

Media Control Service (MCS)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

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1 General principles

1.1 Implementation Under Test (IUT) identification

Using the Bluetooth SIG qualification tool, the implementer is expected to declare details about what will be implemented.

1.2 Enforcement of inter-layer dependencies

This ICS includes one or more tables with inter-layer dependencies (ILDs). ILDs are used for specification requirements that are dependent on other supporting specifications. ILDs can refer to an individual ICS item in a separate layer (individual ILD), or it can refer to the full layer (full-layer ILD).

ILDs residing in an X2Core layer will be enforced from the Bluetooth SIG qualification tool in the following conditions, depending on where the referred ILD is residing:

Referred ILD resides in	Individual ILD	Full-layer ILD
Controller layer	Core-Complete configuration, or Referred layer is supported	N/A
Lower HCI layer	HCI is supported	N/A
Upper HCI layer	Core-Host configuration, or UHCI is supported	N/A
Host layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	N/A
X2Core layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	Core-Host configuration, or Core-Complete configuration

Table 1.1: Enforcement of an ILD within the Bluetooth SIG qualification tool

2 ICS declarations

2.1 Service support

Table 0b: Service Requirements

Item	Service	Reference	Status
1	Media Control Service	[1] 2.1	C.1
2	Generic Media Control Service	[1] 2.1	C.1

C.1: Mandatory to support at least one.

3 Media Control Service (MCS)

3.1 MCS versions

Table 0: X.Y Versions

Prerequisite: MCS 0b/1 “Media Control Service”

Item	Version	Reference	Status
1	MCS v1.0	[1]	M

Table 0a: X.Y.Z Versions

Prerequisite: MCS 0b/1 “Media Control Service”

Item	Version	Reference	Status
1	MCS v1.0.1	[4]	O

3.2 MCS transports

Table 1: Transport Requirements

Prerequisite: MCS 0b/1 “Media Control Service”

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 1.5	C.1, C.3
2	Service supported over LE	[1] 1.5	C.2, C.3

C.1: Excluded for this Service IF CORE 41/2 “LE Core Configuration”.

C.2: Excluded for this Service IF CORE 41/1 “BR/EDR Core Configuration”.

C.3: Mandatory to support at least one.

3.3 MCS Service requirements

Table 2: Media Control Service Requirements

Prerequisite: MCS 0b/1 “Media Control Service”

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Media Control Service	[1] 2.1	M	N/A
2	Object Transfer Service	[1] 2.3	C.1	[3] OTS
3	Media Player Name Characteristic	[1] 3.1	M	N/A
4	Media Player Name – Read Long Support	[1] 3.1	O	N/A
5	Media Player Icon Object ID Characteristic	[1] 3.2	O	N/A
6	Media Player Icon URL Characteristic	[1] 3.3	O	N/A
7	Track Changed Characteristic	[1] 3.4	M	N/A
8	Track Title Characteristic	[1] 3.5	M	N/A
9	Track Title – Read Long Support	[1] 3.5	O	N/A
10	Track Duration Characteristic	[1] 3.6	M	N/A

Item	Feature	Reference	Status	Inter-Layer Dependency
11	Track Position Characteristic	[1] 3.7	M	N/A
12	Playback Speed Characteristic	[1] 3.8	O	N/A
13	Seeking Speed Characteristic	[1] 3.9	O	N/A
14	Current Track Segments Object ID Characteristic	[1] 3.10	C.2	N/A
15	Current Track Object ID Characteristic	[1] 3.11	O	N/A
16	Next Track Object ID Characteristic	[1] 3.12	C.2	N/A
17	Parent Group Object ID Characteristic	[1] 3.13	C.2	N/A
18	Current Group Object ID Characteristic	[1] 3.14	C.2	N/A
19	Playing Order Characteristic	[1] 3.15	O	N/A
20	Playing Order Supported Characteristic	[1] 3.16	O	N/A
21	Media State Characteristic	[1] 3.17	M	N/A
22	Media Control Point Characteristic	[1] 3.18	M	N/A
23	Media Control Point Opcodes Supported Characteristic	[1] 3.19	M	N/A
24	Search Results Object ID Characteristic	[1] 3.21	O	N/A
25	Search Control Point Characteristic	[1] 3.20	C.3	N/A
26	Content Control ID Characteristic	[1] 3.22	M	N/A

C.1: Mandatory IF MCS 2/5 “Media Player Icon Object ID Characteristic” OR MCS 2/14 “Current Track Segments Object ID Characteristic” OR MCS 2/15 “Current Track Object ID Characteristic” OR MCS 2/16 “Next Track Object ID Characteristic” OR MCS 2/17 “Parent Group Object ID Characteristic” OR MCS 2/18 “Current Group Object ID Characteristic” OR MCS 2/24 “Search Results Object ID Characteristic”, otherwise not defined.

C.2: Mandatory IF MCS 2/15 “Current Track Object ID Characteristic”, otherwise Excluded.

C.3: Mandatory IF MCS 2/24 “Search Results Object ID Characteristic”, otherwise Excluded.

Table 3: Media Control Point Opcode Requirements

Prerequisite: MCS 2/22 “Media Control Point Characteristic”

Item	Opcode	Reference	Status
1	Play	[1] 3.18.1.1	C.1
2	Pause	[1] 3.18.1.2	C.1
3	Fast Rewind	[1] 3.18.1.3	C.1
4	Fast Forward	[1] 3.18.1.4	C.1
5	Stop	[1] 3.18.1.5	C.1
6	Move Relative	[1] 3.18.1.6	C.1
7	Previous Segment	[1] 3.18.1.7	C.1
8	Next Segment	[1] 3.18.1.8	C.1
9	First Segment	[1] 3.18.1.9	C.1
10	Last Segment	[1] 3.18.1.10	C.1
11	Goto Segment	[1] 3.18.1.11	C.1
12	Previous Track	[1] 3.18.1.12	C.1

Item	Opcode	Reference	Status
13	Next Track	[1] 3.18.1.13	C.1
14	First Track	[1] 3.18.1.14	C.1
15	Last Track	[1] 3.18.1.15	C.1
16	Goto Track	[1] 3.18.1.16	C.1
17	Previous Group	[1] 3.18.1.17	C.1
18	Next Group	[1] 3.18.1.18	C.1
19	First Group	[1] 3.18.1.19	C.1
20	Last Group	[1] 3.18.1.20	C.1
21	Goto Group	[1] 3.18.1.21	C.1

C.1: Mandatory to support at least one.

Table 4: Media State Requirements

Prerequisite: MCS 0b/1 “Media Control Service”

Item	Media State	Reference	Status
1	Play	[1] 3.18.1.1	C.1
2	Pause	[1] 3.18.1.2	C.2
3	Seeking	[1] 3.18.1.3	O
4	Inactive	[1] 3.18.1.4	M

C.1: Optional IF MCS 3/1 “Play”, otherwise Excluded.

C.2: Optional IF MCS 3/2 “Pause”, otherwise Excluded.

3.4 MCS GATT requirements

Table 5: GATT Requirements

Prerequisite: MCS 0b/1 “Media Control Service”

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Write without Response	[1] 1.4	M	[2] GATT 4/12
2	Single Notification	[1] 1.4	M	[2] GATT 4/17
3	Write Characteristic Descriptors	[1] 1.4	M	[2] GATT 4/21
4	Read Characteristic Descriptors	[1] 1.4	M	[2] GATT 4/19
5	GATT Server over BR/EDR	[1] 1.4	C.1	[2] GATT 1a/4
6	GATT Server over LE	[1] 1.4	C.2	[2] GATT 1a/3

C.1: Mandatory IF MCS 1/1 “Service supported over BR/EDR”, otherwise not defined.

C.2: Mandatory IF MCS 1/2 “Service supported over LE”, otherwise not defined.

3.5 MCS SDP requirements

Table 6: SDP Requirements

Prerequisite: MCS 1/1 "Service supported over BR/EDR"

Item	Feature	Reference	Status
1	SDP record present for MCS	[1] 5	M
2–4	No longer used	N/A	N/A

4 Generic Media Control Service (GMCS)

4.1 GMCS versions

Table 20: X.Y Versions

Prerequisite: MCS 0b/2 “Generic Media Control Service”

Item	Version	Reference	Status
1	GMCS v1.0	[1]	M

Table 20a: X.Y.Z Versions

Prerequisite: MCS 0b/2 “Generic Media Control Service”

Item	Version	Reference	Status
1	GMCS v1.0.1	[4]	O

4.2 GMCS transports

Table 21: Transport Requirements

Prerequisite: MCS 0b/2 “Generic Media Control Service”

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 1.5	C.1, C.3
2	Service supported over LE	[1] 1.5	C.2, C.3

C.1: Excluded for this Service IF CORE 41/2 “LE Core Configuration”.

C.2: Excluded for this Service IF CORE 41/1 “BR/EDR Core Configuration”.

C.3: Mandatory to support at least one.

4.3 GMCS Service requirements

Table 22: Generic Media Control Service Requirements

Prerequisite: MCS 0b/2 “Generic Media Control Service”

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Generic Media Control Service	[1] 2.1	M	N/A
2	Object Transfer Service	[1] 2.3	C.1	[3] OTS
3	Media Player Name Characteristic	[1] 3.1	M	N/A
4	Media Player Name Read Long Supported	[1] 3.1	O	N/A
5	Media Player Icon Object ID Characteristic	[1] 3.2	O	N/A
6	Media Player Icon URL Characteristic	[1] 3.3	O	N/A
7	Track Changed Characteristic	[1] 3.4	M	N/A
8	Track Title Characteristic	[1] 3.5	M	N/A
9	Track Title Read Long Supported	[1] 3.5	O	N/A
10	Track Duration Characteristic	[1] 3.6	M	N/A

Item	Feature	Reference	Status	Inter-Layer Dependency
11	Track Position Characteristic	[1] 3.7	M	N/A
12	Playback Speed Characteristic	[1] 3.8	O	N/A
13	Seeking Speed Characteristic	[1] 3.9	O	N/A
14	Current Track Segments Object ID Characteristic	[1] 3.10	C.2	N/A
15	Current Track Object ID Characteristic	[1] 3.11	O	N/A
16	Next Track Object ID Characteristic	[1] 3.12	C.2	N/A
17	Parent Group Object ID Characteristic	[1] 3.13	C.2	N/A
18	Current Group Object ID Characteristic	[1] 3.14	C.2	N/A
19	Playing Order Characteristic	[1] 3.15	O	N/A
20	Playing Order Supported Characteristic	[1] 3.16	O	N/A
21	Media State Characteristic	[1] 3.17	M	N/A
22	Media Control Point Characteristic	[1] 3.18	M	N/A
23	Media Control Point Opcodes Supported Characteristic	[1] 3.19	M	N/A
24	Search Results Object ID Characteristic	[1] 3.21	O	N/A
25	Search Control Point Characteristic	[1] 3.20	C.3	N/A
26	Content Control ID Characteristic	[1] 3.22	M	N/A

C.1: Mandatory IF MCS 22/5 “Media Player Icon Object ID Characteristic” OR MCS 22/14 “Current Track Segments Object ID Characteristic” OR MCS 22/15 “Current Track Object ID Characteristic” OR MCS 22/16 “Next Track Object ID Characteristic” OR MCS 22/17 “Parent Group Object ID Characteristic” OR MCS 22/18 “Current Group Object ID Characteristic” OR MCS 22/24 “Search Results Object ID Characteristic”, otherwise not defined.

C.2: Mandatory IF MCS 22/15 “Current Track Object ID Characteristic”, otherwise Excluded.

C.3: Mandatory IF MCS 22/24 “Search Results Object ID Characteristic”, otherwise Excluded.

Table 23: Generic Media Control Point Opcode Requirements

Prerequisite: MCS 22/22 “Media Control Point Characteristic”

Item	Opcode	Reference	Status
1	Play	[1] 3.18.1.1	C.1
2	Pause	[1] 3.18.1.2	C.1
3	Fast Rewind	[1] 3.18.1.3	C.1
4	Fast Forward	[1] 3.18.1.4	C.1
5	Stop	[1] 3.18.1.5	C.1
6	Move Relative	[1] 3.18.1.6	C.1
7	Previous Segment	[1] 3.18.1.7	C.1
8	Next Segment	[1] 3.18.1.8	C.1
9	First Segment	[1] 3.18.1.9	C.1
10	Last Segment	[1] 3.18.1.10	C.1
11	Goto Segment	[1] 3.18.1.11	C.1
12	Previous Track	[1] 3.18.1.12	C.1

Item	Opcode	Reference	Status
13	Next Track	[1] 3.18.1.13	C.1
14	First Track	[1] 3.18.1.14	C.1
15	Last Track	[1] 3.18.1.15	C.1
16	Goto Track	[1] 3.18.1.16	C.1
17	Previous Group	[1] 3.18.1.17	C.1
18	Next Group	[1] 3.18.1.18	C.1
19	First Group	[1] 3.18.1.19	C.1
20	Last Group	[1] 3.18.1.20	C.1
21	Goto Group	[1] 3.18.1.21	C.1

C.1: Mandatory to support at least one.

Table 24: Media State Supported Requirements

Prerequisite: MCS 0b/2 “Generic Media Control Service”

Item	Media State	Reference	Status
1	Play	[1] 3.18.1.1	C.1
2	Pause	[1] 3.18.1.2	C.2
3	Seeking	[1] 3.18.1.3	O
4	Inactive	[1] 3.18.1.4	M

C.1: Optional IF MCS 23/1 “Play”, otherwise Excluded.

C.2: Optional IF MCS 23/2 “Pause”, otherwise Excluded.

4.4 GMCS GATT requirements

Table 25: GATT Requirements

Prerequisite: MCS 0b/2 “Generic Media Control Service”

Item	Feature	Reference	Status	Inter-Layer Dependency
1	Write without Response	[1] 1.4	M	[2] GATT 4/12
2	Single Notification	[1] 1.4	M	[2] GATT 4/17
3	Write Characteristic Descriptors	[1] 1.4	M	[2] GATT 4/21
4	Read Characteristic Descriptors	[1] 1.4	M	[2] GATT 4/19
5	GATT Server over BR/EDR	[1] 1.4	C.1	[2] GATT 1a/4
6	GATT Server over LE	[1] 1.4	C.2	[2] GATT 1a/3

C.1: Mandatory IF MCS 21/1 “Service supported over BR/EDR”, otherwise not defined.

C.2: Mandatory IF MCS 21/2 “Service supported over LE”, otherwise not defined.

4.5 GMCS SDP requirements

Table 26: SDP Requirements

Prerequisite: MCS 21/1 "Service supported over BR/EDR"

Item	Feature	Reference	Status
1	SDP record present for GMCS	[1] 5	M

5 References

- [1] Media Control Service Specification, Version 1.0 or later
- [2] ICS Proforma for Generic Attribute Profile (GATT)
- [3] ICS Proforma for Object Transfer Service (OTS)
- [4] Media Control Service Specification, Version 1.0.1

6 Bridge mapping between MCS ICS and prior GMCS ICS (informational)

TSE 24007 deleted the GMCS ICS document and merged the ICS from GMCS into MCS ICS.

Table 6.1 Table 6.1 provides the mapping between the merged MCS ICS and the prior GMCS ICS and MCS ICS items. If an implementation previously supported one of the prior capabilities, then it now supports the corresponding MCS ICS capability.

GMCS.ICS.p0 in TCRL 2023-1 was the last version before the merge.

MCS ICS	Description	Mapping
MCS 20/1	Generic Media Control Service 1.0	GMCS 0/1 "Generic Media Control Service 1.0"
MCS 21/1	Service supported over BR/EDR	GMCS 1/1 "Service supported over BR/EDR"
MCS 21/2	Service supported over LE	GMCS 1/2 "Service supported over LE"
MCS 22/1	Generic Media Control Service	GMCS 2/1 "Generic Media Control Service"
MCS 22/2	Object Transfer Service	GMCS 2/2 "Object Transfer Service"
MCS 22/3	Media Player Name Characteristic	GMCS 2/3 "Media Player Name Characteristic"
MCS 22/4	Media Player Name Read Long Supported	GMCS 2/4 "Media Player Name Read Long Supported"
MCS 22/5	Media Player Icon Object ID Characteristic	GMCS 2/5 "Media Player Icon Object ID Characteristic"
MCS 22/6	Media Player Icon URL Characteristic	GMCS 2/6 "Media Player Icon URL Characteristic"
MCS 22/7	Track Changed Characteristic	GMCS 2/7 "Track Changed Characteristic"
MCS 22/8	Track Title Characteristic	GMCS 2/8 "Track Title Characteristic"
MCS 22/9	Track Title Read Long Supported	GMCS 2/9 "Track Title Read Long Supported"
MCS 22/10	Track Duration Characteristic	GMCS 2/10 "Track Duration Characteristic"
MCS 22/11	Track Position Characteristic	GMCS 2/11 "Track Position Characteristic"
MCS 22/12	Playback Speed Characteristic	GMCS 2/12 "Playback Speed Characteristic"
MCS 22/13	Seeking Speed Characteristic	GMCS 2/13 "Seeking Speed Characteristic"
MCS 22/14	Current Track Segments Object ID Characteristic	GMCS 2/14 "Current Track Segments Object ID Characteristic"

MCS ICS	Description	Mapping
MCS 22/15	Current Track Object ID Characteristic	GMCS 2/15 "Current Track Object ID Characteristic"
MCS 22/16	Next Track Object ID Characteristic	GMCS 2/16 "Next Track Object ID Characteristic"
MCS 22/17	Parent Group Object ID Characteristic	GMCS 2/17 "Parent Group Object ID Characteristic"
MCS 22/18	Current Group Object ID Characteristic	GMCS 2/18 "Current Group Object ID Characteristic"
MCS 22/19	Playing Order Characteristic	GMCS 2/19 "Playing Order Characteristic"
MCS 22/20	Playing Order Supported Characteristic	GMCS 2/20 "Playing Order Supported Characteristic"
MCS 22/21	Media State Characteristic	GMCS 2/21 "Media State Characteristic"
MCS 22/22	Media Control Point Characteristic	GMCS 2/22 "Media Control Point Characteristic"
MCS 22/23	Media Control Point Opcodes Supported Characteristic	GMCS 2/23 "Media Control Point Opcodes Supported Characteristic"
MCS 22/24	Search Results Object ID Characteristic	GMCS 2/24 "Search Results Object ID Characteristic"
MCS 22/25	Search Control Point Characteristic	GMCS 2/25 "Search Control Point Characteristic"
MCS 22/26	Content Control ID Characteristic	GMCS 2/26 "Content Control ID Characteristic"
MCS 23/1	Play	GMCS 3/1 "Play"
MCS 23/2	Pause	GMCS 3/2 "Pause"
MCS 23/3	Fast Rewind	GMCS 3/3 "Fast Rewind"
MCS 23/4	Fast Forward	GMCS 3/4 "Fast Forward"
MCS 23/5	Stop	GMCS 3/5 "Stop"
MCS 23/6	Move Relative	GMCS 3/6 "Move Relative"
MCS 23/7	Previous Segment	GMCS 3/7 "Previous Segment"
MCS 23/8	Next Segment	GMCS 3/8 "Next Segment"
MCS 23/9	First Segment	GMCS 3/9 "First Segment"
MCS 23/10	Last Segment	GMCS 3/10 "Last Segment"
MCS 23/11	Goto Segment	GMCS 3/11 "Goto Segment"
MCS 23/12	Previous Track	GMCS 3/12 "Previous Track"
MCS 23/13	Next Track	GMCS 3/13 "Next Track"
MCS 23/14	First Track	GMCS 3/14 "First Track"
MCS 23/15	Last Track	GMCS 3/15 "Last Track"
MCS 23/16	Goto Track	GMCS 3/16 "Goto Track"

MCS ICS	Description	Mapping
MCS 23/17	Previous Group	GMCS 3/17 "Previous Group"
MCS 23/18	Next Group	GMCS 3/18 "Next Group"
MCS 23/19	First Group	GMCS 3/19 "First Group"
MCS 23/20	Last Group	GMCS 3/20 "Last Group"
MCS 23/21	Goto Group	GMCS 3/21 "Goto Group"
MCS 24/1	Play	GMCS 4/1 "Play"
MCS 24/2	Pause	GMCS 4/2 "Pause"
MCS 24/3	Seeking	GMCS 4/3 "Seeking"
MCS 24/4	Inactive	GMCS 4/4 "Inactive"
MCS 25/1	Write without Response	GMCS 5/1 "Write without Response"
MCS 25/2	Notifications	GMCS 5/2 "Notifications"
MCS 25/3	Write Characteristic Descriptors	GMCS 5/3 "Write Characteristic Descriptors"
MCS 25/4	Read Characteristic Descriptors	GMCS 5/4 "Read Characteristic Descriptors"
MCS 25/5	GATT Server over BR/EDR	GMCS 1/1 "Service supported over BR/EDR"
MCS 25/6	GATT Server over LE	GMCS 1/2 "Service supported over LE"
MCS 26/1	SDP record present for GMCS	GMCS 6/1 "Support for Server role"

Table 6.1: Bridge mapping between GMCS ICS and MCS ICS for QDIDs

7 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2021-03-16	Approved by BTI on 2021-02-25. MCS v1.0 adopted by the BoD on 2021-03-09. Prepared for publication.
	p1r00–r02	2023-08-15 – 2023-11-28	TSE 23665 (rating 2): Removed the SDP and GAP ICSs from the References list. Added 25/5 and 25/6 and related conditionals C.1 and C.2. Updated Table 26 by removing the ILD column, updating the Feature description for 26/1, and deleting 26/2, 26/3, and 26/4. Editorials throughout to align the document with the latest ICS conventions. TSE 23671 (rating 2): Removed the ICS references for SDP and GAP from the References section and added a reference to the OTS ICS. Added 5/5 and 5/6 and associated conditionals C.1 and C.2. Updated Table 6 by removing the ILD column, revising the Feature description for 6/1, and removing 6/2, 6/3, and 6/4. Editorials throughout to align the document with the latest ICS conventions. TSE 24007 (rating 2): Merged the GMCS ICS document into the MCS ICS, starting the GMCS ICS numbering at Table 20. Added Table 0b. Template-based editorials, including removing the draft entries from the rev history. Updated table numbers in the rev history comment for TSE 23665 to align with the renumbered GMCS tables after TSE 24007 incorporation.
1	p1	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.
	p2r00–r01	2024-08-14 – 2024-08-19	TSE 25560 (rating 1): Per E16716, E18693, E18852, E18999, E19000, E19003, E19004, E19071, E19306, E22507, and E23835, added new X.Y.Z version as part of the .Z release. Added Tables 0a and 20a. Added a reference to Media Control Service Specification v1.0.1.
2	p2	2024-10-08	Approved by BTI on 2024-09-11. MCS v1.0.1 adopted by the BoD on 2024-10-01. Prepared for TCRL 2024-2-addition publication.
	p3r00–r01	2024-11-11 – 2024-12-06	TSE 26254 (rating 1): Added a section providing bridge mapping between MCS ICS and prior GMCS ICS.
3	p3	2025-02-18	Approved by BTI on 2025-02-09. Prepared for TCRL 2025-1 publication.
	p4r00–r01	2025-04-21 – 2025-06-11	TSE 27331 (rating 1): Updated the Status value for MCS 1/1, MCS 1/2, MCS 21/1, and MCS 21/2. In Tables 1 and 21, added conditions C.1 and C.2 and renumbered C.1 as C.3.
4	p4	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.

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