

Mesh Protocol (MESH)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

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Contents

1	Identification of the implementation	4
1.1	Implementation Under Test (IUT) identification	4
1.2	Roles and versions	5
1.3	Transports	5
1.4	Node role	6
1.4.1	Node	6
1.4.2	Mesh GATT services	10
1.4.3	GATT server requirements	10
1.4.4	GATT client requirements	11
1.4.5	GAP requirements	11
1.5	Provisioner role	12
1.5.1	Provisioner	12
1.5.2	GATT client requirements	13
1.5.3	GAP requirements	13
2	References	14
3	Revision history and acknowledgments	15

1 Identification of the implementation

1.1 Implementation Under Test (IUT) identification

Identification of the Implementation Under Test (IUT) is to be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma is named in the Declaration of Compliance: Summary of Selected Specifications in Implementation.

1.2 Roles and versions

Table 0: X.Y Versions

Item	Version	Reference	Status
1	Mesh v1.0	[1]	C.1
2	Mesh v1.1	[6]	C.1

C.1: Mandatory to support one and only one version.

Table 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	Erratum 10395	[4]	C.1
2	Mesh v1.0.1	[1]	C.2
3	Erratum 16350	[5]	C.1

C.1: Mandatory IF MESH 0/1 “Mesh v1.0”, otherwise Excluded.

C.2: Optional IF MESH 0/1 “Mesh v1.0”, otherwise Excluded.

Table 1: Table no longer used.

Table 2: Role Requirements

Item	Roles	Reference	Status
1	Node	[1] 2.2.2	C.1
2	Provisioner	[1] 5	C.1
3	Unprovisioned device	[1] 5	C.2

C.1: Mandatory to support at least one.

C.2: Optional IF MESH 2/1 “Node”, otherwise Excluded.

1.3 Transports

Table 1a: Transport Requirements

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.6	C.1
2	Profile supported over LE	[1] 2.6	M

C.1: Excluded for this Profile.

1.4 Node role

1.4.1 Node

Table 3: Node Capabilities - Bearers

Prerequisite: MESH 2/1 “Node”

Item	Capability	Reference	Status
1	Advertising Bearer	[1] 3.3.1	C.1
2	GATT Bearer	[1] 3.3.2	C.1

C.1: Mandatory to support at least one.

Table 4: Node Capabilities - Provisioning

Prerequisite: MESH 2/3 “Unprovisioned device”

Item	Capability	Reference	Status
1	PB-ADV Server	[1] 5.2.1	C.1
2	PB-GATT Server	[1] 5.2.2, 6.7	C.1
3	Device UUID	[1] 3.10.3 [6] 3.11.3	M
4	Sending Unprovisioned Device Beacon	[1] 3.9.2 [6] 3.10.2	C.2
5	Generic Provisioning Layer	[1] 5.3	M
6	Provisioning Protocol (Provisioning Server)	[1] 5.4	M
7	Provisioning: Public Key OOB	[1] 5.4.1.2	O
8	Provisioning: Public Key No OOB	[1] 5.4.1.2	M
9	Provisioning: Authentication Output OOB	[1] 5.4.1.2	O
10	Provisioning: Authentication Input OOB	[1] 5.4.1.2	O
11	Provisioning: Authentication Static OOB	[1] 5.4.1.2	O
12	Provisioning: Authentication No OOB	[1] 5.4.1.2	M
13	Provisioning algorithm: ECDH_P256 + CMAC_AES128 + CCM_AES128	[1] 5.4.1.2, 5.4.2.4.1	C.3
14	Provisioning algorithm: ECDH_P256 + HMAC_SHA256 + CCM_AES128	[6] 5.4.1.2, 5.4.2.4.1	C.4
15	Node Provisioning Protocol Interface	[6] 3.11.8	C.5
16	Node Address Refresh Procedure	[6] 3.11.8.5	C.5
17	Node Composition Refresh Procedure	[6] 3.11.8.6	C.5
18	Certificate-based Provisioning	[6] 5.5	C.6
19	Provisioning Records	[6] 5.4.2.6	C.7
20	Provisioning: Certificates available over HTTPS	[6] 5.5	C.8
21	Provisioning: Certificates available in-band	[6] 5.5	C.8

C.1: Mandatory to support at least one.

C.2: Mandatory IF MESH 4/1 “PB-ADV Server”, otherwise Excluded.

C.3: Mandatory IF MESH 0/1 “Mesh v1.0”, otherwise Optional.



- C.4: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Mandatory.
- C.5: Mandatory IF MESH 11/11 “Remote Provisioning Server Model”, otherwise Excluded.
- C.6: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional.
- C.7: Mandatory IF MESH 4/18 “Certificate-based Provisioning”, otherwise Optional.
- C.8: Mandatory to support at least one IF MESH 4/18 “Certificate-based Provisioning”, otherwise Excluded.

Table 5: Node Capabilities – Network Layer*Prerequisite: MESH 2/1 “Node”*

Item	Capability	Reference	Status
1	Transmitting and Receiving Secured Network Layer Messages	[1] 3.4.6.2, 3.4.6.3	M
2	Relay Feature	[1] 3.4.6.1	C.1
3	Network Message Cache	[1] 3.4.6.4	C.2
4	Multiple Subnet Support	[1] 2.2.1	O

- C.1: Optional IF MESH 3/1 “Advertising Bearer”, otherwise Excluded.
- C.2: Mandatory IF MESH 5/2 “Relay Feature”, otherwise Excluded.

Table 6: Node Capabilities – Lower Transport Layer*Prerequisite: MESH 2/1 “Node”*

Item	Capability	Reference	Status
1	Transmitting and Receiving a Lower Transport PDU	[1] 3.5.4.1, 3.5.4.2	M
2	Segmentation and Reassembly Behavior	[1] 3.5.3.3, 3.5.3.4	M
3	Friend Cache	[1] 3.5.5	C.1

- C.1: Mandatory IF MESH 7/3 “Friend Feature”, otherwise Excluded.

Table 7: Node Capabilities – Upper Transport Layer*Prerequisite: MESH 2/1 “Node”*

Item	Capability	Reference	Status
1	Transmitting a Secured Access Payload	[1] 3.6.4.1	M
2	Receiving a Secured Upper Transport PDU	[1] 3.6.4.2	M
3	Friend Feature	[1] 3.6.6.3	C.1
4	Low Power Feature	[1] 3.6.6.4	C.1
5	Heartbeat	[1] 3.6.7	M

- C.1: Optional IF MESH 3/1 “Advertising Bearer”, otherwise Excluded.

Table 8: Node Capabilities – Access Layer*Prerequisite: MESH 2/1 “Node”*

Item	Capability	Reference	Status
1	Transmitting and Receiving an Access Layer Message	[1] 3.7.4.1	M

Table 9: Node Capabilities – Security*Prerequisite: MESH 2/1 “Node”*

Item	Capability	Reference	Status
1	Message Replay Protection	[1] 3.8.7	M

Table 10: Node Capabilities – Mesh Management*Prerequisite: MESH 2/1 “Node”*

Item	Capability	Reference	Status
1	Secure Network Beacon	[1] 3.9.3	M
2	Key Refresh Procedure	[1] 3.10.4 [6] 3.11.4	M
3	IV Update Procedure	[1] 3.10.5 [6] 3.11.5E	M
4	IV Index Recovery Procedure	[1] 3.10.6 [6] 3.11.6	M
5	Private Beacon	[6] 3.1.7	C.1

C.1: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Mandatory.

Table 11: Node Capabilities – Foundation Mesh Models*Prerequisite: MESH 2/1 “Node”*

Item	Capability	Reference	Status
1	Configuration Server Model	[1] 4.4.1	M
2	Health Server Model	[1] 4.4.3	M
3	Configuration Client Model	[1] 4.4.2	O
4	Health Client Model	[1] 4.4.4	O
5	Private Beacon Server Model	[6] 4.4.11	C.1
6	Private Beacon Client Model	[6] 4.4.12	C.2
7	Bridge Configuration Server Model	[6] 4.4.9	C.3
8	Bridge Configuration Client Model	[6] 4.4.10	C.2
9	Directed Forwarding Configuration Server Model	[6] 4.4.7	C.2
10	Directed Forwarding Configuration Client Model	[6] 4.4.8	C.2
11	Remote Provisioning Server Model	[6] 4.4.5	C.2
12	Remote Provisioning Client Model	[6] 4.4.6	C.4
13	Composition Data Page 1	[6] 4.4.1.2	C.2

Item	Capability	Reference	Status
14	On-demand Private Proxy Server Model	[6] 4.4.13	C.5
15	On-demand Private Proxy Client Model	[6] 4.4.14	C.2
16	Solicitation PDU RPL Configuration Server Model	[6] 4.4.17	C.6
17	Solicitation PDU RPL Configuration Client Model	[6] 4.4.18	C.2
18	SAR Configuration Server Model	[6] 4.4.15	C.2
19	SAR Configuration Client Model	[6] 4.4.16	C.2
20	Opcodes Aggregator Server Model	[6] 4.4.19	C.2
21	Opcodes Aggregator Client Model	[6] 4.4.20	C.2
22	Large Composition Data Server Model	[6] 4.4.21	C.2
23	Large Composition Data Client Model	[6] 4.4.22	C.2
24	Composition Data Page 2	[6] 4.2.2.3	C.2

- C.1: Optional IF MESH 10/5 “Private Beacon”, otherwise Excluded.
- C.2: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional.
- C.3: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional IF MESH 5/4 “Multiple Subnet Support”, otherwise Excluded.
- C.4: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional IF MESH 2/2 “Provisioner”, otherwise Excluded.
- C.5: Optional IF MESH 11/5 “Private Beacon Server Model” AND MESH 12/7 “Advertising with Private Network Identity”, otherwise Excluded.
- C.6: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional IF MESH 11/14 “On-demand Private Proxy Server Model”, otherwise Excluded.

Table 12: Node Capabilities – Proxy

Prerequisite: MESH 3/2 “GATT Bearer”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Proxy Server	[1] 6.2, 6.6	C.1	N/A
2	Generic Attribute Profile (GATT) Server	[1] 3.3.2	C.2	[2] GATT 1/2
3	Advertising with Network ID	[1] 7.2.2.2.2	C.3	N/A
4	Advertising with Node Identity	[1] 7.2.2.2.3	C.4	N/A
5	Proxy Client	[1] 6.2, 6.7	C.1	N/A
6	Generic Attribute Profile (GATT) Client	[1] 3.3.2	C.5	[2] GATT 1/1
7	Advertising with Private Network Identity	[6] 3.1.27	C.6	N/A
8	Advertising with Private Node Identity	[6] 3.1.28	C.7	N/A
9	Directed Proxy Server	[6] 6.7.1	C.8	N/A
10	Directed Proxy Client	[6] 6.8.1	C.9	N/A
11	Sending Proxy Solicitation	[6] 6.9	C.10	N/A
12	Proxy Feature	[1] 3.4.6.2	C.11	N/A

- C.1: Mandatory to support at least one.

- C.2: Mandatory IF MESH 12/12 “Proxy Feature” OR MESH 4/2 “PB-GATT Server”, otherwise not defined.
- C.3: Mandatory IF MESH 12/12 “Proxy Feature”, otherwise Excluded.
- C.4: Mandatory IF MESH 12/1 “Proxy Server”, otherwise Excluded.
- C.5: Mandatory IF MESH 12/5 “Proxy Client”, otherwise not defined.
- C.6: Mandatory IF MESH 12/3 “Advertising with Network ID” AND MESH 10/5 “Private Beacon”, otherwise Excluded.
- C.7: Mandatory IF MESH 12/4 “Advertising with Node Identity” AND MESH 10/5 “Private Beacon”, otherwise Excluded.
- C.8: Mandatory IF MESH 12/12 “Proxy Feature” AND MESH 11/9 “Directed Forwarding Configuration Server Model”, otherwise Excluded.
- C.9: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional IF MESH 12/5 “Proxy Client”, otherwise Excluded.
- C.10: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional.
- C.11: Optional IF MESH 12/1 “Proxy Server” AND MESH 3/1 “Advertising Bearer”, otherwise Excluded.

Table 12a: Node Capabilities – Directed Forwarding

Prerequisite: MESH 11/9 “Directed Forwarding Configuration Server Model”

Item	Capability	Reference	Status
1	Directed Relay	[6] 4.2.26.2	C.1

- C.1: Excluded IF MESH 12/5 “Proxy Client”, otherwise Mandatory.

1.4.2 Mesh GATT services

Table 13: Mesh GATT Services

Prerequisite: MESH 12/2 “Generic Attribute Profile (GATT) Server”

Item	Capability	Reference	Status
1	Mesh Provisioning Service	[1] 7.1	C.1
2	Mesh Proxy Service	[1] 7.2	C.2

- C.1: Mandatory IF MESH 4/2 “PB-GATT Server”, otherwise Excluded.
- C.2: Mandatory IF MESH 12/1 “Proxy Server”, otherwise Excluded.

1.4.3 GATT server requirements

Table 14: GATT Server Requirements

Prerequisite: MESH 12/2 “Generic Attribute Profile (GATT) Server”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Discover All Primary Services	[1] 3.3.2	M	[2] GATT 4/2
2	Discover Primary Services by Service UUID	[1] 3.3.2	M	[2] GATT 4/3
3	Write without Response	[1] 3.3.2	M	[2] GATT 4/12
4	Notifications	[1] 3.3.2	M	[2] GATT 4/17



Item	Capability	Reference	Status	Inter-Layer Dependency
5	Write Characteristic Descriptors	[1] 3.3.2	M	[2] GATT 4/21

1.4.4 GATT client requirements

Table 15: GATT Client Requirements

Prerequisite: MESH 12/6 “Generic Attribute Profile (GATT) Client”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Discover All Primary Services	[1] 3.3.2	C.1	[2] GATT 3/2
2	Discover Primary Services by Service UUID	[1] 3.3.2	C.1	[2] GATT 3/3
3	Write without Response	[1] 3.3.2	M	[2] GATT 3/12
4	Notifications	[1] 3.3.2	M	[2] GATT 3/17
5	Write Characteristic Descriptors	[1] 3.3.2	M	[2] GATT 3/21

C.1: Mandatory to support at least one.

1.4.5 GAP requirements

Table 16: GAP Requirements

Prerequisite: MESH 2/1 “Node”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Broadcaster	[1] 3.3.1	C.1	[3] GAP 5/1 or GAP 38/1
2	Observer	[1] 3.3.1	C.1	[3] GAP 5/2 or GAP 38/2
3	Peripheral	[1] 3.3.2, 7.1.1, 7.2.1, 7.2.2.2.1	C.2	[3] GAP 5/3 or GAP 38/3
4	Authorization procedure (Peripheral)	[1] 2.2.3	C.2	[3] GAP 25/4
5	Central	[1] 3.3.2, 7.1.1, 7.2.1	C.3	[3] GAP 5/4 or GAP 38/4
6	Authorization procedure (Central)	[1] 2.2.3	C.3	[3] GAP 35/4

C.1: Mandatory IF MESH 3/1 “Advertising Bearer”, otherwise not defined.

C.2: Mandatory IF MESH 12/2 “Generic Attribute Profile (GATT) Server”, otherwise not defined.

C.3: Mandatory IF MESH 12/6 “Generic Attribute Profile (GATT) Client”, otherwise not defined.

1.5 Provisioner role

1.5.1 Provisioner

Table 17: No longer used

Table 18: Provisioner – Provisioning

Prerequisite: MESH 2/2 “Provisioner” OR MESH 11/11 “Remote Provisioning Server Model”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Receiving Unprovisioned Device Beacon	[1] 3.9.2 [6] 3.10.2	C.1	N/A
2	PB-ADV Client	[1] 5.2.1	C.2	N/A
3	Generic Provisioning Layer	[1] 5.3	M	N/A
4	Provisioning Protocol (Provisioning Client)	[1] 5.4	M	N/A
5	PB-GATT Client	[1] 5.2.2, 6, 7.1	C.2	N/A
6	Generic Attribute Profile (GATT) Client	[1] 3.3.2	C.6	[2] GATT 1/1
7	Provisioning: Public Key OOB	[1] 5.4.1.2	M	N/A
8	Provisioning: Public Key No OOB	[1] 5.4.1.2	M	N/A
9	Provisioning: Authentication Output OOB	[1] 5.4.1.2	M	N/A
10	Provisioning: Authentication Input OOB	[1] 5.4.1.2	M	N/A
11	Provisioning: Authentication Static or No OOB	[1] 5.4.1.2, 5.4.3	M	N/A
12	Provisioning algorithm: ECDH_P256 + CMAC_AES128 + CCM_AES128	[1] 5.4.2.4.1	M	N/A
13	Provisioning algorithm: ECDH_P256 + HMAC_SHA256 + CCM_AES128	[6] 5.4.2.4.1	C.3	N/A
14	Provisioning: X.509 Certificates	[6] 5.5	C.4	N/A
15	Provisioning Records	[6] 5.4.2.6	C.5	N/A

C.1: Mandatory IF MESH 18/2 “PB-ADV Client”, otherwise Excluded.

C.2: Mandatory to support at least one.

C.3: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Mandatory.

C.4: Excluded IF MESH 0/1 “Mesh v1.0”, otherwise Optional.

C.5: Mandatory IF MESH 18/14 “Provisioning: X.509 Certificates”, otherwise Optional.

C.6: Mandatory IF MESH 18/5 “PB-GATT Client”, otherwise not defined.

Table 19: Provisioner – Mesh Management*Prerequisite: MESH 2/2 “Provisioner”*

Item	Capability	Reference	Status
1	Receiving Secure Network Beacon	[1] 3.9.3 [6] 3.10.3	M

1.5.2 GATT client requirements

Table 20: GATT Client Requirements*Prerequisite: MESH 18/6 “Generic Attribute Profile (GATT) Client”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Discover All Primary Services	[1] 3.3.2	C.1	[2] GATT 3/2
2	Discover Primary Services by Service UUID	[1] 3.3.2	C.1	[2] GATT 3/3
3	Write without Response	[1] 3.3.2	M	[2] GATT 3/12
4	Notifications	[1] 3.3.2	M	[2] GATT 3/17
5	Write Characteristic Descriptors	[1] 3.3.2	M	[2] GATT 3/21

C.1: Mandatory to support at least one.

1.5.3 GAP requirements

Table 21: GAP Requirements*Prerequisite: MESH 2/2 “Provisioner”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Broadcaster	[1] 3.3.1	C.1	[3] GAP 5/1 or GAP 38/1
2	Observer	[1] 3.3.1	C.1	[3] GAP 5/2 or GAP 38/2
3	Central	[1] 3.3.2, 7.1.1, 7.2.1	C.2	[3] GAP 5/4 or GAP 38/4
4	Authorization procedure (Central)	[1] 2.2.3	C.2	[3] GAP 35/4

C.1: Mandatory IF MESH 18/2 “PB-ADV Client”, otherwise not defined.

C.2: Mandatory IF MESH 18/5 “PB-GATT Client”, otherwise not defined.

2 References

- [1] Mesh Protocol Specification, Version 1.0 or later
- [2] ICS Proforma for Generic Attribute Profile (GATT)
- [3] ICS Proforma for Generic Access Profile (GAP)
- [4] Mesh Erratum 10395: Mandating ECDH Public key validation
- [5] Mesh Erratum 16350: Remove security claim
- [6] Mesh Protocol Specification, Version 1.1 or later

3 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2017-07-12	Approved by BTI. Prepared for TCRL 2017-1 publication.
	1.0.1r00	2018-06-20	Incorporated Mesh Erratum 10395 TS CR r06. Changed Table 0a title from “Versions” to “Major Profile Version (X.Y)”. Added Table 0a: Minor Profile Version (X.Y.Z) and item 0/1 (“Erratum 10395”). Added reference to the erratum.
1	1.0.1	2018-06-27	Approved by BTI. Prepared for TCRL 2018-1 publication.
	1.0.1.0r00	2018-11-09	Updated version number to 1.0.1.0 to align with adoption of the specification 1.0.1. Added item 0a/2 for the new version.
2	1.0.1.0	2018-11-21	Approved by BTI. Prepared for TCRL 2018-2 publication.
	1.0.1.1r00	2019-04-25	TSE 11760 (rating 2): Added item 4 to Table 5 to signal feature support.
	1.0.1.1r01	2019-06-18	Updated template and made minor editorial fixes.
3	1.0.1.1	2019-07-25	Approved by BTI. Prepared for TCRL 2019-1 publication.
	p4r00	2021-03-19	TSE 16434 (rating 4): Changes for erratum 16350. Added ICS item 0a/3 “Erratum 16350”.
4	p4	2021-05-24	Approved by BTI on 2021-04-21. Prepared for publication.
	p5r00–r01	2021-05-24 – 2021-06-11	TSE 16807 (rating 2): Added an item for “Provisioning algorithm: ECDH_P256 + CMAC_AES128 + CCM_AES128” to Tables 4 and 18. Consistency checker editorials.
5	p5	2021-07-13	Approved by BTI on 2021-06-03. Prepared for TCRL 2021-1 publication.
	p6r00–r02	2021-10-12 – 2021-12-07	TSE 17472 (rating 2): Corrected item 2 reference in Table 4; updated C.3 in Table 12; corrected ILD for item 6 in Table 18. Editorials, including aligning the doc title with the TS and with the TS/ICS docs of MMDL, making consistency checker editorials, performing template-related fixes, and updating the copyright page to align with v2 of the DNMD.
6	p6	2022-01-25	Approved by BTI on 2021-12-13. Prepared for TCRL 2021-2 publication.

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	p7r00–r17	2022-07-26 – 2023-09-18	Incorporated changes from MshPRF_EPA_Test_CR_r03-ba3: In Table 4, updated the status of item 13, added item 14, and added C.7 and C.8; in Table 18, added item 13 and C.3. Incorporated changes from MESH_PRB_TEST_CR_r06: In Table 10, added Item 5 and C.1. In Table 11, added Items 5 and 6, C.1, and C.2. In Table 12, added C.5 and Items 7 and 8. Incorporated changes from SBR.TS.CRr02-ba4: In Table 0, updated the status of Item 1, added item 2, and added C.1. In Table 11, added Items 7 and 8, C.3, and C.4. Added the Mesh Protocol Specification v1.1 to the references list. Incorporated changes from Mesh.DF.CR.TSr19-ba_PTS_comment-ba: In Table 11, added Items 9 and 10. In Table 12, added Items 9 and 10, C.6, and C.7. Added new Table 12a. Incorporated changes from MESH_RPR_TEST_CR_r15-E18559-E18520-E18895: In Table 4, updated Items 1 and 2, added Items 15 and 16, updated C.2–C.6, and added C.9. In Table 11, added Items 11 and 12, C.5, and C.6. In Table 18, updated the prerequisite and the capability for Items 2 and 5. Updated the Acknowledgments list. Incorporated changes from MshPRF.ENH.TS.CRr05-ba8-MWG-ba2.docx: In Table 11, added Items 13–23 and C.7. In Table 12, added Item 11. Incorporated changes from MESH_CBP_Test_CR_r10-E19129.docx per Errata 12238, E13131, and E15559: Added Items 18–21 and C.10-C.12 to Table 4. Added Items 14 and 15, C.4, and C.5 to Table 18. Incorporated test issue ES-23066. Performed template-related formatting fixes, including the deletion of "is supported" from conditionals.
7	p7	2023-09-19	Approved by BTI on 2023-08-27. Mesh Protocol v1.1 adopted by the BoD on 2023-09-12. Prepared for publication.

Acknowledgments

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