

Ranging Service (RAS)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** RAS.ICS.p0
- **Revision Date:** 2024-11-19
- **Prepared By:** Direction Finding Working Group
- **Published during TCRL:** TCRL.2024-2-addition



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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 Versions

Table 0: X.Y Versions

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

Table 0a: X.Y.Z Versions

Table number reserved but not yet in use.

1.3 Transports

Table 1: Transport Requirements

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 2.3	C.1
2	Service supported over LE	[1] 2.3	M

C.1: Excluded for this Service.

1.4 Features

Table 2: Ranging Service

Item	Capability	Reference	Status
1	RAS Features characteristic	[1] 3.1	M
2	Real-time Ranging Data characteristic	[1] 3.2.3	O
3	On-demand Ranging Data characteristic	[1] 3.2.4	M
4	RAS Control Point characteristic	[1] 3.3	M
5	Ranging Data Ready characteristic	[1] 3.4	M
6	Notify Ranging Data Ready characteristic	[1] 3.4	O
7	Read Ranging Data Ready characteristic	[1] 3.4	O
8	Ranging Data Overwritten characteristic	[1] 3.5	M
9	Notify Ranging Data Overwritten characteristic	[1] 3.5	O
10	Read Ranging Data Overwritten characteristic	[1] 3.5	O

1.4.1 RAS Control Point

Table 3: RAS Control Point Op Codes

Item	Capability	Reference	Status
1	Get Ranging Data	[1] 3.3.2.1	M
2	ACK Ranging Data	[1] 3.3.2.2	M
3	Retrieve Lost Ranging Data Segments	[1] 3.3.2.3	O
4	Abort Operation	[1] 3.3.2.5	O
5	Set Filter	[1] 3.3.2.4	O

1.5 GATT requirements

Table 4: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	GATT Server over LE	[1] 2.5	M	[2] GATT 1a/3
2	Exchange MTU	[1] 2.5	M	[2] GATT 4/1
3	Write without Response	[1] 2.5	M	[2] GATT 4/12
4	Notifications	[1] 2.5	M	[2] GATT 4/17
5	Indications	[1] 2.5	M	[2] GATT 4/18
6	Read Characteristic Descriptors	[1] 2.5	M	[2] GATT 4/19
7	Write Characteristic Descriptors	[1] 2.5	M	[2] GATT 4/21
8	Read Characteristic Value	[1] 2.5	M	[2] GATT 4/8

2 References

- [1] Ranging Service Specification, Version 1.0
- [2] ICS Proforma for Generic Attribute Profile (GATT)

3 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2024-11-19	Approved by BTI on 2024-10-29. RAS v1.0 adopted by the BoD on 2024-11-12. Prepared for initial publication.

Acknowledgments

Name	Company
Dejan Berec	Bluetooth SIG, Inc.
Tiberiu Marinescu	Bluetooth SIG, Inc.

