

Physical Activity Monitor Profile (PAMP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

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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

Table 1: Role Requirements

Item	Role	Reference	Status
1	Physical Activity Monitor	[1] 2.1	C.1
2	Collector	[1] 2.1	C.1

C.1: Mandatory to support at least one.

1.3 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.5	C.1
2	Profile supported over LE	[1] 2.5	C.1

C.1: Mandatory to support at least one.

1.4 Physical Activity Monitor Role

Table 3: X.Y Versions (Physical Activity Monitor)

Prerequisite: PAMP 1/1 “Physical Activity Monitor”

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

Table 4: X.Y.Z Versions (Physical Activity Monitor)

Table number reserved but not yet in use

1.4.1 Services and Profiles – Physical Activity Monitor Role

Table 5: Services and Profiles Supported

Prerequisite: PAMP 1/1 “Physical Activity Monitor”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Physical Activity Monitor Service	[1] 3	M	[7] PAMS
2	Device Information Service	[1] 3	M	[4] DIS
3	User Data Service	[1] 3	C.1	[5] UDS
4	Device Time Profile	[1] 3.4	O	[6] DTP
5	PAMS UUID in AD Type field in GAP Discoverable Mode	[1] 3.1.1.1	C.2	N/A
6	Local Name included in AD	[1] 3.1.1.2	C.3	N/A

Item	Capability	Reference	Status	Inter-Layer Dependency
7	Local Name included in Scan Response Data	[1] 3.1.1.2	C.3	N/A
8	Writable Device Name	[1] 3.1.1.3	O	N/A
9	Appearance included in AD	[1] 3.1.1.4	C.4	N/A
10	Appearance included in Scan Response Data	[1] 3.1.1.4	C.4	N/A
11	Multiple Users	[1] 3.2	O	[7] PAMS 2/1

C.1: Mandatory IF PAMS 2/1 “Multiple Users”, otherwise Optional.

C.2: Optional IF PAMP 2/2 “Profile supported over LE”, otherwise Excluded.

C.3: Optional to support one and only one IF PAMP 2/2 “Profile supported over LE”, otherwise Excluded.

C.4: Optional to support one and only one IF PAMP 2/2 “Profile supported over LE”, otherwise Excluded.

1.4.2 DTP requirements – Physical Activity Monitor Role

Table 6: Device Time Profile Requirements

Prerequisite: PAMP 5/4 “Device Time Profile”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	DTP Server	[1] 3.4	M	[6] DTP 1/1

1.4.3 DIS requirements – Physical Activity Monitor Role

Table 7: Device Information Service Requirements

Prerequisite: PAMP 5/2 “Device Information Service”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Manufacturer Name String Characteristic	[1] 3.3	M	[6] DIS 2/2
2	Model Number String Characteristic	[1] 3.3	M	[6] DIS 2/3

1.4.4 GAP requirements – Physical Activity Monitor Role

Table 8: GAP Requirements – Physical Activity Monitor Role

Prerequisite: PAMP 1/1 “Physical Activity Monitor”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Peripheral	[1] 2.4.1	C.1	[3] GAP 5/3 OR GAP 38/3
2	LE security mode 1	[1] 6.1	C.1	[3] GAP 25/1

Item	Capability	Reference	Status	Inter-Layer Dependency
3	Unauthenticated Pairing (LE security mode 1 level 2)	[1] 6.1	C.2	[3] GAP 25/8
4	Authenticated Pairing (LE security mode 1 level 3)	[1] 6.1	C.2	[3] GAP 25/7

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

C.2: Mandatory to support at least one IF PAMP 2/2 “Profile supported over LE”, otherwise not defined.

1.5 Collector Role

Table 9: X.Y Versions (Collector)

Prerequisite: PAMP 1/2 “Collector”

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

Table 10: X.Y.Z Versions (Collector)

Table number reserved but not yet in use

1.5.1 Services and Profiles – Collector Role

Table 11: Client Services and Profiles Supported

Prerequisite: PAMP 1/2 “Collector”

Item	Version	Reference	Status	Inter-Layer Dependency
1	Discover Physical Activity Monitor Service	[1] 4	M	N/A
2	Discover Device Information Service	[1] 4	O	N/A
3	Discover User Data Service	[1] 4	M	N/A
4	Device Time Profile	[1] 4.9	M	[6] DTP
5	Writing User Data Service Characteristics	[1] 4.6	O	N/A

Table 12: PAM Service Characteristic Support Requirements – Collector Role

Prerequisite: PAMP 11/1 “Discover Physical Activity Monitor Service”

Item	Version	Reference	Status
1	Physical Activity Monitor Features	[1] 4.4.1	M
2	General Activity Instantaneous Data	[1] 4.4.2	M
3	General Activity Summary Data	[1] 4.4.3	M
4	CardioRespiratory Activity Instantaneous Data	[1] 4.4.4	O
5	CardioRespiratory Activity Summary Data	[1] 4.4.5	O



Item	Version	Reference	Status
6	Step Counter Activity Summary Data	[1] 4.4.6	O
7	Sleep Activity Instantaneous Data	[1] 4.4.7	O
8	Sleep Activity Summary Data	[1] 4.4.8	O
9	Physical Activity Monitor Control Point	[1] 4.4.9	M
10	Physical Activity Current Session	[1] 4.4.10	M
11	Physical Activity Session Descriptor	[1] 4.4.11	M

1.5.2 UDS requirements – Collector Role

Table 13: UDS Requirements – Collector Role

Prerequisite: PAMP 11/3 “Discover User Data Service”

Item	Version	Reference	Status
1	Database Change Increment	[1] 4.6.1	C.1
2	User Control Point	[1] 4.6.2	M
3	User Index	[1] 4	M
4	Other UDS characteristics	[1] 4.6.3	O
5	User Data Synchronization Procedure	[1] 4.6.4	C.2
6	Database Change Increment Notification	[1] 4.6.1	C.3

C.1: Mandatory IF PAMP 11/5 “Writing User Data Service Characteristics”, otherwise Optional.

C.2: Optional IF PAMP 13/1 “Database Change Increment”, otherwise Excluded.

C.3: Mandatory IF PAMP 13/5 “User Data Synchronization Procedure”, otherwise Optional.

1.5.3 DTP requirements – Collector Role

Table 14: DTP Requirements – Collector Role

Prerequisite: PAMP 11/4 “Device Time Profile”

Item	Version	Reference	Status	Inter-Layer Dependency
1	DTP Client	[1] 4.9	M	[6] DTP 1/2

1.5.4 GATT requirements – Collector Role

Table 15: GATT Requirements – Collector Role

Prerequisite: PAMP 1/2 “Collector”

Item	Version	Reference	Status	Inter-Layer Dependency
1	Discover All Primary Services	[1] 4.1	C.1	[2] GATT 3/2
2	Discover Primary Services by Service UUID	[1] 4.1	C.1	[2] GATT 3/3
3	Discover All Characteristics of a Service	[1] 4.1	C.2	[2] GATT 3/5
4	Discover Characteristics by UUID	[1] 4.1	C.2	[2] GATT 3/6



Item	Version	Reference	Status	Inter-Layer Dependency
5	Discover All Characteristic Descriptors	[1] 4.1	M	[2] GATT 3/7
6	Read Characteristic Value	[1] 4.1	M	[2] GATT 3/8
7	Read Long Characteristic Values	[1] 4.1	M	[2] GATT 3/10
8	Write Characteristic Value	[1] 4.1	M	[2] GATT 3/14
9	Read Characteristic Descriptors	[1] 4.1	M	[2] GATT 3/19
10	Write Characteristic Descriptors	[1] 4.1	M	[2] GATT 3/21
11	GATT Client over LE	[1] 2.1	C.3	[2] GATT 1a/1
12	GATT Client over BR/EDR	[1] 2.1	C.4	[2] GATT 1a/2

C.1: Mandatory to support at least one IF PAMP 2/2 “Profile supported over LE”, otherwise not defined.

C.2: Mandatory to support at least one.

C.3: Mandatory IF PAMP 2/2 “Profile supported over LE”, otherwise not defined.

C.4: Mandatory IF PAMP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

1.5.5 GAP requirements – Collector Role

Table 16: GAP Requirements – Collector Role

Prerequisite: PAMP 1/2 “Collector”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Central	[1] 2.4.1	C.1	[3] GAP 5/4 OR GAP 38/4
2	Initiation of dedicated bonding	[1] 6.3	C.2	[3] GAP 3/6
3	Bondable mode	[1] 6.2	C.1	[3] GAP 34/2
4	Bonding procedure	[1] 6.2	C.1	[3] GAP 34/3
5	LE security mode 1	[1] 6.1	C.1	[3] GAP 35/1
6	Unauthenticated Pairing (LE security mode 1 level 2)	[1] 6.1	C.1	[3] GAP 35/8
7	Authenticated Pairing (LE security mode 1 level 3)	[1] 6.1	C.1	[3] GAP 35/7
8	Bondable mode	[1] 6.3	C.3	[3] GAP 1/7

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

C.2: Mandatory IF PAMS 2/1 “Multiple Users” AND PAMP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

C.3: Mandatory IF PAMP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

2 References

- [1] Physical Activity Monitor Profile (PAMP) Specification, Version 1.0
- [2] ICS Proforma for Generic Attribute Profile (GATT)
- [3] ICS Proforma for Generic Access Profile (GAP)
- [4] ICS Proforma for Device Information Service (DIS)
- [5] ICS Proforma for User Data Service (UDS)
- [6] ICS Proforma for Device Time Profile (DTP)
- [7] ICS Proforma for Physical Activity Monitor Service (PAMS)

3 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2020-12-22	Approved by BTI on 2020-12-07. PAMP v1.0 adopted by BoD on 2020-12-15. Prepared for publication.
	p1r00	2023-10-05 – 2023-10-06	TSE 23950 (rating 2): Resolved GATT inter-layer dependencies. Made editorial edits to align the document with the latest ICS template, including updates to the IUT identification section, formatting updates to section and table titles, and removal of “is supported” language in conditionals. Updated C.1 for Tables 1 and 2. In Table 5, updated C.1–C.4. In Table 7, updated the Capability value for Items 1 and 2. In Table 8, updated the Status value for Item 1, the Capability value for Item 2, and conditionals C.1 and C.2. Updated the Capability value for Items 1–3 in Table 11. Corrected the heading in the Capability column for Tables 11–15. Updated the prerequisite for Tables 12 and 13. In Table 15, updated the Capability value for Items 5 and 7, added Items 11 and 12, updated C.1 and C.2, and added C.3 and C.4. In Table 16, updated the Capability values for Items 3–5 and the Status values for Items 4, 6, and 7; added Item 8; updated C.1 and C.2; deleted C.3 and C.4; and added a new C.3. Updated the formatting of the list of references. Updated the copyright page to align with v2 of the DNMD. Deleted draft revision history comments prior to p0.
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Name	Company
Bogdan Alexandru	Bluetooth SIG, Inc.
Andrei Frincu	Bluetooth SIG, Inc.
Charlie Lenahan	Bluetooth SIG, Inc.
Jawid Mirani	Bluetooth SIG, Inc.
Florin Toma	Bluetooth SIG, Inc.
Javier Espina	Koninklijke Philips N.V.