

Phone Alert Status Service (PASS)

Bluetooth® Test Suite

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1 Scope

This Bluetooth document contains the Test Suite Structure (TSS) and test cases to test the implementation of the Bluetooth Phone Alert Status Service Specification with the objective to provide a high probability of air interface interoperability between the tested implementation and other manufacturers' Bluetooth devices.

2 References, definitions, and abbreviations

2.1 References

This document incorporates provisions from other publications by dated or undated reference. These references are cited at the appropriate places in the text, and the publications are listed hereinafter. Additional definitions and abbreviations can be found in [1] and [2].

- [1] Test Strategy and Terminology Overview
- [2] Bluetooth Core Specification, Version 4.0 or later
- [3] Phone Alert Status Service Specification, Version 1.0
- [4] ICS Proforma for Phone Alert Status Service, PASS.ICS
- [5] GATT Test Suite, GATT.TS

2.2 Definitions

In this Bluetooth document, the definitions from [1] and [2] apply.

2.3 Abbreviations

In this Bluetooth document, the definitions, acronyms, and abbreviations from [1] and [2] apply.

3 Test Suite Structure (TSS)

3.1 Overview

The Phone Alert Status Service requires the presence of GAP, SM, and GATT. This is illustrated in [Figure 3.1](#).

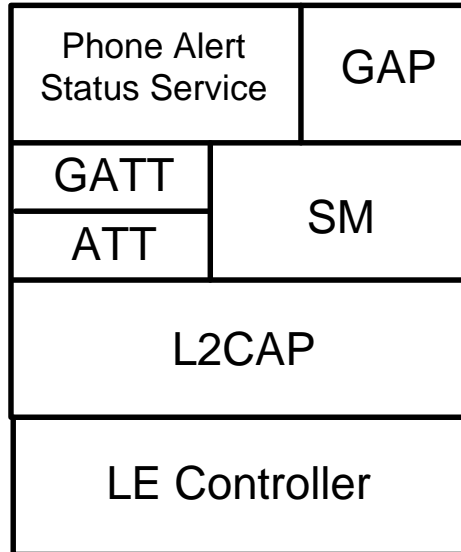


Figure 3.1: Phone Alert Status Service test model

3.2 Test Strategy

The test objectives are to verify the functionality of the Phone Alert Status Service within a Bluetooth Host and enable interoperability between Bluetooth Hosts on different devices. The testing approach covers mandatory and optional requirements in the specification and matches these to the support of the IUT as described in the ICS. Any defined test herein is applicable to the IUT if the ICS logical expression defined in the Test Case Mapping Table (TCMT) evaluates to true.

The test equipment provides an implementation of the Radio Controller and the parts of the Host needed to perform the test cases defined in this Test Suite. A Lower Tester acts as the IUT's peer device and interacts with the IUT over-the-air interface. The configuration, including the IUT, needs to implement similar capabilities to communicate with the test equipment. For some test cases, it is necessary to stimulate the IUT from an Upper Tester. In practice, this could be implemented as a special test interface, a Man Machine Interface (MMI), or another interface supported by the IUT.

This Test Suite contains Valid Behavior (BV) tests complemented with Invalid Behavior (BI) tests where required. The test coverage mirrored in the Test Suite Structure is the result of a process that started with catalogued specification requirements that were logically grouped and assessed for testability enabling coverage in defined test purposes.

3.3 Test groups

The following test groups have been defined:

- Generic GATT Integrated Tests
- Characteristic Read
- Characteristic Write
- Service Procedures

4 Test cases

4.1 Introduction

4.1.1 Test case identification conventions

Test cases are assigned unique identifiers per the conventions in [1]. The convention used here is:

<spec abbreviation>/<IUT role>/<class>/<feat>/<func>/<subfunc>/<cap>/<xx>-<nn>-<y>.

Additionally, testing of this specification includes tests from the GATT Test Suite [5] referred to as Generic GATT Integrated Tests (GGIT); when used, the GGIT tests are referred to through a TCID string using the following convention:

<spec abbreviation>/<IUT role>/<GGIT test group>/< GGIT class >/<xx>-<nn>-<y>.

Identifier Abbreviation	Spec Identifier <spec abbreviation>
PASS	Phone Alert Status Service
Identifier Abbreviation	Role Identifier <IUT role>
SR	Server Role
Identifier Abbreviation	Reference Identifier <GGIT test group>
SGGIT	Server Generic GATT Integrated Tests
Identifier Abbreviation	Reference Identifier <GGIT class>
CHA	Characteristic
SER	Service
Identifier Abbreviation	Feature Identifier <feat>
CCC	Client Characteristic Configuration
CR	Characteristic Read
CW	Characteristic Write
SP	Service Procedures

Table 4.1: PASS TC feature naming conventions

4.1.2 Conformance

When conformance is claimed for a particular specification, all capabilities are to be supported in the specified manner. The mandated tests from this Test Suite depend on the capabilities to which conformance is claimed.

The Bluetooth Qualification Program may employ tests to verify implementation robustness. The level of implementation robustness that is verified varies from one specification to another and may be revised for cause based on interoperability issues found in the market.

Such tests may verify:

- That claimed capabilities may be used in any order and any number of repetitions not excluded by the specification
- That capabilities enabled by the implementations are sustained over durations expected by the use case
- That the implementation gracefully handles any quantity of data expected by the use case

- That in cases where more than one valid interpretation of the specification exists, the implementation complies with at least one interpretation and gracefully handles other interpretations
- That the implementation is immune to attempted security exploits

A single execution of each of the required tests is required to constitute a Pass verdict. However, it is noted that to provide a foundation for interoperability, it is necessary that a qualified implementation consistently and repeatedly pass any of the applicable tests.

In any case, where a member finds an issue with the test plan generated by Launch Studio, with the test case as described in the Test Suite, or with the test system utilized, the member is required to notify the responsible party via an erratum request such that the issue may be addressed.

4.1.3 Pass/Fail verdict conventions

Each test case has an Expected Outcome section. The IUT is granted the Pass verdict when all the detailed pass criteria conditions within the Expected Outcome section are met.

The convention in this Test Suite is that, unless there is a specific set of fail conditions outlined in the test case, the IUT fails the test case as soon as one of the pass criteria conditions cannot be met. If this occurs, then the outcome of the test is a Fail verdict.

4.2 Setup preambles

The procedures defined in this section are provided for information, as they are used by test equipment in achieving the initial conditions in certain tests.

4.2.1 ATT Bearer on LE Transport

Follow the preamble procedure described in [5] Section 4.2.1.2.

4.3 Generic GATT Integrated Tests

Execute the Generic GATT Integrated Tests defined in [5] in Section 6.3, Server test procedures (SGGIT), using Table 4.2 below as input:

TCID	Service / Characteristic	Reference	Properties	Value Length (Octets)	Service Type
PASS/SR/SGGIT/SER/BV-01-C [Service GGIT – Phone Alert Status]	Phone Alert Status Service	[3] 2	-	-	Primary Service, Unique
PASS/SR/SGGIT/CHA/BV-01-C [Characteristic GGIT – Alert Status]	Alert Status Characteristic	[3] 3.1	0x12 (Read, Notify)	Skip	-
PASS/SR/SGGIT/CHA/BV-02-C [Characteristic GGIT – Ringer Setting]	Ringer Setting Characteristic	[3] 3.2	0x12 (Read, Notify)	Skip	-
PASS/SR/SGGIT/CHA/BV-03-C [Characteristic GGIT – Ringer Control Point]	Ringer Control Point Characteristic	[3] 3.3	0x04 (Write Without Response)	Skip	-

Table 4.2: Input for the GGIT Server test procedure

4.4 Configure Notification

- Test Purpose

Enable and disable the characteristic notification.
- Reference

[3] 3.1
- Initial Condition
 - Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1 and L2CAP channel.
 - The handle of the characteristic value referenced in the test cases below has been previously discovered by the Lower Tester during the test procedure in Section 4.3 or is known to the Lower Tester by other means.
 - If the IUT requires a bonding procedure then perform a bonding procedure.
 - If IUT permissions for the characteristic require a specific security mode or security level, establish a connection meeting those requirements.
 - The handle of the client characteristic configuration descriptor referenced in the test cases below has been previously discovered by the Lower Tester during the test procedure in Section 4.3 or is known to the Lower Tester by other means.
- Test Case Configuration

Test Case	Value Requirements
PASS/SR/CCC/BV-01-C [Configure Notification – Alert Status]	0x0000 (disable)
PASS/SR/CCC/BV-02-C [Configure Notification – Alert Status]	0x0001 (enable)
PASS/SR/CCC/BV-03-C [Configure Notification – Ringer Setting]	0x0000 (disable)
PASS/SR/CCC/BV-04-C [Configure Notification – Ringer Setting]	0x0001 (enable)

Table 4.3: Characteristic Notification test cases

- Test Procedure
 1. If the test case is not for notification, the Lower Tester sends an ATT_Write_Request to disable notification by writing value 0x0000 to the client characteristic configuration descriptor of the characteristic.
 2. If the test case is for notification, the Lower Tester sends an ATT_Write_Request to enable notification by writing value 0x0001 to the client characteristic configuration descriptor of the characteristic.
 3. Repeat steps 1 and 2 for each instance of the characteristic.

- Expected Outcome

Pass verdict

The characteristic descriptor is successfully written and the value returned when read is consistent with the value written.

4.5 Characteristic Read

- Test Purpose

Read using the GATT Read Characteristic Value sub-procedure and verify characteristic value.

- Reference

[3] 3.2

- Initial Condition

- The handle of each characteristic value referenced in the test cases below has been previously discovered by the Lower Tester during the test procedure in Section 4.3 or is known to the Lower Tester by other means.
- If the IUT requires a bonding procedure then perform a bonding procedure.
- Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.
- If IUT permissions for the characteristic require a specific security mode or security level, establish a connection meeting those requirements.

- Test Case Configuration

Test Case	Value Requirements
PASS/SR/CR/BV-01-C [Characteristic Read – Alert Status]	One octet ([3] 3.1)
PASS/SR/CR/BV-02-C [Characteristic Read – Ringer Setting]	One octet ([3] 3.2)

Table 4.4: Characteristic Read Value test cases

- Test Procedure

1. The Lower Tester sends an ATT_Read_Request to the IUT to read the characteristic value.
2. The IUT sends an ATT_Read_Response to the Lower Tester.
3. Verify that the characteristic value meets the requirements of the service.

- Expected Outcome

Pass verdict

The characteristic is successfully read and the characteristic value meets the requirements of the service as shown in Table 4.4.

4.6 Characteristic Write Without Response

Verify that the characteristics that support writing can be written.

PASS/SR/CW/BV-01-C [Ringer Control Point]

- Test Purpose

Write characteristic value.

- Reference

[3] 2.5.2.1

- Initial Condition
 - The handle of each characteristic value referenced in the test cases below has been previously discovered by the Lower Tester during the test procedure in Section 4.3 or is known to the Lower Tester by other means.
 - If the IUT requires a bonding procedure then perform a bonding procedure.
 - Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.
 - If IUT permissions for the characteristic require a specific security mode or security level, establish a connection meeting those requirements.

- Test Procedure

Select a value that is valid for the Ringer Control Point characteristic. Write the Ringer Control Point characteristic value by executing the GATT Write Without Response sub-procedure.

- Expected Outcome

Pass verdict

The Upper Tester verifies that the characteristic value is successfully written.

4.7 Service Procedures

Verify the operation of additional procedures defined in the service specification.

PASS/SR/SP/BV-01-C [Alert Status characteristic – Alert Status shows current status of the server]

- Test Purpose

Verify that the Alert Status characteristic on the IUT returns the status of the server.
- Reference

[3] 4.1
- Initial Condition
 - If the IUT requires a bonding procedure then perform a bonding procedure.
 - Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.
- Test Procedure
 1. No Alert
 - a) The Upper Tester changes the All Alert status of the IUT to no alerts.
 - b) The Lower Tester reads the Alert Status characteristic.
 2. Ringing
 - a) The Upper Tester changes the alert status of the IUT to “Ringer State is active”.
 - b) The Lower Tester reads the Alert Status characteristic.

3. Displaying
 - a) The Upper Tester changes the alert status of the IUT to “Display State is active”.
 - b) The Lower Tester reads the Alert Status characteristic.
4. Vibrating
 - a) The Upper Tester changes the alert status of the IUT to “Vibrating State is active”.
 - b) The Lower Tester reads the Alert Status characteristic.

- Expected Outcome

Pass verdict

The value of Alert Status characteristic in the IUT can be read as follows:

1. No Alert:

The bits of the Ringer State, Display Alert State and Vibrator State values in the Alert Status characteristic value are all “0 – Not-Active”.
2. Ringing:

The bit of the Ringer State in the Alert Status characteristic value is “1 - Active”.
3. Displaying:

The bit of the Display Alert State in the Alert Status characteristic value is “1 - Active”.
4. Vibrating:

The bit of the Vibrator State in the Alert Status characteristic value is “1 - Active”.

PASS/SR/SP/BV-02-C [Alert Status characteristic – The server notifies the current alert status]

- Test Purpose

Verify that the IUT notifies its alert status when the status changes.

- Reference

[3] 4.1

- Initial Condition

- Perform a bonding procedure if it is required by the IUT.
- The Client Characteristic Configuration for the Alert Status characteristic is set to “Notify”.
- Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.

- Test Procedure

1. No Alert:

The Upper Tester changes the alert status of the IUT from “Some Alerting status” to “Non Alert status”.

2. Ringing:

The Upper Tester changes the alert status of the IUT from “Non-Alerting status” to “Ringing status”.

3. Displaying:

The Upper Tester changes the alert status of the IUT from “Ringing status” to “Displaying Alert status”.

4. Vibrating:

The Upper Tester changes the alert status of the IUT from “Displaying Alert status” to “Vibrating status”.

- Expected Outcome

Pass verdict

The value of Alert Status characteristic in the IUT can be read as follows:

1. No Alert:

The bits of the Ringer State, Display Alert State and Vibrator State values in the Alert Status characteristic value are all “0 - Not-Active”.

2. Ringing:

The bit of the Ringer State in the Alert Status characteristic value is “1 - Active”.

3. Displaying:

The bit of the Display Alert State in the Alert Status characteristic value is “1 - Active”.

4. Vibrating:

The bit of the Vibrator State in the Alert Status characteristic value is “1 - Active”.

PASS/SR/SP/BV-04-C [Ringer Setting characteristic – Show the current status]

- Test Purpose

Verify that the IUT shows the current status of Ringer mode.

- Reference

[\[3\]](#) 4.1

- Initial Condition

- Perform a bonding procedure if it is required by the IUT.
- Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section [4.2.1](#).

- Test Procedure

1. The Upper Tester changes the Ringer mode of the Server to “Ringer Active mode”.
2. The Lower Tester reads the Ringer Setting characteristic.
3. The Upper Tester changes the Ringer mode of the Server to “Silent mode”.
4. The Lower Tester reads the Ringer Setting characteristic.

- Expected Outcome

Pass verdict

The value of the Ringer Setting of the IUT matches its mode.

PASS/SR/SP/BV-05-C [Ringer Setting characteristic – Notify the change for Ringer Setting]

- Test Purpose

Verify that the IUT notifies its Ringer Setting characteristic when the mode of the IUT changes.

- Reference

[3] 4.1

- Initial Condition

- Perform a bonding procedure if it is required by the IUT.
- Client Characteristic Configuration for the Ringer Setting characteristic is set to “Notify”.
- Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.

- Test Procedure

1. Silent mode to Ringer enable mode:

The Upper Tester changes the mode of the IUT from Silent mode to Ringer enable mode.

2. Ringer enable mode to Silent mode:

The Upper Tester changes the mode of the IUT from Ringer enable mode to Silent mode.

- Expected Outcome

Pass verdict

The IUT notifies the Ringer Setting value that shows correct mode.

PASS/SR/SP/BV-06-C [Ringer Control Point characteristic – Receive the Set Silent Mode command]

- Test Purpose

Verify that the IUT receives the value written in the Ringer Control Point and changes its ringer state or ringer setting for the Set Silent Mode command.

- Reference

[3] 4.1

- Initial Condition

- Perform a bonding procedure if it is required by the IUT.
- Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.
- Client Characteristic Configuration for the Ringer Setting characteristic is set to “Notify”.
- Change the ringer setting of the IUT to the “Normal mode”.

- Test Procedure

The Lower Tester writes “0x01” to the Ringer Control Point.

- Expected Outcome

Pass verdict

The mode of the IUT changes to Silent mode and the IUT notifies the Ringer Setting characteristic value that shows “Ringer silent”.

PASS/SR/SP/BV-07-C [Ringer Control Point characteristic – Receive the Cancel Silent Mode command]

- Test Purpose

Verify that the IUT receives the value written in the Ringer Control Point and changes its ringer state or ringer setting for the Cancel Silent Mode command.

- Reference

[3] 4.1

- Initial Condition

- Perform a bonding procedure if it is required by the IUT.
- Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.
- Client Characteristic Configuration for the Ringer Setting characteristic is set to “Notify”.
- Change the ringer setting of the IUT to the “Silent mode”.

- Test Procedure

The Lower Tester writes “0x03” to the Ringer Control Point.

- Expected Outcome

Pass verdict

The Ringer status of the IUT changes to the “Ringer enabled mode”, and the IUT notifies the Ringer Setting characteristic value that shows “Ringer normal”.

PASS/SR/SP/BV-08-C [Ringer Control Point characteristic – Receive the Mute Once command]

- Test Purpose

Verify that the IUT receives the value written in the Ringer Control Point and changes its ringer state or ringer setting for the Mute Once command.

- Reference

[3] 4.1

- Initial Condition

- Perform a bonding procedure if it is required by the IUT.
- Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section 4.2.1.

- Client Characteristic Configuration for the Alert Status characteristic is set to “Notify”.
- Change the alert status of the IUT to the “Ringer Active”.
- Test Procedure

The Lower Tester writes “0x02” to the Ringer Control Point.
- Expected Outcome

Pass verdict

The Ringer status of the IUT changes to the Non-active state, and the IUT notifies the Alert Status characteristic value that shows “Ringer is Not Active”.

PASS/SR/SP/BI-01-C [Ringer Control Point characteristic – Receive the unsupported command]

- Test Purpose

Verify that the IUT does nothing even if the value written in the Ringer Control Point is not supported.
- Reference

[\[3\]](#) 4
- Initial Condition
 - Perform a bonding procedure if it is required by the IUT.
 - Establish an ATT Bearer connection between the Lower Tester and the IUT as described in Section [4.2.1](#).
 - Client Characteristic Configuration for the Alert Status characteristic is set to “Notify”.
 - Client Characteristic Configuration for the Ringer Setting characteristic is set to “Notify”.
- Test Procedure

The Lower Tester writes any invalid values or invalid length of the commands into the Ringer Control Point Characteristic in the IUT.
- Expected Outcome

Pass verdict

The Ringer status of the IUT never changes.

5 Test case mapping

The Test Case Mapping Table (TCMT) maps test cases to specific capabilities in the ICS. The IUT is tested in all roles for which support is declared in the ICS document.

The columns for the TCMT are defined as follows:

Item: Contains a logical expression based on specific entries from the associated ICS document. Contains a logical expression (using the operators AND, OR, NOT as needed) based on specific entries from the applicable ICS document(s). The entries are in the form of y/x references, where y corresponds to the table number and x corresponds to the feature number as defined in the ICS document for Phone Alert Status Service (PASS) [4].

Feature: A brief, informal description of the feature being tested.

Test Case(s): The applicable test case identifiers are required for Bluetooth Qualification if the corresponding y/x references defined in the Item column are supported. Further details about the function of the TCMT are elaborated in [1].

For the purpose and structure of the ICS/IXIT, refer to [1].

Item	Feature	Test Case(s)
PASS 2/1	Discover Phone Alert Status service	PASS/SR/SGGIT/SER/BV-01-C
PASS 2/2	Alert Status characteristic	PASS/SR/SGGIT/CHA/BV-01-C
PASS 2/3	Ringer Setting characteristic	PASS/SR/SGGIT/CHA/BV-02-C
PASS 2/4	Ringer Control Point characteristic	PASS/SR/SGGIT/CHA/BV-03-C
PASS 2/5	Read Alert status	PASS/SR/CR/BV-01-C PASS/SR/SP/BV-01-C
PASS 2/6	Read Ringer setting	PASS/SR/CR/BV-02-C PASS/SR/SP/BV-04-C
PASS 2/7	Write Ringer Control Point characteristic	PASS/SR/CW/BV-01-C
PASS 2/8	Notify Alert Status characteristic	PASS/SR/CCC/BV-01-C PASS/SR/CCC/BV-02-C PASS/SR/SP/BV-02-C
PASS 2/9	Notify Ringer Setting characteristic	PASS/SR/CCC/BV-03-C PASS/SR/CCC/BV-04-C PASS/SR/SP/BV-05-C
PASS 2/10	Ringer Control Point Command Set Silent Mode	PASS/SR/SP/BV-06-C
PASS 2/11	Ringer Control Point Command Cancel Silent Mode	PASS/SR/SP/BV-07-C
PASS 2/12	Ringer Control Point Command Mute Once	PASS/SR/SP/BV-08-C
PASS 2/13	Receive Invalid commands	PASS/SR/SP/BI-01-C

Table 5.1: Test case mapping

6 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2011-09-15	Adopted by the Bluetooth SIG Board of Directors
	1.0.1r00	2014-04-11	TSE 5563: Revised one instance of TP/SP/BV-02-C in the TCMT to be TP/SP/BV-05-C mapped to 2/9.
	1.0.1r01	2014-06-01	Added Pass/Fail Verdict Conventions according to applicable TS template.
1	1.0.1	2014-07-07	TCRL 2014-1 Publication
	1.0.2r00	2016-05-26	Converted to new Test Case ID conventions as defined in TSTO v4.1.
	1.0.2r01	2016-06-06	Converted to current TS template
2	1.0.2	2016-07-14	Prepared for TCRL 2016-1 publication.
	1.0.2 edition 2r00	2018-11-29	Editorial changes only. Template updated. Revision History and contributors moved to the end of the document.
	1.0.2 edition 2	2020-01-09	Updated copyright page and confidentiality markings to support new Documentation Marking Requirements, performed minor formatting updates, and accepted all tracked changes to prepare for edition 2 publication.
	p3r00-r01	2023-05-05 – 2023-05-18	TSE 22811 (rating 2): Converted the following test cases to GGIT: PASS/SR/SD/BV-01-C; PASS/SR/DEC/BV-01-C – -03-C; and PASS/SR/CDD/BV-01-C and -02-C. The new GGIT converted TCIDs are: PASS/SR/SGGIT/CHA/BV-01-C – -03-C and PASS/SR/SGGIT/SER/BV-01-C. Updated the TCMT accordingly. Editorials to align the document with the latest TS template and DNMD, including setting the previous v1.0.2 as p2.
3	p3	2023-06-29	Approved by BTI on 2023-05-28. Prepared for TCRL 2023-1 publication.

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