A.3.2.10  A.3.3.3 | GPDT2c: M GPDT2f: M GPDT2m: O  GPDT3: M GPDT4: O | Y |
| GPPCS101 | Is reception of the ZGP Notification command in unicast supported? | A.3.2.10  A.3.3.4.1 | GPDT2: X  GPDT3t||GPDT3t+||GPDT3c: O.14[[14]](#footnote-14) GPDT3cm: X GPPCSF5||GPPCSF6: M GPDT4: O | Y |
| GPPCS102 | Is reception of the ZGP Notification command in derived groupcast supported? | A.3.2.10  A.3.3.4.1 | GPDT2& (GPPCCF8||GPPCCF9||GPPCCF13): M GPDT3cm: O  GPDT3t||GPDT3t+||GPDT3c: O.14 GPDT4: O | Y |
| GPPCS103 | Is reception of the ZGP Notification command in commissioned groupcast supported? | A.3.2.10  A.3.3.4.1 | GPDT2& (GPPCCF8||GPPCCF9|| GPPCCF13): M GPDT3cm: M  GPDT3t||GPDT3t+||GPDT3c: O.14 GPPCS102: M GPDT4: O | Y |
| GPPCS104 | Is reception of the ZGP Notification command in broadcast supported? | A.3.2.10  A.3.3.4.1  A.5.2.1 | GPDT2:O GPPCCF9: M GPDT3: O GPPCSF9: M GPDT4: O | Y |
| GPPCS105 | Is reception of the ZGP Pairing Search command supported? | A.3.2.10  A.3.3.4.2 | GPDT2: O GPPCCF9: O GPDT3cm: O GPDT3t, GPDT3t+, GPDT3c: M GPDT4: O GPPCSF9: M | Y |
| GPPCS106 | Is reception of the ZGP Tunneling Stop command supported? | A.3.2.10  A.3.4.4.1 | GPDT2m: O  GPPCCF5: M GPDT2f: M GPDT2c: M GPDT3: X GPDT4: O | Y |
| GPPCS107 | Is reception of the ZGP Commissioning Notification command supported? | A.3.2.10  A.3.3.4.4 | GPDT2m: O (GPPCCF11: M) GPDT2f||GPDT2c: M GPDT3t: M GPDT3t+||GPDT3c||GPDT3cm: O (GPPCSF11: M)  GPDT4: O | Y |
| GPPCS108 | Is reception of the ZGP Translation Table Update command supported? | A.3.2.10  A.3.3.4.6 | GPDT2: X GPDT3: O GPDT4: O GPPCSF19: M | Y |
| GPPCS109 | Is reception of the ZGP Translation Table Request command supported? | A.3.2.10  A.3.3.4.5 | GPDT2: X GPDT3: O GPDT4: O GPPCSF19: M | Y |
| GPPCS110 | Is reception of the ZGP Pairing Configuration command supported? | A.3.2.10  A.3.3.4.7 | GPDT2: X GPDT3cm: M GPDT3t||GPDT3t+||GPDT3c: O GPDT4: O GPPCSF4 || GPPCSF12 || GPPCSF18: M | Y |
| GPPCS150 | Is transmission of the ZGP Notification Response command supported? | A.3.2.10  A.3.3.5.1 | GPDT2: X GPDT3cm: X GPDT3t||GPDT3t+||GPDT3c: O GPDT4: O GPPCSF5||GPPCSF6: M | Y |
| GPPCS151 | Is transmission of the ZGP Response command supported? | A.3.2.10  A.3.3.5.4 | GPDT2: X GPDT3: O GPDT4: O GPPCSF8|| GPPCSF11||GPPCSF 13: M | Y |
| GPPCS152 | Is transmission of the ZGP Pairing command supported? | A.3.2.10  A.3.3.5.2 | GPDT2: X  GPDT3: M GPDT4: M | Y |
| GPPCS153 | Is generation of the ZGP Pairing command with RemoveZGPD sub-field set to 0b1 supported? | A.3.2.10  A.3.3.5.2 | GPDT2: X GPDT3: O GPDT4: M | Y |
| GPPCS154 | Is transmission of the ZGP Proxy Commissioning Mode command supported? | A.3.2.10  A.3.3.5.3 | GPDT2: X  GPDT3t: M GPDT3t+||GPDT3c||GPDT3cm: O GPDT4: M GPPCSF11: M | Y |
| GPPCS155 | Is transmission of the ZGP Translation Table Response command supported? | A.3.2.10  A.3.3.5.5 | GPDT2: X GPDT3: O GPDT3&&GPPCS109:M GPDT4: O GPPCSF19: M | Y |
| GPPCS201 | Is persistent storage of Sink Table supported? | A.3.2.10  [R4] A.3.3.2.2 | GPDT2: X GPDT3: M  GPDT4: O | Y |

### Add new chapter 7.1.1.2.4 “Client side”

Table 9 – GreenPower cluster client capabilities

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPPCC1 | Is the GreenPower cluster supported as a client? | A.3.4 | GPDT2: M  GPDT3: O GPDT4: O | Y |
| GPPCC2 | Is the zgppMaxProxyTableEntries attribute supported? | A.3.4.2.1 | GPDT2: M GPDT3: X GPDT4: O | Y |
| GPPCC3A | Is the Proxy Table attribute supported? | A.3.4.2.2 | GPDT2: M GPDT3: X GPDT4: O | Y |
| GPPCC3B | Is the required minimal number of entries in the Proxy Table attribute supported?[[15]](#footnote-15) | A.3.4.2.2 | GPDT2: 10 | Y |
| GPPCC3C | Is the required minimal number of entries in the *Sink address list* per Proxy Table entry supported? | A.3.4.2.2 | GPDT2 && GPPCSF5: 2 | Y |
| GPPCC3D | Is the required minimal number of entries in the *Sink group list* per Proxy Table entry supported? | A.3.4.2.2 | GPDT2 && GPPCSF4: 2 | Y |
| GPPCC3E | Is the required minimal number of simultaneously used entries in the *Sink address list* and in the *Sink group list* per Proxy Table entry supported? | A.3.4.2.2 | GPDT2 && GPPCSF5 && GPPCSF5: 1+1 | Y |
| GPPCC4 | Is the *zgppNotificationRetryNumber* attribute supported? | A.3.4.2.3 | GPDT2f||GPDT2c: M GPDT2m: O (GPPCCF5||GPPCCF6: M) GPDT3: X GPDT4: O | Y |
| GPPCC5 | Is the *zgppNotificationRetryTimer* attribute supported? | A.3.4.2.4 | GPDT2f||GPDT2c: M GPDT2m: O (GPPCCF5||GPPCCF6: M) GPDT3: X GPDT4: O | Y |
| GPPCC6 | Is the *zgppMaxSearchCounter* attribute supported? | A.3.4.2.5 | GPDT2: O (GPPCCF9: M) GPDT3: X GPDT4: O | Y |
| GPPCC7 | Is the *zgppBlockedSrcID* attribute supported? | A.3.4.2.6 | GPDT2: O (GPPCCF9: M) GPDT3: X GPDT4: O | Y |
| GPPCC8 | Is the *zgppFeatures* attribute supported? | A.3.4.2.7 | GPDT2: M  GPDT3: X GPDT4: O | Y |
| GPPCC9 | Is the *zgppActiveFeatures* attribute supported? | A.3.4.2.8 | GPDT2: M GPDT3: X GPDT4: O | Y |
| GPPCC100 | Is transmission of the ZGP Notification command supported? | A.3.2.10  A.3.3.4.1 | GPDT2: M GPDT3cm: M  GPDT3t|GPDT3t+||GPDT3c: X  GPDT4: O | Y |
| GPPCC101 | Is transmission of the ZGP Notification command in unicast supported? | A.3.2.10  A.3.3.4.1 | GPDT2f||GPDF2c: M  GPDT2m: O GPDT3: X  GPPCCF 5||GPPCCF6: M GPDT4: O | Y |
| GPPCC102 | Is transmission of the ZGP Notification command in derived groupcast supported? | A.3.2.10  A.3.3.4.1 | GPDT2: M GPDT3cm: O  GPDT4: O | Y |
| GPPCC103 | Is transmission of the ZGP Notification command in commissioned groupcast supported? | A.3.2.10  A.3.3.4.1 | GPDT2: M GPDT3cm: M GPDT4: O | Y |
| GPPCC104 | Is transmission of the ZGP Notification command in broadcast supported? | A.3.2.10  A.3.3.4.1 | GPDT2||GPDT3cm: O GPPCCF9:M  GPDT4: O | Y |
| GPPCC105 | Is transmission of the ZGP Notification command in multiple communication modes supported? | A.3.2.10  A.3.5.2.1 | GPDT2c||GPDT2f: M GPDT2m||GPDT3cm: O GPPCCF 5||GPPCCF6: M  GPDT4: O | Y |
| GPPCC106 | Is transmission of the ZGP Pairing Search command supported? | A.3.2.10  A.3.4.2 | GPDT2||GPDT3cm: O  GPPCCF9: M GPDT3t||GPDT3t+||GPDT3c: X GPDT4: M | Y |
| GPPCC107 | Is transmission of the ZGP Tunneling Stop command supported? | A.3.2.10  A.3.4.4.1 | GPDT2c||GPDT2f: M GPDT2m: O GPPCCF5||GPPCCF6: M GPDT3: X GPDT4: O | Y |
| GPPCC108 | Is transmission of the ZGP Commissioning Notification command supported? | A.3.2.10  A.3.3.4.4 | GPDT2c||GPDT2f: M GPDT2m||GPDT3cm: O GPPCCF11: M GPDT3t||GPDT3t+||GPDT3c: X GPDT4: O | Y |
| GPPCC108 | Is transmission of the ZGP Translation Table Update command supported? | A.3.2.10  A.3.3.4.5  A.3.2.5 | GPDT2: X GPDT3: O GPDT4: M | N |
| GPPCC109 | Is transmission of the ZGP Translation Table Request command supported? | A.3.2.10  A.3.3.4.6  A.3.2.5 | GPDT2: X GPDT3: O GPDT4: M | N |
| GPPCC110 | Is transmission of the ZGP Pairing Configuration command supported? | A.3.2.10  A.3.3.4.7  A.3.2.5 | GPDT2: X GPDT3cm: M GPDT3t||GPDT3t+||GPDT3c: O GPDT4: M GPPCSF4 || GPPCSF18: M | Y |
| GPPCC150 | Is reception of the ZGP Notification Response command supported? | A.3.2.10  A.3.3.5.1 | GPDT2c||GPDT2f: M GPDT2m: O GPPCCF5||GPPCCF6: M GPDT3: X GPDT4: O | Y |
| GPPCC151 | Is reception of the ZGP Pairing command supported? | A.3.2.10  A.3.3.5.2 | GPDT2: M GPDT3: X GPDT4: M | Y |
| GPPCC152 | Is reception of the ZGP Pairing command with *RemoveZGPD* sub-field set to 0b1 supported? | A.3.2.10  A.3.3.5.2 | GPDT2: M GPDT3: X GPDT4: M | Y |
| GPPCC153 | Is reception of the ZGP Proxy Commissioning Mode command supported? | A.3.2.10  A.3.3.5.3 | GPDT2c||GPDT2f: M GPDT2m: O GPPCCF11: M GPDT3: O GPDT4: M | Y |
| GPPCC154 | Is reception of the ZGP Response command supported? | A.3.2.10  A.3.3.5.4 | GPDT2c||ZGPDT2f: M GPDT2m||GPDT3cm: O GPPCCF8||GPPCCF11||GPPCCF13:M GPDT3t||GPDT3t+||GPDT3c: X GPDT4: O | Y |
| GPPCC155 | Is reception of the ZGP Translation Table Response command supported? | A.3.2.10  A.3.3.5.5  A.3.2.5 | GPDT2: X GPDT3: O (GPDT3&&GPPCC109:M) GPDT4: M | N |
| GPPCC200 | Is persistent storage of Proxy Table supported? | A.3.4.2.2 | GPPCC3A: M | Y |
| GPPCC201 | Is handling of Proxy Table entries with status other than active and valid supported? | A.3.5.2.2 | GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M | Y |
| GPPCC202 | Is passive discovery supported? | A.3.5.2.2.3 | GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M | Y |
| GPPCC2034 | Is active discovery supported? | A.3.5.2.2.4 | GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M | Y |
| GPPCC204 | Is active re-discovery supported? | A.3.5.2.2.5 | GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M | Y |
| GPPCC205 | Is limiting the number of the transmitted GreenPower cluster messages supported? | A.3.6.3.1, A.3.6.3.3 | GPDT2: M GPDT3: O GPDT4: O | Y |
| GPPCC205A | Is distance-based zgppTunnelingDelay supported? | [R4] A.3.6.3.1  [R4] A.3.2.8,  [R4] A.3.2.9 | GPDT2c||GPDT2f: M GPDT2m||GPDT3cm: O  GPPCCF5||GPPCCF8||GPPCCF11||GPPCCF13: M GPDT3||GPDT3t+||GPDT3c: X GPDT4: O | Y |
| GPPCC205B | Is dropping the scheduled GreenPower cluster message on reception of equivalent message supported? | [R4] A.3.6.3.1  [R4] A.3.2.8,  [R4] A.3.2.9 | GPDT2c||GPDT2f: M GPDT2m||GPDT3cm: O  GPPCCF5||GPPCCF8||GPPCCF11||GPPCCF13: M GPDT3: O  GPDT4: O | Y |
| GPPCC205C | Is transmission of GreenPower cluster commands with alias supported? | [R4] A.3.6.3.3  [R4] A.3.2.8,  [R4] A.3.2.9 | GPDT2: M GPDT3cm: M  GPPCCF5||GPPCCF8||GPPCCF11||GPPCCF13: M GPDT3t||GPDT3t+||GPDT3c: O  GPDT4: O | Y |
| GPPCC206 | Is updating *TargetList* field of the *ProxyTable* attribute on reception of Device\_annce supported? | A.3.5.2.1 | GPDT2c||GPDT2f: M GPDT2m: O  GPPCC3A&&(GPPCCF5||GPPCCF6): M GPDT3: N/A  GPDT4: O | Y |

### Add new chapter 7.1.1.2.5 “Support of features”

#### Add new chapter 7.1.1.2.5.1 “Bidirectional operation”

Table 10 – Support for GreenPower bidirectional operation

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPF101 | Is transmission of ZGPD Read Attributes command supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.9[[16]](#footnote-16) GPPCSF7||GPPCSF8: O | Y |
| GPF102 | Is reception of ZGPD Read Attributes command supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7||GPPCSF8: X | N |
| GPF103 | Is transmission of ZGPD Read Attributes Response supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7||GPPCSF8: X | N |
| GPF104 | Is reception of ZGPD Read Attributes Response command supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.16 (GPPCSF7||GPPCSF8)&&GPF101: M | Y |
| GPF105 | Is transmission of ZGPD Request Attributes command supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7||GPPCSF8: X | N |
| GPF106 | Is reception of ZGPD Request Attributes command supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7||GPPCSF8: M | Y |
| GPF107 | Is transmission of ZGPD Write Attributes command supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.16 GPPCSF7||GPPCSF8: O | Y |
| GPF108 | Is reception of ZGPD Write Attributes command supported? | A.4.2.5  A.3.6.1.5 | GPPCCF8: M.16  GPPCSF7||GPPCSF8: X | N |

#### Add new chapter 7.1.1.2.5.2 “GreenPower Commissioning Support”

Table 11 – ZGP Commissioning Feature Support

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPCF1 | Does the device support pairing with Data GPDF with Auto-Commissioning bit set to 0b1? | A.3.9 | GPPCCF11: M GPDT3: O GPDT4: M | Y |
| GPCF2 | Does the device support pairing with Commissioning GPDF? | A.3.9 | GPPCCF11: M GPDT3: M GPDT4: M | Y |
| GPCF3A | Does the device support transmission of ZGPD Commissioning command? | A.4.2.1.1 | GPDT2: X  GPDT3: X | N |
| GPCF3B | Does the device support reception of ZGPD Commissioning command? | A.4.2.1.1 | GPPCCF11: M  GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF4 | Does the device support bidirectional communication in commissioning mode? | A.3.9 | GPPCCF11: M  GPPCSF10||GPPCSF11: M  GPDT4: M | Y |
| GPCF5A | Does the device support transmission of the ZGPD Channel Request command in commissioning mode? | A.3.9 | GPDT1: X | N |
| GPCF5B | Does the device support reception of the ZGPD Channel Request command in commissioning mode? | A.3.9 | GPPCCF11: M GPPCSF10||GPPCSF11: M | Y |
| GPCF6 | Does the device support transmission of the ZGPD Channel Configuration command? | A.3.9 | GPPCCF11: M GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF6A | Does the device support transmission of the ZGPD Channel Configuration command in commissioning mode? | A.3.9 | GPPCCF11: M GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF6B | Does the device support transmission of the ZGPD Channel Configuration command in operational mode? | A.3.9 | GPPCCF8||GPPCCF13: M  GPPCSF13:M  GPDT4: O | Y |
| GPCF7 | Does the device support reception of the ZGPD Channel Configuration command? | A.3.9 | GPDT1: X | N |
| GPCF8 | Does the device support transmission of the ZGPD Commissioning Reply command? | A.4.2.1.2 | GPPCCF11: M  GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF8A | Does the device support transmission of the ZGPD Commissioning Reply command in commissioning mode? | A.4.2.1.2 | GPPCCF11: M  GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF8B | Does the device support transmission of the ZGPD Commissioning Reply command in operational mode? | A.4.2.1.2 | GPPCCF8||GPPCCF13: M  GPPCSF13:M GPDT4: O | N |
| GPCF9 | Does the device support reception of the ZGPD Commissioning Reply command? | A.4.2.1.2 | GPDT1: X | N |
| GPCF10 | Is ZGPD removal via ZGPD Decommissioning command supported? | A.4.2.1.3 | GPPCCF11: M  GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF11 | Does the device come with pre-configured ZGPD key? | A.3.9 | GPDT1: X | N |
| GPCF12A | Does the device support ZGPD key exchange in ZGPD Commissioning command? | A.3.9 | GPPCCF11: M  GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF12B | Does the device support exchange of encrypted ZGPD key in ZGPD Commissioning command? | A.3.9 | GPPCCF11: O  GPPCSF10||GPPCSF11: O GPDT4: O | N |
| GPCF13A | Does the device support ZGPD key exchange in ZGPD Commissioning Reply command? | A.3.9 | GPPCCF11: M  GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF13B | Does the device support exchange of encrypted ZGPD key in ZGPD Commissioning Reply command? | A.3.9 | GPPCCF11: O  GPPCSF10||GPPCSF11: O GPDT4: O | N |
| GPCF14 | Does the device support out-of-band ZGPD key configuration? | A.3.9 | GPDT2: O GPDT3: O GPDT4: O | N |
| GPCF15A | Does the device support transmission of ZGPD Success command in commissioning mode? | A.3.9 | GPDT1: X | N |
| GPCF15B | Does the device support reception of ZGPD Success command in commissioning mode? | A.3.9 | GPPCCF11: M  GPPCSF10||GPPCSF11: M GPDT4: M | Y |
| GPCF16 | Does the device support in-band configuration of PANId (via ZGPD Commissioning Reply command)? | A.3.9 | GPDT1: O | N |
| GPCF100 | Is writing into Sink Table attribute via generic ZCL command supported during commissioning mode? | A.3.3.2 | GPPCCF12: N/A GPPCSF12: X GPDT4: X | N |
| GPCF101 | Is writing into Sink Table attribute via generic ZCL command supported during operational mode? | A.3.3.2 | GPPCCF12: N/A GPPCSF12: X GPDT4: X | N |
| GPCF102 | Is writing into Proxy Table attribute via generic ZCL command supported during commissioning mode? | A.3.4.2 | GPPCCF12: X GPPCSF12: N/A GPDT4: X | N |
| GPCF103 | Is writing into Proxy Table attribute via generic ZCL command supported during operational mode? | A.3.4.2 | GPPCCF12: X GPPCSF12: N/A GPDT4: X | N |

## Add new chapter 7.1.1.3 “ZGPS application functionality”

#### Add new chapter 7.1.1.3.1 “ZGPS device description support”

In Table 12, device descriptions for the ZGPS (GPDT3, i.e. GPDT3t, GPDT3t+, GPDT3c and GPDT3cm) are given.

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

Table 12 – ZGPS device description support

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item number | Item description | Reference | Status | Support |
| ZGPS1A | Is the product programmed with support for ZGP Simple generic 1-state switch functionality? | A.4.3 | GPDT3: O.17[[17]](#footnote-17) | N |
| ZGPS1B | Is the product programmed with support for ZGP Simple generic 2-state switch functionality? | A.4.3 | GPDT3: O.17 | N |
| ZGPS2 | Is the product programmed with (ZGP-controllable) server-side On/Off cluster? | A.4.3 | GPDT3: O.17 | Y |
| ZGPS3 | Is the product programmed with (ZGP-controllable) server-side Level Control cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS4 | Is the product programmed with (ZGP-controllable) client-side Binary Input cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS5 | Is the product programmed with (ZGP-controllable) server-side Color control cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS6 | Is the product programmed with (ZGP-controllable) client-side Illuminance Measurement cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS7 | Is the product programmed with (ZGP-controllable) client-side Occupancy Sensing cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS8 | Is the product programmed with (ZGP-controllable) server-side Door Lock cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS9 | Is the product programmed with (ZGP-controllable) client-side Temperature measurement cluster? | A.4.3 | GPDT3: O. 17 | Y |
| ZGPS10 | Is the product programmed with (ZGP-controllable) client-side Pressure Measurement cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS11 | Is the product programmed with (ZGP-controllable) client-side Flow Measurement cluster? | A.4.3 | GPDT3: O. 17 | N |
| ZGPS12 | Is the product programmed with (ZGP-controllable) client-side Relative Humidity Measurement cluster? | [R4] A.4.3 | GPDT3: O. 17 | N |
| ZGPS13 | Is the product programmed with (ZGP-controllable) client-side CO2 cluster? | [R4] A.4.3 | GPDT3: O. 17 | N |
| ZGPS14A | Is the product programmed with support for ZGP Advanced generic 1-state switch functionality? | [R4] A.4.3 | GPDT3: O.17 | N |
| ZGPS14B | Is the product programmed with support for ZGP Advanced generic 2-state switch functionality? | [R4] A.4.3 | GPDT3: O.17 | N |

### Add new chapter 7.1.1.3.2 “ZGPD command support by ZGPS”

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

Table 13 – ZGPD commands support - reception

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| ZGPDRX20 | Is reception of ZGPD Off command supported? | A.4.3  A.4.1 | ZGPS2: O.20[[18]](#footnote-18) | Y |
| ZGPDRX21 | Is reception of ZGPD On command supported? | A.4.3  A.4.1 | ZGPS2 && ZGPDRX21: M | Y |
| ZGPDRX22 | Is reception of ZGPD Toggle command supported? | A.4.3  A.4.1 | ZGPS2: O.20 | Y |
| ZGPDRX23 | Is reception of ZGPD Release command supported? | A.4.3  A.4.1 | ZGPS2: M | N |
| ZGPDRX30 | Is reception of ZGPD Move up command supported? | A.4.3  A.4.2.4 | ZGPS3: O.21[[19]](#footnote-19) | N |
| ZGPDRX31 | Is reception of ZGPD Move Down command supported? | A.4.3  A.4.2.4 | ZGPS3 && ZGPDRX30: M | N |
| ZGPDRX32 | Is reception of ZGPD Step UP command supported? | A.4.3  A.4.2.4 | ZGPS3: O.21 | N |
| ZGPDRX33 | Is reception of ZGPD Step Down command supported? | A.4.3  A.4.2.4 | ZGPS3 && ZGPDRX32: M | N |
| ZGPDRX34 | Is reception of ZGPD Stop command supported? | A.4.3  A.4.1 | ZGPS3 && (ZGPDRX30 || ZGPDRX35): M | N |
| ZGPDRX35 | Is reception of ZGPD Move Up (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPS3: O.21 | N |
| ZGPDRX36 | Is reception of ZGPD Move Down (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPS3: O.21 &&ZGPDRX35 | N |
| ZGPDRX37 | Is reception of ZGPD Step Up (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPS3: O.21 | N |
| ZGPDRX38 | Is reception of ZGPD Step Down (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPS3: O.21 &&ZGPDRX37 | N |
| ZGPDRX40 | Is reception of ZGPD Move Hue command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22[[20]](#footnote-20) | N |
| ZGPDRX41 | Is reception of ZGPD Move Hue Up command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22 | N |
| ZGPDRX42 | Is reception of ZGPD Move Hue Down command supported? | A.4.3  A.4.2.5 | ZGPS5 && ZGPDRX41 | N |
| ZGPDRX43 | Is reception of ZGPD Step Hue Up command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22 | N |
| ZGPDRX44 | Is reception of ZGPD Step Hue Down command supported? | A.4.3  A.4.2.5 | ZGPS5 && ZGPDRX43 | N |
| ZGPDRX45 | Is reception of ZGPD Move Saturation command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22 | N |
| ZGPDRX46 | Is reception of ZGPD Move Saturation Up command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22 | N |
| ZGPDRX47 | Is reception of ZGPD Move Saturation Down command supported? | A.4.3  A.4.2.5 | ZGPS5 && ZGPDRX46 | N |
| ZGPDRX48 | Is reception of ZGPD Step Saturation Up command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22 | N |
| ZGPDRX49 | Is reception of ZGPD Step Saturation Down command supported? | A.4.3  A.4.2.5 | ZGPS5 && ZGPDRX48 | N |
| ZGPDRX4a | Is reception of ZGPD Move Color command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22 | N |
| ZGPDRX4b | Is reception of ZGPD Step Color command supported? | A.4.3  A.4.2.5 | ZGPS5: O.22 | N |
| ZGPDRX50 | Is reception of ZGPD Lock Door command supported? | A.4.3  A.4.1 | ZGPS8: M | N |
| ZGPDRX51 | Is reception of ZGPD Unlock Door command supported? | A.4.3  A.4.1 | ZGPS8: M | N |
| ZGPDRX60 | Is reception of ZGPD Press 1 of 1 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS1A: M ZGPS14A: M | N |
| ZGPDRX61 | Is reception of ZGPD Release 1 of 1 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS1A: M ZGPS14A: M | N |
| ZGPDRX62 | Is reception of ZGPD Press 1 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS1B: M ZGPS14B: M | N |
| ZGPDRX63 | Is reception of ZGPD Release 1 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS1B: M ZGPS14B: M | N |
| ZGPDRX64 | Is reception of ZGPD Press 2 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS1B: M ZGPS14B: M | N |
| ZGPDRX65 | Is reception of ZGPD Release 2 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS1B: M ZGPS14B: M | N |
| ZGPDRX66 | Is reception of ZGPD Short press 1 of 1 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS14A: M | N |
| ZGPDRX67 | Is reception of ZGPD Short press 1 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS14B: M | N |
| ZGPDRX68 | Is reception of ZGPD Short press 2 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPS14B: M | N |
| ZGPDRXA0 | Is reception of ZGPD Attribute reporting command supported? | A.4.3  A.4.2.3 | ZGPS4, ZGPS6,  ZGPS7,  ZGPS12,  ZGPS13,  ZGPS14,  ZGPS15 ZGPS16, ZGPS17, ZGPS18, ZGPS19, ZGPS20: M | Y |
| ZGPDRXA1 | Is reception of ZGPD Manufacturer-specific attribute reporting command supported? | A.4.3  A.4.2.3 | ZGPS4, ZGPS6,  ZGPS7,  ZGPS12,  ZGPS13  ZGPS14,  ZGPS15 ZGPS16, ZGPS17, ZGPS18, ZGPS19, ZGPS20: O | N |
| ZGPDRXA2 | Is reception of ZGPD Multi-cluster reporting command supported? | A.4.3  A.4.2.3 | ZGPS4, ZGPS6,  ZGPS7,  ZGPS12,  ZGPS13,  ZGPS14,  ZGPS15 ZGPS16, ZGPS17, ZGPS18, ZGPS19, ZGPS20: O | N |
| ZGPDRXA3 | Is reception of ZGPD manufacturer-specific multi-cluster reporting command supported? | A.4.3  A.4.2.3 | ZGPS4, ZGPS6,  ZGPS7,  ZGPS12,  ZGPS13,  ZGPS14,  ZGPS15 ZGPS16, ZGPS17, ZGPS18, ZGPS19, ZGPS20: O | N |

# Add to ZCL PICS [R6] as 7.1.2: PICS proforma tables: ZGPD

The PICS items in section 11 are only applicable to the ZGPD (GPDT0).   
They are not applicable to the other ZGP device types (i.e. GPDT1: X, GPDT2: X, GPDT3: X, GPDT4: X).

## Add new chapter 7.1.2.1 “ZGPD device description support”

In Table 14, device descriptions for the ZGPD (GPDT0) are given.

Table 14 – ZGPD device description support

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| ZGPD0 | Is the product programmed as a ZGP Simple Generic 1-state Switch? | A.4.3 | GPDT1: O.23[[21]](#footnote-21) | N/A |
| ZGPD1 | Is the product programmed as a ZGP Simple Generic 2-state Switch? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD2 | Is the product programmed as a ZGP On/Off Switch? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD3 | Is the product programmed as a ZGP Level Control Switch? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD4 | Is the product programmed as a ZGP Simple Sensor? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD5 | Is the product programmed as a ZGP Advanced Generic 1-state Switch? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD5B | What is the value of the short press time threshold? | A.4.2.2 | Implementation-specific | N/A |
| ZGPD6 | Is the product programmed as a ZGP Advanced Generic 2-state Switch? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD6B | What is the value of the short press time threshold? | A.4.2.2 | Implementation-specific | N/A |
| ZGPD10 | Is the product programmed as a ZGP Color Dimmer Switch? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD11 | Is the product programmed as a ZGP Light Sensor? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD12 | Is the product programmed as a ZGP Occupancy Sensor? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD20 | Is the product programmed as a ZGP Door Lock Controller? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD30 | Is the product programmed as a ZGP Temperature Sensor? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD31 | Is the product programmed as a ZGP Pressure Sensor? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD32 | Is the product programmed as a ZGP Flow Sensor? | A.4.3 | GPDT1: O.23 | N/A |
| ZGPD33 | Is the product programmed as a ZGP Indoor Environment Sensor? | A.4.3 | GPDT1: O.23 | N/A |

## Add new chapter 7.1.2.2 “ZGPD features”

Table 15 –ZGPD features

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPSF1 | Does the device implement cZGP stub? | A.1 | GPDT0: X | N/A |
| GPSF2 | Does the device implement dZGP stub? | A.1 | GPDT0: X | N/A |
| GPPC1 | Does the device support EPP? | A.3.1 | GPDT0: X | N/A |
| GPF4A | Does the device support transmitting GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b000? | A.1.4.1.3 | GPDT0: O.22[[22]](#footnote-22) | N/A |
| GPF4B | Does the device support transmitting GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b010? | A.1.4.1.3 | GPDT0: O.22 | N/A |
| GPF5 | Does the device support SecurityLevel=0b11? | A.1.5.4   A.3.7.2.1 | GPDT0: O.24[[23]](#footnote-23) | N/A |
| GPF6 | Does the device support SecurityLevel=0b10? | A.1.5.4  A.3.7.2.1 | GPDT0: O.24 | N/A |
| GPF7 | Does the device support SecurityLevel=0b01? | A.1.5.4  A.3.7.2.1 | GPDT0: O.24 | N/A |
| GPF8 | Does the device support SecurityLevel=0b00? | A.1.5.4  A.3.7.2.1 | GPDT0: O.24 | N/A |
| GPF9A | Does the device support receiving GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b000? | A.1.4.1.3 | GPDT0&&GPF4A: O (GPF4B: X) | N/A |
| GPF9B | Does the device support receiving GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b010? | A.1.4.1.3 | GPDT0&&GPF4B: O (GPF4A: X) | N/A |
| GPDF1 | Does the device support random MAC sequence number for ZGPD commands? | A.1.6, A.1.7 | GPDT0 && GPF8: O.25[[24]](#footnote-24) | N/A |
| GPDF2 | Does the device support incremental MAC sequence number for ZGPD commands? | A.1.6, A.1.7 | GPDT0 && GPF8: O.25 | N/A |
| GPDF3 | Is the FixedLocation flag in the Commissioning ZGPD command set? | A.1.6, A.1.7 | GPDT0: O | N/A |

### Add new chapter 7.1.2.2.1 „ZGPD Bidirectional operation”

Table 16 – Support for GreenPower features

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPF100 | Does the device support bidirectional communication in operational mode? | A.1.6.3  A.3.6.1.5 | GPDT0: O | N/A |
| GPF101 | Is transmission of ZGPD Read Attributes command supported? | A.4.2.5 | GPDT0: X | N/A |
| GPF102 | Is reception of ZGPD Read Attributes command supported? | A.4.2.5 | GPDT0&&GPF100: M | N/A |
| GPF103 | Is transmission of ZGPD Read Attributes Response supported? | A.4.2.5 | GPDT0&&GPF100: M | N/A |
| GPF104 | Is reception of ZGPD Read Attributes Response command supported? | A.4.2.5 | GPDT0: X | N/A |
| GPF105 | Is transmission of ZGPD Request Attributes command supported? | A.4.2.5 | GPDT0&&GPF100: O | N/A |
| GPF106 | Is reception of ZGPD Request Attributes command supported? | A.4.2.5 | GPDT0: X | N/A |
| GPF107 | Is transmission of ZGPD Write Attributes command supported? | A.4.2.5 | GPDT0: X | N/A |
| GPF108 | Is reception of ZGPD Write Attributes command supported? | A.4.2.5 | GPDT0&&GPF100: O | N/A |

### Add new chapter 7.1.2.2.2 “ZGPD commissioning support”

Table 17 – ZGP Commissioning Feature Support

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| GPCF1 | Does the device support pairing with Data GPDF with Auto-Commissioning bit set to 0b1? | A.3.9  A.1.4, A.1.6 | GPDT0: O.26[[25]](#footnote-25) | N/A |
| GPCF2 | Does the device support pairing with Commissioning GPDF? | A.3.9  A.4.2.1.1 | GPDT0: O.26 GPDT0 && (ZGPD4|| ZGPD11|| ZGPD12|| ZGPD30|| ZGPD31|| ZGPD32|| ZGPD33): M | N/A |
| GPCF3A | Does the device support transmission of ZGPD Commissioning command? | A.4.2.1.1 | GPDT0&&GPCF2: M | N/A |
| GPCF3B | Does the device support reception of ZGPD Commissioning command? | A.4.2.1.1 | GPDT0: X | N/A |
| GPCF4 | Does the device support bidirectional communication in commissioning mode? | A.3.9 | GPDT0: O | N/A |
| GPDF10 | Does the device support configuration of operational channel when in commissioning mode? | A.3.9 | GPDT0: O | N/A |
| GPDF10A | Does the device support out-of-band configuration of operational channel? | A.3.9 | GPDT0: O.27[[26]](#footnote-26)  (GPDT0 &&GPCF4: X) | N/A |
| GPDF10B | Does the device support configuration of operational channel via channel toggling (ZGPD Commissioning command with RxAfterTx = 0b0)? | A.3.9 | GPDT0: O.27  (GPDT0 &&GPCF4: X) | N/A |
| GPDF10C | Does the device support in-band configuration of operational channel (via ZGPD Channel Request/Channel Configuration command)? | A.3.9 | GPDT0: O.27 (GPDT0 &&GPCF4: M) | N/A |
| GPDF10D | Does the device support the recommended channel set (11, 15, 20, 25)? | A.1.6, A.1.7 | GPDT0&&GPCF16: M | N/A |
| GPCF5A | Does the device support transmission of the ZGPD Channel Request command in commissioning mode? | A.3.9  A.4.2.1.4  A.1.4 | GPDT0: O GPDT0 &&(GPCF4||GPDF10C): M | N/A |
| GPCF5B | Does the device support reception of the ZGPD Channel Request command in commissioning mode? | A.3.9  A.4.2.1.4  A.1.4 | GPDT0: X | N/A |
| GPCF6 | Does the device support transmission of the ZGPD Channel Configuration command? | A.3.9  A.4.2.1.5  A.1.4 | GPDT0: X | N/A |
| GPCF7 | Does the device support reception of the ZGPD Channel Configuration command? | A.3.9  A.4.2.1.5  A.1.4 | GPDT0: O | N/A |
| GPCF7A | Does the device support reception of the ZGPD Channel Configuration command in commissioning mode? | A.3.9  A.4.2.1.5  A.1.4 | GPDT0: O GPDT0 &&(GPCF4||GPDF10C): M | N/A |
| GPCF7B | Does the device support reception of the ZGPD Channel Configuration command in operational mode? | A.6  A.4.2.1.5  A.1.4 | GPDT0: O GPDT0 &&GPF9: O | N/A |
| GPCF8 | Does the device support transmission of the ZGPD Commissioning Reply command? | A.4.2.1.2 | GPDT0: X | N/A |
| GPCF9 | Does the device support reception of the ZGPD Commissioning Reply command? | A.4.2.1.2 | GPDT0 && GPCF2: O | N/A |
| GPCF9A | Does the device support reception of the ZGPD Commissioning Reply command in commissioning mode? | A.4.2.1.2 | GPDT0 && GPCF4: M | N/A |
| GPCF9B | Does the device support reception of the ZGPD Commissioning Reply command in operational mode? | A.6 | GPDT0 && GPF9: O | N/A |
| GPCF10 | Is ZGPD removal via ZGPD Decommissioning command supported? | A.4.2.1.3 | GPDT0: O | N/A |
| GPCF11 | Does the device come with pre-configured ZGPD key? | A.3.9 | GPDT0 && (GPF5||GPF6||GPF7): O.28[[27]](#footnote-27) | N/A |
| GPCF12A | Does the device support ZGPD key exchange in ZGPD Commissioning command? | A.3.9 | GPDT0 && GPCF2: O GPDT0 && GPCF11: M | N/A |
| GPCF12B | Does the device support exchange of encrypted ZGPD key in ZGPD Commissioning command? | A.3.9  A.1.5 | GPDT0 && GPCF11: O | N/A |
| GPCF13A | Does the device support ZGPD key exchange in ZGPD Commissioning Reply command? | A.3.9 | GPDT0 && (GPF5||GPF6||GPF7): O.28 GPDT0 && GPCF9: O | N/A |
| GPCF13B | Does the device support exchange of encrypted ZGPD key in ZGPD Commissioning Reply command? | A.3.9  A.1.5 | GPDT0 && GPCF13A: O | N/A |
| GPCF14 | Does the device support out-of-band ZGPD key configuration? | A.3.9 | GPDT0 && (GPF5||GPF6||GPF7): O.28 | N/A |
| GPCF15A | Does the device support transmission of ZGPD Success command in commissioning mode? | A.3.9  A.4.1 | GPDT0: O GPDT0 && GPCF4: M | N/A |
| GPCF15B | Does the device support reception of ZGPD Success command when in commissioning mode? | A.3.9  A.4.1 | GPDT0: X | N/A |
| GPCF16 | Does the device support in-band configuration of PANId (via ZGPD Commissioning Reply command)? | A.3.9  A.4.2.1.2 | GPDT0 && GPCF4: O | N/A |
| GPCF100 | Is writing into Sink Table attribute via generic ZCL command supported during commissioning mode? | A.3.3.2.2 | GPDT0: X | N/A |
| GPCF101 | Is writing into Sink Table attribute via generic ZCL command supported during operational mode? | A.3.3.2.2 | GPDT0: X | N/A |
| GPCF102 | Is writing into Proxy Table attribute via generic ZCL command supported during commissioning mode? | A.3.3.2.2 | GPDT0: X | N/A |
| GPCF103 | Is writing into Proxy Table attribute via generic ZCL command supported during operational mode? | A.3.3.2.2 | GPDT0: X | N/A |

## Add new chapter 7.1.2.3 “ZGPD application functionality”

### Add new chapter 7.1.2.3.1 “ZGPD command support by ZGPD”

Table 18 – ZGPD commands support - transmission

| Item number | Item description | Reference | Status | Support |
| --- | --- | --- | --- | --- |
| ZGPDTX20 | Is transmission of ZGPD Off command supported? | A.4.3  A.4.1 | ZGPD2: O.29[[28]](#footnote-28) | N/A |
| ZGPDTX21 | Is transmission of ZGPD On command supported? | A.4.3  A.4.1 | ZGPD2 && ZGPDTX20: M | N/A |
| ZGPDTX22 | Is transmission of ZGPD Toggle command supported? | A.4.3  A.4.1 | ZGPD2: O.29 | N/A |
| ZGPDTX23 | Is transmission of ZGPD Release command supported? | A.4.3  A.4.1 | ZGPD2: O | N/A |
| ZGPDTX30 | Is transmission of ZGPD Move Up command supported? | A.4.3  A.4.2.4 | ZGPD3: O.30[[29]](#footnote-29) | N/A |
| ZGPDTX31 | Is transmission of ZGPD Move Down command supported? | A.4.3  A.4.2.4 | ZGPD3 && ZGPDTX30: M | N/A |
| ZGPDTX32 | Is transmission of ZGPD Step Up command supported? | A.4.3  A.4.2.4 | ZGPD3: O.30 | N/A |
| ZGPDTX33 | Is transmission of ZGPD Step Down command supported? | A.4.3  A.4.2.4 | ZGPD3 && ZGPDTX32: M | N/A |
| ZGPDTX34 | Is transmission of ZGPD Stop command supported? | A.4.3  A.4.1 | ZGPD3 && (ZGPDTX30 || ZGPDTX35): M | N/A |
| ZGPDTX35 | Is transmission of ZGPD Move Up (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPD3: O.30 | N/A |
| ZGPDTX36 | Is transmission of ZGPD Move Down (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPD3&&ZGPDTX35: M | N/A |
| ZGPDTX37 | Is transmission of ZGPD Step Up (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPD3: O.30 | N/A |
| ZGPDTX38 | Is transmission of ZGPD Step Down (with On/Off) command supported? | A.4.3  A.4.2.4 | ZGPD3&&ZGPDTX37: M | N/A |
| ZGPDTX40 | Is transmission of ZGPD Move Hue command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31[[30]](#footnote-30) | N/A |
| ZGPDTX41 | Is transmission of ZGPD Move Hue Up command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31 | N/A |
| ZGPDTX42 | Is transmission of ZGPD Move Hue Down command supported? | A.4.3  A.4.2.5 | ZGPD10 && ZGPDTX41: M | N/A |
| ZGPDTX43 | Is transmission of ZGPD Step Hue Up command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31 | N/A |
| ZGPDTX44 | Is transmission of ZGPD Step Hue Down command supported? | A.4.3  A.4.2.5 | ZGPD10 && ZGPDTX43: M | N/A |
| ZGPDTX45 | Is transmission of ZGPD Move Saturation command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31 | N/A |
| ZGPDTX46 | Is transmission of ZGPD Move Saturation Up command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31 | N/A |
| ZGPDTX47 | Is transmission of ZGPD Move Saturation Down command supported? | A.4.3  A.4.2.5 | ZGPD10 && ZGPDTX46: M | N/A |
| ZGPDTX48 | Is transmission of ZGPD Step Saturation Up command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31 | N/A |
| ZGPDTX49 | Is transmission of ZGPD Step Saturation Down command supported? | A.4.3  A.4.2.5 | ZGPD10 && ZGPDTX48: M | N/A |
| ZGPDTX4a | Is transmission of ZGPD Move Color command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31 | N/A |
| ZGPDTX4b | Is transmission of ZGPD Step Color command supported? | A.4.3  A.4.2.5 | ZGPD10: O.31 | N/A |
| ZGPDTX50 | Is transmission of ZGPD Lock Door command supported? | A.4.3  A.4.1 | ZGPD20: M | N/A |
| ZGPDTX51 | Is transmission of ZGPD Unlock Door command supported? | A.4.3  A.4.1 | ZGPD20: M | N/A |
| ZGPDTX60 | Is transmission of ZGPD Press 1 of 1 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPD0: M ZGPD5: M | N/A |
| ZGPDTX61 | Is transmission of ZGPD Release 1 of 1 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPD0: M ZGPD5: M | N/A |
| ZGPDTX62 | Is transmission of ZGPD Press 1 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPD1: M ZGPD6: M | N/A |
| ZGPDTX63 | Is transmission of ZGPD Release 1 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPD1: M ZGPD6: M | N/A |
| ZGPDTX64 | Is transmission of ZGPD Press 2 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPD1: M ZGPD6: M | N/A |
| ZGPDTX65 | Is transmission of ZGPD Release 2 of 2 command supported? | A.4.3  A.4.1  A.4.2.2 | ZGPD1: M ZGPD6: M | N/A |
| ZGPDTX66 | Is transmission of ZGPD Short press 1 of 1 command supported? | Table 43 | ZGPD5: M | N/A |
| ZGPDTX67 | Is transmission of ZGPD Short press 1 of 2 command supported? | Table 43 | ZGPD6: M | N/A |
| ZGPDTX68 | Is transmission of ZGPD Short press 2 of 2 command supported? | Table 43 | ZGPD6: M | N/A |
| ZGPDTXA0 | Is transmission of ZGPD Attribute reporting command supported? | A.4.3  A.4.2.3 | ZGPD4, ZGPD11,  ZGPD12,  ZGPD30,  ZGPD31,  ZGPD32 ZGPD33: O.32[[31]](#footnote-31) | N/A |
| ZGPDTXA1 | Is transmission of ZGPD Manufacturer-specific attribute reporting command supported? | A.4.3  A.4.2.3 | ZGPD4, ZGPD11,  ZGPD12,  ZGPD30,  ZGPD31,  ZGPD32 ZGPD33: O.32 | N/A |
| ZGPDTXA2 | Is transmission of ZGPD Multi-cluster reporting command supported? | A.4.3  A.4.2.3 | ZGPD11, ZGPD12,  ZGPD30, ZGPD31,  ZGPD32 ZGPD33: O.32 | N/A |
| ZGPDTXA3 | Is transmission of ZGPD manufacturer-specific multi-cluster reporting command supported? | A.4.3  A.4.2.3 | ZGPD11,  ZGPD12,  ZGPD30,  ZGPD31,  ZGPD32 ZGPD33: O.32 | N/A |

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

### Add new chapter 7.1.2.3.2 “ZigBee attribute support by ZGPD sensor devices”

In Table 18 – Table 20, ZigBee attributes supported by the ZGPD devices are listed.

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

Table 19 – Reported ZigBee attributes per ZGPD device

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item number | Item description | Reference | Status | Support |
| AREP1 | Does the ZGPD support reporting of the 0x0055: PresentValue attribute from Binary Input Cluster? | A.4.3 | ZGPD4: M | N/A |
| AREP2 | Does the ZGPD support reporting of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster? | A.4.3 | ZGPD11: M ZGPD33: M | N/A |
| AREP3 | Does the ZGPD support reporting of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster? | A.4.3 | ZGPD12: M | N/A |
| AREP4 | Does the ZGPD support reporting of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster? | A.4.3 | ZGPD30: M ZGPD33: M | N/A |
| AREP5 | Does the ZGPD support reporting of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster? | A.4.3 | ZGPD31: M | N/A |
| AREP6 | Does the ZGPD support reporting of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster? | A.4.3 | ZGPD32: M | N/A |
| AREP7 | Does the ZGPD support reporting of the 0x0000: MeasuredValue attribute from Relative Humidity Measurement Cluster? | A.4.3 | ZGPD33: M | N/A |

Table 20 – Readable ZigBee attributes per ZGPD device

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item number | Item description | Reference | Status | Support |
| AREAD1 | Does the ZGPD support reading of the 0x0051: OutOfService attribute from Binary Input Cluster? | A.4.3 | ZGPD4 && GPF102: M | N/A |
| AREAD2 | Does the ZGPD support reading of the 0x0055: PresentValue attribute from Binary Input Cluster? | A.4.3 | ZGPD4 && GPF102: M | N/A |
| AREAD3 | Does the ZGPD support reading of the 0x006F: StatusFlags attribute from Binary Input Cluster? | A.4.3 | ZGPD4 && GPF102: M | N/A |
| AREAD4 | Does the ZGPD support reading of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster? | A.4.3 | ZGPD11 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD5 | Does the ZGPD support reading of the 0x0001: MinMeasuredValue attribute from Illuminance Measurement Cluster? | A.4.3 | ZGPD11 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD6 | Does the ZGPD support reading of the 0x0002: MaxMeasuredValue attribute from Illuminance Measurement Cluster? | A.4.3 | ZGPD11 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD7 | Does the ZGPD support reading of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster? | A.4.3 | ZGPD12 && GPF102: M | N/A |
| AREAD8 | Does the ZGPD support reading of the 0x0000: Occupancy Sensor Type attribute from Occupancy Sensing Cluster? | A.4.3 | ZGPD12 && GPF102: M | N/A |
| AREAD9 | Does the ZGPD support reading of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster? | A.4.3 | ZGPD30 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD10 | Does the ZGPD support reading of the 0x0001: MinMeasuredValue attribute from Temperature Measurement Cluster? | A.4.3 | ZGPD30 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD11 | Does the ZGPD support reading of the 0x0002: MaxMeasuredValue attribute from Temperature Measurement Cluster? | A.4.3 | ZGPD30 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD12 | Does the ZGPD support reading of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster? | A.4.3 | ZGPD31 && GPF102: M | N/A |
| AREAD13 | Does the ZGPD support reading of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster? | A.4.3 | ZGPD32 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD14 | Does the ZGPD support reading of the 0x0001: MinMeasuredValue attribute from Flow Measurement Cluster? | A.4.3 | ZGPD32 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD15 | Does the ZGPD support reading of the 0x0002: MaxMeasuredValue attribute from Flow Measurement Cluster? | A.4.3 | ZGPD32 && GPF102: M ZGPD33 && GPF102: M | N/A |
| AREAD16 | Does the ZGPD support reading of the 0x0000: MeasuredValue attribute from Relative Humidity Cluster? | A.4.3 | ZGPD33 && GPF102: M | N/A |
| AREAD17 | Does the ZGPD support reading of the 0x0001: MinMeasuredValue attribute from Relative Humidity Cluster? | A.4.3 | ZGPD33 && GPF102: M | N/A |
| AREAD18 | Does the ZGPD support reading of the 0x0002: MaxMeasuredValue attribute from Relative Humidity Cluster? | A.4.3 | ZGPD33 && GPF102: M | N/A |

Table 21 – Writable ZigBee attributes per ZGPD device

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item number | Item description | Reference | Status | Support |
| AWRITE1 | Does the ZGPD support writing of the 0x0051: OutOfService attribute from Binary Input Cluster? | A.4.3 | ZGPD4 && GPF100: M | N/A |

1. O.1: DUT shall support at least one of these options. [↑](#footnote-ref-1)
2. O.2: DUT shall support at least one of these options. [↑](#footnote-ref-2)
3. O.3: DUT shall support only one of these options. [↑](#footnote-ref-3)
4. O.4: DUT shall support at least one of those options. [↑](#footnote-ref-4)
5. O.5: DUT shall support at least one of those options. [↑](#footnote-ref-5)
6. O.6 - Device under test shall select only one of these options. [↑](#footnote-ref-6)
7. O.7 - Device under test shall select at least one of these options. [↑](#footnote-ref-7)
8. O.8 - Device under test shall select only one of these options. [↑](#footnote-ref-8)
9. Note: this item covers only the client side, i.e. proxy functionality of the ZGPC. [↑](#footnote-ref-9)
10. O.10 – Device under test shall select only one of these options. [↑](#footnote-ref-10)
11. O.11: DUT shall support at least one of those options. [↑](#footnote-ref-11)
12. O.12: DUT shall implement at least one of those options. [↑](#footnote-ref-12)
13. 5 is the default minimum number of entries defined by the ZGP Proxy cluster [R4]. A particular profiles adopting the cluster may mandate different value. [↑](#footnote-ref-13)
14. O.14: The device under test shall implement at least one of those options; only one is enabled at any given time. [↑](#footnote-ref-14)
15. 10 is the default minimum number of entries defined by the ZGP Proxy cluster [R4]. A particular profiles adopting the cluster may mandate different value. [↑](#footnote-ref-15)
16. M.16: Note: the bidirectional operation is transparent to the proxy. It just needs to act add the command received in ZGP Response to its zgpTxQueue and send it upon reception of GPDF frame with *RxAfterTx* set; it doesn’t care about the type of the command. [↑](#footnote-ref-16)
17. O.17: DUT shall implement at least one of those options. [↑](#footnote-ref-17)
18. O.20: DUT shall implement exactly one of those options. [↑](#footnote-ref-18)
19. O.21: DUT shall implement at least one of those options. [↑](#footnote-ref-19)
20. O.22: DUT shall implement at least one of those options. [↑](#footnote-ref-20)
21. O.23: DUT shall implement exactly one of those options. [↑](#footnote-ref-21)
22. O.22: Device under test shall implement only one of those options [↑](#footnote-ref-22)
23. O.24: Device under test shall implement at least one of those options. [↑](#footnote-ref-23)
24. O.25: Device under test shall implement only one of those options. [↑](#footnote-ref-24)
25. O.26: DUT should implement exactly one of those methods. Hull test event comment #81 (ZigBee document docs-11-5603) [↑](#footnote-ref-25)
26. O.27: device under test shall support at least one of the methods. [↑](#footnote-ref-26)
27. O.28: DUT shall support at least one of those options. [↑](#footnote-ref-27)
28. O.29: Device under test shall support only one of those options. [↑](#footnote-ref-28)
29. O.30: Device under test has to implement exactly one of those commands [↑](#footnote-ref-29)
30. O.31: Device under test has to implement exactly one of those commands [↑](#footnote-ref-30)
31. O.32: Device under test shall implement at least one of those commands. [↑](#footnote-ref-31)