Global Navigation Satellite Systems Profile (GNSS)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

Revision: GNSS.ICS.p2Revision Date: 2023-02-07

Prepared By: BTI

Published during TCRL: TCRL.2022-2



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 © 2007–2023 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

	Ident	Identification of the implementation	
	1.1	Implementation Under Test (IUT) identification	4
	1.2	Version	
	1.3	Roles	5
	1.4	Server Role	5
	1.5	Client Role	5
	1.6	Profile and Protocol Dependencies	6
	1.6.1		
	1.6.2		
	1.6.3	RFCOMM requirements	6
2	Refe	rences	7
3	Revi	sion history and acknowledgments	8

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 Version

Table 0: Major Versions (X.Y)

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

1.3 Roles

Table 1: Role Requirements

Item	Role	Reference	Status
1	Server	[1] 2.2.1	C.1
2	Client	[1] 2.2.1	C.1

C.1: Mandatory to support at least one of GNSS 1/1 "Server" OR GNSS 1/2 "Client".

1.4 Server Role

Table 2: GNSS Capabilities of the Server

Prerequisite: GNSS 1/1 "Server"

Item	Capability	Reference	Status
1	Accept GNSS Connection	[1] 3.2	M
2	Release GNSS Connection	[1] 3.5	0
3	NMEA-0183 data transfer to Client	[1] 3.4.1	М
4	No longer used	N/A	N/A

1.5 Client Role

Table 3: GNSS Capabilities of the Client

Prerequisite: GNSS 1/2 "Client"

Item	Capability	Reference	Status
1	Initiate GNSS Connection	[1] 3.2	М
2	Release GNSS Connection	[1] 3.5	М
3	NMEA-0183 data transfer from Server	[1] 3.4.1	М

1.6 Profile and Protocol Dependencies

1.6.1 SDP requirements

Table 4: SDP Requirements

Prerequisite: GNSS 1/1 "Server"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Server	[1] 4.4	М	[4] SDP 1b/1
2	ProtocolDescriptorList	[1] 4.4	М	[4] SDP 9/2
3	BluetoothProfileDescriptorList	[1] 4.4	М	[4] SDP 9/14

1.6.2 GAP requirements

Table 5: GAP Requirements for Server

Prerequisite: GNSS 1/1 "Server"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Limited discoverable mode	[1] 4.5.1	C.1	[2] GAP 1/2
2	General discoverable mode	[1] 4.5.1	C.1	[2] GAP 1/3
3	Bondable mode	[1] 4.5.1	М	[2] GAP 1/7
4	Initiation of general bonding	[1] 4.5.1	М	[2] GAP 3/5
5	No longer used	N/A	N/A	N/A

C.1: Mandatory to support at least one of GNSS 5/1 "Limited discoverable mode" OR GNSS 5/2 "General discoverable mode".

Table 5a: GAP Requirements for Client

Prerequisite: GNSS 1/2 "Client"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Initiation of general inquiry	[1] 4.5.1	М	[2] GAP 3/1

1.6.3 RFCOMM requirements

Table 6: RFCOMM Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Initialize RFCOMM Session	[1] 4.1	C.1	[3] RFCOMM 1/1
2	Respond to Initialization of an RFCOMM Session	[1] 4.1	C.2	[3] RFCOMM 1/2

C.1: Mandatory IF GNSS 1/2 "Client", otherwise Optional.

C.2: Mandatory IF GNSS 1/1 "Server", otherwise Optional.



Bluetooth SIG Proprietary

2 References

- [1] Global Navigation Satellite Systems (GNSS) Profile Specification, Version 1.0
- [2] ICS Proforma for Generic Access Profile (GAP)
- [3] ICS Proforma for RFCOMM (RFCOMM)
- [4] ICS Proforma for Service Discovery Protocol (SDP)

3 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
	0.01	2007-11-10	First GNSS ICS Draft
	R03	2008-05-07	Updates to capabilities tables
	R04	2008-06-18	Add new ICS entry needed for new test cases. BTI review revealed a few requirements that were not tested.
	R05	2008-07-15	Address review comments
	R06	2008-08-08	Add optional capability of server initiated connection to tables
	R07	2011-01-24	Remove proprietary features SDP field feature
	R08	2012-01-24	Remove client SDP and server initiate connect
	R10	2012-02-22	Addressed all BTI comments
	R11	2012-02-27	Editorial Changes
0	1.0.0	2012-03-14	Prepare for publication.
	1.0.1r0	2017-04-10	TSE 8346: Template conversion and miscellaneous editorial changes. Table 0 added.
1	1.0.1	2017-07-03	Approved by BTI. Prepared for TCRL 2017-1 publication.
	p2r00-r01	2022-11-01 – 2022-11-10	TSE 19325 (rating 3): Updated to align with current ICS conventions/template. Removed Support columns and "is supported" language. Added ILD columns where appropriate. Corrected GAP references. Added missing GAP items (Security mode 1, 2, 3, 4). Replaced SPP requirements with RFCOMM requirements. Made minor changes to section headings. Added a Publication Number column to the Revision History. Revised the document numbering convention, setting the last release publication of 1.0.1 as p1. Performed additional template-related formatting fixes. Replaced the Bluetooth logo in the footer and updated the copyright page to align with v2 of the DNMD.
2	p2	2023-02-07	Approved by BTI on 2022-12-19. Prepared for TCRL 2022-2 publication.

Acknowledgments

Name	Company
Sowmya Ramjee	Bluetooth SIG, Inc.
Burch Seymour	Continental Automotive Systems