



Project Details

Project Name	WCH Bluetooth Mesh												
Product Type	Profile Subsystem												
TCRL Version:	TCRL 2019-2												
Referenced Qualified Design(s)													
Previously Qualified Design Used in this Qualification(s)													
Listing Date	2020-06-01												
Declaration ID	D050628												
Product Listing(s)	<table><thead><tr><th>Name</th><th>Website</th><th>Category</th><th>Publish Date</th><th>Model Number</th><th>Description</th></tr></thead><tbody><tr><td>WCH Bluetooth Mesh</td><td>http://wch.cn</td><td></td><td>6/1/2020 12:00:00 AM</td><td>1.2.x</td><td>WCH Bluetooth mesh is a wireless software component based on latest Mesh Profile that enables a mesh networking solution for Bluetooth low energy wireless technology. WCH Bluetooth mesh supports both provisioner and all node features. WCH Bluetooth Mesh can be used in smart home, smart building, smart lighting and other scenes.</td></tr></tbody></table>	Name	Website	Category	Publish Date	Model Number	Description	WCH Bluetooth Mesh	http://wch.cn		6/1/2020 12:00:00 AM	1.2.x	WCH Bluetooth mesh is a wireless software component based on latest Mesh Profile that enables a mesh networking solution for Bluetooth low energy wireless technology. WCH Bluetooth mesh supports both provisioner and all node features. WCH Bluetooth Mesh can be used in smart home, smart building, smart lighting and other scenes.
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WCH Bluetooth Mesh	http://wch.cn		6/1/2020 12:00:00 AM	1.2.x	WCH Bluetooth mesh is a wireless software component based on latest Mesh Profile that enables a mesh networking solution for Bluetooth low energy wireless technology. WCH Bluetooth mesh supports both provisioner and all node features. WCH Bluetooth Mesh can be used in smart home, smart building, smart lighting and other scenes.								

Member Company	Nanjing Qinheng Microelectronics Co., Ltd.												
Declaring Member Contact / Listing Contact Person	<table><tr><td>Name</td><td>Shuai Liu</td></tr><tr><td>Address</td><td>No.18, Ningshuang Road, Yuhuatai Area</td></tr><tr><td>City</td><td>Nanjing</td></tr><tr><td>State</td><td>Jiangsu</td></tr><tr><td>Country</td><td>China</td></tr><tr><td>Postal Code</td><td>210012</td></tr></table>	Name	Shuai Liu	Address	No.18, Ningshuang Road, Yuhuatai Area	City	Nanjing	State	Jiangsu	Country	China	Postal Code	210012
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Complete the Project and Submit Product(s) for Qualification

By typing my name or other symbol of my signature into the "Signature" field below, I agree on behalf of Nanjing Qinheng Microelectronics Co., Ltd. ("Company") to [Bluetooth Launch Studio Terms of Use](#), and I make the following representations and warranties personally and on behalf of Company. The following representations and warranties, together with all project information and the [Bluetooth Launch Studio Terms of Use](#), are the Supplier Declaration of Conformity and Declaration of Compliance described in the [Program Reference Document \(PRD\)](#) and [Declaration Process Document \(DPD\)](#).

- ☒ I am authorized by Company to submit all of the information included in this project and all information is complete and accurate.
- ☒ Company does not, by its governing documents or other applicable law, require more than one signatory, a stamp or seal, or a witnessed signature to be legally bound.
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☒ The product(s) included in this project and the corresponding Qualified Designs comply with the [Bluetooth Launch Studio Terms of Use](#).

If any of the foregoing is not correct or you do not agree, you must exit this form without signing.

Signature:

Yong Yang

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Effective Date: November 10th, 2017.

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Appendix A

Summary ICS

Table 21: Controller Core Configuration

Item	Capability	Reference	Support	Status	Comment
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Table 22: EDR Features

Item	Capability	Reference	Support	Status	Comment
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Table 31: Host Core Specification

Item	Capability	Reference	Support	Status	Comment
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Table 34: LE Host Specification Parts

Item	Capability	Reference	Support	Status	Comment
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Table 41: AMP Controller Core Specification

Item	Capability	Reference	Support	Status	Comment
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Table 42: AMP Controller Specification Parts

Item	Capability	Reference	Support	Status	Comment
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Table 51: Low Energy Controller Configuration

Item	Capability	Reference	Support	Status	Comment
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Table 52: Low Energy Host Core Specification

Item	Capability	Reference	Support	Status	Comment
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Product Type

Table 1: Product Types

Item	Capability	Reference	Support	Status	Comment
1/6	Profile Subsystem	Vol. 0 Part B	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory to support one and only one Product Type.

Table 2: Controller Core Configuration

Item	Capability	Reference	Support	Status	Comment
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Table 3: Host Core Configuration

Item	Capability	Reference	Support	Status	Comment
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Interoperability Test Specification

Table 1: Interoperability Test Specification

Item	Capability	Reference	Support	Status	Comment
1/1	Interoperability	IOP	M	☑	

Table 2: Design Configuration

Item	Capability	Reference	Support	Status	Comment
2/2	LE	GAP 0/2	C.1, C.2	☑	C.1: Mandatory to support at least one transport. C.2: Mandatory If IOP 2/3 "BR/EDR/LE" is Supported, otherwise Optional.

Mesh Profile

Table 0: Major Profile Version (X.Y)

Item	Capability	Reference	Support	Status	Comment
0/1	Mesh v1.0	[2]	M	☑	

Table 0a: Minor Profile Version (X.Y.Z)

Item	Capability	Reference	Support	Status	Comment
0a/1	Erratum 10395	[5]	C.1	☑	C.1: Mandatory IF MESH 0/1 “Mesh v1.0” is supported, otherwise Excluded.
0a/2	Mesh v1.0.1	[2]	C.2	☑	C.2: Optional IF MESH 0/1 “Mesh v1.0” is supported, otherwise Excluded.

Table 1: Bluetooth Core Specification v4.0 or Later

Item	Capability	Reference	Support	Status	Comment
1/1	Core Specification v4.0 or later	[1]	M	☑	

Table 2: Roles

Item	Capability	Reference	Support	Status	Comment
2/1	Node	[2] 2.3.11	C.1	☑	C.1: Mandatory to support at least one of MESH 2/1 “Node” OR MESH 2/2 “Provisioner”.
2/2	Provisioner	[2] 5	C.1	☑	C.1: Mandatory to support at least one of MESH 2/1 “Node” OR MESH 2/2 “Provisioner”.

Table 3: Node Capabilities - Bearers

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
3/1	Advertising Bearer	[2] 3.3.1	C.1	☑	C.1: Mandatory to support at least one of MESH 3/1 “Advertising Bearer “ OR MESH 3/2 “GATT Bearer”.
3/2	GATT Bearer	[2] 3.3.2	C.1	☑	C.1: Mandatory to support at least one of MESH 3/1 “Advertising Bearer “ OR MESH 3/2 “GATT Bearer”.

Table 4: Node Capabilities - Provisioning

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
4/1	PB-ADV	[2] 5.2.1	C.1	☑	C.1: Optional IF MESH 3/1 “Advertising Bearer” is supported, otherwise Excluded.
4/2	PB-GATT	[2] 5.2.2, 6.7.1	C.2	☑	C.2: Mandatory to support at least one of MESH 4/2 “PB-GATT” or MESH 12/5 “Proxy Client” IF MESH 3/2 “GATT Bearer” is supported, otherwise Excluded.
4/3	Device UUID	[2] 3.10.3	C.3	☑	C.3: Mandatory IF MESH 4/1 “PB-ADV” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded.
4/4	Sending Unprovisioned Device Beacon	[2] 3.9.2	C.4	☑	C.4: Mandatory IF MESH 4/1 “PB-ADV” is supported, otherwise Excluded.
4/5	Generic Provisioning Layer	[2] 5.3	C.3	☑	C.3: Mandatory IF MESH 4/1 “PB-ADV” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded.
4/6	Provisioning Protocol	[2] 5.4	C.3	☑	C.3: Mandatory IF MESH 4/1 “PB-ADV” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded.

(Provisioning Server)					
4/7	Provisioning: Public Key OOB	[2] 5.4.1.2	C.5	☑	C.5: Mandatory to support at least one of MESH 4/7 "Provisioning: Public Key OOB" OR MESH 4/8 "Provisioning: Public Key No OOB" IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/8	Provisioning: Public Key No OOB	[2] 5.4.1.2	C.5	☑	C.5: Mandatory to support at least one of MESH 4/7 "Provisioning: Public Key OOB" OR MESH 4/8 "Provisioning: Public Key No OOB" IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/9	Provisioning: Authentication Output OOB	[2] 5.4.1.2	C.6	☑	C.6: Optional IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/10	Provisioning: Authentication Input OOB	[2] 5.4.1.2	C.6	☑	C.6: Optional IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/11	Provisioning: Authentication Static OOB	[2] 5.4.1.2	C.6	☑	C.6: Optional IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
4/12	Provisioning: Authentication No OOB	[2] 5.4.1.2	C.3	☑	C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.

Table 5: Node Capabilities – Network Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
5/1	Transmitting and Receiving Secured Network Layer Messages	[2] 3.4.6.2, 3.4.6.3	M	☑	
5/2	Relay Feature	[2] 3.4.6.1	C.1	☑	C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
5/3	Network Message Cache	[2] 3.4.6.4	C.2	☑	C.2: Mandatory IF MESH 5/2 "Relay Feature" is supported, otherwise Excluded.
5/4	Multiple Subnet Support	[2] 2.2.1	O	☑	

Table 6: Node Capabilities – Lower Transport Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
6/1	Transmitting and Receiving a Lower Transport PDU	[2] 3.5.4.1, 3.5.4.2	M	☑	
6/2	Segmentation and Reassembly Behavior	[2] 3.5.3.3, 3.5.3.4	M	☑	
6/3	Friend Cache	[2] 3.5.5	C.1	☑	C.1: Mandatory IF MESH 7/3 "Friend Feature" is supported, otherwise Excluded.

Table 7: Upper Transport Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
7/1	Transmitting a Secured Access Payload	[2] 3.6.4.1	M	☑	
7/2	Receiving a Secured Upper Transport PDU	[2] 3.6.4.2	M	☑	
7/3	Friend Feature	[2] 3.6.6.3	C.1	☑	C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
7/4	Low Power Feature	[2] 3.6.6.4	C.1	☑	C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
7/5	Heartbeat	[2] 3.6.7	M	☑	

Table 8: Node Capabilities – Access Layer

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
8/1	Transmitting and Receiving an Access Layer Message	[2] 3.7.4.1	M	☑	

Table 9: Node Capabilities – Security

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
9/1	Message Replay Protection	[2] 3.8.7	M	☑	

Table 10: Node Capabilities – Mesh Management

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
10/1	Secure Network Beacon	[2] 3.9.3	M	☑	
10/2	Key Refresh Procedure	[2] 3.10.4	M	☑	
10/3	IV Update Procedure	[2] 3.10.5	M	☑	
10/4	IV Index Recovery Procedure	[2] 3.10.6	M	☑	

Table 11: Node Capabilities – Foundation Mesh Models

Prerequisite: MESH 2/1

Item	Capability	Reference	Support	Status	Comment
11/1	Configuration Server Model	[2] 4.4.1	M	☑	
11/2	Health Server Model	[2] 4.4.3	M	☑	
11/3	Configuration Client Model	[2] 4.4.2	O	☑	
11/4	Health Client Model	[2] 4.4.4	O	☑	

Table 12: Node Capabilities – Proxy

Item	Capability	Reference	Support	Status	Comment
12/1	Proxy Server	[2] 6.2, 6.6	C.1	☑	C.1: Optional IF MESH 3/1 “Advertising Bearer” is supported, otherwise Excluded.
12/2	GATT Server	[3] GATT 1/2	C.2	☑	C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded.
12/3	Advertising with Network ID	[2] 7.2.2.2.2	C.2	☑	C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded.
12/4	Advertising with Node Identity	[2] 7.2.2.2.3	C.2	☑	C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded.
12/5	Proxy Client	[2] 6.2, 6.7	C.3	☑	C.3: Mandatory to support at least one of MESH 4/2 “PB-GATT” or MESH 12/5 “Proxy Client” IF MESH 3/2 “GATT Bearer” is supported, otherwise Excluded.
12/6	GATT Client	[3] GATT 1/1	C.4	☑	C.4: Mandatory IF MESH 12/5 “Proxy Client” is supported, otherwise Excluded.

Table 13: Mesh GATT Services

Prerequisite: MESH 12/2

Item	Capability	Reference	Support	Status	Comment
13/1	Mesh Provisioning Service	[2] 7.1	C.1	☑	C.1: Mandatory IF MESH 4/2 “PB-GATT” is supported, otherwise Excluded.
13/2	Mesh Proxy Service	[2] 7.2	C.2	☑	C.2: Mandatory IF MESH 12/1 “Proxy Server” is supported, otherwise Excluded.

Table 14: GATT Server Requirements

Prerequisite: MESH 12/2

Item	Capability	Reference	Support	Status	Comment
14/1	Discover All Primary Services	[3] GATT 4M/2	M	☑	
14/2	Discover Primary Services by Service UUID	[3] GATT 4/3	M	☑	
14/3	Write without Response	[3] GATT 4/12	M	☑	
14/4	Notifications	[3] GATT 4/17	M	☑	
14/5	Write Characteristic Descriptors	[3] GATT 4/21	M	☑	

Table 15: GATT Client Requirements

Prerequisite: MESH 12/6

Item	Capability	Reference	Support	Status	Comment
15/1	Discover All Primary Services	[3] GATT 3/2	C.1	☑	C.1: Mandatory to support at least one of MESH 15/1 "Discover All Primary Services" OR MESH 15/2 "Discover Primary Services by Service UUID".
15/2	Discover Primary Services by Service UUID	[3] GATT 3/3	C.1	☑	C.1: Mandatory to support at least one of MESH 15/1 "Discover All Primary Services" OR MESH 15/2 "Discover Primary Services by Service UUID".
15/3	Write without Response	[3] GATT 3/12	M	☑	
15/4	Notifications	[3] GATT 3/17	M	☑	
15/5	Write Characteristic Descriptors	[3] GATT 3/21	M	☑	

Table 16: GAP Requirements

Prerequisite: MESH 2/1 "Node"

Item	Capability	Reference	Support	Status	Comment
16/1	Broadcaster	[2] 3.3.1 [4] GAP 5/1 OR GAP 38/1	C.1	☑	C.1: Mandatory IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
16/2	Observer	[2] 3.3.1 [4] GAP 5/2 OR GAP 38/2	C.1	☑	C.1: Mandatory IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded.
16/3	Peripheral	[2] 3.3.2, 7.1.1, 7.2.1, 7.2.2.2.1 [4] GAP 5/3 OR GAP 38/3	C.2	☑	C.2: Mandatory IF MESH 12/1 "Proxy Server" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
16/4	Peripheral – Security Mode 1	[4] GAP 25/4	C.2	☑	C.2: Mandatory IF MESH 12/1 "Proxy Server" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded.
16/5	Central	[2] 3.3.2, 7.1.1, 7.2.1, [4] GAP 5/4 OR GAP 38/4	C.3	☑	C.3: Mandatory IF MESH 12/5 "Proxy Client" is supported, otherwise Excluded.
16/6	Central – Security Mode 1	[4] GAP 35/4	C.3	☑	C.3: Mandatory IF MESH 12/5 "Proxy Client" is supported, otherwise Excluded.

Table 17: Provisioner – Bearers

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
17/1	Advertising Bearer	[2] 3.3.1	C.1	☑	C.1: Mandatory to support at least one of the MESH 17/1 "Advertising Bearer" OR MESH 17/2 "GATT Bearer".
17/2	GATT Bearer	[2] 3.3.2	C.1	☑	C.1: Mandatory to support at least one of the MESH 17/1 "Advertising Bearer" OR MESH 17/2 "GATT Bearer".

Table 18: Provisioner – Provisioning

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
18/1	Receiving Unprovisioned Device Beacon	[2] 3.9.2	C.1	☑	C.1: Mandatory to support IF MESH 17/1 "Advertising bearer" is supported, otherwise Excluded.
18/2	PB-ADV	[2] 5.2.1	C.1	☑	C.1: Mandatory to support IF MESH 17/1 "Advertising bearer" is supported, otherwise Excluded.
18/3	Generic Provisioning Layer	[2] 5.3	M	☑	
18/4	Provisioning Protocol (Provisioning Client)	[2] 5.4	M	☑	
18/5	PB-GATT	[2] 5.2.2, 6, 7.1	C.2	☑	C.2: Mandatory to support IF MESH 17/2 "GATT bearer" is supported, otherwise Excluded.
18/6	GATT Client	[3] GATT 1/2	C.2	☑	C.2: Mandatory to support IF MESH 17/2 "GATT bearer" is supported, otherwise Excluded.
18/7	Provisioning: Public Key OOB	[2] 5.4.1.2	M	☑	
18/8	Provisioning: Public Key No OOB	[2] 5.4.1.2	M	☑	
18/9	Provisioning: Authentication Output OOB	[2] 5.4.1.2	M	☑	
18/10	Provisioning: Authentication Input OOB	[2] 5.4.1.2	M	☑	

18/11	Provisioning: Authentication Static or No OOB	[2] 5.4.1.2, 5.4.3	M	☑
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Table 19: Provisioner – Mesh Management

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
19/1	Receiving Secure Network Beacon	[2] 2.9.3	M	☑	

Table 20: GATT Client Requirements

Prerequisite: MESH 18/6

Item	Capability	Reference	Support	Status	Comment
20/1	Discover All Primary Services	[3] GATT 3/2	C.1	☑	C.1: Mandatory to support at least one of MESH 20/1 “Discover All Primary Services” and MESH 20/2 “Discover Primary Services by Service UUID”.
20/2	Discover Primary Services by Service UUID	[3] GATT 3/3	C.1	☑	C.1: Mandatory to support at least one of MESH 20/1 “Discover All Primary Services” and MESH 20/2 “Discover Primary Services by Service UUID”.
20/3	Write without Response	[3] GATT 3/12	M	☑	
20/4	Notifications	[3] GATT 3/17	M	☑	
20/5	Write Characteristic Descriptors	[3] GATT 3/21	M	☑	

Table 21: GAP Requirements

Prerequisite: MESH 2/2

Item	Capability	Reference	Support	Status	Comment
21/1	Broadcaster	[2] 3.3.1 [4] GAP 5/1 OR GAP 38/1	C.1	☑	C.1: Mandatory IF MESH 17/1 “Advertising Bearer” is supported, otherwise Excluded.
21/2	Observer	[2] 3.3.1 [4] GAP 5/2 OR GAP 38/2	C.1	☑	C.1: Mandatory IF MESH 17/1 “Advertising Bearer” is supported, otherwise Excluded.
21/3	Central	[2] 3.3.2, 7.1.1, 7.2.1, [4] GAP 5/4 OR GAP 38/4	C.2	☑	C.2: Mandatory IF MESH 17/2 “GATT Bearer” is supported, otherwise Excluded.
21/4	Central - Security Mode 1	[4] GAP 35/4	C.2	☑	C.2: Mandatory IF MESH 17/2 “GATT Bearer” is supported, otherwise Excluded.

Mesh Model

Table 0a: Mesh Specification Versions

Item	Capability	Reference	Support	Status	Comment
0a/1	Mesh Specification v1.0	[3]	M	☑	

Table 0b: Mesh Model Major Specification Versions

Item	Capability	Reference	Support	Status	Comment
0b/1	Mesh Model Specification v1.0	[2]	M	☑	

Table 0c: Mesh Model Minor Specification Versions

Item	Capability	Reference	Support	Status	Comment
0c/1	Mesh Model Specification v1.0.1	[2]	C.1	☑	C.1: Optional IF MMDL 0b/1 "Mesh Model Specification v1.0" is supported, otherwise Excluded.

Table 1: Bluetooth Core Specification Versions

Item	Capability	Reference	Support	Status	Comment
1/1	Core Specification 4.0 or later	[1]	M	☑	

Table 2: Generic Server Models

Item	Capability	Reference	Support	Status	Comment
2/1	Generic OnOff Server	[2] 3.3.1	O	☑	
2/2	Generic Level Server	[2] 3.3.2	O	☑	
2/3	Generic Default Transition Time Client	[2] 3.3.3	O	☑	
2/4	Generic Power OnOff Server	[2] 3.3.4	C.1	☑	C.1: Optional IF MMDL 2/1 “Generic OnOff Server” is supported, otherwise Excluded.
2/5	Generic Power OnOff Setup Server	[2] 3.3.5	C.2	☑	C.2: Mandatory IF MMDL 2/3 “Generic Default Transition Timer Server” AND MMDL 2/4 “Generic Power OnOff Server” are supported, otherwise Excluded.
2/6	Generic Power Level Server	[2] 3.3.6	C.3	☑	C.3: Optional IF MMDL 2/2 “Generic Level Server” AND MMDL 2/4 “Generic Power OnOff Server” are supported, otherwise Excluded.
2/7	Generic Power Level Setup Server	[2] 3.3.7	C.4	☑	C.4: Mandatory IF MMDL 2/5 “Generic Power OnOff Setup Server” AND MMDL 2/6 “Generic Power Level Server” are supported, otherwise Excluded.
2/8	Generic Battery Server	[2] 3.3.8	O	☑	
2/9	Generic Location Server	[2] 3.3.9	O	☑	
2/10	Generic Location Setup Server	[2] 3.3.10	C.5	☑	C.5: Mandatory IF MMDL 2/9 “Generic Location Server” is supported, otherwise Excluded.
2/11	Generic User Property Server	[2] 3.3.11	O	☑	
2/12	Generic Admin Property Server	[2] 3.3.12	C.6	☑	C.6: Optional IF MMDL 2/11 “Generic User Property Server” is supported, otherwise Excluded.
2/13	Generic Manufacturer Property Server	[2] 3.3.13	C.6	☑	C.6: Optional IF MMDL 2/11 “Generic User Property Server” is supported, otherwise Excluded.
2/14	Generic Client Property Server	[2] 3.3.14	O	☑	

Table 3: Generic Client Models

Item	Capability	Reference	Support	Status	Comment
3/1	Generic OnOff Client	[2] 3.4.1	O	☑	
3/2	Generic Level Client	[2] 3.4.2	O	☑	
3/3	Generic Default Transition Time Client	[2] 3.4.3	O	☑	
3/4	Generic Power OnOff Client	[2] 3.4.4	O	☑	
3/5	Generic Power Level Client	[2] 3.4.5	O	☑	
3/6	Generic Battery Client	[2] 3.4.6	O	☑	
3/7	Generic Location Client	[2] 3.4.7	O	☑	
3/8	Generic Property Client	[2] 3.4.8	O	☑	

Table 4: Generic OnOff Client

Prerequisite: MMDL 3/1 “Generic OnOff Client”

Item	Capability	Reference	Support	Status	Comment
4/1	Generic OnOff Get/Status	[2] 3.4.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 4/1 “Generic OnOff Get/Status” OR MMDL 4/2 “Generic OnOff Set/Status” OR MMDL 4/3 “Generic OnOff Set Unacknowledged”.
4/2	Generic OnOff Set/Status	[2] 3.4.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 4/1 “Generic OnOff Get/Status” OR MMDL 4/2 “Generic OnOff Set/Status” OR MMDL 4/3 “Generic OnOff Set Unacknowledged”.
4/3	Generic OnOff Set Unacknowledged	[2] 3.4.1.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 4/1 “Generic OnOff Get/Status” OR MMDL 4/2 “Generic OnOff Set/Status” OR MMDL 4/3 “Generic OnOff Set Unacknowledged”.

Table 5: Generic Level Client

Prerequisite: MMDL 3/2

Item	Capability	Reference	Support	Status	Comment
5/1	Generic Level	[2] 3.4.2.2	C.1		C.1: Mandatory to support at least one of MMDL 5/1 “Generic Level Get/Status” OR MMDL 5/2 “Generic

	Get/Status				Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/2	Generic Level Set/Status	[2] 3.4.2.2	C.1		C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/3	Generic Level Set Unacknowledged	[2] 3.4.2.2	C.1		C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/4	Generic Delta Set/Status	[2] 3.4.2.2	C.1		C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/5	Generic Delta Set Unacknowledged	[2] 3.4.2.2	C.1		C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/6	Generic Move Set/Status	[2] 3.4.2.2	C.1		C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".
5/7	Generic Move Set Unacknowledged	[2] 3.4.2.2	C.1		C.1: Mandatory to support at least one of MMDL 5/1 "Generic Level Get/Status" OR MMDL 5/2 "Generic Level Set/Status" OR MMDL 5/3 "Generic Level Set Unacknowledged" OR MMDL 5/4 "Generic Delta Set/Status" OR MMDL 5/5 "Generic Delta Set Unacknowledged" OR MMDL 5/6 "Generic Move Set/Status" OR MMDL 5/7 "Generic Move Set Unacknowledged".

[illegible]

Prerequisite: MMDL 3/7

					MMDL 9/6 "Generic Location Local Set Unacknowledged".
9/5	Generic Location Local Set/Status	[2] 3.4.7.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 9/1 "Generic Location Global Get/Status" OR MMDL 9/2 "Generic Location Global Set/Status" OR MMDL 9/3 "Generic Location Global Set Unacknowledged" OR MMDL 9/4 "Generic Location Local Get/Status" OR MMDL 9/5 "Generic Location Local Set/Status" OR MMDL 9/6 "Generic Location Local Set Unacknowledged".
9/6	Generic Location Local Set Unacknowledged	[2] 3.4.7.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 9/1 "Generic Location Global Get/Status" OR MMDL 9/2 "Generic Location Global Set/Status" OR MMDL 9/3 "Generic Location Global Set Unacknowledged" OR MMDL 9/4 "Generic Location Local Get/Status" OR MMDL 9/5 "Generic Location Local Set/Status" OR MMDL 9/6 "Generic Location Local Set Unacknowledged".

[illegible]

Item	Capability	Reference	Support	Status	Comment
11/1	Sensor Server	[2] 4.3.1	O	<input checked="" type="checkbox"/>	
11/2	Sensor Setup Server	[2] 4.3.2	C.1	<input checked="" type="checkbox"/>	C.1: Mandatory IF MMDL 11/1 "Sensor Server" is supported, otherwise Excluded.

Item	Capability	Reference	Support	Status	Comment
12/1	Sensor Client	[2] 4.4.1	O	<input checked="" type="checkbox"/>	

Prerequisite: MMDL 12/1

Get/Status" OR MMDL 13/11 "Sensor Series Get/Status".

[illegible]

Table 14: Time and Scenes Server Models

Item	Capability	Reference	Support	Status	Comment
14/1	Time Server	[2] 5.3.1	O	☑	
14/2	Time Setup Server	[2] 5.3.2	C.1	☑	C.1: Mandatory IF MMDL 14/1 "Time Server" is supported, otherwise Excluded.

Unacknowledged	Get/Status" OR MMDL 17/3 "Scene Store/Status" OR MMDL 17/4 "Scene Store Unacknowledged" OR MMDL 17/5 "Scene Recall/Status" OR MMDL 17/6 "Scene Recall Unacknowledged".
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Table 18: Scheduler Client

Prerequisite: MMDL 15/3

Item	Capability	Reference	Support	Status	Comment
18/1	Scheduler Get/Status	[2] 5.4.3.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 18/1 "Scheduler Get/Status" OR MMDL 18/2 "Scheduler Action Get/Status" OR MMDL 18/3 "Scheduler Action Set/Status" OR MMDL 18/4 "Scheduler Action Set Unacknowledged".
18/2	Scheduler Action Get/Status	[2] 5.4.3.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 18/1 "Scheduler Get/Status" OR MMDL 18/2 "Scheduler Action Get/Status" OR MMDL 18/3 "Scheduler Action Set/Status" OR MMDL 18/4 "Scheduler Action Set Unacknowledged".
18/3	Scheduler Action Set/Status	[2] 5.4.3.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 18/1 "Scheduler Get/Status" OR MMDL 18/2 "Scheduler Action Get/Status" OR MMDL 18/3 "Scheduler Action Set/Status" OR MMDL 18/4 "Scheduler Action Set Unacknowledged".
18/4	Scheduler Action Set Unacknowledged	[2] 5.4.3.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 18/1 "Scheduler Get/Status" OR MMDL 18/2 "Scheduler Action Get/Status" OR MMDL 18/3 "Scheduler Action Set/Status" OR MMDL 18/4 "Scheduler Action Set Unacknowledged".

Table 19: Lighting Server Models

Item	Capability	Reference	Support	Status	Comment
19/1	Light Lightness Server	[2] 6.4.1	C.1	☑	C.1: Optional IF MMDL 2/2 "Generic Lever Server" AND MMDL 2/4 "Generic Power OnOff Server" are supported, otherwise Excluded.
19/2	Light Lightness Setup Server	[2] 6.4.2	C.2	☑	C.2: Mandatory IF MMDL 2/5 "Generic Power OnOff Setup Server" AND MMDL 19/1 "Light Lightness Server" are supported, otherwise Excluded.
19/3	Light CTL Server	[2] 6.4.3	C.3	☑	C.3: Optional IF MMDL 19/1 "Light Lightness Server" is supported, otherwise Excluded.
19/4	Light CTL Temperature Server	[2] 6.4.4	C.4	☑	C.4: Mandatory IF MMDL 19/3 "Light CTL Server" is supported, otherwise Excluded.
19/5	Light CTL Setup Server	[2] 6.4.5	C.5	☑	C.5: Mandatory IF MMDL 19/2 "Light Lightness Setup Server" AND MMDL 19/3 "Light CTL Server" are supported, otherwise Excluded.
19/6	Light HSL Server	[2] 6.4.6	C.3	☑	C.3: Optional IF MMDL 19/1 "Light Lightness Server" is supported, otherwise Excluded.
19/7	Light HSL Hue Server	[2] 6.4.7	C.6	☑	C.6: Mandatory IF MMDL 19/6 "Light HSL Server" is supported, otherwise Excluded.
19/8	Light HSL Saturation Server	[2] 6.4.8	C.6	☑	C.6: Mandatory IF MMDL 19/6 "Light HSL Server" is supported, otherwise Excluded.
19/9	Light HSL Setup Server	[2] 6.4.9	C.7	☑	C.7: Mandatory IF MMDL 19/2 "Light Lightness Setup Server" AND MMDL 19/6 "Light HSL Server" are supported, otherwise Excluded.
19/10	Light xyL Server	[2] 6.4.10	C.3	☑	C.3: Optional IF MMDL 19/1 "Light Lightness Server" is supported, otherwise Excluded.
19/11	Light xyL Setup Server	[2] 6.4.11	C.8	☑	C.8: Mandatory IF MMDL 19/2 "Light Lightness Setup Server" AND MMDL 19/10 "Light xyL Server" are supported, otherwise Excluded.

Table 20: Lighting Control Models

Item	Capability	Reference	Support	Status	Comment
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Table 21: Lighting Client Models

Item	Capability	Reference	Support	Status	Comment
21/1	Light Lightness Client	[2] 6.6.1	O	☑	
21/2	Light CTL Client	[2] 6.6.2	O	☑	
21/3	Light HSL Client	[2] 6.6.3	O	☑	
21/4	Light xyL Client	[2] 6.6.4	O	☑	
21/5	Light LC Client	[2] 6.6.5	O	☑	

Table 22: Light Lightness Client

Prerequisite: MMDL 21/1

[illegible]

22/10	Light Lightness Default Set Unacknowledged	[2] 6.6.1.5	C.1	☑	C.1: Mandatory to support at least one of MMDL 22/1 "Light Lightness Get/Status" OR MMDL 22/2 "Light Lightness Set/Status" OR MMDL 22/3 "Light Lightness Set Unacknowledged" OR MMDL 22/4 "Light Lightness Linear Get/Status" OR MMDL 22/5 "Light Lightness Linear Set/Status" OR MMDL 22/6 "Light Lightness Linear Set Unacknowledged" OR MMDL 22/7 "Light Lightness Last Get/Status" OR MMDL 22/8 "Light Lightness Default Get/Status" OR MMDL 22/9 "Light Lightness Default Set/Status" OR MMDL 22/10 "Light Lightness Default Set Unacknowledged" OR MMDL 22/11 "Light Lightness Range Get/Status" OR MMDL 22/12 "Light Lightness Range Set/Status" OR MMDL 22/13 "Light Lightness Range Set Unacknowledged".
22/11	Light Lightness Range Get/Status	[2] 6.6.1.6	C.1	☑	C.1: Mandatory to support at least one of MMDL 22/1 "Light Lightness Get/Status" OR MMDL 22/2 "Light Lightness Set/Status" OR MMDL 22/3 "Light Lightness Set Unacknowledged" OR MMDL 22/4 "Light Lightness Linear Get/Status" OR MMDL 22/5 "Light Lightness Linear Set/Status" OR MMDL 22/6 "Light Lightness Linear Set Unacknowledged" OR MMDL 22/7 "Light Lightness Last Get/Status" OR MMDL 22/8 "Light Lightness Default Get/Status" OR MMDL 22/9 "Light Lightness Default Set/Status" OR MMDL 22/10 "Light Lightness Default Set Unacknowledged" OR MMDL 22/11 "Light Lightness Range Get/Status" OR MMDL 22/12 "Light Lightness Range Set/Status" OR MMDL 22/13 "Light Lightness Range Set Unacknowledged".
22/12	Light Lightness Range Set/Status	[2] 6.6.1.6	C.1	☑	C.1: Mandatory to support at least one of MMDL 22/1 "Light Lightness Get/Status" OR MMDL 22/2 "Light Lightness Set/Status" OR MMDL 22/3 "Light Lightness Set Unacknowledged" OR MMDL 22/4 "Light Lightness Linear Get/Status" OR MMDL 22/5 "Light Lightness Linear Set/Status" OR MMDL 22/6 "Light Lightness Linear Set Unacknowledged" OR MMDL 22/7 "Light Lightness Last Get/Status" OR MMDL 22/8 "Light Lightness Default Get/Status" OR MMDL 22/9 "Light Lightness Default Set/Status" OR MMDL 22/10 "Light Lightness Default Set Unacknowledged" OR MMDL 22/11 "Light Lightness Range Get/Status" OR MMDL 22/12 "Light Lightness Range Set/Status" OR MMDL 22/13 "Light Lightness Range Set Unacknowledged".
22/13	Light Lightness Range Set Unacknowledged	[2] 6.6.1.6	C.1	☑	C.1: Mandatory to support at least one of MMDL 22/1 "Light Lightness Get/Status" OR MMDL 22/2 "Light Lightness Set/Status" OR MMDL 22/3 "Light Lightness Set Unacknowledged" OR MMDL 22/4 "Light Lightness Linear Get/Status" OR MMDL 22/5 "Light Lightness Linear Set/Status" OR MMDL 22/6 "Light Lightness Linear Set Unacknowledged" OR MMDL 22/7 "Light Lightness Last Get/Status" OR MMDL 22/8 "Light Lightness Default Get/Status" OR MMDL 22/9 "Light Lightness Default Set/Status" OR MMDL 22/10 "Light Lightness Default Set Unacknowledged" OR MMDL 22/11 "Light Lightness Range Get/Status" OR MMDL 22/12 "Light Lightness Range Set/Status" OR MMDL 22/13 "Light Lightness Range Set Unacknowledged".

[illegible]

[illegible]


[illegible]

Table 26: Light LC Client

Prerequisite: MMDL 21/5

Item	Capability	Reference	Support	Status	Comment
26/1	Light LC Mode Get/Status	[2] 6.6.5.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 26/1 "Light LC Mode Get/Status" OR MMDL 26/2 "Light LC Mode Set/Status" OR MMDL 26/3 "Light LC Mode Set Unacknowledged" OR MMDL 26/4 "Light LC OM Get/Status" OR MMDL 26/5 "Light LC OM Set/Status" OR MMDL 26/6 "Light LC OM Set Unacknowledged" OR MMDL 26/7 "Light LC Light OnOff Get/Status" OR MMDL 26/8 "Light LC Light OnOff Set/Status" OR MMDL 26/9 "Light LC Light OnOff Set Unacknowledged" OR MMDL 26/10 "Light LC Property Get/Status" OR MMDL 26/11 "Light LC Property Set/Status" OR MMDL 26/12 "Light LC Property Set Unacknowledged".
26/2	Light LC Mode Set/Status	[2] 6.6.5.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 26/1 "Light LC Mode Get/Status" OR MMDL 26/2 "Light LC Mode Set/Status" OR MMDL 26/3 "Light LC Mode Set Unacknowledged" OR MMDL 26/4 "Light LC OM Get/Status" OR MMDL 26/5 "Light LC OM Set/Status" OR MMDL 26/6 "Light LC OM Set Unacknowledged" OR MMDL 26/7 "Light LC Light OnOff Get/Status" OR MMDL 26/8 "Light LC Light OnOff Set/Status" OR MMDL 26/9 "Light LC Light OnOff Set Unacknowledged" OR MMDL 26/10 "Light LC Property Get/Status" OR MMDL 26/11 "Light LC Property Set/Status" OR MMDL 26/12 "Light LC Property Set Unacknowledged".
26/3	Light LC Mode Set Unacknowledged	[2] 6.6.5.2	C.1	☑	C.1: Mandatory to support at least one of MMDL 26/1 "Light LC Mode Get/Status" OR MMDL 26/2 "Light LC Mode Set/Status" OR MMDL 26/3 "Light LC Mode Set Unacknowledged" OR MMDL 26/4 "Light LC OM Get/Status" OR MMDL 26/5 "Light LC OM Set/Status" OR MMDL 26/6 "Light LC OM Set Unacknowledged" OR MMDL 26/7 "Light LC Light OnOff Get/Status" OR MMDL 26/8 "Light LC Light OnOff Set/Status" OR MMDL 26/9 "Light LC Light OnOff Set Unacknowledged" OR MMDL 26/10 "Light LC Property Get/Status" OR MMDL 26/11 "Light LC Property Set/Status" OR MMDL 26/12 "Light LC Property Set Unacknowledged".
26/4	Light LC OM Get/Status	[2] 6.6.5.3	C.1	☑	C.1: Mandatory to support at least one of MMDL 26/1 "Light LC Mode Get/Status" OR MMDL 26/2 "Light LC Mode Set/Status" OR MMDL 26/3 "Light LC Mode Set Unacknowledged" OR MMDL 26/4 "Light LC OM Get/Status" OR MMDL 26/5 "Light LC OM Set/Status" OR MMDL 26/6 "Light LC OM Set Unacknowledged" OR MMDL 26/7 "Light LC Light OnOff Get/Status" OR MMDL 26/8 "Light LC Light OnOff Set/Status" OR MMDL 26/9 "Light LC Light OnOff Set Unacknowledged" OR MMDL 26/10 "Light LC Property Get/Status" OR MMDL 26/11 "Light LC Property Set/Status" OR MMDL 26/12 "Light LC Property Set Unacknowledged".

[illegible]

Item	Capability	Reference	Support	Status	Comment
27/2	Generic Level State on Secondary Elements	[2] 6.4.3, 6.4.6	C.2		C.2: Mandatory IF MMDL 19/3 ?ight CTL Server?OR MMDL 19/6 ?ight HSL Server?are supported, otherwise Optional.