

Bond Management Service (BMS)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** BMS.ICS.p3
- **Revision Date:** 2024-07-01
- **Prepared By:** Medical Devices Working Group
- **Published during TCRL:** TCRL.2024-1



This document, regardless of its title or content, is not a Bluetooth Specification as defined in the Bluetooth Patent/Copyright License Agreement (“PCLA”) and Bluetooth Trademark License Agreement. Use of this document by members of Bluetooth SIG is governed by the membership and other related agreements between Bluetooth SIG Inc. (“Bluetooth SIG”) and its members, including the PCLA and other agreements posted on Bluetooth SIG’s website located at www.bluetooth.com.

THIS DOCUMENT IS PROVIDED “AS IS” AND BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES MAKE NO REPRESENTATIONS OR WARRANTIES AND DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, THAT THE CONTENT OF THIS DOCUMENT IS FREE OF ERRORS.

TO THE EXTENT NOT PROHIBITED BY LAW, BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES DISCLAIM ALL LIABILITY ARISING OUT OF OR RELATING TO USE OF THIS DOCUMENT AND ANY INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING LOST REVENUE, PROFITS, DATA OR PROGRAMS, OR BUSINESS INTERRUPTION, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, AND EVEN IF BLUETOOTH SIG, ITS MEMBERS, OR THEIR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This document is proprietary to Bluetooth SIG. This document may contain or cover subject matter that is intellectual property of Bluetooth SIG and its members. The furnishing of this document does not grant any license to any intellectual property of Bluetooth SIG or its members.

This document is subject to change without notice.

Copyright © 2013–2024 by Bluetooth SIG, Inc. The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. Other third-party brands and names are the property of their respective owners.



Contents

1	Identification of the implementation.....	4
1.1	Implementation Under Test (IUT) identification	4
1.2	Versions	5
1.3	Roles	5
1.4	Transports	5
1.5	Bond Management Service Server	5
1.5.1	Features.....	5
1.5.2	Control Point Operations.....	6
1.5.2.1	Control Point Authorization Code	6
1.6	GATT requirements	6
1.7	SDP requirements.....	7
2	References.....	8
3	Revision history and acknowledgments	9

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 Versions

Table 0: X.Y Versions

Item	Version	Reference	Status
1	BMS v1.0	[1]	C.1, C.2

C.1: Mandatory.

C.2: Can only be supported with an active X.Y.Z version after Deprecation. Deprecated 2023-02-01. Withdrawn 2025-02-01.

Table 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	BMS v1.0.1	[1]	C.1

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

1.3 Roles

Table 1: Role Requirements

Item	Role	Reference	Status
1	Bond Management Service Server	[1] 2	M

1.4 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 1.6	C.1
2	Service supported over LE	[1] 1.6	C.1

C.1: Mandatory to support at least one.

1.5 Bond Management Service Server

1.5.1 Features

Table 2a: Feature Requirements

Item	Capability	Reference	Status
1	Bond Management Control Point characteristic	[1] 3, 3.1	M
2	Bond Management Feature characteristic	[1] 3, 3.2	M
3	Bond Management Control Point - Reliable Write	[1] 3, 3.1	O
4	Indications for changes of supported features	[3] 3.2.1	M

Table 2b: Indications for changes of supported features

Prerequisite: BMS 2a/4 “Indications for changes of supported features”

Item	Capability	Reference	Status
1	Changeable Bond Management Feature	[3] 3, 3.2.1	O
2	Bond Management Feature characteristic indication	[3] 3, 3.2.1	C.1

C.1: Mandatory IF BMS 2b/1 “Changeable Bond Management Feature”, otherwise Excluded.

1.5.2 Control Point Operations

Table 3: Control Point Operations

Item	Capability	Reference	Status
1	Delete bond of requesting device without authorization code	[1] 3.1.1	C.1
2	Delete all bonds on server without authorization code	[1] 3.1.1	O
3	Delete all but the active bond on server without authorization code	[1] 3.1.1	O
4	Delete bond of requesting device with authorization code	[1] 3.1.1	C.1
5	Delete all bonds on server with authorization code	[1] 3.1.1	O
6	Delete all but the active bond on server with authorization code	[1] 3.1.1	O

C.1: Mandatory to support at least one.

1.5.2.1 Control Point Authorization Code

Table 4: Control Point Authorization Code

Item	Capability	Reference	Status
1	Large authorization codes	[1] 3.1, 3.1.2	O

Note: Large authorization codes have a length of more than (minimum MTU – 1) bytes.

1.6 GATT requirements

Table 5: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Generic Attribute Profile (GATT) Server	[1] 1.5	M	[2] GATT 1/2
2	Write Characteristic Value	[1] 1.5	M	[2] GATT 4/14
3	Write Long Characteristic Values	[1] 1.5	C.1	[2] GATT 4/15
4	Characteristic Value Reliable Writes	[1] 1.5	C.2	[2] GATT 4/16

C.1: Mandatory IF BMS 4/1 “Large authorization codes”, otherwise Optional.

C.2: Mandatory IF BMS 2a/3 “Bond Management Control Point - Reliable Write”, otherwise not defined.

1.7 SDP requirements

Table 6: SDP requirements

Prerequisite: BMS 2/1 "Service supported over BR/EDR"

Item	Capability	Reference	Status
1	SDP record present for BMS	[1] 4	M
2–3	No longer used	N/A	N/A

2 References

- [1] Bond Management Service Specification, Version 1.0 or later
- [2] ICS Proforma for Generic Attribute Profile (GATT)
- [3] Bond Management Service Specification, Version 1.0.1

3 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2014-10-21	Publication
	1.0.1r00	2018-02-07	TSE 9946 (rating 1): Updated template. Removed Global Statement of Conformance to reflect current ICS conventions. Corrected Table 6 pre-requisite and conditionals.
1	1.0.1	2018-06-27	Approved by BTI. Prepared for TCRL 2018-1 publication.
	p2r00–r07	2021-02-16 – 2021-12-22	<p>TSE 16764 (rating 4): Added new ICS item 0a/1 for BMS v1.0.1 and new conditional C.1 in Table 0 for BMS v1.0. Added new ICS item 2a/4 and table (Table 2b) for E15767 - proper handling of changing supported features by characteristic indication. Added a reference for Bond Management Service Specification v1.0.1.</p> <p>TSE 18046 (rating 3): Added ICS Table 2a “Feature Requirements” items 1–3 and ICS for BMS Control Point and BMS Feature characteristics. Updated the conditional of BMS 5/4.</p> <p>TSE 18050 (rating 2): Updated the Control Point Tables 3 and 4 references and conditionals.</p> <p>Updated ICS to latest template and made editorial changes, including updating the copyright page to align with v2 of the DNMD and fixing C.1 in Table 2a.</p>
2	p2	2022-01-25	Approved by BTI on 2022-01-06. Prepared for TCRL 2021-2 publication.
	p3r00–r01	2023-09-11 – 2023-12-11	<p>TSE 23645 (rating 2): Resolved SDP inter-layer dependencies. Added a conditional to Table 0 and updated the existing C.1 (now C.2) and the Status value for Item 1. In Table 0a, updated C.1. In Table 2a, updated the Status value for Item 4 and deleted C.1. In Table 6, deleted the ILD column, updated the Capability value for Item 1, and marked Items 2 and 3 as no longer used. Updated the references.</p> <p>Made editorial edits to align the document with the latest ICS template, including updates to C.1 in Table 2, C.1 in Table 2b, C.1 in Table 3, and C.1 and C.2 in Table 5. Deleted draft revision history comments prior to p0.</p>
3	p3	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.

Acknowledgments

Name	Company
Jörg Brakensiek	Bluetooth SIG, Inc.
Ismail Mohamud	Bluetooth SIG, Inc.



Name	Company
Alicia Courtney	Broadcom
Magnus Sommansson	Qualcomm
Wolfgang Heck	Roche
Rasmus Abildgren	Samsung Electronics Co., Ltd.