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 0xffffffffffffffff?	[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 after NDF4, add

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

10 Green Power feature

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

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[1]	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[2]	
GPDT2f	Is the product programmed as a GPP?	[R4] A.3.2.3	GPDT2: O.8[3]	
GPDT2m	Is the product programmed as a GPPm?	[R4] A.3.2.6	GPDT2: O.8	
GPDT2c[4]	Is the product programmed as a GPC?	[R4] A.3.2.4	GPDT2: O.8	
GPDT3	Does the product support GPS functionality?	[R4] A.3.2	GPDT1: O.7	
GPDT3t	Is the product programmed as a GPT?	[R4] A.3.2.1	GPDT3: O.10[5]	
GPDT3t+	Is the product programmed as a GPT+?	[R4] A.3.2.2	GPDT3: O.10	
GPDT3c	Is the product programmed as a GPC?	[R4] A.3.2.4	GPDT3: O.10	
GPDT3cm	Is the product programmed as a GPCm?	[R4] A.3.2.7	GPDT3: O.10	
GPDT4	Does the product support GP commissioning tool functionality	[R4] A.3.2.5	GPDT1: O.7	
GPDT4ct	Is the product programmed as a GP Commissioning Tool?	[R4] A.3.2.5	GPDT1: O	

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

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

[1] O.6 - Device under test shall select only one of these options.
[2] O.7 - Device under test shall select at least one of these options.
[3] O.8 - Device under test shall select only one of these options.
[4] Note: this item covers only the client side, i.e. proxy functionality of the GPC.
[5] O.10 – Device under test shall select only one of these options.

11 Functionality of Green Power infrastructure device

11.1 Green Power stub capabilities of GP infrastructure devices

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

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

The sub-type specific item labels (GPDT2f, GPDT2m, GPDT2c, GPDT3t, GPDT3t+, GPDT3c, GPDT3cm) 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	GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPF2	Does the device implement dGP stub?	[R4] A.1	GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPF3	Does the device support the general Green Power Device Frame format?	[R4] A.1.4	GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPF3A	Does the device support nwkcProtocolVersion = 0x3?	[R4] A.1.4	GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPF4A	Does the device support receiving GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b000?	[R4] A.1.4	GPDT2: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPF4B	Does the device support receiving GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b010?	[R4] A.1.4	GPDT2: O GPDT3: O GPDT4: M	
GPF5	Does the device's dGP stub support GPDF SecurityLevel=0b11?	[R4] A.1.5.4; A.3.7.2	GPDT2m: O GPDT2f: M GPDT2c: M GPDT3t: X GPDT3t+: O.4[6] GPDT3c: M GPDT3cm: O.4 GPDT4: M	
GPF6	Does the device's dGP stub support GPDF SecurityLevel=0b10?	[R4] A.1.5.4; A.3.7.2	GPDT2: M GPDT3t: X GPDT3t+: O.4 GPDT3c: M GPDT3cm: O.4 GPDT4: M	

[6] O.4: DUT shall support at least one of those options.

Item number	Item description	Reference	Status	Support
GPF7	Does the device's dGP stub support GPDF SecurityLevel=0b01?	[R4] A.1.5.4; A.3.7.2	GPDT2m: O GPDT2f: M GPDT2c: M GPDT3t: X GPDT3t+: O.4 GPDT3c: M GPDT3cm: O.4 GPDT4: M	
GPF8	Does the device's dGP stub support GPDF SecurityLevel=0b00?	[R4] A.1.5.4; A.3.7.2	GPDT2m: M GPDT2f: M GPDT2c: M GPDT3t: X GPDT3t+: O.4 GPDT3c: M MGPDT3cm: O.4 GPDT4: M	
GPF9A	Does the device support transmitting GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b000?	[R4] A.1	GPDT2m: O GPDT2f: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPF9B	Does the device support transmitting GPDF frame format with ApplicationID sub-field of the Extended NWK Frame Control field set to 0b010?	[R4] A.1	GPDT2: O GPDT3: O GPDT4: M	
GPSF1	Does the device support gpTxQueue?	[R4] A.1	GPDT2m: O GPDT2f: M GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	

11.2 Green Power: Support of minimal proxy functionality

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

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

The sub-type specific item labels (GPDT2f, GPDT2m, GPDT2c, GPDT3t, GPDT3t+, GPDT3c, GPDT3cm) 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 minimum GP proxy functionality?	[R4] A.3.2.6	GPDT2m: M GPDT2f: M GPDT2c: M GPDT3t: X GPDT3t+: O GPDT3c: M MGPDT3cm: M GPDT4: O	
GPPC1	Is the GreenPower 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 GreenPower cluster supported as a client?	[R4] A.3.4	GPPC0: O.5[7] GPPC0&GPDT2m: M	

[7] O.5: DUT shall support at least one of those options.

Item number	Item description	Reference	Status	Support
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 10 entries in the Proxy Table attribute supported?	[R4]A.3.4.2.2	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 GreenPower cluster supported as a server?	[R4]A.3.3	GPPC0: O.5 GPPC0&GPDT3cm: M	
GPPCS2	Is the gppMaxSinkTableEntries attribute supported?	[R4]A.3.3.2.1	GPPCS1: M	
GPPCS3A	Is the Sink Table attribute supported?	[R4]A.3.3.2.2	GPPCS1: M	
GPPCS3B	Is the minimum number of 5 entries in the Sink Table attribute supported?	[R4]A.3.3.2.2	GPPCS1: M	
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: M	
GPPC102	Is the gpSharedSecurityKey attribute supported?	[R4]A.3.3.3.2	GPPC0: M	
GPPC103	Is the gpLinkKey attribute supported?	[R4]A.3.3.3.3	GPPC0: M	
GPPCC102	Is transmission of the GP Notification command in derived groupcast supported?	[R4]A.3.3.4.1	GPDT2m: M GPDT3cm: O	
GPPCC103	Is transmission of the GP Notification command in commissioned groupcast supported?	[R4]A.3.3.4.1	GPDT2m: M GPDT3cm: M	
GPPCC110	Is reception of the GP Pairing command supported?	[R4] A.3.3.5.2	GPPCC1: M	
GPPCS110	Is reception of the GP Pairing Configuration command supported?	[R4] A.3.3.4.7	GPPCS1: M	

11.3 Functionality of GreenPower cluster

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

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

Table 5 – GreenPower cluster feature support

Item number	Item description	Reference	Status	Support
GPPCSF1	Is GP feature supported as a server? (GP feature sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3: M GPDT4: M	
GPPCSF2	Is Direct communication (via GP stub) supported as a server? (Direct communication sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: X GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPPCSF3	Is Derived groupcast communication supported as a server? (Derived groupcast communication sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: O.11[8] GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: M GPDT4: O	

[8] O.11: DUT shall support at least one of those options.

Item number	Item description	Reference	Status	Support
GPPCSF4	Is Pre-commissioned groupcast communication supported as a server? (Pre-commissioned groupcast communication sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: O.11 GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: M (GPDT3 & GPPCSF3: M) GPDT4: O	
GPPCSF5	Is Unicast communication supported as a server? (Unicast communication sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: O.11 GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: X GPDT4: O	
GPPCSF6	Is Lightweight unicast communication supported as a server? (Lightweight unicast communication sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: O.11 GPDT3t+: O.11 GPDT3c: O.11 GPDT3cm: X GPDT4: O	
GPPCSF7	Is Single-hop (in sink's range) bidirectional operation supported as a server? (Single-hop bidirectional operation sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: X GPDT3t+: O GPDT3c: O GPDT3cm: O GPDT4: O	
GPPCSF8	Is Multi-hop (Proxy-based) bidirectional operation supported as a server? (Multi-hop bidirectional operation sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: O GPDT3t+: O GPDT3c: O GPDT3cm: O GPDT4: O	
GPPCSF9	Is Proxy Table maintenance (active and passive) supported as a server? (Proxy Table maintenance sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: M GPDT3t+: M GPDT3c: M GPDT3cm: O GPDT4: O	
GPPCSF10	Is Single-hop (in sink's range) commissioning (unidirectional and bidirectional) supported as a server? (Single-hop commissioning sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: N/A GPDT3t+: M GPDT3c: M GPDT3cm: M GPDT4: M	
GPPCSF11	Is Multi-hop (Proxy-based) commissioning (unidirectional and bidirectional) supported as a server? (Multi-hop commissioning sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: M GPDT3t+: O GPDT3c: O GPDT3cm: O GPDT4: O	
GPPCSF12	Is CT-based commissioning supported as a server? (CT-based commissioning sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3t: O GPDT3t+: O GPDT3c: O GPDT3cm: M GPDT4: M	
GPPCSF13	Is Maintenance of GPD (deliver channel/key during operation) supported as a server? (Maintenance of GPD sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3: O GPDT4: O	

Item number	Item description	Reference	Status	Support
GPPCSF14	Is gpdSecurityLevel = 0b00 supported as a server? (gpdSecurityLevel = 0b00 sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3: O.12[9] GPDT4: O	
GPPCSF15	Is gpdSecurityLevel = 0b01 supported as a server? (gpdSecurityLevel = 0b01 sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3: O.12 GPDT4: O	
GPPCSF16	Is gpdSecurityLevel = 0b10 supported as a server? (gpdSecurityLevel = 0b10 sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A GPDT3: O.12 GPDT4: O	
GPPCSF17	Is gpdSecurityLevel = 0b11 supported as a server? (gpdSecurityLevel = 0b11 sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A 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.3.2.8	GPDT2: N/A GPDT3t: O GPDT3t+: O GPDT3c: O GPDT3cm: M GPDT4: O	
GPPCSF19	Is Translation Table feature supported as a server? (Translation Table sub-field of the gpsFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: N/A 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.3.2.8	GPDT2: N/A GPDT3: O GPDT4: M	
GPPCCF1	Is GP feature supported as a client? (GP feature sub-field of the gppFunctionality attribute set?)	[R4] A.3.2.8	GPDT2: 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	GPDT2: 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	GPDT2: M GPDT3t: N/A GPDT3t+: N/A GPDT3c: N/A GPDT3cm: M 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	GPDT2: M GPDT3t: N/A GPDT3t+: N/A GPDT3c: N/A GPDT3cm: M GPDT4: O	
GPPCCF5	Is Unicast communication supported as a client? (Unicast communication sub-field of the gppFunctionality attribute set?)	[R4] A.3.2.8	GPDT2c: M GPDT2f: M GPDT2m: O 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	GPDT2: O GPDT3: N/A GPDT4: O	
GPPCCF7	Is Single-hop (in sink's range) bidirectional operation supported as a client? (Single-hop 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 (Proxy-based) bidirectional operation supported as a client? (Multi-hop bidirectional operation sub-field of the gppFunctionality attribute set?)	[R4] A.3.2.8	GPDT2c: O GPDT2f: O GPDT2m: O GPDT3: N/A GPDT4: O	

[9] O.12: DUT shall implement at least one of those options.

Item number	Item description	Reference	Status	Support
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	GPDT2c: M GPDT2f: M GPDT2m: O GPDT3: N/A GPDT4: O	
GPPCCF10	Is Single-hop (in sink's range) commissioning (unidirectional and bidirectional) supported as a client? (Single-hop 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 (Proxy-based) commissioning (unidirectional and bidirectional) supported as a client? (Multi-hop commissioning sub-field of the gppFunctionality attribute set?)	[R4] A.3.2.8	GPDT2f: M GPDT2m: O GPDT2c: 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	GPDT2c: M GPDT2f: M GPDT2m: O 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	GPDT2f: M GPDT2m: O GPDT2c: M GPDT3: N/A GPDT4: O	
GPPCCF14	Is gpdSecurityLevel = 0b00 supported as a client? (gpdSecurityLevel = 0b00 sub-field of the gppFunctionality attribute set?)	[R4] A.3.2.8	GPDT2f: M GPDT2m: M GPDT2c: M GPDT3: N/A GPDT4: O	
GPPCCF15	Is gpdSecurityLevel = 0b01 supported as a client? (gpdSecurityLevel = 0b01 sub-field of the gppFunctionality attribute set?)	[R4] A.3.2.8	GPDT2f: M GPDT2m: O GPDT2c: M GPDT3: N/A GPDT4: O	
GPPCCF16	Is gpdSecurityLevel = 0b10 supported as a client? (gpdSecurityLevel = 0b10 sub-field of the gppFunctionality attribute set?)	[R4] A.3.2.8	GPDT2f: M GPDT2m: M GPDT2c: M GPDT3: 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	GPDT2f: M GPDT2m: O GPDT2c: M GPDT3: 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	GPDT2: O GPDT3: N/A GPDT4: N/A	

11.3.1 GreenPower cluster: items common to client and server

Table 6 – GreenPower cluster items common to client and server

Item number	Item description	Reference	Status	Support
GPPC1	Is the GreenPower cluster supported?	[R4] A.3	GPDT1: M	
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&& GPF8: M	
GPPC3i	Does the device support incremental MAC sequence number for GPD commands' duplicate filtering?	[R4] A.3.6.1.2	GPDT1&& GPF8: M	
GPPC3s	Does the device support GPD security frame counter for GPD commands' duplicate filtering?	[R4] A.3.6.1.2	GPDT1&& (GPF5||GPF6||GPF7): M	
GPPC4	Does the device support transmission of Device_annce for the alias?	[R4] A.3.6.3.3, A.3.6.3.4	GPDT1: M	
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	
GPPC101	Is the *gpSharedSecurityKeyType* attribute supported?	[R4] A.3.3.3.1	GPDT1&& (GPF5||GPF6||GPF7): M	
GPPC102	Is the *gpSharedSecurityKey* attribute supported?	[R4] A.3.3.3.2	GPDT1&& (GPF5||GPF6||GPF7): M	
GPPC103	Is the *gpLinkKey* attribute supported?	[R4] A.3.3.3.3	GPDT1&& (GPF5||GPF6||GPF7): M	

11.3.2 Server side

Table 7 – GreenPower cluster server capabilities

Item number	Item description	Reference	Status	Support
GPPCS1	Is the GreenPower cluster supported as a server?	[R4] A.3.3	GPDT2: O GPDT3: M GPDT4: M GPPCSF1: M	
GPPCS2	Is the gpsMaxSinkTableEntries attribute supported?	[R4] A.3.3.2.1	GPDT2: X GPDT3: M GPDT4: O	
GPPCS3A	Is the Sink Table attribute supported?	[R4] A.3.3.2.2	GPDT2: X GPDT3: M GPDT4: O	
GPPCS3B	Is the required minimum number of entries in the Sink Table attribute supported?[10]	[R4] A.3.3.2.2	GPDT3: 5	
GPPCS4	Is the gpsCommunication mode attribute supported?	[R4] A.3.3.2.3	GPDT2: X GPDT3: M GPDT4: O	
GPPCS5	Is the gpsCommissioningExitMode attribute supported?	[R4] A.3.3.2.4	GPDT2: X GPDT3: M GPDT4: O	

[10] 5 is the default minimum number of entries defined by the GP Proxy cluster [R4]. A particular profiles adopting the cluster may mandate different value.

Item number	Item description	Reference	Status	Support
GPPCS6	Is the gpsCommissioningWindow attribute supported?	[R4] A.3.3.2.5	GPDT2: X GPDT3: O GPDT4: O	
GPPCS7	Is the gpsSecurityLevel attribute supported?	[R4] A.3.3.2.6	GPDT2: X GPDT3: M GPDT4: O	
GPPCS8	Is the *gpsFunctionality* attribute supported?	[R4] A.3.3.2.7	GPDT2: X GPDT3: M GPDT4: O	
GPPCS9	Is the *gpsActiveFunctionality* attribute supported?	[R4] A.3.3.2.8	GPDT2: X GPDT3: M GPDT4: O	
GPPCS99	Is Translation Table supported?	[R4] A.3.5.2.2	GPDT2: X GPDT3: O GPDT4: O GPPCSF19: M	
GPPCS100	Is reception of the GP Notification command supported?	[R4] A.3.2.10 [R4] A.3.3.3	GPDT2c: M GPDT2f: M GPDT2m: O GPDT3: M GPDT4: O	
GPPCS101	Is reception of the GP Notification command in unicast supported?	[R4] A.3.2.10 [R4] A.3.3.4.1	GPDT2: X GPDT3t‖GPDT3t+‖GPDT3c: O.14[11] GPDT3cm: X GPPCSF5‖GPPCSF6: M GPDT4: O	
GPPCS102	Is reception of the GP Notification command in derived groupcast supported?	[R4] A.3.2.10 [R4] A.3.3.4.1	GPDT2& (GPPCCF8‖GPPCCF9‖GPPCCF13) : M GPDT3cm: O GPDT3t‖GPDT3t+‖GPDT3c: O.14 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	GPDT2& (GPPCCF8‖GPPCCF9‖ GPPCCF13): M GPDT3cm: M GPDT3t‖GPDT3t+‖GPDT3c: O.14 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	GPDT2:O GPPCCF9: M GPDT3: O 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	GPDT2: O GPPCCF9: O GPDT3cm: O GPDT3t, GPDT3t+, GPDT3c: M 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	GPDT2m: O GPPCCF5: M GPDT2f: M GPDT2c: M GPDT3: X GPDT4: O	

[11] O.14: The device under test shall implement at least one of those options; only one is enabled at any given time.

Item number	Item description	Reference	Status	Support
GPPCS107	Is reception of the GP Commissioning Notification command supported?	[R4] A.3.2.10 [R4] A.3.3.4.4	GPDT2m: O (GPPCCF11: M) GPDT2f‖GPDT2c: M GPDT3t: M GPDT3t+‖GPDT3c‖GPDT3cm: O (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 GPDT3: 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 GPDT3: 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 GPDT3cm: M GPDT3t‖GPDT3t+‖GPDT3c: O GPDT4: O GPPCSF4 ‖ GPPCSF12 ‖ GPPCSF18: M	
GPPCS150	Is transmission of the GP Notification Response command supported?	[R4] A.3.2.10 [R4] A.3.3.5.1	GPDT2: X GPDT3cm: X GPDT3t‖GPDT3t+‖GPDT3c: O GPDT4: O GPPCSF5‖GPPCSF6: M	
GPPCS151	Is transmission of the GP Response command supported?	[R4] A.3.2.10 [R4] A.3.3.5.4	GPDT2: X GPDT3: O GPDT4: O GPPCSF8‖ GPPCSF11‖GPPCSF 13: M	
GPPCS152	Is transmission of the GP Pairing command supported?	[R4] A.3.2.10 [R4] A.3.3.5.2	GPDT2: X GPDT3: M GPDT4: M	
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 GPDT3: O GPDT4: M	
GPPCS154	Is transmission of the GP Proxy Commissioning Mode command supported?	[R4] A.3.2.10 [R4] A.3.3.5.3	GPDT2: X GPDT3t: M GPDT3t+‖GPDT3c‖GPDT3cm: O GPDT4: M 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 GPDT3: O GPDT3&&GPPCS109:M GPDT4: O GPPCSF19: M	
GPPCS201	Is persistent storage of Sink Table supported?	[R4] A.3.2.10 [R4] A.3.3.2.2	GPDT2: X GPDT3: M GPDT4: O	

11.3.3 Client side

Table 8 – GreenPower cluster client capabilities

Item number	Item description	Reference	Status	Support
GPPCC1	Is the GreenPower cluster supported as a client?	[R4] A.3.4	GPDT2: M GPDT3: O GPDT4: O	
GPPCC2	Is the gppMaxProxyTableEntries attribute supported?	[R4] A.3.4.2.1	GPDT2: M GPDT3: X GPDT4: O	
GPPCC3A	Is the Proxy Table attribute supported?	[R4] A.3.4.2.2	GPDT2: M GPDT3: X GPDT4: O	
GPPCC3B	Is the required minimal number of entries in the Proxy Table attribute supported?[12]	[R4] A.3.4.2.2	GPDT2: 10	
GPPCC3C	Is the required minimal number of entries in the *Sink address list* per Proxy Table entry supported?	[R4] A.3.4.2.2	GPDT2 && GPPCSF5: 2	
GPPCC3D	Is the required minimal number of entries in the *Sink group list* per Proxy Table entry supported?	[R4] A.3.4.2.2	GPDT2 && GPPCSF4: 2	
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?	[R4] A.3.4.2.2	GPDT2 && GPPCSF5 && GPPCSF5: 1+1	
GPPCC4	Is the *gppNotificationRetryNumber* attribute supported?	[R4] A.3.4.2.3	GPDT2f||GPDT2c: M GPDT2m: O (GPPCCF5||GPPCCF6: M) GPDT3: X GPDT4: O	
GPPCC5	Is the *gppNotificationRetryTimer* attribute supported?	[R4] A.3.4.2.4	GPDT2f||GPDT2c: M GPDT2m: O (GPPCCF5||GPPCCF6: M) GPDT3: X GPDT4: O	
GPPCC6	Is the *gppMaxSearchCounter* attribute supported?	[R4] A.3.4.2.5	GPDT2: O (GPPCCF9: M) GPDT3: X GPDT4: O	
GPPCC7	Is the *gppBlockedSrcID* attribute supported?	[R4] A.3.4.2.6	GPDT2: O (GPPCCF9: M) GPDT3: X GPDT4: O	
GPPCC8	Is the *gppFunctionality* attribute supported?	[R4] A.3.4.2.7	GPDT2: M GPDT3: X GPDT4: O	
GPPCC9	Is the *gppActiveFunctionality* attribute supported?	[R4] A.3.4.2.8	GPDT2: 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	GPDT2: M GPDT3cm: M GPDT3t|GPDT3t+||GPDT3c: X GPDT4: O	
GPPCC101	Is transmission of the GP Notification command in unicast supported?	[R4] A.3.2.10 [R4] A.3.3.4.1	GPDT2f||GPDF2c: M GPDT2m: O GPDT3: X GPPCCF 5||GPPCCF6: M GPDT4: O	

[12] 10 is the default minimum number of entries defined by the GP Proxy cluster [R4]. A particular profiles adopting the cluster may mandate different value.

Item number	Item description	Reference	Status	Support
GPPCC102	Is transmission of the GP Notification command in derived groupcast supported?	[R4] A.3.2.10 [R4] A.3.3.4.1	GPDT2: M GPDT3cm: O 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 GPDT3cm: 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	GPDT2‖GPDT3cm: O 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	GPDT2c‖GPDT2f: M GPDT2m‖GPDT3cm: O GPPCCF 5‖GPPCCF6: M GPDT4: O	
GPPCC106	Is transmission of the GP Pairing Search command supported?	[R4] A.3.2.10 [R4] A.3.4.2	GPDT2‖GPDT3cm: O GPPCCF9: M GPDT3t‖GPDT3t+‖GPDT3c: X GPDT4: M	
GPPCC107	Is transmission of the GP Tunneling Stop command supported?	[R4] A.3.2.10 [R4] A.3.4.4.1	GPDT2c‖GPDT2f: M GPDT2m: O GPPCCF5‖GPPCCF6: M GPDT3: X GPDT4: O	
GPPCC108	Is transmission of the GP Commissioning Notification command supported?	[R4] A.3.2.10 [R4] A.3.3.4.4	GPDT2c‖GPDT2f: M GPDT2m‖GPDT3cm: O GPPCCF11: M GPDT3t‖GPDT3t+‖GPDT3c: X GPDT4: O	
GPPCC108	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 GPDT3: O GPDT4: M	
GPPCC109	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 GPDT3: O GPDT4: M	
GPPCC110	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	GPDT2: X GPDT3cm: M GPDT3t‖GPDT3t+‖GPDT3c: O GPDT4: M GPPCSF4 ‖ GPPCSF18: M	
GPPCC150	Is reception of the GP Notification Response command supported?	[R4] A.3.2.10 [R4] A.3.3.5.1	GPDT2c‖GPDT2f: M GPDT2m: O GPPCCF5‖GPPCCF6: M GPDT3: X GPDT4: O	
GPPCC151	Is reception of the GP Pairing command supported?	[R4] A.3.2.10 [R4] A.3.3.5.2	GPDT2: M GPDT3: X GPDT4: M	
GPPCC152	Is reception 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: M GPDT3: X GPDT4: M	
GPPCC153	Is reception of the GP Proxy Commissioning Mode command supported?	[R4] A.3.2.10 [R4] A.3.3.5.3	GPDT2c‖GPDT2f: M GPDT2m: O GPPCCF11: M GPDT3: O GPDT4: M	
GPPCC154	Is reception of the GP Response command supported?	[R4] A.3.2.10 [R4] A.3.3.5.4	GPDT2c‖GPDT2f: M GPDT2m‖GPDT3cm: O GPPCCF8‖GPPCCF11‖GPPCCF 13:M GPDT3t‖GPDT3t+‖GPDT3c: X GPDT4: O	

Item number	Item description	Reference	Status	Support
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 GPDT3: O (GPDT3&&GPPCC109:M) GPDT4: 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	GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M	
GPPCC202	Is passive discovery supported?	[R4] A.3.5.2.2.3	GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M	
GPPCC2034	Is active discovery supported?	[R4] A.3.5.2.2.4	GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M	
GPPCC204	Is active re-discovery supported?	[R4] A.3.5.2.2.5	GPDT2: O GPDT3: X GPDT4: O GPPCCF9: M	
GPPCC205	Is limiting the number of the transmitted GreenPower cluster messages supported?	[R4] A.3.6.3.1, A.3.6.3.3	GPDT2: M GPDT3: O GPDT4: O	
GPPCC205A	Is distance-based gppTunnelingDelay 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	
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	
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	
GPPCC206	Is updating *TargetList* field of the *ProxyTable* attribute on reception of Device_annce supported?	[R4] A.3.5.2.1	GPDT2c||GPDT2f: M GPDT2m: O 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[13] 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	
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	

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?	[R4] A.3.9	GPPCCF11: M GPDT3: O GPDT4: M	
GPCF2	Does the device support pairing with Commissioning GPDF?	[R4] A.3.9	GPPCCF11: M GPDT3: M GPDT4: M	
GPCF3A	Does the device support transmission of GPD Commissioning command?	[R4] A.4.2.1.1	GPDT2: X GPDT3: X	
GPCF3B	Does the device support reception of GPD Commissioning command?	[R4] A.4.2.1.1	GPPCCF11: M GPPCSF10||GPPCSF11: M GPDT4: M	
GPCF4	Does the device support bidirectional communication in commissioning mode?	[R4] A.3.9	GPPCCF11: M GPPCSF10||GPPCSF11: M GPDT4: M	
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 GPDT4: M	

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

Item number	Item description	Reference	Status	Support
GPCF6A	Does the device support transmission of the GPD Channel Configuration command in commissioning mode?	[R4] A.3.9	GPPCCF11: M GPPCSF10||GPPCSF11: M GPDT4: M	
GPCF6B	Does the device support transmission of the GPD Channel Configuration command in operational mode?	[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 GPDT4: M	
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 GPDT4: M	
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 GPDT4: M	
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 GPDT4: M	
GPCF12B	Does the device support exchange of encrypted GPD key in GPD Commissioning command?	[R4] A.3.9	GPPCCF11: O GPPCSF10||GPPCSF11: O GPDT4: O	
GPCF13A	Does the device support GPD key exchange in GPD Commissioning Reply command?	[R4] A.3.9	GPPCCF11: M GPPCSF10||GPPCSF11: M GPDT4: M	
GPCF13B	Does the device support exchange of encrypted GPD key in GPD Commissioning Reply command?	[R4] A.3.9	GPPCCF11: O GPPCSF10||GPPCSF11: O 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 GPDT4: M	
GPCF16	Does the device support in-band configuration of PANId (via GPD Commissioning Reply command)?	[R4] A.3.9	GPDT1: O	
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	

11.4 GPS application functionality

11.4.1.1 GPS device description support

In Table 11, device descriptions for the GPS (GPDT3, i.e. GPDT3t, GPDT3t+, GPDT3c and GPDT3cm) 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[14]	
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	
GPS13	Is the product programmed with (GP-controllable) client-side CO2 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	

[14] O.17: DUT shall implement at least one of those options.

11.4.2 GPD command support by GPS

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

Table 12 – GPD commands support - reception

Item number	Item description	Reference	Status	Support
GPDRX20	Is reception of GPD Off command supported?	[R4] A.4.3 [R4] A.4.1	GPS2: O.20[15]	
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	
GPDRX30	Is reception of GPD Move up command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3: O.21[16]	
GPDRX31	Is reception of GPD Move Down command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3 && GPDRX30: M	
GPDRX32	Is reception of GPD Step UP command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3: O.21	
GPDRX33	Is reception of GPD Step Down command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3 && GPDRX32: M	
GPDRX34	Is reception of GPD Stop command supported?	[R4] A.4.3 [R4] A.4.1	GPS3 && (GPDRX30 || GPDRX35): M	
GPDRX35	Is reception of GPD Move Up (with On/Off) command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3: O.21	
GPDRX36	Is reception of GPD Move Down (with On/Off) command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3: O.21 &&GPDRX35	
GPDRX37	Is reception of GPD Step Up (with On/Off) command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3: O.21	
GPDRX38	Is reception of GPD Step Down (with On/Off) command supported?	[R4] A.4.3 [R4] A.4.2.4	GPS3: O.21 &&GPDRX37	
GPDRX40	Is reception of GPD Move Hue command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5: O.22[17]	
GPDRX41	Is reception of GPD Move Hue Up command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5: O.22	
GPDRX42	Is reception of GPD Move Hue Down command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5 && GPDRX41	
GPDRX43	Is reception of GPD Step Hue Up command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5: O.22	
GPDRX44	Is reception of GPD Step Hue Down command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5 && GPDRX43	
GPDRX45	Is reception of GPD Move Saturation command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5: O.22	
GPDRX46	Is reception of GPD Move Saturation Up command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5: O.22	
GPDRX47	Is reception of GPD Move Saturation Down command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5 && GPDRX46	
GPDRX48	Is reception of GPD Step Saturation Up command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5: O.22	

[15] O.20: DUT shall implement exactly one of those options.
[16] O.21: DUT shall implement at least one of those options.
[17] O.22: DUT shall implement at least one of those options.

Item number	Item description	Reference	Status	Support
GPDRX49	Is reception of GPD Step Saturation Down command supported?	[R4] A.4.3 [R4] A.4.2.5	GPS5 && GPDRX48	
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	
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	
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	
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	
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	
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	
GPDRXA0	Is reception of GPD Attribute reporting command supported?	[R4] A.4.3 [R4] A.4.2.3	GPS4, GPS6, GPS7, GPS12, GPS13, GPS14, GPS15 GPS16, GPS17, GPS18, GPS19, GPS20: M	

[17] O.22: DUT shall implement at least one of those options.

Item number	Item description	Reference	Status	Support
GPDRXA1	Is reception of GPD Manufacturer-specific attribute reporting command supported?	[R4] A.4.3 [R4] A.4.2.3	GPS4, GPS6, GPS7, GPS12, GPS13 GPS14, GPS15 GPS16, GPS17, GPS18, GPS19, GPS20: O	
GPDRXA2	Is reception of GPD Multi-cluster reporting command supported?	[R4] A.4.3 [R4] A.4.2.3	GPS4, GPS6, GPS7, GPS12, GPS13, GPS14, GPS15 GPS16, GPS17, GPS18, GPS19, GPS20: O	
GPDRXA3	Is reception of GPD manufacturer-specific multi-cluster reporting command supported?	[R4] A.4.3 [R4] A.4.2.3	GPS4, GPS6, GPS7, GPS12, GPS13, GPS14, GPS15 GPS16, GPS17, GPS18, GPS19, GPS20: O	

[17] O.22: DUT shall implement at least one of those options.

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).

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
GPD0	Is the product programmed as a GP Simple Generic 1-state Switch?	[R4] A.4.3	GPDT1: O.23[18]	NO
GPD1	Is the product programmed as a GP Simple Generic 2-state Switch?	[R4] A.4.3	GPDT1: O.23	NO
GPD2	Is the product programmed as a GP On/Off Switch?	[R4] A.4.3	GPDT1: O.23	YES
GPD3	Is the product programmed as a GP Level Control Switch?	[R4] A.4.3	GPDT1: O.23	NO
GPD4	Is the product programmed as a GP Simple Sensor?	[R4] A.4.3	GPDT1: O.23	NO
GPD5	Is the product programmed as a GP Advanced Generic 1-state Switch?	[R4] A.4.3	GPDT1: O.23	NO
GPD5B	What is the value of the short press time threshold?	[R4] A.4.2.2	Implementation-specific	NO
GPD6	Is the product programmed as a GP Advanced Generic 2-state Switch?	[R4] A.4.3	GPDT1: O.23	NO
GPD6B	What is the value of the short press time threshold?	[R4] A.4.2.2	Implementation-specific	NO
GPD10	Is the product programmed as a GP Color Dimmer Switch?	[R4] A.4.3	GPDT1: O.23	NO
GPD11	Is the product programmed as a GP Light Sensor?	[R4] A.4.3	GPDT1: O.23	NO
GPD12	Is the product programmed as a GP Occupancy Sensor?	[R4] A.4.3	GPDT1: O.23	NO
GPD20	Is the product programmed as a GP Door Lock Controller?	[R4] A.4.3	GPDT1: O.23	NO
GPD30	Is the product programmed as a GP Temperature Sensor?	[R4] A.4.3	GPDT1: O.23	NO
GPD31	Is the product programmed as a GP Pressure Sensor?	[R4] A.4.3	GPDT1: O.23	NO
GPD32	Is the product programmed as a GP Flow Sensor?	[R4] A.4.3	GPDT1: O.23	NO
GPD33	Is the product programmed as a GP Indoor Environment Sensor?	[R4] A.4.3	GPDT1: O.23	NO

12.2 GPD functionality

Table 14 –GPD functionality

Item number	Item description	Reference	Status	Support
GPSF1	Does the device implement cGP stub?	[R4] A.1	GPDT0: X	NO
GPSF2	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

[17] O.22: DUT shall implement at least one of those options.

[18] O.23: DUT shall implement exactly one of those options.

Item number	Item description	Reference	Status	Support
GPF4A	Does the device support transmitting GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b000?	[R4] A.1.4.1.3	GPDT0: O.22[19]	YES
GPF4B	Does the device support transmitting GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b010?	[R4] A.1.4.1.3	GPDT0: O.22	NO
GPF5	Does the device support SecurityLevel=0b11?	[R4] A.1.5.4 [R4] A.3.7.2.1	GPDT0: O.24[20]	NO
GPF6	Does the device support SecurityLevel=0b10?	[R4] A.1.5.4 [R4] A.3.7.2.1	GPDT0: O.24	YES 22ter
GPF7	Does the device support SecurityLevel=0b01?	[R4] A.1.5.4 [R4] A.3.7.2.1	GPDT0: O.24	NO
GPF8	Does the device support SecurityLevel=0b00?	[R4] A.1.5.4 [R4] A.3.7.2.1	GPDT0: O.24	YES 22bis
GPF9A	Does the device support receiving GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b000?	[R4] A.1.4.1.3	GPDT0&&GPF4A: O (GPF4B: X)	NO
GPF9B	Does the device support receiving GPDF frame format with *ApplicationID* sub-field of the *Extended NWK Frame Control* field set to 0b010?	[R4] A.1.4.1.3	GPDT0&&GPF4B: O (GPF4A: X)	NO
GPDF1	Does the device support random MAC sequence number for GPD commands?	[R4] A.1.6, A.1.7	GPDT0 && GPF8: O.25[21]	NO
GPDF2	Does the device support incremental MAC sequence number for GPD commands?	[R4] A.1.6, A.1.7	GPDT0 && GPF8: O.25	YES
GPDF3	Is the FixedLocation flag in the Commissioning GPD command set?	[R4] A.1.6, A.1.7	GPDT0: O	YES

12.2.1 GPD Bidirectional operation

Table 15 – Support for GreenPower functionality

Item number	Item description	Reference	Status	Support
GPF100	Does the device support bidirectional communication in operational mode?	[R4] A.1.6.3 [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	
GPF102	Is reception of GPD Read Attributes command supported?	[R4] A.4.2.5	GPDT0&&GPF100: M	
GPF103	Is transmission of GPD Read Attributes Response supported?	[R4] A.4.2.5	GPDT0&&GPF100: M	
GPF104	Is reception of GPD Read Attributes Response command supported?	[R4] A.4.2.5	GPDT0: X	
GPF105	Is transmission of GPD Request Attributes command supported?	[R4] A.4.2.5	GPDT0&&GPF100: O	
GPF106	Is reception of GPD Request Attributes command supported?	[R4] A.4.2.5	GPDT0: X	
GPF107	Is transmission of GPD Write Attributes command supported?	[R4] A.4.2.5	GPDT0: X	
GPF108	Is reception of GPD Write Attributes command supported?	[R4] A.4.2.5	GPDT0&&GPF100: O	

[19] O.22: Device under test shall implement only one of those options
[20] O.24: Device under test shall implement at least one of those options.
[21] O.25: Device under test shall implement only one of those options.

12.2.2 GPD commissioning support

Table 16 – GP 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?	[R4] A.3.9 [R4] A.1.4, A.1.6	GPDT0: O.26[22]	YES [22bis]
GPCF2	Does the device support pairing with Commissioning GPDF?	[R4] A.3.9 [R4] A.4.2.1.1	GPDT0: O.26 GPDT0 && (GPD4|| GPD11|| GPD12|| GPD30|| GPD31|| GPD32|| GPD33): M	YES [22ter]
GPCF3A	Does the device support transmission of GPD Commissioning command?	[R4] A.4.2.1.1	GPDT0&&GPCF2: M	YES [22ter]
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	NO
GPDF10A	Does the device support out-of-band configuration of operational channel?	[R4] A.3.9	GPDT0: O.27[23] (GPDT0 &&GPCF4: X)	NO
GPDF10B	Does the device support configuration of operational channel via channel toggling (GPD Commissioning command with RxAfterTx = 0b0)?	[R4] A.3.9	GPDT0: O.27 (GPDT0 &&GPCF4: X)	YES [22ter]
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 [22ter]
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
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 &&GPF9: O	NO
GPCF8	Does the device support transmission of the GPD Commissioning Reply command?	[R4] A.4.2.1.2	GPDT0: X	NO

22 O.26: DUT should implement exactly one of those methods. Hull test event comment #81 (ZigBee document docs-11-5603),

Added comments, out of factory DUT could support 2 commissioning method, the user chooses one and keeps it.

22bis O.26: DUT support pairing with Auto-Commissioning bit set to 0b1 only in the case details in page 1 of user guide.

22ter O.26: DUT support pairing with Commissioning GPDF only in the case details in page 2 of Legrand user guide.

23 O.27: device under test shall support at least one of the methods.

Item number	Item description	Reference	Status	Support
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 && GPF9: O	NO
GPCF10	Is GPD removal via GPD Decommissioning command supported?	[R4] A.4.2.1.3	GPDT0: O	YES[22ter]
GPCF11	Does the device come with pre-configured GPD key?	[R4] A.3.9	GPDT0 && (GPF5||GPF6||GPF7): O.28[24]	YES[22ter]
GPCF12A	Does the device support GPD key exchange in GPD Commissioning command?	[R4] A.3.9	GPDT0 && GPCF2: O GPDT0 && GPCF11: M	NO
GPCF12B	Does the device support exchange of encrypted GPD key in GPD Commissioning command?	[R4] A.3.9 [R4] A.1.5	GPDT0 && GPCF11: O	YES[22ter]
GPCF13A	Does the device support GPD key exchange in GPD Commissioning Reply command?	[R4] A.3.9	GPDT0 && (GPF5||GPF6||GPF7): O.28 GPDT0 && GPCF9: O	NO
GPCF13B	Does the device support exchange of encrypted GPD key in GPD Commissioning Reply command?	[R4] A.3.9 [R4] A.1.5	GPDT0 && GPCF13A: O	
GPCF14	Does the device support out-of-band GPD key configuration?	[R4] A.3.9	GPDT0 && (GPF5||GPF6||GPF7): O.28	
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	
GPCF15B	Does the device support reception of GPD Success command when in commissioning mode?	[R4] A.3.9 [R4] A.4.1	GPDT0: X	
GPCF16	Does the device support in-band configuration of PANId (via GPD Commissioning Reply command)?	[R4] A.3.9 [R4] A.4.2.1.2	GPDT0 && GPCF4: O	
GPCF100	Is writing into Sink Table attribute via generic ZCL command supported during commissioning mode?	[R4] A.3.3.2.2	GPDT0: X	
GPCF101	Is writing into Sink Table attribute via generic ZCL command supported during operational mode?	[R4] A.3.3.2.2	GPDT0: X	
GPCF102	Is writing into Proxy Table attribute via generic ZCL command supported during commissioning mode?	[R4] A.3.3.2.2	GPDT0: X	
GPCF103	Is writing into Proxy Table attribute via generic ZCL command supported during operational mode?	[R4] A.3.3.2.2	GPDT0: X	

[24] O.28: DUT shall support at least one of those options.

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
GPDTX20	Is transmission of GPD Off command supported?	[R4] A.4.3 [R4] A.4.1	GPD2: O.29[25]	YES
GPDTX21	Is transmission of GPD On command supported?	[R4] A.4.3 [R4] A.4.1	GPD2 && GPDTX20: M	YES
GPDTX22	Is transmission of GPD Toggle command supported?	[R4] A.4.3 [R4] A.4.1	GPD2: O.29	NO
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[26]	NO
GPDTX31	Is transmission of GPD Move Down command supported?	[R4] A.4.3 [R4] A.4.2.4	GPD3 && GPDTX30: M	NO
GPDTX32	Is transmission of GPD Step Up command supported?	[R4] A.4.3 [R4] A.4.2.4	GPD3: O.30	NO
GPDTX33	Is transmission of GPD Step Down command supported?	[R4] A.4.3 [R4] A.4.2.4	GPD3 && GPDTX32: M	NO
GPDTX34	Is transmission of GPD Stop command supported?	[R4] A.4.3 [R4] A.4.1	GPD3 && (GPDTX30 || GPDTX35): M	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&&GPDTX35: M	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&&GPDTX37: M	NO
GPDTX40	Is transmission of GPD Move Hue command supported?	[R4] A.4.3 [R4] A.4.2.5	GPD10: O.31[27]	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 && GPDTX41: M	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 && GPDTX43: M	NO
GPDTX45	Is transmission of GPD Move Saturation 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 && GPDTX46: M	NO
GPDTX48	Is transmission of GPD Step Saturation Up command supported?	[R4] A.4.3 [R4] A.4.2.5	GPD10: O.31	NO

[25] O.29: Device under test shall support only one of those options.
[26] O.30: Device under test has to implement exactly one of those commands
[27] O.31: Device under test has to implement exactly one of those commands

Item number	Item description	Reference	Status	Support
GPDTX49	Is transmission of GPD Step Saturation Down command supported?	[R4] A.4.3 [R4] A.4.2.5	GPD10 && GPDTX48: M	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: M	NO
GPDTX51	Is transmission of GPD Unlock Door command supported?	[R4] A.4.3 [R4] A.4.1	GPD20: M	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	NO
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	NO
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	NO
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	NO
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	NO
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	NO
GPDTX66	Is transmission of GPD Short press 1 of 1 command supported?	[R4] Table 43	GPD5: M	NO
GPDTX67	Is transmission of GPD Short press 1 of 2 command supported?	[R4] Table 43	GPD6: M	NO
GPDTX68	Is transmission of GPD Short press 2 of 2 command supported?	[R4] Table 43	GPD6: 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[28]	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

[28] O.32: Device under test shall implement at least one of those commands.

Item number	Item description	Reference	Status	Support
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

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

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	
AREP2	Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster?	[R4] A.4.3	GPD11: M GPD33: M	
AREP3	Does the GPD support reporting of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster?	[R4] A.4.3	GPD12: M	
AREP4	Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster?	[R4] A.4.3	GPD30: M GPD33: M	
AREP5	Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster?	[R4] A.4.3	GPD31: M	
AREP6	Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster?	[R4] A.4.3	GPD32: M	
AREP7	Does the GPD support reporting of the 0x0000: MeasuredValue attribute from Relative Humidity Measurement Cluster?	[R4] A.4.3	GPD33: M	

Table 19 – Readable ZigBee attributes per GPD device

Item number	Item description	Reference	Status	Support
AREAD1	Does the GPD support reading of the 0x0051: OutOfService attribute from Binary Input Cluster?	[R4] A.4.3	GPD4 && GPF102: M	
AREAD2	Does the GPD support reading of the 0x0055: PresentValue attribute from Binary Input Cluster?	[R4] A.4.3	GPD4 && GPF102: M	
AREAD3	Does the GPD support reading of the 0x006F: StatusFlags attribute from Binary Input Cluster?	[R4] A.4.3	GPD4 && GPF102: M	
AREAD4	Does the GPD support reading of the 0x0000: MeasuredValue attribute from Illuminance Measurement Cluster?	[R4] A.4.3	GPD11 && GPF102: M GPD33 && GPF102: M	
AREAD5	Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Illuminance Measurement Cluster?	[R4] A.4.3	GPD11 && GPF102: M GPD33 && GPF102: M	

Item number	Item description	Reference	Status	Support
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	
AREAD7	Does the GPD support reading of the 0x0000: Occupancy attribute from Occupancy Sensing Cluster?	[R4] A.4.3	GPD12 && GPF102: M	
AREAD8	Does the GPD support reading of the 0x0000: Occupancy Sensor Type attribute from Occupancy Sensing Cluster?	[R4] A.4.3	GPD12 && GPF102: M	
AREAD9	Does the GPD support reading of the 0x0000: MeasuredValue attribute from Temperature Measurement Cluster?	[R4] A.4.3	GPD30 && GPF102: M GPD33 && GPF102: M	
AREAD10	Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Temperature Measurement Cluster?	[R4] A.4.3	GPD30 && GPF102: M GPD33 && GPF102: M	
AREAD11	Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Temperature Measurement Cluster?	[R4] A.4.3	GPD30 && GPF102: M GPD33 && GPF102: M	
AREAD12	Does the GPD support reading of the 0x0000: MeasuredValue attribute from Pressure Measurement Cluster?	[R4] A.4.3	GPD31 && GPF102: M	
AREAD13	Does the GPD support reading of the 0x0000: MeasuredValue attribute from Flow Measurement Cluster?	[R4] A.4.3	GPD32 && GPF102: M GPD33 && GPF102: M	
AREAD14	Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Flow Measurement Cluster?	[R4] A.4.3	GPD32 && GPF102: M GPD33 && GPF102: M	
AREAD15	Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Flow Measurement Cluster?	[R4] A.4.3	GPD32 && GPF102: M GPD33 && GPF102: M	
AREAD16	Does the GPD support reading of the 0x0000: MeasuredValue attribute from Relative Humidity Cluster?	[R4] A.4.3	GPD33 && GPF102: M	
AREAD17	Does the GPD support reading of the 0x0001: MinMeasuredValue attribute from Relative Humidity Cluster?	[R4] A.4.3	GPD33 && GPF102: M	
AREAD18	Does the GPD support reading of the 0x0002: MaxMeasuredValue attribute from Relative Humidity Cluster?	[R4] A.4.3	GPD33 && GPF102: M	

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	