Audio/Video Distribution Transport Protocol (AVDTP)

Bluetooth® Test Suite

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<td>AVDTP/SRC/ACP/L2C/EM/BV-04-C</td>
<td>223</td>
</tr>
<tr>
<td>AVDTP/SNK/ACP/L2C/EM/BV-04-C</td>
<td>223</td>
</tr>
</tbody>
</table>

### 5 Test Case Mapping

- AVDTP/SRC/INT/L2C/EM/BV-01-C
- AVDTP/SNK/INT/L2C/EM/BV-01-C
- AVDTP/SRC/ACP/L2C/EM/BV-02-C
- AVDTP/SNK/ACP/L2C/EM/BV-02-C
- AVDTP/SRC/INT/L2C/EM/BV-03-C
- AVDTP/SNK/INT/L2C/EM/BV-03-C
- AVDTP/SRC/ACP/L2C/EM/BV-04-C
- AVDTP/SNK/ACP/L2C/EM/BV-04-C

### 6 Revision History and Contributors

- AVDTP/SRC/INT/L2C/EM/BV-01-C
- AVDTP/SNK/INT/L2C/EM/BV-01-C
- AVDTP/SRC/ACP/L2C/EM/BV-02-C
- AVDTP/SNK/ACP/L2C/EM/BV-02-C
- AVDTP/SRC/INT/L2C/EM/BV-03-C
- AVDTP/SNK/INT/L2C/EM/BV-03-C
- AVDTP/SRC/ACP/L2C/EM/BV-04-C
- AVDTP/SNK/ACP/L2C/EM/BV-04-C
1 Scope

This Bluetooth document contains the Test Suite Structure (TSS) and Test Cases (TC) to test the Audio/Video Distribution Transport Protocol (AVDTP) Specification.

The objective of this test suite is to provide a basis for interoperability tests for Bluetooth devices giving a high probability of air interface interoperability between different manufacturers’ Bluetooth devices.
2 References, Definitions, and Abbreviations

2.1 References

This Bluetooth document incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. The most current version of the listed reference shall be used unless a specific version is noted.


3 Test Suite Structure (TSS)

3.1 Overview

The tests are organized through a formal test suite.

For the conformance tests, the qualification process is performed against a dedicated test system whose requirements are derived from the test suite specifications expressed in the present document.

The following section defines the tree structure of the conformance tests specified for AVDTP.

- **Signaling Procedures**
  - Stream management service
  - Security signaling service
  - Signaling message fragmentation service
  - Synchronization service

- **Transport Procedures**
  - Basic transport service
  - Reporting service
  - Recovery service
  - Multiplexing service
  - Robust header compression service

*Figure 3.1: AVDTP Test Suite Structure*

The test groups are organized in 3 levels.

1. The first level is dedicated to the type of procedure (transport or signaling).
2. The second level groups categorize the functionality in the service procedures
3. The third (last) level in each branch contains the standard ISO groups BV and BI.
3.2 Test Environment

Figure 3.2 provides a schematic view of the test environment required for executing the AVDTP test suite.

Figure 3.3: AVDTP Conformance Testing Configuration

Two entities are defined around the IUT: The informative Upper Tester and the Lower Tester. Both are referred to in the message sequence charts (MSC) describing the test procedures.

- The Upper Tester gathers the components providing an access to the upper interface of the AVDTP layer under test.
  - Upper Tester and upper interface (as described in section 13 of [3] and [5]) are of informative character; it is optional to provide them since they are specified for testing purposes only, and may be used as a basis for other application specific implementations. Hence, all AVDTP service
primitives and parameters (such as AVDT_Discover_Req) referred to in the Test Procedure (MSC), Test Condition, and Expected Outcome of each test case definition are not mandatory, but optional. As a consequence thereof, the expected outcome (Pass/Fail verdict) of a test case shall not depend on those service primitives and their (output) parameters, which are given here for information only.

- The Lower Tester gathers the components providing an access to the lower interface of the AVDTP layer under test.

- The test suites provided in this document do not aim at substituting for manufacturer's tests of topics like robustness, behavior in limit cases or even exhaustive generation of all the possible error codes for all the signaling messages or service primitives.

Nevertheless, the generation of error codes that result from a check performed by AVDTP itself on the Acceptor side on signaling messages (see Type 2 in the following bullets) is tested in at least one case for each error code (except for the NOT_SUPPORTED_COMMAND and UNSUPPORTED_CONFIGURATION error codes).

On the other hand, where AVDTP transports error codes that are not generated by it (see Types 1 and 3 in the following bullets); no exhaustive tests are performed for all possible error codes.

The approach used for testing the invalid behavior is the following:

- Type 1: On the INT side: Verify that the IUT detects the rejection by the ACP of all the types of command messages.

- Type 2: On the ACP side: Verify that the IUT is able to issue by itself reject response messages in answer to all the types of command messages received.

- Type 3: The AVDTP specification document ([3] and [5]) specifies in its Section 6.5 all the possible states transitions for a stream end point.

The test cases presented in the current document intend to set a SEP in all the possible states, but not to test exhaustively all the possible states transitions.
4 Test Cases (TC)

4.1 Introduction

4.1.1 Test Case Identification Conventions

Test cases shall be assigned unique identifiers per the conventions in [6]. The convention used here is `<spec abbreviation>/<IUT role>/<class>/<feat>/<func>/<subfunc>/<cap>/<xx>-<yy>`.

Bolded ID parts shall appear in the order prescribed. Non-bolded ID parts (if applicable) shall appear between the bolded parts. The order of the non-bolded parts may vary from test suite to test suite, but shall be consistent within each individual test suite.

Testing of AVDTP functionality includes tests that refer to multiple roles in combination referred to in this TCMT per the following convention `<spec abbreviation>/<IUT role>/<AVDTP Secondary role>/<feat>`.

<table>
<thead>
<tr>
<th>Identifier Abbreviation</th>
<th>Spec Identifier &lt;spec abbreviation&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVDTP</td>
<td>Audio/Video Distribution Transport Protocol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Identifier Abbreviation</th>
<th>Role Identifier &lt;IUT role&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNK</td>
<td>Sink Role</td>
</tr>
<tr>
<td>SRC</td>
<td>Source Role</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Identifier Abbreviation</th>
<th>Secondary Role Identifier &lt;AVDTP Secondary role&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACP</td>
<td>Acceptor Role</td>
</tr>
<tr>
<td>INT</td>
<td>Initiator Role</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Identifier Abbreviation</th>
<th>Feature Identifier &lt;feat&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM</td>
<td>Basic Mode</td>
</tr>
<tr>
<td>BTR</td>
<td>Basic Transport service</td>
</tr>
<tr>
<td>EM</td>
<td>Enhanced Modes</td>
</tr>
<tr>
<td>ESRnn</td>
<td>Errata Service Release derived test where “nn” signifies the ESR release number (e.g., ESR02, ESR04, ESR05)</td>
</tr>
<tr>
<td>FRA</td>
<td>Message Fragmentation service</td>
</tr>
<tr>
<td>L2C</td>
<td>L2CAP Configuration</td>
</tr>
<tr>
<td>MUX</td>
<td>Multiplexing service</td>
</tr>
<tr>
<td>REC</td>
<td>Recovery service</td>
</tr>
<tr>
<td>REP</td>
<td>Reporting service</td>
</tr>
<tr>
<td>Identifier Abbreviation</td>
<td>Spec Identifier &lt;spec abbreviation&gt;</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>RHC</td>
<td>Robust Header Compression service</td>
</tr>
<tr>
<td>SEC</td>
<td>Security signaling service</td>
</tr>
<tr>
<td>SIG</td>
<td>Signaling procedure</td>
</tr>
<tr>
<td>SMG</td>
<td>Stream Management service</td>
</tr>
<tr>
<td>SYN</td>
<td>Synchronization</td>
</tr>
<tr>
<td>TRA</td>
<td>Transport procedure</td>
</tr>
</tbody>
</table>

*Table 4.1: AVDTP TC Feature Naming Convention*

### 4.1.2 Conformance

When conformance is claimed, all capabilities indicated as mandatory for this Specification shall be supported in the specified manner (process-mandatory). This also applies for all optional and conditional capabilities for which support is indicated. All mandatory capabilities, and optional and conditional capabilities for which support is indicated, are subject to verification as part of the Bluetooth Qualification Program.

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 that is not excluded by the Specification, OR
- That capabilities enabled by the implementations are sustained over durations expected by the use case, OR
- That the implementation gracefully handles any quantity of data expected by the use case, OR
- That in cases where more than one valid interpretation of the Specification exist, the implementation complies with at least one interpretation and gracefully handles other interpretations OR
- That the implementation is immune to attempted security exploits.

A single execution of each of the required tests is required in order to constitute a pass verdict. However, it is noted that in order 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, 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 errata request such that the issue may be addressed.
4.1.3 Assumptions

Only one point-to-point configuration is considered.

To execute the AVDTP test suite, it is required that the Bluetooth reference stack layers below AVDTP on the IUT are in conformance with their respective specifications.

The IUT has the role of initiator, acceptor, source or sink depending on the test case. The selected role is specified for each test case.

An ACL link has been set-up between the IUT and the Lower Tester.

One L2CAP channel is set-up and configured between the IUT and the Lower Tester.

4.1.4 Mapping of Error Codes and Test Purposes

The following table provides for each error code that is generated by AVDTP itself (see sections 8.18.6.2 in [3] and 8.20.6.2 in [5] and the identification of the test purpose of type 2, as defined in Section 4.1.1 of this document) that verifies its implementation. Note that for some tests there are multiple errors codes that may be applicable.

<table>
<thead>
<tr>
<th>Error Mnemonic</th>
<th>Test Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAD_STATE</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-16-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-16-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-17-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-17-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-19-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-20-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-20-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-22-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-22-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-25-C</td>
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<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-26-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-26-C</td>
</tr>
<tr>
<td>BAD_HEADER_FORMAT</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-01-C</td>
</tr>
<tr>
<td>Error Mneumonic</td>
<td>Test Purpose</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BAD_LENGTH</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-04-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-04-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-05-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-05-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-32-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-32-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-33-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-33-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/TRA/REP/ESR02/BI-01-C</td>
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<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/REP/ESR02/BI-01-C</td>
</tr>
<tr>
<td>BAD_ACP_SEID</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-10-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-10-C</td>
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<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-11-C</td>
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<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-11-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-23-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-23-C</td>
</tr>
<tr>
<td>SEP_IN_USE</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-07-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-07-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-08-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-08-C</td>
</tr>
<tr>
<td>SEP_NOT_IN_USE</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/ESR05/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/ESR05/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td>BAD_SERV_CATEGORY</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/INT/SIG/SMG/ESR05/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/INT/SIG/SMG/ESR05/BI-13-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td>Error Mnemonic</td>
<td>Test Purpose</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>NOT_SUPPORTED_COMMAND</td>
<td>None</td>
</tr>
<tr>
<td>UNSUPPORTED_CONFIGURATION</td>
<td>None</td>
</tr>
<tr>
<td>INVALID_CAPABILITIES</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-14-C</td>
</tr>
<tr>
<td>BAD_REPORT_TYPE – Error Code not defined by the AVDTP Specification. In case the format of the Reporting Service Capability is not correct, the BAD_LENGTH or BAD_PAYLOAD_FORMAT error code shall be used.</td>
<td>None</td>
</tr>
<tr>
<td>BAD_RECOVERY_TYPE</td>
<td>AVDTP/SRC/ACP/TRA/REC/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/REC/BI-01-C</td>
</tr>
<tr>
<td>BAD_MEDIA_TRANSPORT_FORMAT</td>
<td>AVDTP/SRC/ACP/TRA/BTR/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/BTR/BI-01-C</td>
</tr>
<tr>
<td>BAD_REPORT_FORMAT – Error Code not defined by the AVDTP Specification. In case the format of the Reporting Service Capability is not correct, the BAD_LENGTH or BAD_PAYLOAD_FORMAT error code shall be used.</td>
<td>AVDTP/SRC/ACP/TRA/REP/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/REP/BI-01-C</td>
</tr>
<tr>
<td>BAD_PAYLOAD_FORMAT</td>
<td>AVDTP/SRC/ACP/TRA/REP/ESR02/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/REP/ESR02/BI-01-C</td>
</tr>
<tr>
<td>BAD_RECOVERY_FORMAT</td>
<td>AVDTP/SRC/ACP/TRA/REC/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/REC/BI-01-C</td>
</tr>
<tr>
<td>BAD_ROHC_FORMAT</td>
<td>AVDTP/SRC/ACP/TRA/RHC/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/RHC/BI-01-C</td>
</tr>
<tr>
<td>BAD_CP_FORMAT</td>
<td>AVDTP/SRC/ACP/SIG/SEC/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/SIG/SEC/BI-01-C</td>
</tr>
<tr>
<td>BAD_MULTIPLEXING_FORMAT</td>
<td>AVDTP/SRC/ACP/TRA/MUX/BI-01-C</td>
</tr>
<tr>
<td></td>
<td>AVDTP/SNK/ACP/TRA/MUX/BI-01-C</td>
</tr>
</tbody>
</table>

Table 4.2: Error Code Mapping

4.1.5 Pass/Fail Verdict Conventions

Each test case has an Expected Outcome section, which outlines all the detailed pass criteria conditions that shall be met by the IUT to merit a Pass Verdict.

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 the outcome of the test shall be the Fail Verdict.
4.2  **Signaling**

Test group objective is to verify the correct implementation of the signaling procedures.

4.2.1  **Stream Management Service**

Test subgroup objective is to verify that the following procedures are implemented according to their specification in AVDTP:

- Stream end-point discovery
- Get capabilities
- Stream configuration and reconfiguration
- Stream establishment
- Stream start, suspend and release

4.2.1.1  **Stream Discover command - INT**

- Test Case ID(s)
  
  **AVDTP/SRC/INT/SIG/SMG/BV-05-C**
  
  **AVDTP/SNK/INT/SIG/SMG/BV-05-C**

- Test Purpose
  
  To verify that the IUT (INT) is able to issue a valid stream discover command and report the replied SEPs and media types.

- Reference
  
  [3] 6.4, 6.6, 8.6, 13.1
  
  [5] 6.4, 6.6, 8.6, 13.1

- Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

AVDT_Sig_Event_Registration
(Event, Callback)

AVDT_Sig_Event_Registration
(Result)

AVDT_Discover_Req
(BD_ADDR)

AVDT_Discover_Req
(Transaction, RSP)

AVDTP_DISCOVER_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id)

AVDTP_DISCOVER_RSP
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, NSEP_det)

DiscoverCfm_CB
(Transaction, ListOfSeidsPrimayData ErrorCode)

Figure 4.1: AVDTP/SRC/INT/SIG/SMG/BV-05-C, AVDTP/SNK/INT/SIG/SMG/BV-05-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Discover_Cfm
- Callback = DiscoverCfm_CB

Parameters for the AVDT_Discover_Req service primitive:

- BD_ADDR = BD_ADDR_{Lower Tester}

Fields of AVDTP_DISCOVER_RSP:

- Transaction_label = Transaction_{IUT}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x01 (AVDTP_DISCOVER)
- NSEP_det = Valid SEID values

• Expected Outcome
  **Pass verdict**

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Discover_Req service primitive are:

  - Transaction = Transaction$_{IUT}$ = Any value.
  - RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

  - Transaction_label = Transaction$_{IUT}$
  - Message_type = 00 (command)
  - Signal_Id = 0x01 (AVDTP_DISCOVER)

DiscoverCfm_CB is invoked with the following parameters:

  - Transaction = Transaction$_{IUT}$
  -ListOfSeidsPrimaryData = The values provided with AVDTP_DISCOVER_RSP
  - ErrorCode = SUCCESS

4.2.1.2 Stream Discover Command – ACP

• Test Case ID(s)

  - AVDTP/SRC/ACP/SIG/SMG/BV-06-C
  - AVDTP/SNK/ACP/SIG/SMG/BV-06-C

• Test Purpose

  To verify that the IUT (ACP) reports the reception of a valid stream discover command and replies the returned list of SEPs and media types.

• Reference

  [3] 6.4, 6.6, 8.6, 13.1
  [5] 6.4, 6.6, 8.6, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

![Diagram of AVDTP protocol interactions]

**Figure 4.2: AVDTP/SRC/ACP/SIG/SMG/BV-06-C, AVDTP/SNK/ACP/SIG/SMG/BV-06-C**

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Discover_Ind
- Callback = DiscoverInd_CB

Fields of AVDTP_DISCOVER_CMB:

- Transaction_label = Transaction_LowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x01 (AVDTP_DISCOVER)
Parameters for the AVDT_DiscoverRsp service primitive:

- Transaction = Transaction\textsubscript{LowerTester}
- BD_ADDR = BD_ADDR\textsubscript{LowerTester}
- ListOfSeidsPrimaryData contains valid SEID values
- ErrorCode = SUCCESS

• Expected Outcome
  
  Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

DiscoverInd_CB is invoked with the following parameters:

  Transaction = Transaction\textsubscript{LowerTester}
  
  BD_ADDR = BD_ADDR\textsubscript{LowerTester}

The output parameter of the AVDT_Discover_Rsp service primitive are:

  RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction\_label = Transaction\textsubscript{LowerTester}
  
  Message\_type = 10 (response accept)
  
  Signal\_Id = 0x01 (AVDTP_DISCOVER)
  
  NSEP\_det = The values provided with AVDT_Discover_Rsp

4.2.1.3 Get Capabilities Command – INT

• Test Case ID(s)

  AVDTP/SRC/INT/SIG/SMG/BV-07-C
  
  AVDTP/SNK/INT/SIG/SMG/BV-07-C

• Test Purpose
  
  To verify that the IUT (INT) is able to issue a valid query for remote SEP capabilities and reports the replied ones.

• Reference

  [3] 6.4, 6.7, 8.7, 13.1
  
  [5] 6.4, 6.7, 8.7, 13.1
• **Initial Condition**
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

• **Test Procedure**

![Diagram of test procedure]

[Figure 4.3: AVDTP/SRC/INT/SIG/SMG/BV-07-C, AVDTP/SNK/INT/SIG/SMG/BV-07-C]

• **Test Condition**
Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_GetCapabilities_Cfm
- Callback = GetCapabilitiesCfm_CB

Parameters for the AVDT_GetCapabilities_Req service primitive:

- BD_ADDR = BD_ADDR_{LowerTester}
- SEID = SEID_{LowerTester} = Any value

Fields of AVDTP_GET_CAPABILITIES_RSP:

- Transaction_label = Transaction_{IUT}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
- Service_Capabilities = Valid capabilities values for each of the following types: Media transport, reporting, recovery, video codec or audio codec or multimedia codec, content protection, header compression, multiplexing

• Expected Outcome
  
  Pass verdict
  
  The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).
  
  The output parameters of the AVDT_Get_Capabilities_Req service primitive are:

  Transaction = Transaction_IUT = Any value
  
  RSP = REQUEST_ACCEPTED
  
  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_IUT
  
  Message_type = 00 (command)
  
  Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
  
  SEID = SEID_LowerTester
  
  GetCapabilitiesCfm_CB is invoked with the following parameters:

  Transaction = Transaction_IUT
  
  Stream_capabilities = The values provided with
  
  AVDTP_GET_CAPABILITIES_RSP
  
  ErrorCode = SUCCESS
4.2.1.4 Get Capabilities Response – ACP

- Test Case ID(s)

**AVDTP/SRC/ACP/SIG/SMG/BV-08-C**

**AVDTP/SNK/ACP/SIG/SMG/BV-08-C**

- Test Purpose
  To verify that the IUT (ACP) reports the reception of a valid query for remote SEP capabilities and replies the returned capabilities.

- Reference
  [3] 6.4, 6.7, 8.7, 13.1
  [5] 6.4, 6.7, 8.7, 13.1

- Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

- Test Procedure

![Diagram of test procedure](image)

---

*Figure 4.4: AVDTP/SRC/ACP/SIG/SMG/BV-08-C, AVDTP/SNK/ACP/SIG/SMG/BV-08-C*
• **Test Condition**

  Parameters for the AVDT_Sig_Event_Registration service primitive:
  - Event = AVDT_Get_Capabilities_Ind
  - Callback = GetCapabilitiesInd_CB

  Fields of AVDTP_GET_CAPABILITIES_CMD:
  - Transaction_label = Transaction\_LowerTester = Any value
  - Packet_type = 00 (single packet)
  - Reserved = 00
  - Message_type = 00 (command)
  - Signal\_Id = 0x02 (AVDTP\_GET\_CAPABILITIES)
  - SEID = SEID\_IUT = Any value

  Parameters for the AVDT_Get_Capabilities_Rsp service primitive:
  - Transaction = Transaction\_LowerTester
  - BD\_ADDR = BD\_ADDR\_LowerTester
  - SEID = SEID\_IUT
  - Capabilities = Valid capabilities values for each category that the addressed SEP supports.
  - ErrorCode = SUCCESS

• **Expected Outcome**

  **Pass verdict**

  The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

  GetCapabilitiesInd\_CB is invoked with the following parameters:

  Transaction = Transaction\_LowerTester

  BD\_ADDR = BD\_ADDR\_LowerTester

  SEID = SEID\_IUT

  The output parameter of the AVDT_Get_Capabilities_Rsp service primitive:

  RSP = REQUEST_ACCEPTED
The Lower Tester receives the AVDTP signaling message with the fields:

- **Transaction_label** = Transaction\textsubscript{LowerTester}
- **Message_type** = 10 (response accept)
- **Signal_Id** = 0x02 (AVDTP\_GET\_CAPABILITIES)
- **SEID** = SEID\textsubscript{IUT}
- **ServiceCapabilities** = The values provided with AVDTP\_Get\_Capabilities\_Rsp

### 4.2.1.5 Set Configuration Command – INT

**Test Case ID(s)**

- AVDTP/SRC/INT/SIG/SMG/BV-09-C
- AVDTP/SNK/INT/SIG/SMG/BV-09-C

**Test Purpose**

To verify that the IUT (INT) is able to issue a valid set configuration command for remote SEP and reports the replied confirmation.

**Reference**

- [3] 6.4, 6.8, 8.8, 13.1
- [5] 6.4, 6.9, 8.9, 13.1

**Initial Condition**

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

SEP is in idle state.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

![Diagram of Audio/Video Distribution Transport Protocol (AVDTP) Test Suite](image)

**Figure 4.5:** AVDTP/SRC/INT/SIG/SMG/BV-09-C, AVDTP/SNK/INT/SIG/SMG/BV-09-C

- **Test Condition**

  Parameters for the AVDT_Sig_Event_Registration service primitive:
  - Event = AVDT_Set_Configuration_Cfm
  - Callback = SetConfigurationCfm_CB

  Parameters for the AVDT_Set_Configuration_Req service primitive:
  - BD_ADDR = BD_ADDR_LowerTester
  - SEID = SEID_LowerTester = Any value
  - StreamConfigurationParameters = Valid configurations for (a subset of) capabilities supported by the addressed Stream End Point. Except for Content protection, at most one Service Capabilities information element per category may appear in the payload of the message

Fields of AVDTP_SET_CONFIGURATION_RSP:
- Transaction_label = Transaction_IUT

---

Bluetooth SIG Proprietary
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)

• Expected Outcome

**Pass verdict**

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Set_Configuration_Req service primitive are:

- Transaction = Transaction_{IUT} = Any value
- StreamHandle = SH_{IUT} = Any value
- RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

- Transaction_label = Transaction_{IUT}
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEID_{LowerTester}
- INT_SEID = Any value

SetConfigurationCfm_CB is invoked with the following parameters:

- Transaction = Transaction_{IUT}
- FailingStreamConfigurationParameters = Empty list

### 4.2.1.6 Set Configuration Response – ACP

• Test Case ID(s)

**AVDTP/SRC/ACP/SIG/SMG/BV-10-C**

**AVDTP/SNK/ACP/SIG/SMG/BV-10-C**

• Test Purpose

To verify that the IUT (ACP) reports the reception of a valid set configuration command for remote SEP, and configures the SEP as requested and replies the returned confirmation.
• Reference

[3] 6.4, 6.8, 8.8, 13.1

[5] 6.4, 6.9, 8.9, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

SEP is in idle state.

• Test Procedure

![Diagram of test procedure]

- Parameters for the AVDT_Sig_Event_Registration service primitive:
  - Event = AVDT_Set_Configuration_Ind
  - Callback = SetConfigurationInd_CB
Fields of AVDTP_SET_CONFIGURATION_CMD:

- Transaction_label = TransactionLowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEID_IUT = Any value
- INT_SEID = Any value
- Service_Capabilities = Valid capabilities values for each category that the addressed SEP supports

Parameters for the AVDT_Set_Configuration_Rsp service primitive:

- Transaction = TransactionLowerTester
- Stream_Handle = SH_IUT
- FailingStreamConfigurationParameters = Empty list

• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

SetConfigurationInd_CB is invoked with the following parameters:

Transaction = TransactionLowerTester
BD_ADDR = BD_ADDRLowerTester
SEID = SEID_IUT
Stream_Handle = SH_IUT = Any value
ConfigurationParameters = The configuration values provided with AVDTP_SET_CONFIGURATION_CMD

The output parameters of the AVDT_Set_Configuration_Rsp service primitive are:

RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = TransactionLowerTester
Message_type = 10 (response accept)

Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)

4.2.1.7 Get Configuration Command – INT

• Test Case ID(s)

   AVDTP/SRC/INT/SIG/SMG/BV-11-C
   AVDTP/SNK/INT/SIG/SMG/BV-11-C

• Test Purpose

   To verify that the IUT (INT) is able to issue a valid get configuration command for remote SEP and report the replied configuration.

• Reference

   [3] 6.4, 6.9, 8.9, 13.1

• Initial Condition

   One L2CAP channel for signaling is established between the IUT and the Lower Tester.

   The SEP identified by SEID<sub>LowerTester</sub> has been configured (Stream handle = SH<sub>IUT</sub> (see Section 4.2.1.5 - Set Configuration Command – INT).
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Upper Tester has configured SEID_{Lower Tester} (Stream handle = SH_{IUT})

AVDTP_GET_CONFIGURATION_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID)

AVDTP_GET_CONFIGURATION_RSP
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Capabilities)

AVDT_Sig_Event_Registration
(Event, Callback)

AVDT_Sig_Event_Registration
(Result)

AVDT_Get_Configuration_Req
(StreamHandle)

AVDT_Get_Configuration_Req
(Transaction, RSP)

GetConfigurationCfm_CB
(Transaction, StreamConfigurationParameters, ErrorCode)

Figure 4.7: AVDTP/SRC/INT/SIG/SMG/BV-11-C, AVDTP/SNK/INT/SIG/SMG/BV-11-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:
  - Event = AVDT_Get_Configuration_Cfm
  - Callback = GetConfigurationCfm_CB

Parameters for the AVDT_Get_Configuration_Req service primitive:
  - SH = SH_{IUT} = The value corresponding to SEID_{Lower Tester}

Fields of AVDTP_GET_CONFIGURATION_RSP:
  - Transaction_label = Transaction_{IUT}
  - Packet_type = 00 (single packet)
  - Reserved = 00
  - Message_type = 10 (response accept)
  - Signal_Id = 0x04 (AVDTP_GET_CONFIGURATION)
- Service_Capabilities = Valid capabilities values for each category that the addressed SEP supports

• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Get_Configuration_Req service primitive are:

Transaction = Transaction\textsubscript{IUT} = Any value

RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction\_label = Transaction\textsubscript{IUT}

Message\_type = 00 (command)

Signal\_Id = 0x04 (AVDTP\_GET\_CONFIGURATION)

SEID = SEID\textsubscript{LowerTester}

GetConfigurationCfm\_CB is invoked with the following parameters:

Transaction = Transaction\textsubscript{IUT}

StreamConfigurationParameters = The values provided with AVDTP\_GET\_CONFIGURATION\_RSP

ErrorCode = SUCCESS

4.2.1.8 Get Configuration Response – ACP

• Test Case ID(s)

AVDTP/SRC/ACP/SIG/SMG/BV-12-C

AVDTP/SNK/ACP/SIG/SMG/BV-12-C

• Test Purpose

To verify that the IUT (ACP) reports the reception of a valid get configuration command for remote SEP and replies the returned configuration.

• Reference

[3] 6.4, 6.9, 8.9, 13.1

• Initial Condition
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has configured the SEP identified by SEID$_{\text{IUT}}$ (see Section 4.2.1.6 - Set Configuration Response – ACP).

• Test Procedure

![Diagram showing test procedure](image)

Figure 4.8: AVDTP/SRC/ACP/SIG/SMG/BV-12-C, AVDTP/SNK/ACP/SIG/SMG/BV-12-C

• Test Condition
Parameters for the AVDT_Sig_Event_Registration service primitive:
- Event = AVDT_Get_Configuration_Ind
- Callback = GetConfigurationInd_CB

Fields of AVDTP_GET_CONFIGURATION_CMD:
- Transaction_label = Transaction$_{\text{LowerTester}}$ = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- **Message_type** = 00 (command)
- **Signal_Id** = 0x04 (AVDTP_GET_CONFIGURATION)
- **SEID = SEID_{IUT} = Any value**

Parameters for the AVDTP\_Get\_Configuration\_Rsp service primitive:

- **Transaction = Transaction\\_\text{LowerTester}**
- **StreamHandle = SH_{IUT} = The value corresponding to SEID_{IUT}**
- **Service\_Capabilities = Valid capabilities values for each category that the addressed SEP supports.**
- **ErrorCode = SUCCESS**

- **Expected Outcome**

  **Pass verdict**

  The output parameter: Result of the AVDTP\_Sig\_Event\_Registration service primitive is 0x0000 (Event successfully registered).

  GetConfigurationInd\_CB is invoked with the following parameters:

  - **Transaction = Transaction\\_\text{LowerTester}**
  - **StreamHandle = SH_{IUT}**

  The output parameters of the AVDTP\_Get\_Configuration\_Rsp service primitive are:

  - **RSP = REQUEST\_ACCEPTED**

  The Lower Tester receives the AVDTP signaling message with the fields:

  - **Transaction\_label = Transaction\\_\text{LowerTester}**
  - **Message\_type = 10 (response accept)**
  - **Signal\_Id = 0x04 (AVDTP\_GET\_CONFIGURATION)**
  - **Service\_Capabilities = The values provided with AVDTP\_Get\_Configuration\_Rsp**
4.2.1.9 Reconfigure Command – INT

- Test Case ID(s)
  
  **AVDTP/SRC/INT/SIG/SMG/BV-13-C**
  
  **AVDTP/SNK/INT/SIG/SMG/BV-13-C**

- Test Purpose
  
  To verify that the IUT (INT) is able to issue a valid reconfigure command for remote SEP and report the replied confirmation.

- Reference
  
  
  [5] 6.4, 6.15, 8.11, 13.1

- Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The SEP identified by SEID\textsubscript{LowerTester} has been configured, established (opened and started) and then suspended.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. SEID_LowerTester has been configured, opened, started and then suspended.

AVDTP_RECONFIGURE_CMD
(Transaction_label, Packet_type, Reserved, Message_type, Signal_Id, SEID, Service_Capabilities)

AVDTP_RECONFIGURE_RSP
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id)

AVDTP_Sig_Event_Registration
(Event, Callback)

AVDTP_Sig_Event_Registration
[Result]

AVDT_ReConfigureReq
[Stream_Handle,ListOfReconfigurableParameters]

AVDT_ReConfigureReq
[Transaction, RSP]

ReConfigureCfm_CB
(Transaction, ErrorCode)

Figure 4.9: AVDTP/SRC/INT/SIG/SMG/BV-13-C, AVDTP/SNK/INT/SIG/SMG/BV-13-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_ReConfigure_Cfm
- Callback = ReConfigureCfm_CB

Parameters for the AVDT_ReConfigure_Req service primitive:

- Stream_Handle = SH_IUT = The value returned when configuring SEP.
- ListOfReconfigurableParameters = Valid parameters.

Fields of AVDTP_RECONFIGURE_RSP:

- Transaction_label = Transaction_IUT
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)

Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_ReConfigure_Req service primitive are:

Transaction = Transaction_iUT = Any value
RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = Transaction_iUT
Message_type = 00 (command)
Signal_Id = 0x05 (AVDTP_RECONFIGURE)
SEID = SEID_LowerTester
Service_Capabilities = The reconfigurable parameters provided in AVDT_ReConfigure_Req

ReConfigureCfm_CB is invoked with the following parameters:

Transaction_label = Transaction_iUT
ErrorCode = SUCCESS

4.2.1.10 Reconfigure Command after Configuration and Open – INT

Test Case ID(s)

AVDTP/SRC/INT/SIG/SMG/ESR05/BV-13-C
AVDTP/SNK/INT/SIG/SMG/ESR05/BV-13-C

Test Purpose

To verify that the IUT (INT) is able to issue a valid reconfigure command for remote SEP and report the replied confirmation.

Reference

[5] 6.4, 6.15, 8.11, 13.1
- **Initial Condition**

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID\textsubscript{LowerTester} has been configured and then opened.

- **Test Procedure**

\begin{itemize}
  \item One ACL link exists between the IUT and the Lower Tester.
  \item One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  \item SEID\textsubscript{LowerTester} has been configured then opened.
\end{itemize}

\begin{itemize}
  \item **AVDT\_ReConfigure\_Req**
    \begin{itemize}
      \item Stream\_Handle, ListOfReconfigurableParameters
    \end{itemize}
  \item **AVDT\_ReConfigure\_Cfm\_CB**
    \begin{itemize}
      \item Transaction, ErrorCode
    \end{itemize}
\end{itemize}

\begin{itemize}
  \item **AVDTP\_RECONFIGURE\_CMD**
    \begin{itemize}
      \item Transaction\_label, Packet\_type, Reserved, Message\_type, Signal\_Id, SEID, Service\_Capabilities
    \end{itemize}
  \item **AVDT\_Sig\_Event\_Registration**
    \begin{itemize}
      \item Event, Callback
    \end{itemize}
  \item **AVDT\_Sig\_Event\_Registration**
    \begin{itemize}
      \item Result
    \end{itemize}
  \item **AVDT\_ReConfigure\_Req**
    \begin{itemize}
      \item Transaction, RSP
    \end{itemize}
  \item **AVDT\_ReConfigure\_Req\_CB**
    \begin{itemize}
      \item Transaction, ErrorCode
    \end{itemize}
\end{itemize}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{figure410.png}
\caption{AVDT/SRC/INT/SIG/SMG/ESR05/BV-13-C, AVDT/SNK/INT/SIG/SMG/ESR05/BV-13-C}
\end{figure}

- **Test Condition**

Parameters for the AVDT\_Sig\_Event\_Registration service primitive:

- Event = AVDT\_ReConfigure\_Cfm
- Callback = ReConfigureCfm\_CB

Parameters for the AVDT\_ReConfigure\_Req service primitive:

- Stream\_Handle = SH\textsubscript{IUT} = The value returned when configuring SEP.
- ListOfReconfigurableParameters = Valid parameters.
Fields of AVDTP_RECONFIGURE_RSP:

- Transaction_label = Transaction\_IUT
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)

- **Expected Outcome**
  
  **Pass verdict**
  
  The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

  The output parameters of the AVDT_ReConfigure_Req service primitive are:

  - Transaction = Transaction\_IUT = Any value
  - RSP = REQUEST_ACCEPTED

  The Lower Tester receives the AVDTP signaling message with the fields:

  - Transaction_label = Transaction\_IUT
  - Message_type = 00 (command)
  - Signal_Id = 0x05 (AVDTP_RECONFIGURE)
  - SEID = SEID\_LowerTester
  - Service\_Capabilities = The reconfigurable parameters provided in AVDT_ReConfigure_Req

  ReConfigureCfm\_CB is invoked with the following parameters:

  - Transaction_label = Transaction\_IUT
  - ErrorCode = SUCCESS

**4.2.1.11 Reconfigure Response – ACP**

- **Test Case ID(s)**

  AVDTP/SRC/ACP/SIG/SMG/BV-14-C
  
  AVDTP/SNK/ACP/SIG/SMG/BV-14-C

- **Test Purpose**

  To verify that the IUT (ACP) reports the reception of a valid reconfigure command for remote SEP, reconfigures the SEP as requested and replies the returned confirmation.
• Reference
[5] 6.5, 6.15, 8.11, 13.1

• Initial Condition
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID_{IUT} has been configured, established (opened and started) and then suspended by the Lower Tester.

• Test Procedure

![Diagram of test procedure]

Figure 4.11: AVDTP/SRC/ACP/SIG/SMG/BV-14-C, AVDTP/SNK/ACP/SIG/SMG/BV-14-C

• Test Condition
Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_ReConfigure_Ind
- Callback = ReConfigureInd_CB
Fields of AVDTP_RECONFIGURE_CMD:

- Transaction_label = TransactionLowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)
- SEID = SEID_IUT
- Service_Capabilities = Valid configurations.

Parameters for the AVD_ReConfigureRsp service primitive:

- Transaction = TransactionLowerTester
- Stream_Handle = SH_IUT = The value corresponding to SEID_IUT
- ErrorCode = SUCCESS

• Expected Outcome

  Pass verdict

  The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

  ReConfigureInd_CB is invoked with the following parameters:

  Transaction = TransactionLowerTester

  Stream_Handle = SH_IUT = The value provided when SEID_IUT was configured for the first time.

  ListOfReconfigurableParameters = The parameters provided with AVDTP_RECONFIGURE_CMD

  The output parameters of the AVDT_ReConfigure_Rsp service primitive are:

  RSP = REQUEST_ACCEPTED

  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = TransactionLowerTester

  Message_type = 10 (response accept)

  Signal_Id = 0x05 (AVDTP_RECONFIGURE)
4.2.1.12 Reconfigure Response after Configuration then Open – ACP

- Test Case ID(s)
  
  AVDTP/SRC/ACP/SIG/SMG/ESR05/BV-14-C
  
  AVDTP/SNK/ACP/SIG/SMG/ESR05/BV-14-C

- Test Purpose
  
  To verify that the IUT (ACP) reports the reception of a valid reconfigure command for remote SEP, reconfigures the SEP as requested and replies the returned confirmation.

- Reference
  
  
  [5] 6.4, 6.15, 8.11, 13.1

- Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  
  The SEP identified by SEID_{IUT} has been configured and then opened by the Lower Tester.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. SEID_{IUT} has been configured then opened.

AVDTP
- \text{AVDTP\_RECONFIGURE\_CMD}
  - \text{AVDTP\_RECONFIGURE\_RSP}

AVDT
- \text{AVDT\_Sig\_Event\_Registration (Event, Callback)}
- \text{AVDT\_Sig\_Event\_Registration (Result)}
- \text{ReConfigureInd\_CB (Transaction, Stream\_Handle, ListOfReconfigurableParameters)}
- \text{AVDT\_ReConfigure\_Rsp (Transaction, Stream\_Handle, ErrorCode)}
- \text{AVDT\_ReConfigure\_Rsp (RSP)}

Figure 4.12: AVDTP/SRC/ACP/SIG/SMG/ESR05/BV-14-C, AVDTP/SNK/ACP/SIG/SMG/ESR05/BV-14-C

• Test Condition

Parameters for the AVDT\_Sig\_Event\_Registration service primitive:
- Event = AVDT\_ReConfigure\_Ind
- Callback = ReConfigureInd\_CB

Fields of AVDTP\_RECONFIGURE\_CMD:
- Transaction\_label = Transaction\_Lower\_Tester = Any value
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x05 (AVDTP\_RECONFIGURE)
- SEID = SEID_{IUT}
- ServiceCapabilities = Valid configurations.

Parameters for the AVDT_ReConfigureRsp service primitive:

- Transaction = Transaction_{LowerTester}
- StreamHandle = SH_{IUT} = The value corresponding to SEID_{IUT}
- ErrorCode = SUCCESS

• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

ReConfigureInd_CB is invoked with the following parameters:

  Transaction = Transaction_{LowerTester}
  StreamHandle = SH_{IUT} = The value provided when SEID_{IUT} was configured for the first time.
 ListOfReconfigurableParameters = The parameters provided with AVDTP_RECONFIGURE_CMD

The output parameters of the AVDT_ReConfigure_Rsp service primitive are:

  RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_{LowerTester}
  Message_type = 10 (response accept)
  Signal_Id = 0x05 (AVDTP_RECONFIGURE)

4.2.1.13 Open Command – INT

• Test Case ID(s)

  AVDTP/SRC/INT/SIG/SMG/BV-15-C
  AVDTP/SNK/INT/SIG/SMG/BV-15-C

• Test Purpose

  To verify that the IUT (INT) is able to establish a stream connection to a previously configured remote SEP by establishing one L2CAP channel (AVDTP_OPEN_CMD), and reports the related confirmation (no reporting, no recovery).
• **Reference**
  
  [3] 6.4, 6.10, 8.11, 13.1

  [5] 6.5, 6.11, 8.12, 13.1

• **Initial Condition**

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The SEP identified by $\text{SEID}_{\text{Lower Tester}}$ has been configured (Stream handle = SH$_{\text{IUT}}$) such as multiplexing is not selected, reporting is not selected and recovery is not selected (see Section 4.2.1.5 - Set Configuration Command – INT).

• **Test Procedure**

  ![Diagram](image)

  Figure 4.13: AVDTP/SRC/INT/SIG/SMG/BV-15-C, AVDTP/SNK/INT/SMG/BV-15-C

• **Test Condition**

  Parameters for the AVDT_Sig_Event_Registration service primitive:

  - Event = AVDT_Open_Cfm
  - Callback = OpenCfm_CB

  Parameter for the AVDT_Open_Req service primitive:

  - Stream_Handle = SH$_{\text{IUT}}$ = The value used for configuring SEID$_{\text{Lower Tester}}$
Fields of AVDTP_OPEN_RSP:

- Transaction_label = Transaction\textsubscript{IUT}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal\_Id = 0x06 (AVDTP_OPEN)

The Lower Tester provides positive responses to the L2CAP_ConnectReq and L2CAP_ConfigReq messages issued by the IUT.

The Lower Tester issues valid L2CAP_ConfigReq messages further to each such message issued by the IUT.

• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Open_Req service primitive are:

Transaction = Transaction\textsubscript{IUT} = Any value

RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = Transaction\textsubscript{IUT}

Message_type = 00 (command)

Signal\_Id = 0x06 (AVDTP_OPEN)

SEID = SEID\textsubscript{LowerTester} = The value used for stream end-point configuration.

The IUT establishes one L2CAP channel (it issues L2CAP_ConnectReq followed by L2CAP_ConfigReq with valid parameters).

OpenCfm\_CB is invoked with the following parameters:

Transaction = Transaction\textsubscript{IUT}

ErrorCode = SUCCESS
4.2.1.14 Open Command – ACP

- Test Case ID(s)
  
  AVDTP/SRC/ACP/SIG/SMG/BV-16-C
  
  AVDTP/SNK/ACP/SIG/SMG/BV-16-C

- Test Purpose
  
  To verify that the IUT (ACP) reports the reception of valid AVDTP_OPEN_CMD for transport sessions associated to a SEP and replies the returned confirmation.

- Reference
  
  [3] 6.4, 6.10, 8.11, 13.1
  
  [5] 6.4, 6.11, 8.12, 13.1

- Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has configured the SEP identified by SEID_{IUT} (see Section 4.2.1.6 - Set Configuration Response – ACP).
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has configured SEID_{IUT}.

**Figure 4.14:** AVDTP/SRC/ACP/SIG/SMG/BV-16-C, AVDTP/SNK/ACP/SIG/SMG/BV-16-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Open_Ind
- Callback = OpenInd_CB

Fields of AVDTP_OPEN_CMD:

- Transaction_label = Transaction_{LowerTester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x06 (AVDTP_OPEN)
- SEID = SEID_{IUT} = The value used for configuring the SEP
Parameters for the AVDT_Open_Rsp service primitive:

- Transaction = TransactionLowerTester
- Stream_Handle = SHIUT = The value corresponding to SEIDIUT
- ErrorCode = SUCCESS

• Expected Outcome

**Pass verdict**

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

OpenInd_CB is invoked with the following parameters

Transaction = TransactionLowerTester

Stream_Handle = SHIUT The value corresponding to SEIDIUT

The output parameters of the AVDT_Open_Rsp service primitive are:

RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = TransactionLowerTester

Message_type = 10 (response accept)

Signal_Id = 0x06 (AVDTP_OPEN)

**AVDTP/SRC/INT/SIG/SMG/BV-17-C [Start a Streaming Procedure - INT]**

• Test Purpose

To verify that the IUT (INT, SRC) is able to start a streaming procedure after the stream establishment is complete, by issuing the AVDTP_START_CMD, reporting the replied confirmation and streaming packets.

• Reference

[3] 6.4, 6.11, 7.2.1, 8.12, 13.1

[5] 6.4, 6.12, 7.2.1, 8.13, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEIDLowerTester has been configured (Stream handle = SHIUT) such as multiplexing is not selected, reporting is not selected and recovery is not selected, see Section 4.2.1.5 - Set Configuration Command – INT.
A stream connection has been established to the SEP identified by SEID\textsubscript{LowerTester} (Stream handle = SH\textsubscript{IUT}), see Section 4.2.1.13 - Open Command – INT.

- **Test Procedure**

  - **LOWE R TESTER**
  - **I U T**
  - **UPPER TESTER**

  One ACL link exists between the IUT and the Lower Tester.
  One L2CAP channel for signaling is established between the IUT and Lower Tester.
  The Upper Tester has configured SEID\textsubscript{LowerTester} (Stream handle = SH\textsubscript{IUT}) such as multiplexing is not selected, reporting is not selected and recovery is not selected and established a stream connection to this SEP.

  - AVDTP\_START\_CMD
    - (Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, SEID)
  - AVDTP\_START\_RSP
    - (Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id)
  - AVDTP\_Media\_Packet
    - (V, P, X, CC, M, PT, Sequence\_Nr, Time\_stamp, SSRC, CSRC, Media\_Payload)
  - AVDTP\_Write\_Req
    - (Stream\_Handle)
  - AVDTP\_Write\_Req
    - (Transaction, RSP)
  - AVDTP\_Write\_Req
    - (Result)

  **Figure 4.15: AVDTP/SRC/INT/SIG/SMG/BV-17-C**

- **Test Condition**

  - Parameters for the AVDT\_Sig\_Event\_Registration service primitive:
    - Event = AVDT\_Start\_Cfm
    - Callback = StartCfm\_CB
  - Parameters for the AVDT\_Start\_Req service primitive:
    - Stream\_Handle = SH\textsubscript{IUT} = The value used for configuring and establishing a stream connection for SEID\textsubscript{LowerTester}
  - Fields of AVDTP\_START\_RSP:
    - Transaction\_label = Transaction\textsubscript{IUT}
    - Packet\_type = 00 (single packet)
    - Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x07 (AVDTP_START)

AVDTP_Write_Req parameters:

- Stream_Handle = SH\_IUT = The value used for configuring and establishing a stream connection for SEID\_LowerTester
- Length = L\_data\_buffer (stream data frame buffer length) = Media\_Payload of AVDTP media frame
- OutBuffer = ADDR\_DataBuffer
- TimingInfo = Time\_Stamp\_Tester
- Marker = one of the possible values (1 or 0)

* Expected Outcome

**Pass verdict**

The output parameter: Result of the AVDT\_Sig\_Event\_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT\_Start\_Req service primitive are:

\[\text{Transaction} = \text{Transaction}_{IUT} = \text{Any value}\]
\[\text{RSP} = \text{REQUEST\_ACCEPTED}\]

The Lower Tester receives the AVDTP signaling message with the fields:

\[\text{Transaction\_label} = \text{Transaction}_{IUT}\]
\[\text{Message\_type} = 00 (command)\]
\[\text{Signal\_Id} = 0x07 (AVDTP\_START)\]

\[\text{SEID} = \text{SEID}_{Lower\_Tester} = \text{The value used for stream end-point configuration.}\]

StartCfm\_CB is invoked with the following parameters:

\[\text{Transaction} = \text{Transaction}_{IUT}\]

The Lower Tester receives a media packet, see 7.2.1 in [3] [5] for Media Packet Format definitions.
4.2.1.15 Receive Start Command – ACP

- Test Case ID(s)
  
  AVDTP/SRC/ACP/SIG/SMG/BV-18-C
  
  AVDTP/SNK/ACP/SIG/SMG/BV-18-C

- Test Purpose
  
  To verify that the IUT (ACP) reports the reception of valid AVDTP_START_CMD and replies the returned confirmation.

- Reference
  
  [3] 6.4, 6.11, 8.12, 13.1
  
  [5] 6.4, 6.12, 8.13, 13.1

- Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured the SEP identified by SEID_IUT, see Section 4.2.1.6 - Set Configuration Response – ACP.

  The Lower Tester has established a stream connection to the SEP identified by SEID_IUT, see Section 4.2.1.14 - Open Command – ACP.

- Test Procedure
  
  The IUT (if supporting the source role) can re-configure or change the SEP before the streaming is started.
One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has configured SEID_{IUT} and established a stream connection to this SEP.

**Test Condition**

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Start_Ind
- Callback = StartInd_CB

Fields of AVDTP_START_CMD:

- Transaction_label = Transaction_{LowerTester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00

*Figure 4.16: AVDTP/SRC/ACP/SIG/SMG/BV-18-C, AVDTP/SNK/ACP/SIG/SMG/BV-18-C*
- Message_type = 00 (command)
- Signal_Id = 0x07 (AVDTP_START)
- SEID = SEID_IUT = The value used for configuring the SEP

Parameters for the AVDT_Start_Rsp service primitive:

- Transaction = Transaction\text{\scriptscriptstyle LowerTester}
- Stream_Handle = SH\text{\scriptscriptstyle IUT} = The value corresponding to SEID\text{\scriptscriptstyle IUT}
- For an IUT supporting the \textbf{sink} role, the parameters of the AVDT_Read_Stream_Data service primitive shall be as follows:
  - Stream_Handle = SH\text{\scriptscriptstyle IUT}
  - ExpLength = L_{\text{DataBuffer}} (stream data frame buffer length) = Media\_Payload expected length of AVDTP media frame
  - InBuffer = ADDR_{\text{DataBuffer}}

For an IUT supporting the \textbf{source} role, the parameters of the AVDT_Write_Req service primitive shall be as follows:

- Stream_Handle = SH\text{\scriptscriptstyle IUT} = The value used for configuring and establishing a stream connection for SEID\text{\scriptscriptstyle LowerTester}
- Length = L_{\text{DataBuffer}} (stream data frame buffer length) = Media\_Payload of AVDTP media frame
- OutBuffer = ADDR_{\text{DataBuffer}}
- TimingInfo = Time\_Stamp_{\text{Tester}}
- Marker = one of the possible values (1 or 0)

• Expected Outcome

\textbf{Pass verdict}

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

StartInd\_CB is invoked with the following parameters:

\text{Transaction} = \text{Transaction\text{\scriptscriptstyle LowerTester}}

\text{StreamHandle} = \text{SH\text{\scriptscriptstyle IUT}} = \text{The value corresponding to SEID\text{\scriptscriptstyle IUT}}

The output parameters of the AVDT_Start_Rsp service primitive is:

\text{RSP} = \text{REQUEST\_ACCEPTED}

The Lower Tester receives the AVDTP signaling message with the fields:

\text{Transaction\_label} = \text{Transaction\text{\scriptscriptstyle LowerTester}}
Message_type = 10 (response accept)

Signal_Id = 0x07 (AVDTP_START)

For an IUT supporting the sink role the output parameters of the AVDT_ReadStreamData service primitive are as follows:

Result = 0 (successful data transfer)

Length = Media_Payload length of AVDTP media packet

Time_Info = Time_StampLowerTester

Marker = one of the possible values (1 or 0)

Payload type = PT_IUT = value chosen according to the implementation in the IUT

Reliability = 0 (no errors)

For an IUT supporting the source role the Lower Tester receives a media packet, see 7.2.1 in [3] [5] for Media Packet Format definitions.

4.2.1.16 Close Command – INT

• Test Case ID(s)

AVDTP/SRC/INT/SIG/SMG/BV-19-C

AVDTP/SNK/INT/SIG/SMG/BV-19-C

• Test Purpose

To verify that the IUT (INT) is able to initiate the release of a streaming procedure after the streaming procedure has been started, by issuing the AVDTP_CLOSE_CMD, releasing all the resources associated to the SEP after reception of the replied confirmation and reporting the closing.

• Reference

[3] 6.4, 6.12, 8.13, 13.1


• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID_{LowerTester} has been configured (Stream handle = SH_{IUT}) such as multiplexing is not selected, reporting is not selected and recovery is not selected (see Section 4.2.1.13 - Open Command – iNT).

The stream has been established.

The SEP identified by SEID_{LowerTester} is in STREAMING state.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Upper Tester has configured SEID_{Lower Tester} (Stream handle = SH_{IUT}) so as multiplexing is not selected, reporting is not selected and recovery is not selected.
The stream has been established.

AVDTP_CLOSE_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID)

AVDTP_CLOSE_RSP
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id)

Release of 1 L2CAP channel

AVDT_Sig_Event_Registration
(Event, Callback)

AVDT_Sig_Event_Registration
(Result)

AVDT_Close_Req
(Stream_Handle)

AVDT_Close_Req
(Transaction, RSP)

CloseCfm_CB
(Transaction, ErrorCode)

Figure 4.17: AVDTP/SRC/ACP/SIG/SMG/BV-19-C, AVDTP/SNK/ACP/SIG/SMG/BV-19-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:
- Event = AVDT_Close_Cfm
- Callback = CloseCfm_CB

Parameter for the AVDT_Close_Req service primitive:
- Stream_Handle = SH_{IUT} = The value used for configuring and establishing SEID_{Lower Tester}

Fields of AVDTP_CLOSE_RSP:
- Transaction_label = Transaction_{IUT}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x08 (AVDTP_CLOSE)

The Lower Tester provides positive responses to the L2CAP_DisconnectReq messages issued by the IUT.
• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Close_Req service primitive are:

Transaction = Transaction\textsubscript{IUT} = Any value

RSP = REQUEST\_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction\_label = Transaction\textsubscript{IUT} = Any value

Message\_type = 00 (command)

Signal\_Id = 0x08 (AVDTP\_CLOSE)

SEID = SEID\textsubscript{LowerTester} = The value used for stream end-point configuration and establishment.

The IUT releases the L2CAP channel connected and configured during the stream establishment (it issues L2CAP\_DisonnectReq with valid parameters for the L2CAP channel).

CloseCfm\_CB is invoked with the following parameters:

Transaction = Transaction\textsubscript{IUT}

ErrorCode = SUCCESS

4.2.1.17 Close Command – ACP

• Test Case ID(s)

AVDTP/\textit{SRC}/ACP/SIG/SMG/BV-20-C

AVDTP/\textit{SNK}/ACP/SIG/SMG/BV-20-C

• Test Purpose

To verify that the IUT (ACP) is able to accept an AVDTP\_CLOSE\_CMD after the streaming procedure has been started, by releasing all the resources associated to the SEP, reporting of the closing and replying the returned confirmation.

• Reference

[3] 6.4, 6.12, 8.13, 13.1


• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has configured and established the SEP identified by SEID_{IUT}, see Section 4.2.1.14 - Open Command – ACP.

The SEP identified by SEID_{IUT} is in OPEN state.

- **Test Procedure**

  ![Diagram of test procedure]

  - Test Condition

  Parameters for the AVDT_Sig_Event_Registration service primitive:

    - Event = AVDT_Close_Ind
    - Callback = CloseInd_CB

  Fields of AVDTP_CLOSE_CMD:

    - Transaction_label = Transaction_LowerTester = Any value
    - Packet_type = 00 (single packet)
    - Reserved = 00
    - Message_type = 00 (command)
- Signal_Id = 0x08 (AVDTP_CLOSE)
- SEID = SEID_{IUT} = The value used for configuring and establishing the SEP

Parameters for the AVDT_CloseRsp service primitive:

- Transaction = Transaction_{LowerTester}
- Stream_Handle = SH_{IUT} = The value used when configuring and establishing the SEP
- ErrorCode = SUCCESS

* Expected Outcome

**Pass verdict**

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

CloseInd_CB is invoked with the following parameters:

- Transaction = Transaction_{LowerTester}
- Stream_Handle = SH_{IUT} = The value used when configuring and establishing the SEP

The output parameters of the AVDT_Close_Rsp service primitive are:

- RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

- Transaction_label = Transaction_{LowerTester}
- Message_type = 10 (response accept)
- Signal_Id = 0x08 (AVDTP_CLOSE)

**AVDTP/SRC/INT/SIG/SMG/BV-21-C [Suspend Command – INT]**

* Test Purpose

To verify that the IUT (INT, SRC) is able to initiate the suspension of a streaming procedure, after the streaming procedure has been started, by issuing the AVDTP_SUSPEND_CMD. Further streaming is refused.

* Reference


• **Initial Condition**

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID_{Lower Tester} has been configured (Stream handle = SH_{IUT}) such as multiplexing is not selected, reporting is not selected and recovery is not selected (see Section 4.2.1.7 - Set Configuration Command – INT).

A stream connection to the SEP identified by SEID_{Lower Tester} has been established (Stream handle = SH_{IUT}) and started streaming (see Section 0 - AVDTP/SRC/INT/SIG/SMG/BV-17-C [Start a Streaming Procedure - INT]).

The SEP identified by SEID_{Lower Tester} is in STREAMING state.

• **Test Procedure**

![Diagram showing the test procedure for AVDTP/SRC/INT/SIG/SMG/BV-21-C](image)

*Figure 4.19: AVDTP/SRC/INT/SIG/SMG/BV-21-C*

• **Test Condition**

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Suspend_Cfm
- Callback = SuspendCfm_CB
Parameters for the AVDT_Suspend_Req service primitive:

- Stream_Handle = SH_IUT = the value used for configuring, establishing a stream connection for SEID_LowerTester and starting streaming

Fields of AVDTP_SUSPEND_RSP:

- Transaction_label = Transaction_IUT
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x09 (AVDTP_SUSPEND)
- AVDTP_Write_Req parameters:
  - Stream_Handle = SH_IUT = the value used for configuring and establishing a stream connection for SEID_LowerTester
  - Length = L_data_buffer (stream data frame buffer length) = Media_Payload of AVDTP media frame
  - OutBuffer = ADDR_DataBuffer
  - TimingInfo = Time_StampTester
  - Marker = 0 = one of the possible values (1 or 0)

* Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Suspend_Req service primitive are:

  Transaction = Transaction_IUT = Any value
  RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_IUT
  Message_type = 00 (command)
  Signal_Id = 0x09 (AVDTP_SUSPEND)
  SEID = SEID_LowerTester = The value used for stream end-point configuration.
SuspendCfmp_CB is invoked with the following parameters:

\[
\text{Transaction} = \text{Transaction}_{\text{IUT}}
\]

The Lower Tester receives no media packet

The output parameter ‘Result’ of the AVDT_Write_Req service primitive indicates a rejection of the request.

4.2.1.18 Suspend Command – ACP

• Test Case ID(s)

AVDTP/SRC/ACP/SIG/SMG/BV-22-C

AVDTP/SNK/ACP/SIG/SMG/BV-22-C

• Test Purpose

To verify that the IUT (ACP) is able to accept an AVDTP_SUSPEND_CMD, after the streaming procedure has been started, by reporting the suspension and replying the returned confirmation.

• Reference


• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has configured the SEP identified by SEID_{IUT} (see Section 4.2.1.6 - Set Configuration Response – ACP).

The Lower Tester has established a stream connection to the SEP identified by SEID_{IUT} and started the stream (see Section 4.2.1.15 - Receive Start Command – ACP).
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has configured SEID_{IUT} and established a stream connection to the SEP.

The Lower Tester has put the stream into streaming mode.

![Diagram showing the sequence of messages and events]

Figure 4.20: AVDTP/SRC/ACP/SIG/SMG/BV-22-C, AVDTP/SNK/ACP/SIG/SMG/BV-22-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Suspend_Ind
- Callback = SuspendInd_CB

Fields of AVDTP_SUSPEND_CMD:

- Transaction_label = Transaction_{LowerTester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x09 (AVDTP_SUSPEND)
- SEID = SEID_{IUT} = The value used for configuring the SEP
Parameters for the AVDT_Suspend_Rsp service primitive:

- **Transaction** = Transaction\textsubscript{LowerTest}\textsubscript{er}
- **Stream\_Handle** = SH\textsubscript{IUT} = The value corresponding to SEID\textsubscript{IUT}

**Expected Outcome**

**Pass verdict**

The output parameter: Result of the AVDT\_Sig\_Event\_Registration service primitive is 0x0000 (Event successfully registered).

SuspendInd\_CB is invoked with the following parameters

- **Transaction** = Transaction\textsubscript{LowerTest}\textsubscript{er}
- **StreamHandle** = SH\textsubscript{IUT} = The value corresponding to SEID\textsubscript{IUT}

The output parameters of the AVDT\_Suspend\_Rsp service primitive is:

- **RSP** = REQUEST\_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

- **Transaction\_label** = Transaction\textsubscript{LowerTest}\textsubscript{er}
- **Message\_type** = 10 (response accept)
- **Signal\_Id** = 0x09 (AVDTP\_SUSPEND)

### 4.2.1.19 Abort Command – INT

**Test Case ID(s)**

- **AVDTP/SRC/INT/SIG/SMG/BV-23-C**
- **AVDTP/SNK/INT/SIG/SMG/BV-23-C**

**Test Purpose**

To verify that the IUT (INT) is able to abort a stream by issuing the AVDTP\_ABORT and reporting the replied confirmation.

**Reference**

- [3] 6.4, 6.16, 8.15, 13.1
- [5] 6.4, 6.17, 8.16, 13.1

**Initial Condition**

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID\textsubscript{LowerTest}\textsubscript{er} has been configured.
Stream handle = SH_{IUT}.

See Section 4.2.1.5 - Set Configuration Command – INT.

• Test Procedure

![Diagram]

Figure 4.21: AVDTP/SRC/INT/SIG/SMG/BV-23-C, AVDTP/SNK/INT/SIG/SMG/BV-23-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Abort_Cfm
- Callback = AbortCfm_CB

Parameters for the AVDT_Abort_Req service primitive:

- StreamHandle = SH_{IUT} = The value corresponding to SEID_{LowerTester}

Fields of AVDTP_ABORT_RSP:

- Transaction_label = Transaction_{IUT}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x0A (AVDTP_ABORT)

• Expected Outcome

**Pass verdict**

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Abort_Req service primitive are:

- Transaction = Transaction_{IUT} = Any value
- RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

- Transaction_label = Transaction_{IUT}
- Message_type = 00 (command)
- Signal_Id = 0x0A (AVDTP_ABORT)
- SEID = SEID_{Lower Tester}

AbortCfm_CB is invoked with the following parameters:

- Transaction = Transaction_{IUT}

4.2.1.20 Accept Abort – ACP

• Test Case ID(s)

   AVDTP/SRC/ACP/SIG/SMG/BV-24-C
   AVDTP/SNK/ACP/SIG/SMG/BV-24-C

• Test Purpose

To verify that the IUT (ACP) is able to accept a command to abort a stream.

• Reference

   [3] 6.4, 6.16, 8.15, 13.1
   [5] 6.4, 6.17, 8.16, 13.1

• Initial Condition

   One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has configured the SEP identified by SEID_{IUT}, see Section 4.2.1.6 - Set Configuration Response – ACP.

- **Test Procedure**

  ![Diagram](image)

  **Figure 4.22:** AVDTP/SRC/ACP/SIG/SMG/BV-24-C, AVDTP/SNK/ACP/SIG/SMG/BV-24-C

- **Test Condition**

  Parameters for the AVDT_Sig_Event_Registration service primitive:
  
  - Event = AVDT_Abort_Ind
  - Callback = AbortInd_CB

  Fields of AVDTP_ABORT_CMD:
  
  - Transaction_label = Transaction_{LowerTester} = Any value
  - Packet_type = 00 (single packet)
  - Reserved = 00
  - Message_type = 00 (command)
  - Signal_Id = 0x0A (AVDTP_ABORT)
- SEID = SEID\text{IUT} = \text{Any value}

Parameters for the AVDT\_Abort\_Rsp service primitive:

- Transaction = Transaction\text{LowerTester}
- StreamHandle = SH\text{IUT} = \text{The value corresponding to SEID}\text{IUT}

• Expected Outcome

  Pass verdict

  The output parameter: Result of the AVDT\_Sig\_Event\_Registration service primitive is 0x0000 (Event successfully registered).

  AbortInd\_CB is invoked with the following parameters:

  - Transaction = Transaction\text{LowerTester}
  - StreamHandle = SH\text{IUT}

  The output parameters of the AVDT\_Abort\_Rsp service primitive are:

  - RSP = REQUEST\_ACCEPTED

  The Lower Tester receives the AVDTP signaling message with the fields:

  - Transaction\_label = Transaction\text{LowerTester}
  - Message\_type = 10 (response accept)
  - Signal\_Id = 0x0A (AVDTP\_ABORT)

4.2.1.21 Get All Capabilities Command – INT

• Test Case ID(s)

  AVDTP/SRC/INT/SIG/SMG/BV-25-C
  AVDTP/SNK/INT/SIG/SMG/BV-25-C

• Test Purpose

  To verify that the IUT (INT) is able to issue a valid query for remote SEP capabilities and reports the replied ones using Get\_All\_Capabilities.

• Reference

  [5] 6.4, 6.8, 8.8, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

Figure 4.23: AVDTP/SRC/INT/SIG/SMG/BV-25-C, AVDTP/SNK/INT/SIG/SMG/BV-25-C

Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Get_All_Capabilities_Cfm
- Callback = GetAllCapabilitiesCfm_CB

Parameters for the AVDT_Get_All_Capabilities_Req service primitive:

- BD_ADDR = BD_ADDR_{LowerTester}
- SEID = SEID_{LowerTester} = Any value

Fields of AVDTP_GET_ALL_CAPABILITIES_RSP:

- Transaction_label = Transaction_{IUT}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- Service_Capabilities = Valid capabilities values for each of the following types: Media transport, reporting, recovery, video codec or audio codec or multimedia codec, content protection, header compression, multiplexing

• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Get_All_Capabilities_Req service primitive are:

  Transaction = Transaction_{IUT} = Any value

  RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_{IUT}

  Message_type = 00 (command)

  Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)

  SEID = SEID_{LowerTester}

GetAllCapabilitiesCfm_CB is invoked with the following parameters:

  Transaction = Transaction_{IUT}

  Stream_capabilities = The values provided with AVDTP_GET_ALL_CAPABILITIES_RSP

  ErrorCode = SUCCESS

4.2.1.22 Get All Capabilities Response – ACP

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BV-26-C

  AVDTP/SNK/ACP/SIG/SMG/BV-26-C

• Test Purpose

  To verify that the IUT (ACP) reports the reception of a valid query for remote SEP capabilities and replies the returned capabilities using Get_All_Capabilities.

• Reference

  [5] 6.4, 6.8, 8.8, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

LOWER TESTER

IUT

UPPER TESTER

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

AVDTP_GET_ALL_CAPABILITIES_CMD

(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID)

AVDTP_GET_ALL_CAPABILITIES_RSP

(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Service_Capabilities)

AVDT_Sig_Event_Registration

(Event, Callback)

AVDT_Sig_Event_Registration

(Result)

GetAllCapabilitiesInd_CB

(Transaction, BD_ADDR, SEID)

AVDT_Get_AllCapabilities_Rsp

(Transaction, BD_ADDR, SEID, Capabilities, ErrorCode)

AVDT_Get_AllCapabilities_Rsp

(RSP)

Figure 4.24: AVDTP/SRC/ACP/SIG/SMG/BV-26-C, AVDTP/SNK/ACP/SIG/SMG/BV-26-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Get_Capabilities_Ind
- Callback = GetCapabilitiesInd_CB

Fields of AVDTP_GET_ALL_CAPABILITIES_CMD:

- Transaction_label = Transaction, Lower Tester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- SEID = SEID_IUT = Any value
Parameters for the AVDT_GET_ALL_CAPABILITIES_RSP service primitive:

- Transaction = Transaction_LowerTester
- BD_ADDR = BD_ADDR_LowerTester
- SEID = SEID_IUT
- Capabilities = Valid capabilities values for each category that the addressed SEP supports.
- ErrorCode = SUCCESS

• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

GetAllCapabilitiesInd_CB is invoked with the following parameters:

Transaction = Transaction_LowerTester
BD_ADDR = BD_ADDR_LowerTester
SEID = SEID_IUT

The output parameter of the AVDT_Get_All_Capabilities_Rsp service primitive:

RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = Transaction_LowerTester
Message_type = 10 (response accept)
Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
SEID = SEID_IUT
ServiceCapabilities = The values provided with AVDT_Get_All_Capabilities_Rsp

4.2.1.23  Get All Capabilities Response with RFD values – INT

• Test Case ID(s)

AVDT/SRC/INT/SIG/SMG/BV-28-C
AVDT/SNK/INT/SIG/SMG/BV-28-C

• Test Purpose

To verify that the IUT (INT) ignores capability values reserved for future definition (RFD) returned in the GetAllCapabilities response.
• Reference

[5] 6.4, 6.8, 8.8, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

• Test Procedure

The IUT start SEP discovery using GET_ALL_CAPABILITIES. The Lower Tester returns capabilities that are reserved for future definition (RFD).

![Diagram of AVDTP/SRC/INT/SIG/SMG/BV-28-C, AVDTP/SNK/INT/SIG/SMG/BV-28-C](image)

Figure 4.25: AVDTP/SRC/INT/SIG/SMG/BV-28-C, AVDTP/SNK/INT/SIG/SMG/BV-28-C

• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Get_All_Capabilities_Cfm
- Callback = GetAllCapabilitiesCfm_CB

Parameters for the AVDT_Get_All_Capabilities_Req service primitive:

- BD_ADDR = BD_ADDR_LowerTester
- SEID = SEID_LowerTester = Any value

Fields of AVDTP_GET_ALL_CAPABILITIES_RSP:

- Transaction_label = Transaction_{IUT}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 10 (response accept)
- Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- Service_Capabilities = Valid capabilities values for each of the following types: Media transport, reporting, recovery, video codec or audio codec or multimedia codec, content protection, header compression, multiplexing, delay reporting. In addition at least one service capabilities category value that is defined as RFD in Table 8.47, Section 8.21.1 in [5] must be included

• Expected Outcome

Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

The output parameters of the AVDT_Get_All_Capabilities_Req service primitive are:

- Transaction = Transaction_{IUT} = Any value
- RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

- Transaction_label = Transaction_{IUT}
- Message_type = 00 (command)
- Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- SEID = SEID_LowerTester

GetCapabilitiesCfm_CB is invoked with the following parameters:

- Transaction = Transaction_{IUT}
- Stream_capabilities = The values provided with AVDTP_GET_ALL_CAPABILITIES_RSP that do not have associated Service Category values that are defined as RFD in Table 8.47, Section 8.21.1 in [5]
- ErrorCode = SUCCESS
4.2.1.24  Set Configuration Command following a Get Capabilities Response with All Defined Capabilities – INT

• Test Case ID(s)

AVDTP/SRC/INT/SIG/SMG/BV-31-C

AVDTP/SNK/INT/SIG/SMG/BV-31-C

• Test Purpose
To verify that the IUT (INT) is able to accept all defined capabilities in the GetCapabilities response returned by the Lower Tester.

• Reference
[3] 6.4, 6.7, 8.7, 13.1

[5] 6.4, 6.7, 8.7, 13.1

• Initial Condition
One L2CAP channel for signaling is established between the IUT and the Lower Tester; SEID is in IDLE state.

The first SEP of the Lower Tester supports all the basic capabilities defined in AVDTP in its AVDTP_GET_CAPABILITIES_RSP.

The IUT has performed Stream End Point Discovery and has discovered the first SEP of the Lower Tester.

• Test Procedure
IUT performs the Get Capabilities Procedure for the first SEP of the Lower Tester.

The Lower Tester returns a valid set of capabilities. The set of capabilities returned by the Lower Tester are all the basic capabilities defined in AVDTP.

The IUT then sends a Set Configuration command to the Lower Tester using the capabilities supported by the IUT.

• Expected Outcome
Pass verdict

The IUT sends an AVDTP_Set_Configuration_CMD command.
4.2.1.25 Detect Stream Discover Command Reject by ACP – INT

- Test Case ID(s)
  
  **AVDTP/SRC/INT/SIG/SMG/BI-01-C**
  
  **AVDTP/SNK/INT/SIG/SMG/BI-01-C**

- Test Purpose
  
  To verify that the IUT (INT) is able to detect the rejection by the ACP of a stream discover command.

- Reference
  
  [3] 6.4, 6.6, 8.6, 13.1

  [5] 6.4, 6.6, 8.6, 13.1

- Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

- Test Procedure

  ![Diagram](image)

  Figure 4.26: AVDTP/SRC/INT/SIG/SMG/BI-01-C, AVDTP/SNK/INT/SIG/SMG/BI-01-C

- Test Condition
  
  The Upper Tester registers to AVDT_Discover_Cfm events and issues a valid AVDT_Discover_Req command.
Fields of AVDTP_DISCOVER_REJ:
- Transaction = Transaction_{IUT} = Value provided with the AVDTP_DISCOVER_CMD message
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 11 (response reject)
- Signal_Id = 0x01 (AVDTP_DISCOVER)
- Error_Code = 0x01 (BAD_HEADER_FORMAT)

• Expected Outcome
  Pass verdict
DiscoverCfm_CB is invoked with the following parameters:
  Transaction = Transaction_{IUT}
  Error_Code = The Error_Code provided with the AVDTP_DISCOVER_REJ message

4.2.1.26  Discard Corrupted Stream Discover Command – ACP
• Test Case ID(s)
  AVDTP/SRC/ACP/SIG/SMG/BI-02-C
  AVDTP/SNK/ACP/SIG/SMG/BI-02-C
• Test Purpose
  To verify that the IUT (ACP) is able to discard a corrupted stream discover command received by the INT.
• Reference
  [3] 6.4, 6.6, 8.6, 13.1
  [5] 6.4, 6.6, 8.6, 13.1
• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

![Diagram showing the connection between LOWER TESTER, IUT, and UPPER TESTER.]

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

AVDTP_DISCOVER_CMD
(Transaction_label, Packet_type, Reserved, Message_type, Signal_Id)

Figure 4.27: AVDTP/SRC/ACP/SIG/SMG/BI-02-C, AVDTP/SNK/ACP/SIG/SMG/BI-02-C

• Test Condition

Fields of AVDTP_DISCOVER_CMD:

- Transaction_label = Transaction_LowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 01 (reserved)
- Signal_Id = 0x01 (AVDTP_DISCOVER)

• Expected Outcome

Pass verdict

No message is sent to the upper layers and no response is generated.
4.2.1.27 Stream Discover Reject Response – ACP

- Test Case ID(s)
  AVDTP/SRC/ACP/SIG/SMG/BI-03-C
  AVDTP/SNK/ACP/SIG/SMG/BI-03-C

- Test Purpose
  To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester's request in answer to a stream discover command.

- Reference
  [3] 6.4, 6.6, 8.6, 13.1
  [5] 6.4, 6.6, 8.6, 13.1

- Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Upper Tester registers to AVDT_Discover_Ind events.
• **Test Procedure**

![Diagram of AVDTP test procedure](image)

- One ACL link exists between the IUT and the Lower Tester.
- One L2CAP channel for signaling is established between the IUT and the Lower Tester.
- Tester registers to AVDT_Discover_IND events.

**Figure 4.28: AVDTP/SRC/ACP/SIG/SMG/BI-03-C, AVDTP/SNK/ACP/SIG/SMG/BI-03-C**

• **Test Condition**

  **Fields of AVDTP_DISCOVER_CMD:**
  - Transaction_label = Transaction_LowerTester = Any value
  - Packet_type = 00 (single packet)
  - Reserved = 00
  - Message_type = 00 (command)
  - Signal_Id = 0x01 (AVDTP_DISCOVER)

  **Parameters for the AVDT_Discover_Rej service primitive:**
  - Transaction_label = Transaction_LowerTester = Any value
  - BD_ADDR = BD_ADDR_LowerTester
  - ErrorCode = Any value in the range 0xC0-0xFF
• Expected Outcome
  Pass verdict

  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction\_LowerTester

  Message\_type = 11 (response reject)

  Signal\_Id = 0x01 (AVDTP\_DISCOVER)

  Error\_Code = The value provided with AVDT\_Discover\_Rej

4.2.1.28   Detect Get Capabilities Command Reject by ACP – INT

• Test Case ID(s)

  AVDTP/SRC/INT/SIG/SMG/BI-04-C

  AVDTP/SNK/INT/SIG/SMG/BI-04-C

• Test Purpose

  To verify that the IUT (INT) is able to detect the rejection by the ACP of a get capabilities command.

• Reference

  [3] 6.4, 6.7, 8.7, 13.1

  [5] 6.4, 6.7, 8.7, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

Upper Tester registers to AVDT_Get_Capabilities_Cfm events and issues a valid AVDT_Get_Capabilities_Req command.

Fields of AVDTP_GET_CAPABILITIES_REJ:
- Transaction = TransactionIUT = Value provided with the AVDTP_GET_CAPABILITIES_CMD message
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 11 (response reject)
- Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
- Error_Code = 0x11 (BAD_LENGTH)

Figure 4.29: AVDTP/SRC/INT/SIG/SMG/BI-04-C, AVDTP/SNK/INT/SIG/SMG/BI-04-C

• Test Condition

The Upper Tester registers to AVDT_Get_Capabilities_Cfm events and issues a valid AVDT_Get_Capabilities_Req command for SEID_LowerTester.

The test procedure is as follows:

1. An ACL link exists between the IUT and the Lower Tester.
2. A L2CAP channel for signaling is established between the IUT and the Lower Tester.
3. The Upper Tester registers to AVDT_Get_Capabilities_Cfm events and issues a valid AVDT_Get_Capabilities_Req command.
4. The Upper Tester sends a GetCapabilitiesCfm_CB message with the following parameters:
   - Transaction
   - StreamCapabilities
   - ErrorCode
5. The Lower Tester responds with an AVDTP_GET_CAPABILITIES_REJ message containing the following fields:
   - Transaction
   - Packet_type
   - Reserved
   - Message_type
   - Signal_Id
   - Error_Code

These steps ensure that the test suite verifies the proper functionality and communication between the testers and the IUT in the Audio/Video Distribution Transport Protocol (AVDTP) environment.
• Expected Outcome
  Pass verdict

  Get_CapabilitiesCfm_CB is invoked with the following parameters:

  Transaction = TransactionIUT

  ErrorCode = The Error_Code provided with the AVDTP_GET_CAPABILITIES_REJ message

4.2.1.29 Invalid Get Capabilities Reject Response – ACP
• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-05-C
  AVDTP/SNK/ACP/SIG/SMG/BI-05-C

• Test Purpose
  To verify that the IUT (ACP) is able to issue a get capabilities reject response to the INT.

• Reference
  [3] 6.4, 6.7, 8.7, 13.1
  [5] 6.4, 6.7, 8.7, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• **Test Procedure**

![Diagram showing test procedure](image)

One ACL link exists between the IUT and the Lower Tester.

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

**AVDTP_GET_CAPABILITIES_CMD**

\((\text{Transaction}_\text{label}, \text{Packet}_\text{type}, \text{Message}_\text{type}, \text{Reserved}, \text{Signal}_\text{Id}, \text{SEID})\)

**AVDTP_GET_CAPABILITIES_REJ**

\((\text{Transaction}_\text{label}, \text{Packet}_\text{type}, \text{Message}_\text{type}, \text{Reserved}, \text{Signal}_\text{Id}, \text{SEID}, \text{Error}_\text{code})\)

---

**Figure 4.30: AVDTP/SRC/ACP/SIG/SMG/BI-05-C, AVDTP/SNK/ACP/SIG/SMG/BI-05-C**

• **Test Condition**

**Fields of AVDTP_GET_CAPABILITIES_CMD:**

- **Transaction** = Transaction\_LowerTester = Any value
- **Packet_type** = 00 (single packet)
- **Reserved** = 00
- **Message_type** = 00 (command)
- **Signal_Id** = 0x02 (AVDTP_GET_CAPABILITIES)

The last byte meant to bear the ACP SEID + 2 reserved bits is omitted in order to have an **invalid message length.**
• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = Transaction\_LowerTester

Message_type = 11 (response reject)

Signal_Id = 0x02 (AVDTP\_GET\_CAPABILITIES)

Error_code = 0x11 (BAD\_LENGTH)

4.2.1.30 Get Capabilities Reject Response – ACP

• Test Case ID(s)

AVDTP/SRC/ACP/SIG/SMG/BI-06-C

AVDTP/SNK/ACP/SIG/SMG/BI-06-C

• Test Purpose

To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester's request in answer to a get capabilities command.

• Reference

[3] 6.4, 6.7, 8.7, 13.1

[5] 6.4, 6.7, 8.7, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Upper Tester registers to AVDT\_Get\_Capabilities\_Ind events.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

Upper Tester registers to AVDT_Get_Capabilities_Ind events

AVDT_Get_Capabilities_CMD

Get_CapabilitiesInd_CB

AVDT_Get_Capabilities_Rej

AVDT_Get_Capabilities_Rej

(RSP)

Figure 4.31: AVDTP/SRC/ACP/SIG/SMG/BL-06-C, AVDTP/SNK/ACP/SIG/SMG/BL-06-C

• Test Condition

Fields of AVDTP_GET_CAPABILITIES_CMD:

- Transaction_label = TransactionLowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
- SEID = SEID_IUT

Parameters for the AVDT_Get_Capabilities_Rej service primitive:

- Message_type = 00 (command)
- Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES).
• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = Transaction\_LowerTester

Message_type = 11 (response reject)

Signal_Id = 0x02 (AVDTP\_GET\_CAPABILITIES)

Error_Code = The value provided with AVDT\_Get\_Capabilities\_Rej

4.2.1.31 Detect Set Configuration Command Reject by ACP – INT

• Test Case ID(s)

AVDTP/SRC/INT/SIG/SMG/BI-07-C

AVDTP/SNK/INT/SIG/SMG/BI-07-C

• Test Purpose

To verify that the IUT (INT) is able to detect the rejection by the ACP of a set configuration command.

• Reference

[3] 6.4, 6.8, 8.8, 13.1

[5] 6.4, 6.9, 8.9, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

Upper Tester registers to AVDT_Set_Configuration_Cfm events and issues a valid AVDT_Set_Configuration_Req command

AVDTP_SET_CONFIGURATION_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code)

SetConfigurationCfm_CB
(Transaction, FailingStreamConfigurationParameters)

Figure 4.32: AVDTP/SRC/INT/SIG/SMG/BI-07-C, AVDTP/SNK/INT/SIG/SMG/BI-07-C

• Test Condition

The Upper Tester registers to AVDT_Set_Configuration_Cfm events and issues a valid AVDT_Set_Configuration_Req command (see Section 4.2.1.5 - Set Configuration Command – INT).

Fields of AVDTP_SET_CONFIGURATION_REJ:
- Transaction = TransactionUUT = Value provided with the AVDTP_SET_CONFIGURATION_CMD message
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 11 (response reject)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- Service_Category = Any of the service categories provided in AVDT_Set_Configuration_Req
- Error_Code = 0x13 (SEP_IN_USE)
• Expected Outcome
  Pass verdict

  Set_ConfigurationCfm_CB is invoked with the following parameters:

  Transaction = Transaction\textsubscript{IUT}

  FailingStreamConfigurationParameters = All the configuration parameters

4.2.1.32  Set Configuration Reject for an Already Configured SEP – ACP

• Test Case ID(s)
  AVDTP/SRC/ACP/SIG/SMG/BI-08-C
  AVDTP/SNK/ACP/SIG/SMG/BI-08-C

• Test Purpose
  To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the SEP is already configured.

• Reference
  [3] 6.4, 6.8, 8.8, 13.1  
  [5] 6.4, 6.9, 8.9, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured correctly SEID\textsubscript{IUT}, see Section 4.2.1.6 - Set Configuration Response – ACP.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has already configured correctly SEID\textsubscript{IUT}.

\begin{verbatim}
AVDTP_SET_CONFIGURATION_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_id, ACP_SEID, INT_SEID, Service_Capabilities)
\end{verbatim}

\begin{verbatim}
AVDTP_SET_CONFIGURATION_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_id, Service_Category, Error_code)
\end{verbatim}

Figure 4.33: AVDTP/SRC/ACP/SIG/SMG/BI-08-C, AVDTP/SNK/ACP/SIG/SMG/BI-08-C

• Test Condition

Fields of AVDTP\_SET\_CONFIGURATION\_CMD:

- Transaction\_label = Transaction\textsubscript{LowerTester} = Any value
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_id = 0x03 (AVDTP\_SET\_CONFIGURATION)
- ACP\_SEID = SEID\textsubscript{IUT} = The value of the IUT’s SEP already configured.
- INT\_SEID = Any valid value
- Service\_capabilities = Any valid values
• Expected Outcome
  
  **Pass verdict**

  The Lower Tester receives the AVDTP signaling message with the fields:

  - **Transaction_label = Transaction\_LowerTester**
  - **Message_type = 11 (response reject)**
  - **Signal\_Id = 0x03 (AVDTP\_SET\_CONFIGURATION)**
  - **Error\_code = 0x13 (SEP\_IN\_USE)**

  4.2.1.33  **Set Configuration Reject Response – ACP**

  • Test Case ID(s)
    
    **AVDTP/SRC/ACP/SIG/SMG/BI-09-C**
    
    **AVDTP/SNK/ACP/SIG/SMG/BI-09-C**

  • Test Purpose
    
    To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester’s request in answer to a set configuration command.

  • Reference
    
    [3] 6.4, 6.8, 8.8, 13.1
    
    [5] 6.4, 6.9, 8.9, 13.1

  • Initial Condition
    
    One L2CAP channel for signaling is established between the IUT and the Lower Tester.
    
    The Upper Tester registers to AVDT\_Set\_Configuration\_Ind events.
• **Test Procedure**

![Diagram](Image)

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

Upper Tester registers to AVDTP_Set_Configuration_Ind events

**AVDTP_SET_CONFIGURATION_CMD**

(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, ACP_SEID, INT_SEID, Service_Capabilities)

Set_ConfigurationInd_CB

(Transaction, BD_ADDR, SEID, StreamHandle, ListOfConfigurationParameters)

AVDTP_Set_Configuration_Rej

(Transaction, StreamHandle, ListOfFailingStreamConfigurations, ErrorCode)

AVDTP_Set_Configuration_Rej

(RSP)

**Figure 4.34: AVDTP/SRC/ACP/SIG/SMG/BI-09-C, AVDTP/SNK/ACP/SIG/SMG/BI-09-C**

• **Test Condition**

**Fields of AVDTP_SET_CONFIGURATION_CMD:**

- Transaction_label = TransactionLowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEIDIUT
- INT_SEID = Any value
- Service_capabilities = Valid values

**Parameters for the AVDTP_Set_Configuration_Rej service primitive:**

- Transaction = TransactionLowerTester
- StreamHandle = \texttt{SH}_\text{IUT} = \text{The value provided by Set\_ConfigurationInd\_CB}
- \texttt{SEID} = \text{SEI}_{\text{D}_{\text{IUT}}}
- \text{ListOfFailingStreamConfigurations} = \text{The category provided in Service\_capabilities of AVDTP\_SET\_CONFIGURATION\_CMD}
- \text{ErrorCode} = \text{Any value in the range 0xC0-0xFF}

**Expected Outcome**

\textit{Pass verdict}

The Lower Tester receives the AVDTP signaling message with the fields:

- \text{Transaction\_label} = \text{Transaction}_{\text{Lower Tester}}
- \text{Message\_type} = 11 (response reject)
- \text{Signal\_Id} = 0x03 (AVDTP\_SET\_CONFIGURATION)
- \text{Service\_Category} = \text{The value provided with AVDT\_Set\_configuration\_Rej}
- \text{Error\_Code} = \text{The value provided with AVDT\_Set\_configuration\_Rej}

### 4.2.1.34 Detect Rejection of a Get Configuration Command by the ACP – INT

**Test Case ID(s)**

\texttt{AVDTP/SRC/INT/SIG/SMG/BI-10-C}

\texttt{AVDTP/SNK/INT/SIG/SMG/BI-10-C}

**Test Purpose**

To verify that the IUT (INT) is able to detect the rejection by the ACP of a get configuration command.

**Reference**

[3] 6.4, 6.9, 8.9, 13.1


**Initial Condition**

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEI_{\text{D}_{\text{Lower Tester}}} has been configured, see Section 4.2.1.5 - Set Configuration Command – INT.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The SEP identified by SEID_{LowerTester} has been configured.

The Upper Tester registers to AVDT_Get_Configuration_Cfm events and issues a valid AVDT_Get_Configuration_Req command.

---

Figure 4.35: AVDTP/SRC/INT/SIG/SMG/BI-10-C, AVDTP/SNK/INT/SIG/SMG/BI-10-C

• Test Condition

The Upper Tester registers to AVDT_Get_Configuration_Cfm events and issues a valid AVDT_Get_Configuration_Req command (see Section 4.2.1.7 - Get Configuration Command – INT).

Fields of AVDTP_SET_CONFIGURATION_REJ:
- Transaction_label = Transaction_{IUT} = Value provided with the AVDTP_GET_CONFIGURATION_CMD message
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 11 (response reject)
- Signal_Id = 0x04 (AVDTP_GET_CONFIGURATION)
- Error_Code = 0x12 (BAD_ACP_SEID)
• Expected Outcome
  Pass verdict

Get_ConfigurationCfm_CB is invoked with the following parameters:

  Transaction = Transaction_{IUT}

  StreamHandle = SH_{IUT} = The value provided when the SEP was configured

  StreamConfigurationParameters = The value provided with the AVDTP_GET_CONFIGURATION_REJ message

  ErrorCode = The Error_Code provided with the AVDTP_GET_CONFIGURATION_REJ message

4.2.1.35 Invalid Get Configuration Reject Response – ACP

• Test Case ID(s)
  AVDTP/SRC/ACP/SIG/SMG/BI-11-C
  AVDTP/SNK/ACP/SIG/SMG/BI-11-C

• Test Purpose
  To verify that the IUT (ACP) is able to issue a get configuration reject response to the INT.

• Reference
  [3] 6.4, 6.9, 8.9, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured the SEP identified by SEI_{IUT}, see Section 4.2.1.6 - Set Configuration Response – ACP.
• Test Procedure

Figure 4.36: AVDTP/SRC/ACP/SIG/SMG/BI-11-C, AVDTP/SNK/ACP/SIG/SMG/BI-11-C

• Test Condition

Fields of AVDTP_GET_CONFIGURATION_CMD:
- Transaction_label = TransactionLowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x04 (AVDTP_GET_CONFIGURATION)
- SEID = SEID_IUT = An invalid value (SEID not existing on the IUT)

• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:
- Transaction_label = TransactionLowerTester
Message_type = 11 (response reject)

Signal_Id = 0x04 (AVDTP_GET_CONFIGURATION)

Service_Category = Any value

Error_code = 0x12 (BAD_ACP_SEID)

**4.2.1.36 Get Configuration Reject Response – ACP**

- **Test Case ID(s)**
  
  AVDTP/SRC/ACP/SIG/SMG/BI-12-C
  
  AVDTP/SNK/ACP/SIG/SMG/BI-12-C

- **Test Purpose**
  
  To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester’s request in answer to a get configuration command.

- **Reference**
  
  [3] 6.4, 6.9, 8.9, 13.1
  

- **Initial Condition**
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  
  The Lower Tester has configured the SEP identified by SEID<sub>l</sub>.
  
  Upper Tester registers to AVDT_Get_Configuration_Ind events.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has configured SEID_{IUT}.

Upper Tester registers to AVDTP\_Get\_Configuration\_Ind events

- AVDTP\_GET\_CONFIGURATION\_CMD
  - (Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_id)

- Get\_Configuration\_Ind\_CB
  - (Transaction, Stream\_Handle)

- AVDTP\_GET\_CONFIGURATION\_REJ
  - (Transaction, Stream\_Handle, List\_Of\_Stream\_Configurations, ErrorCode)

- AVDT\_Get\_Configuration\_Rej
  - (RSP)

Figure 4.37: AVDTP/SRC/ACP/SIG/SMG/BI-12-C, AVDTP/SNK/ACP/SIG/SMG/BI-12-C

• Test Condition

Fields of AVDTP\_GET\_CONFIGURATION\_CMD:

- Transaction\_label = Transaction\_Lower\_Tester = Any value
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x04 (AVDTP\_GET\_CONFIGURATION)
- SEID = SEID_{IUT}

Parameters for the AVDT\_Get\_Configuration\_Rej service primitive:

- Transaction = Transaction\_Lower\_Tester
- BD\_ADDR = BD\_ADDR\_Lower\_Tester
- Stream\_Handle = SH_{IUT} = The value provided when SEID_{IUT} was configured.
- ListOfStreamConfigurations = Any value
- ErrorCode = Any value in the range 0xC0-0xFF

**Expected Outcome**

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

- Transaction_label = Transaction\textsubscript{LowerTester}
- Message_type = 11 (response reject)
- Signal_Id = 0x04 (AVDTP\_GET\_CONFIGURATION)
- Error_Code = The value provided with AVDT\_Get\_Configuration\_Rej

**4.2.1.37 Detect Rejection of the Reconfigure Command by the ACP – INT**

**Test Case ID(s)**

- AVDTP/SRC/INT/SIG/SMG/BI-13-C
- AVDTP/SNK/INT/SIG/SMG/BI-13-C

**Test Purpose**

To verify that the IUT (INT) is able to detect the rejection by the ACP of the reconfigure command.

**Reference**


[5] 6.4, 6.15, 8.11, 13.1

**Initial Condition**

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID\textsubscript{LowerTester} is in OPENED state.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
SEID_LowerTester has been configured, opened, started and then suspended.

Upper Tester registers to AVDTP_ReConfigure_Cfms events and issues a valid AVDTP_ReConfigureReq command

AVDTP_RECONFIGURE_REJ

{Transaction_label, Packet_type, Message_type, Reserved, Signal_id, Service_Category, Error_code}

ReConfigureCfms_CB

{Transaction, ErrorCode}

Figure 4.38: AVDTP/SRC/INT/SIG/SMG/BI-13-C, AVDTP/SNK/INT/SIG/SMG/BI-13-C

• Test Condition

The Upper Tester registers to AVDTP_ReConfigure_Cfms events and issues a valid AVDTP_ReConfigure Req command (see Section 4.2.1.9 - Reconfigure Command – INT).

Fields of AVDTP_RECONFIGURE_REJ:

- Transaction_label = TransactionIUT = Value provided with the AVDTP_RECONFIGURE_CMD message
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 11 (response reject)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)
- Service_Category = Any of the service categories provided in AVDTP_ReConfigure_Req
- Error_Code = 0X14 (SEP_NOT_IN_USE), 0X17 (BAD_SERV_CATEGORY)
• Expected Outcome

   Pass verdict

   ReConfigureCfm_CB is invoked with the following parameters:

   Transaction = Transaction_{IUT}

   ErrorCode = The Error_Code provided with the AVDTP_RECONFIGURE_REJ message

4.2.1.38  Detect the Rejection of the Reconfigure Command by the ACP after Configuration and OPEN – INT

• Test Case ID(s)

   AVDTP/SRC/INT/SIG/SMG/ESR05/BI-13-C

   AVDTP/SNK/INT/SIG/SMG/ESR05/BI-13-C

• Test Purpose

   To verify that the IUT (INT) is able to detect the rejection by the ACP of the reconfigure command.

• Reference


   [5] 6.4, 6.15, 8.11, 13.1

• Initial Condition

   One L2CAP channel for signaling is established between the IUT and the Lower Tester.

   The SEP identified by SEID_{LowerTester} is in OPENED state.
• Test Procedure

![Diagram of test procedure](image)

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. SEID_{Lower Tester} has been configured then opened.

Upper Tester registers to AVDTP ReConfigure_Cfm events and issues a valid AVDTP ReConfigureReq command

**AVDTP_RECONFIGURE REJ**

{Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code}

ReConfigureCfm_CB

{Transaction, ErrorCode}

**Figure 4.39:** AVDTP/SRC/INT/SIG/SMG/ESR05/BI-13-C, AVDTP/SNK/INT/SIG/SMG/ESR05/BI-13-C

• Test Condition

The Upper Tester registers to AVDTP ReConfigure_Cfm events and issues a valid AVDTP ReConfigure_Req command (see Section 4.2.1.10 - Reconfigure Command after Configuration and Open – INT).

**Fields of AVDTP_RECONFIGURE_REJ:**

- **Transaction_label** = Transaction_{IUT} = Value provided with the AVDTP_RECONFIGURE_CMD message
- **Packet_type** = 00 (single packet)
- **Reserved** = 00
- **Message_type** = 11 (response reject)
- **Signal_Id** = 0x05 (AVDTP_RECONFIGURE)
- **Service_Category** = Any of the service categories provided in AVDTP_ReConfigure_Req
- **Error_Code** = 0X14 (SEP_NOT_IN_USE), 0X17 (BAD_SERV_CATEGORY)
• Expected Outcome
  Pass verdict

  ReConfigureCfm_CB is invoked with the following parameters:

  Transaction = Transaction$_{IUT}$

  ErrorCode = The Error_Code provided with the AVDTP_RECONFIGURE_REJ message

4.2.1.39  Reconfigure Reject Response for Invalid Requests – ACP

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-14-C

  AVDTP/SNK/ACP/SIG/SMG/BI-14-C

• Test Purpose
  To verify that the IUT (ACP) is able to issue a reconfigure reject response to the INT.

• Reference

  [5] 6.4, 6.15, 8.11, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The SEP identified by SEID$_{IUT}$ has been configured and opened.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
SEID_{IUT} has been configured and opened.

AVDTP_RECONFIGURE_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Service_Capabilities)

AVDTP_RECONFIGURE_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code)

AVDTP_RECONFIGURE_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Service_Capabilities)

AVDTP_RECONFIGURE_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code)

AVDTP_RECONFIGURE_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Service_Capabilities)

AVDTP_RECONFIGURE_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code)

Figure 4.40: AVDTP/SRC/ACP/SIG/SMG/BI-14-C, AVDTP/SNK/ACP/SIG/SMG/BI-14-C

• Test Condition

Fields of 3 consecutive AVDTP_RECONFIGURE_CMD:

First:
- Transaction_label = Transaction_{Lower Tester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)
- SEID = SEID_{IUT}
- Service_capabilities = Service category not defined in AVDTP (e.g., all the bits of the field defining the service category are set to 1)
Second:

- Transaction_label = Transaction_LowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)
- SEID = Invalid value (i.e., not corresponding to an already configured SEP).
- Service_capabilities = Valid media transport capabilities

Third:

- Transaction_label = Transaction_LowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)
- SEID = SEID_IUT
- Service_capabilities = Valid media transport capabilities

• Expected Outcome

  Pass verdict

The Lower Tester receives consecutively the AVDTP signaling message with the fields:

  Transaction_label = Transaction_LowerTester
  Message_type = 11 (response reject)
  Signal_Id = 0x05 (AVDTP_RECONFIGURE)
  Service_Category = The value provided in AVDTP_RECONFIGURE_CMD
  Error_code = 0x17 (BAD_SERV_CATEGORY)
  Transaction_label = Transaction_LowerTester
  Message_type = 11 (response reject)
  Signal_Id = 0x05 (AVDTP_RECONFIGURE)
  Service_Category = 0
Error_code = 0x14 (SEP_NOT_IN_USE) or 0x12 (BAD_ACP_SEID)

Transaction_label = TransactionLowerTester

Message_type = 11 (response reject)

Signal_Id = 0x05 (AVDTP_RECONFIGURE)

Service_Category = The value provided in AVDTP_RECONFIGURE_CMD

Error_code = 0x1A (INVALID_CAPABILITIES)

4.2.1.40  Reject Reconfigure Request following Suspend – ACP

•  Test Case ID(s)

   AVDTP/SRC/ACP/SIG/SMG/BI-15-C

   AVDTP/SNK/ACP/SIG/SMG/BI-15-C

•  Test Purpose

   To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester's request in answer to a reconfigure command.

•  Reference


   [5] 6.4, 6.15, 8.11, 13.1

•  Initial Condition

   One L2CAP channel for signaling is established between the IUT and the Lower Tester.

   The Lower Tester has configured, opened, started and then suspended the SEP identified by SEID_{IUT}.

   The Upper Tester registers to AVDT_Reconfigure_Ind events.
• Test Procedure

  ![Diagram of the test procedure]

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. SEID_{IUT} has been configured, opened, started and then suspended.

Upper Tester registers to AVDT_Reconfigure_Ind events

AVDTP_RECONFIGURE_CMD

<table>
<thead>
<tr>
<th>(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Service_Capabilities)</th>
</tr>
</thead>
</table>

ReconfigureInd_CB

<table>
<thead>
<tr>
<th>(Transaction, StreamHandle, ListOfConfigurationParameters)</th>
</tr>
</thead>
</table>

AVDT_Reconfigure_Rej

<table>
<thead>
<tr>
<th>(Transaction, StreamHandle, Error_Code)</th>
</tr>
</thead>
</table>

AVDT_Reconfigure_Rej

<table>
<thead>
<tr>
<th>(RSN)</th>
</tr>
</thead>
</table>

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**Figure 4.41**: AVDTP/SRC/ACP/SIG/SMG/BI-15-C, AVDTP/SNK/ACP/SIG/SMG/BI-15-C

• Test Condition

**Fields of AVDTP_RECONFIGURE_CMD:**

- Transaction_label = Transaction_{LowerTester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)
- SEID = SEID_{IUT}
- Service_capabilities = Valid values

**Parameters for the AVDT_Reconfigure_Rej service primitive:**

- Transaction = Transaction_{LowerTester}
- StreamHandle = SH_{IUT} = The value provided by ReconfigureInd_CB
- **ErrorCode** = Any value in the range 0xC0-0xFF

• **Expected Outcome**
  
  **Pass verdict**

  The Lower Tester receives the AVDTP signaling message with the fields:
  
  - **Transaction_label** = Transaction\(_\text{LowerTester}\)
  - **Message_type** = 11 (response reject)
  - **Signal_Id** = 0x05 (AVDTP\_RECONFIGURE)
  - **Error_Code** = The value provided with AVDT\_Reconfigure\_Rej

4.2.1.41 **Reject Reconfigure Request without Suspend – ACP**

• **Test Case ID(s)**
  
  AVDTP/SRC/ACP/SIG/SMG/ESR05/BI-15-C
  
  AVDTP/SNK/ACP/SIG/SMG/ESR05/BI-15-C

• **Test Purpose**

  To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester’s request in answer to a reconfigure command.

• **Reference**


  [5] 6.4, 6.15, 8.11, 13.1

• **Initial Condition**

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured and then opened SEID\(_\text{IUT}\)

  The Upper Tester registers to AVDT\_Reconfigure\_Ind events.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. SEID_{IUT} has been configured then opened.

Upper Tester registers to AVDT_Reconfigure_Ind events

![Diagram](Figure 4.42: AVDTP/SRC/ACP/SIG/ESR05/BI-15-C, AVDTP/SNK/ACP/SIG/ESR0/BI-15-C)

• Test Condition

Fields of AVDTP_RECONFIGURE_CMD:

- Transaction_label = Transaction_{LowerTester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x05 (AVDTP_RECONFIGURE)
- SEID = SEID_{IUT}
- Service_capabilities = Valid values

Parameters for the AVDT_Reconfigure_Rej service primitive:

- Transaction = Transaction_{LowerTester}
- StreamHandle = SH_{IUT} = The value provided by ReconfigureInd_CB
- Error Code = Any value in the range 0xC0-0xFF

• Expected Outcome
Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction\text{\textsubscript{Lower Tester}}
  
  Message_type = 11 (response reject)
  
  Signal_Id = 0x05 (AVDTP\_RECONFIGURE)
  
  Error_Code = The value provided with AVDT\_Reconfigure\_Rej

4.2.1.42 Detect the Rejection of an Open Command by ACP – INT

• Test Case ID(s)

  AVDTP/SRC/INT/SIG/SMG/BI-16-C
  
  AVDTP/SNK/INT/SIG/SMG/BI-16-C

• Test Purpose
To verify that the IUT (INT) is able to detect the rejection by the ACP of an open stream command.

• Reference

  [3] 6.4, 6.10, 8.11, 13.1
  
  [5] 6.4, 6.11, 8.12, 13.1

• Initial Condition
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID\text{\textsubscript{Lower Tester}} has been configured (Stream handle = SH\text{\textsubscript{IUT}}) with any valid parameters, see Section 4.2.1.5 - Set Configuration Command – INT.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The SEP identified by SEID_{LowerTester} has been configured (stream handle = \text{SH}_{IUT}).

Upper Tester registers to AVDTP\_Open\_Cfm events and issues a valid AVDTP\_Open\_Req command.

**Figure 4.43: AVDTP/SRC/INT/SIG/SMG/BI-16-C, AVDTP/SNK/INT/SIG/SMG/BI-16-C**

• Test Condition

The Upper Tester registers to AVDTP\_Open\_Cfm events and issues a valid AVDTP\_Open\_Req command (see Section 4.2.1.13 - Open Command – INT).

Fields of AVDTP\_OPEN\_REJ:
- Transaction\_label = Transaction\_IUT = Value provided with the AVDTP\_OPEN\_CMD message
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 11 (response reject)
- Signal\_Id = 0x06 (AVDTP\_OPEN)
- Error\_Code = 0x31 (BAD\_STATE)
• Expected Outcome
  Pass verdict

  OpenCfm_CB is invoked with the following parameters:

  Transaction = Transaction\text{\_IUT}

  ErrorCode = The Error\_Code provided with the AVDTP\_OPEN\_REJ message

4.2.1.43 Invalid Open Stream Reject Response – ACP

• Test Case ID(s)
  
  AVDTP/\text{SRC}/ACP/SIG/SMG/BI-17-C
  
  AVDTP/\text{SNK}/ACP/SIG/SMG/BI-17-C

• Test Purpose
  To verify that the IUT (ACP) is able to issue an Open stream reject response to the INT.

• Reference
  
  [3] 6.4, 6.10, 8.11, 13.1
  
  [5] 6.4, 6.11, 8.12, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has not configured the SEP identified by SEID\text{\_IUT}.
· **Test Procedure**

![Diagram of test procedure]

-One ACL link exists between the IUT and the Lower Tester.
-One L2CAP channel for signaling is established between the IUT and the Lower Tester.
-The Lower Tester has NOT configured SEID$_{IUT}$

AVDTP\_OPEN\_CMD

- (Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, SEID)

AVDTP\_OPEN\_REJ

- (Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, Error\_code)

*Figure 4.44: AVDTP/SRC/ACP/SIG/SMG/BI-17-C, AVDTP/SNK/ACP/SIG/SMG/BI-17-C*

· **Test Condition**

  Fields of AVDTP\_OPEN\_CMD:

  - Transaction\_label = Transaction$_{Lower\_Tester}$ = Any value
  - Packet\_type = 00 (single packet)
  - Reserved = 00
  - Message\_type = 00 (command)
  - Signal\_Id = 0x06 (AVDTP\_OPEN)
  - SEID = SEID$_{IUT}$ = The value used for configuring the SEP
  - The reserved bits following SEID are set to '00'
• Expected Outcome
  
  Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction\_LowerTester

  Message_type = 11 (response reject)

  Signal_Id = 0x06 (AVDTP\_OPEN)

  Error_code = 0x31 (BAD\_STATE)

4.2.1.44 Reject Open Stream Command Response – ACP

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-18-C

  AVDTP/SNK/ACP/SIG/SMG/BI-18-C

• Test Purpose

  To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester's request in answer to an open stream command.

• Reference

  [3] 6.4, 6.10, 8.11, 13.1

  [5] 6.4, 6.11, 8.12, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured the SEP identified by $SEID_{\text{IUT}}$ (Stream handle = $SH_{\text{IUT}}$).

  The Upper Tester registers to AVDT\_Open\_Ind events.
• Test Procedure

**Figure 4.45**: AVDTP/SRC/ACP/SIG/SMG/Bl-18-C, AVDTP/SNK/ACP/SIG/SMG/Bl-18-C

• Test Condition

**Fields of AVDTP_OPEN_CMD:**

- Transaction_label = TransactionLowerTester = any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x06 (AVDTP_OPEN)
- SEID = SEIDIUT

**Parameters for the AVDT_Open_Rej service primitive:**

- Transaction = TransactionLowerTester
- StreamHandle = SHIUT = the value provided by OpenInd_CB
- ErrorCode = Any value in the range 0xC0-0xFF
• Expected Outcome
  
  Pass verdict

  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction\text{\textsubscript{LowerTester}}

  Message\_type = 11 (response reject)

  Signal\_Id = 0x06 (AVDTP\_OPEN)

  Error\_Code = The value provided with AVDT\_Open\_Rej

  \textbf{AVDTP/SRC/INT/SIG/SMG/BI-19-C} [Detect the rejection of the Start Stream Command by the ACP – INT]

  • Test Purpose

    To verify that the IUT (SRC, INT) is able to report the rejection by the remote device of the start stream command.

  • Reference

    [3] 6.4, 6.11, 8.12, 13.1

    [5] 6.4, 6.12, 8.13, 13.1

  • Initial Condition

    One L2CAP channel for signaling is established between the IUT and the Lower Tester.

    The SEP identified by SEID\textsubscript{LowerTester} has been configured (Stream handle = SH\textsubscript{IUT}) with valid parameters, see Section 4.2.1.5 - Set Configuration Command – INT.

    A stream connection to the SEP identified by SEID\textsubscript{LowerTester} (Stream handle = SH\textsubscript{IUT}) has been established, see Section 4.2.1.13 - Open Command – INT.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Upper Tester has configured SEID_{LowerTester} (Stream handle = SH_{IUT}) and established a stream connection with this SEP.

Upper Tester registers to AVDT_{Start} Cfm events and issues a valid AVDT_{Start} Req command.

AVDTP_{START_REJ} (Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Error_code)

StartCfm_CB (Transaction, StreamHandle, ErrorCode)

Figure 4.46: AVDTP/SRC/INT/SIG/SMG/BV-19-C

• Test Condition

The Upper Tester registers to AVDT_{Start} Cfm events and issues a valid AVDT_{Start} Req command (see AVDTP/SRC/INT/SIG/SMG/BV-17-C [Start a Streaming Procedure - INT]).

Fields of AVDTP_{START_REJ}:
- Transaction_label = Transaction_{IUT} = Value provided with the AVDTP_{START} CMD message
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 11 (response reject)
- Signal_Id = 0x07 (AVDTP_{START})
- SEID = SEID_{LowerTester}
- Error_Code = 0x31 (BAD_STATE)
• Expected Outcome
  
  Pass verdict

StartCfm_CB is invoked with the following parameters:

  Transaction = Transaction_{IUT}

  StreamHandle = SH_{IUT}

  ErrorCode = The Error_Code provided with the AVDTP_START_REJ message

4.2.1.45 Start Stream Reject Response when not in Open State – ACP

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-20-C

  AVDTP/SNK/ACP/SIG/SMG/BI-20-C

• Test Purpose

  To verify that the IUT (ACP) is able to issue a start stream reject response to the INT.

• Reference

  [3] 6.4, 6.11, 8.12, 13.1

  [5] 6.4, 6.12, 8.13, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured the SEP identified by SEID_{IUT}, see Section 4.2.1.6 - Set Configuration Response – ACP.

  The SEP identified by SEID_{IUT} is not in the OPEN state.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has configured SEID_{IUT} with this SEP.

AVDTP\_START\_CMD
(Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, SEID)

AVDTP\_START\_REJ
(Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, SEID, Error\_code)

Figure 4.47: AVDTP/SRC/ACP/SIG/SMG/BI-20-C, AVDTP/SNK/ACP/SIG/SMG/BI-20-C

• Test Condition

Fields of AVDTP\_START\_CMD:

- Transaction\_label = Transaction\_{Lower Tester} = Any value
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x07 (AVDTP\_START)
- SEID = SEID_{IUT} = The value used for configuring the SEP

• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction\_label = Transaction\_{Lower Tester}
Message_type = 11 (response reject)

Signal_Id = 0x07 (AVDTP_START)

SEID = SEID_IUT

Error_code = 0x31 (BAD_STATE)

4.2.1.46 Reject Start Stream Command Response – ACP

• Test Case ID(s)

AVDTP/SRC/ACP/SIG/SMG/BI-21-C

AVDTP/SNK/ACP/SIG/SMG/BI-21-C

• Test Purpose

To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester’s request in answer to a start stream command.

• Reference

[3] 6.4, 6.11, 8.12, 13.1

[5] 6.4, 6.12, 8.13, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has configured the SEP identified by SEID_IUT (Stream handle = SH_IUT), see Section 4.2.1.6 - Set Configuration Response – ACP.

The Lower Tester has established a stream connection with the SEP identified by SEID_IUT, see Section 4.2.1.14 - Open Command – ACP.

The Upper Tester registers to AVDT_Start_Ind events.
• Test Procedure

![Diagram of test procedure]

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. SEID\textsubscript{IUT} has been configured and a stream connection has been established with this SEP.

Upper Tester registers to AVDT\_Start\_Ind events

AVDTP\_START\_CMD

(Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, SEID)

StartInd\_CB

(Transaction, StreamHandle)

AVDT\_Start\_Rej

(Transaction, StreamHandle, StreamHandle, ErrorCode)

AVDT\_Start\_Rej

(RSP)

Figure 4.48: AVDTP/SRC/ACP/SIG/SMG/BI-21-C, AVDTP/SNK/ACP/SIG/SMG/BI-21-C

• Test Condition

Fields of AVDTP\_START\_CMD:

- Transaction\_label = Transaction\_LowerTester = Any value
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x07 (AVDTP\_START)
- SEID = SEID\textsubscript{IUT}

Parameters for the AVDT\_Start\_Rej service primitive:

- Transaction = Transaction\_LowerTester
- StreamHandle = SH\textsubscript{IUT} = The value provided by StartInd\_CB
- StreamHandle = SH_{IUT} = The value provided by StartInd_CB
- ErrorCode = Any value in the range 0xC0-0xFF

• Expected Outcome
  
  Pass verdict

  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_{LowerTester}

  Message_type = 11 (response reject)

  Signal_Id = 0x07 (AVDTP_START)

  SEID = SEID_{IUT}

  Error_Code = The value provided with AVDT_Start_Rej

4.2.1.47  Detect the Rejection of the Close Stream Command by the ACP – INT

• Test Case ID(s)

  AVDTP/SRC/INT/SIG/SMG/BI-22-C

  AVDTP/SNK/INT/SIG/SMG/BI-22-C

• Test Purpose

  To verify that the IUT (INT) is able to report the rejection by the remote device of the close stream command.

• Reference

  [3] 6.4, 6.12, 8.13, 13.1


• Initial Condition

  Lower Tester is Remote Device

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The SEP identified by SEID_{LowerTester} has been configured (Stream handle = SH_{IUT}) with any valid parameters, see Section 4.2.1.7 - Set Configuration Command – INT.

  A connection to the SEP identified by SEID_{LowerTester} has been established, see Section 4.2.1.13 - Open Command – INT.
• **Test Procedure**

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Upper tester has configured SEILowerTester (Stream handle = SHIUT) with any valid parameters. The stream has been established.

Upper Tester registers to AVDT_Close_Cfm events and issues a valid AVDT_Close_Req command.

![Diagram of test procedure]

*Figure 4.49: AVDT/SRC/INT/SIG/SMG/BI-22-C, AVDTP/SNK/INT/SIG/SMG/BI-22-C*

• **Test Condition**

The Upper Tester registers to AVDT_Close_Cfm events and issues a valid AVDT_Close_Req command, see Section 4.2.1.16 - Close Command – INT.

Fields of AVDTP_CLOSE_REJ:
- Transaction_label = TransactionIUT = Value provided with the AVDTP_CLOSE_CMD message
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 11 (response reject)
- Signal_Id = 0x08 (AVDTP_CLOSE)
- Error_Code = 0x31 (BAD_STATE)
• Expected Outcome
  Pass verdict

CloseCfm_CB is invoked with the following parameters:

  Transaction = Transaction_{IUT}

  ErrorCode = The Error_Code provided with the AVDTP_CLOSE_REJ message

4.2.1.48  Close Stream Reject Response to Invalid SEP – ACP

• Test Case ID(s)
  AVDTP/SRC/ACP/SIG/SMG/BI-23-C
  AVDTP/SNK/ACP/SIG/SMG/BI-23-C

• Test Purpose
  To verify that the IUT (ACP) is able to issue a close stream reject response to the Lower Tester (INT).

• Reference
  [3] 6.4, 6.12, 8.13, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured and established the SEP identified by SEID_{IUT}, see Section 4.2.1.14 - Open Command – ACP.
• **Test Procedure**

  ![Diagram](image_url)

  One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has configured and established SEID_{IUT}.

  AVDTP CLOSE CMD
  
  \[(\text{Transaction\_label}, \text{Packet\_type}, \text{Message\_type}, \text{Reserved}, \text{Signal\_Id}, \text{SEID})\]

  AVDTP CLOSE REJ
  
  \[(\text{Transaction\_label}, \text{Packet\_type}, \text{Message\_type}, \text{Reserved}, \text{Signal\_Id}, \text{Error\_code})\]

  **Figure 4.50**: AVDTP/SRC/ACP/SIG/SMG/BI-23-C, AVDTP/SNK/ACP/SIG/SMG/BI-23-C

• **Test Condition**

  **Fields of AVDTP\_CLOSE\_CMD:**

  - \(\text{Transaction\_label} = \text{Transaction}_{\text{LowerTester}}\) = Any value.
  - \(\text{Packet\_type} = 00\) (single packet)
  - \(\text{Reserved} = 00\)
  - \(\text{Message\_type} = 00\) (command)
  - \(\text{Signal\_Id} = 0x08\) (AVDTP\_CLOSE)
  - \(\text{SEID} = \text{SEID}_{\text{IUT}}\) = Any value, except the one used for configuring and establishing the SEP

• **Expected Outcome**

  **Pass verdict**

  The Lower Tester receives the AVDTP signaling message with the fields:

  \(\text{Transaction\_label} = \text{Transaction}_{\text{LowerTester}}\)
Message_type = 11 (response reject)

Signal_Id = 0x08 (AVDTP_CLOSE)

Error_code = 0x12 (BAD_ACP_SEID)

4.2.1.49 Reject Close Stream Command Response – ACP

• Test Case ID(s)

AVDTP/SRC/ACP/SIG/SMG/BI-24-C

AVDTP/SNK/ACP/SIG/SMG/BI-24-C

• Test Purpose

To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester's request in answer to a close stream command.

• Reference

[3] 6.4, 6.12, 8.13, 13.1


• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has configured and established the SEP identified by SEID_{IUT}, see Section 4.2.1.14 - Open Command – ACP.

The Upper Tester registers to AVDT_Close_Ind events.
• **Test Procedure**

![Diagram of Audio/Video Distribution Transport Protocol (AVDTP) Test Suite](image)

**Test Condition**

Fields of AVDTP\_CLOSE\_CMD:

- **Transaction\_label** = Transaction\_LowerTester = Any value
- **Packet\_type** = 00 (single packet)
- **Reserved** = 00
- **Message\_type** = 00 (command)
- **Signal\_Id** = 0x08 (AVDTP\_CLOSE)
- **SEID** = SEID\_IUT

Parameters for the AVDT\_Close\_Rej service primitive:

- **Transaction** = Transaction\_LowerTester
- **StreamHandle** = SH\_IUT = The value provided by CloseInd\_CB
- **ErrorCode** = Any value in the range 0xC0-0xFF
• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

- Transaction_label = Transaction_LowerTester
- Message_type = 11 (response reject)
- Signal_Id = 0x08 (AVDTP_CLOSE)
- Error_code = The value provided with AVDT_Close_Rej

**AVDTP/SRC/INT/SIG/SMG/BI-25-C [Detect Rejection of a Suspend Stream Command by the ACP – INT]**

• Test Purpose

To verify that the IUT (SRC, INT) is able to report to the Upper Tester the rejection of a suspend stream command sent by the Lower Tester (ACP).

• Reference


• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Upper Tester has configured the SEP identified by SEID_LowerTester (Stream handle = SH_IUT) with valid parameters, see Section 4.2.1.5 - Set Configuration Command – INT.

A stream connection to the SEP identified by SEID_LowerTester has been established (Stream handle = SH_IUT) and started the stream, see AVDTP/SRC/INT/SIG/SMG/BV-17-C [Start a Streaming Procedure - INT].
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Upper Tester has configured $SEID_{\text{Lower Tester}}$ (Stream handle = $SH_{IUT}$) so as multiplexing is not selected, but reporting and recovery capabilities are selected. The Upper Tester has established and started the stream.

Upper Tester registers to AVDT_Suspend_Cfm events and issues a valid AVDT_Suspend_Req command

AVDTP_SUSPEND_REJ

\[(\text{Transaction\_label}, \text{Packet\_type}, \text{Message\_type}, \text{Reserved}, \text{Signal\_Id}, \text{SEID}, \text{Error\_code})\]

SuspendCfm\_CB

\[(\text{Transaction}, \text{Stream\_Handle}, \text{Error\_Code})\]

Figure 4.52: AVDTP/SRC/INT/SIG/SMG/BI-25-C

• Test Condition

The Upper Tester registers to AVDT_Suspend_Cfm events and issues a valid AVDT_Suspend_Req command (see AVDTP/SRC/INT/SIG/SMG/BV-21-C [Suspend Command – INT]).

Fields of AVDTP_SUSPEND_REJ:
- $\text{Transaction\_label} = \text{Transaction}_{IUT} = \text{Value provided with the AVDTP_SUSPEND_CMD message}$
- $\text{Packet\_type} = 00$ (single packet)
- $\text{Reserved} = 00$
- $\text{Message\_type} = 11$ (response reject)
- $\text{Signal\_Id} = 0x09$ (AVDTP_SUSPEND)
- $\text{SEID} = SEID_{\text{Lower Tester}}$
- $\text{Error\_Code} = 0x31$ (BAD_STATE)
\* Expected Outcome

Pass verdict

SuspendCfm_CB is invoked with the following parameters:

\[ \text{Transaction} = \text{Transaction}_{\text{IUT}} \]

\[ \text{StreamHandle} = \text{SH}_{\text{IUT}} \]

\[ \text{ErrorCode} = \text{The Error Code provided with the AVDTP SUSPEND REJ message} \]

4.2.1.50 Reject Suspend Stream Response when the Stream is not in a Correct State – ACP

\* Test Case ID(s)

AVDTP/SRC/ACP/SIG/SMG/BI-26-C

AVDTP/SNK/ACP/SIG/SMG/BI-26-C

\* Test Purpose

To verify that the IUT (ACP) is able to issue a suspend stream reject response to the Lower Tester (INT).

\* Reference


\* Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has configured the SEP identified by SEID_{IUT}, see Section 4.2.1.6 - Set Configuration Response – ACP.

The Lower Tester has established a stream connection to the SEP identified by SEID_{IUT}, see Section 4.2.1.14 - Open Command – ACP.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has configured SEID\textsubscript{IUT} and established a stream connection to SEID\textsubscript{IUT}.

AVDTP\_SUSPEND\_CMD
(Transaction\_label, Packet\_type, Message\_type,
Reserved, Signal\_Id, SEID)

AVDTP\_SUSPEND\_REJ
(Transaction\_label, Packet\_type, Message\_type,
Reserved, Signal\_Id, SEID, Error\_code)

Figure 4.53: AVDTP/SRC/ACP/SIG/SMG/BI-26-C, AVDTP/SNK/ACP/SIG/SMG/BI-26-C

• Test Condition

Fields of AVDTP\_SUSPEND\_CMD:
- Transaction\_label = Transaction\textsubscript{Lower Tester} = Any value
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x09 (AVDTP\_SUSPEND)
- SEID = SEID\textsubscript{IUT} = The value used for configuring the SEP

• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction\_label = Transaction\textsubscript{Lower Tester}
Message_type = 11 (response reject)
Signal_Id = 0x09 (AVDTP_SUSPEND)
SEID = SEID_{IUT}
Error_Code = 0x31 (BAD_STATE)

4.2.1.51 Reject Suspend Stream Command Response – ACP

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-27-C
  AVDTP/SNK/ACP/SIG/SMG/BI-27-C

• Test Purpose

  To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester’s request in answer to a suspend stream command from the Lower Tester (INT).

• Reference


• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured the SEP identified by SEID_{IUT} (Stream handle = SH_{IUT}), see Section 4.2.1.8 - Set Configuration Response – ACP.

  The Lower Tester has established a stream connection to the SEP identified by SEID_{IUT} and started streaming, see Section 4.2.1.15 - Receive Start Command – ACP.

  The Upper Tester registers to AVDT_Suspend_Ind events.
• Test Procedure

![Diagram of test procedure]

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
SEID_{IUT} has been configured and a stream connection has been established and started with this SEP.

Upper Tester registers to AVDT_Suspend_Ind events

AVDTP_SUSPEND_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID)

SuspendInd_CB
(Transaction, StreamHandle)

AVDTP_Suspend_Rej
(Transaction, StreamHandle, StreamHandle, ErrorCode)

AVDTP_Suspend_Rej
(RSP)

Test Condition

Fields of AVDTP_SUSPEND_CMD:

- Transaction_label = Transaction_{LowerTester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x09 (AVDTP_SUSPEND)
- SEID = SEID_{IUT}

Parameters for the AVDT_Suspend_Rej service primitive:

- Transaction = Transaction_{LowerTester}
- StreamHandle = SH_{IUT} = the value provided by SuspendInd_CB

Figure 4.54: AVDTP/SRC/ACP/SIG/SMG/BI-27-C, AVDTP/SNK/ACP/SIG/SMG/BI-27-C
- StreamHandle = SH_{IUT} = the value provided by SuspendInd_CB
- ErrorCode = Any value in the range 0xC0-0xFF

• Expected Outcome

  Pass verdict

  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_LowerTester

  Message_type = 11 (response reject)

  Signal_Id = 0x09 (AVDTP_SUSPEND)

  SEID = SEID_{IUT}

  Error_Code = The value provided with AVDT_Suspend_Rej

4.2.1.52 General Reject Response – Does not include signal ID

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-28-C

  AVDTP/SNK/ACP/SIG/SMG/BI-28-C

• Test Purpose

  To verify that the IUT (ACP) is able to issue a general reject response to the Lower Tester (INT).

• Reference

  [3] 8.17, 13.1

  [5] 8.18, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

![Diagram showing test procedure involving LOWER TESTER, IUT, and UPPER TESTER.]

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

AVDTP_CMD

(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id)

GENERAL_REJECT

(Transaction_label, Packet_type)

Figure 4.55: AVDTP/SRC/ACP/SIG/SMG/BI-28-C, AVDTP/SNK/ACP/SIG/SMG/BI-28-C

• Test Condition

Fields of AVDTP_CMD:

- Transaction_label = Transaction_LowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x3F (Undefined Signal ID)

• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = Transaction_LowerTester

Other 10 bits = All set to ‘0’.
4.2.1.53 Refuse Further Streaming following Suspend – ACP

• Test Case ID(s)
  AVDTP/SRC/ACP/SIG/SMG/BI-29-C
  AVDTP/SNK/ACP/SIG/SMG/BI-29-C

• Test Purpose
  To verify that the IUT (ACP) is able to refuse further streaming after the streaming procedure has been suspended.

• Reference

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has configured the SEP identified by SEID_{IUT}, see Section 4.2.1.6 - Set Configuration Response – ACP.

  The Lower Tester has established a stream connection to the SEP identified by SEID_{IUT} and started the stream, see Section 4.2.1.15 - Receive Start Command – ACP.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has configured SEID\(_{IUT}\) and established a stream connection to this SEP. The Lower Tester has put the stream into streaming mode.

```
• Test Condition

Parameters for the AVDT_Sig_Event_Registration service primitive:

- Event = AVDT_Suspend_Ind
- Callback = SuspendInd_CB

Fields of AVDTP_SUSPEND_CMD:

- Transaction_label = Transaction\(_{LowerTester}\) = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
```

*Figure 4.56: AVDTP/SRC/ACP/SIG/SMG/BI-29-C, AVDTP/SNK/ACP/SIG/SMG/BI-29-C*
- Signal_Id = 0x09 (AVDTP_SUSPEND)
- SEID = SEID_IUT = The value used for configuring the SEP

Parameters for the AVDT_Suspend_Rsp service primitive:

- Transaction = Transaction_LowerTester
- Stream_Handle = SH_IUT = The value corresponding to SEID_IUT

For an IUT supporting the sink role the parameters for the AVDTP_ReadStreamData service primitive shall be as follows:

- Stream_Handle = SH_IUT
- ExpLength = L_Databuffer (stream data frame buffer length) = Media_Payload expected length of AVDTP media frame
- InBuffer = ADDR_Databuffer

For an IUT supporting the source role the parameters of the AVDT_Write_Req service primitive shall be as follows:

- Stream_Handle = SH_IUT = The value used for configuring and establishing a stream connection for SEID_LowerTester
- Length = L_Databuffer (stream data frame buffer length) = Media_Payload of AVDTP media frame
- OutBuffer = ADDR_Databuffer
- TimingInfo = Time_StampTester
- Marker = one of the possible values (1 or 0)

• Expected Outcome

  Pass verdict

The output parameter: Result of the AVDT_Sig_Event_Registration service primitive is 0x0000 (Event successfully registered).

SuspendInd_CB is invoked with the following parameters

  Transaction = Transaction_LowerTester
  StreamHandle = SH_IUT = The value corresponding to SEID_IUT

The output parameters of the AVDT_Suspend_Rsp service primitive is:

  RSP = REQUEST_ACCEPTED

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_LowerTester
Message_type = 10 (response accept)

Signal_Id = 0x09 (AVDTP_SUSPEND)

For an IUT supporting the sink role the output parameters of the AVDT_ReadStreamData service primitive are as follows:

Result not 0 (unsuccessful data transfer)

For an IUT supporting the source role, the Lower Tester receives no media packet.

4.2.1.54 Ignore Reserved Capabilities in GetCapabilities Response

- Test Case ID(s)

**AVDTP/SRC/INT/SIG/SMG/BI-30-C**

**AVDTP/SNK/INT/SIG/SMG/BI-30-C**

- Test Purpose

To verify that the IUT (INT) is able to ignore a reserved capability in the GetCapabilities response.

- Reference

[3] 6.4, 6.7, 8.7, 13.1

[5] 6.4, 6.7, 8.7, 13.1

- Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester; SEID is in IDLE state.

- Test Procedure

IUT performs Discover and the GetCapabilities for the first SEP. The Lower Tester returns a valid set of capabilities with the addition of a capability with the value 0xEE and a length of 1 octet. The IUT then sends a SetConfiguration command to the Lower Tester including all the capabilities except the 0xEE capability.

- Expected Outcome

Pass verdict

The IUT sends a SetConfiguration command that does not include the 0xEE capability.
4.2.1.55  **General Reject Response – ACP**

- **Test Case ID(s)**
  - AVDTP/SRC/ACP/SIG/SMG/ESR04/BI-28-C
  - AVDTP/SNK/ACP/SIG/SMG/ESR04/BI-28-C

- **Test Purpose**
  To verify that the IUT (ACP) is able to issue a general reject response to the Lower Tester (INT).

- **Reference**
  - [3] 8.17, 13.1
  - [5] 8.18, 13.1

- **Initial Condition**
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

- **Test Procedure**

  ![Diagram](Figure 4.57: AVDTP/SRC/ACP/SIG/SMG/ESR04/BI-28-C, AVDTP/SRC/ACP/SIG/SMG/ESR04/BI-28-C)

- **Test Condition**
  Fields of AVCTP_CMD:
  - Transaction_label = Transaction_LowerTester = Any value
  - Packet_type = 00 (single packet)
  - Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x3F (Undefined signal id)

• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = TransactionLowerTester

Packet_type = 00 (single packet)

Message type = 01 (general reject)

Bits 6 and 7 of Octet 1 are both set to '0'

Other 6 bits = Set to the invalid signal identifier being rejected (0x3F)

4.2.1.56 Detect Rejection of a Get All Capabilities Command by the ACP – INT

• Test Case ID(s)

AVDTP/SRC/INT/SIG/SMG/BI-32-C

AVDTP/SNK/INT/SIG/SMG/BI-32-C

• Test Purpose

To verify that the IUT (INT) is able to detect the rejection by the ACP of a get all capabilities command.

• Reference

[3] 6.4, 6.8, 8.8, 13.1

[5] 6.4, 6.8, 8.8, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• **Test Procedure**

![Diagram of Audio/Video Distribution Transport Protocol (AVDTP) Test Procedure]

- One ACL link exists between the IUT and the Lower Tester.
- One L2CAP channel for signaling is established between the IUT and the Lower Tester.
- Upper Tester registers to AVDT_Get_All_Capabilities_Cfm events and issues a valid AVDT_Get_Capabilities_Req command.

**AVDTP_GET_ALL_CAPABILITIES_REJ**

((Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Error_code)

GetAllCapabilitiesCfm_CB

((Transaction, StreamCapabilities, ErrorCode)

---

**Figure 4.58: AVDTP/SRC/INT/SIG/SMG/BI-32-C, AVDTP/SNK/INT/SIG/SMG/BI-32-C**

• **Test Condition**

The Upper Tester registers to AVDT_Get_All_Capabilities_Cfm events and issues a valid AVDT_Get_All_Capabilities_Req command for SEID_{LowerTester}.

**Fields of AVDTP_GET_ALL_CAPABILITIES_REJ:**

- **Transaction** = Transaction_{IUT} = Value provided with the AVDTP_GET_ALL_CAPABILITIES_CMD message
- **Packet_type** = 00 (single packet)
- **Reserved** = 00
- **Message_type** = 11 (response reject)
- **Signal_Id** = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- **Error_Code** = 0x11 (BAD_LENGTH)
• Expected Outcome
  Pass verdict

  GetAllCapabilitiesCfm_CB is invoked with the following parameters:

  Transaction = Transaction\textsubscript{IUT}

  ErrorCode = The Error\_Code provided with the AVDTP\_GET\_ALL\_CAPABILITIES\_REJ message

4.2.1.57  Invalid Get All Capabilities Reject Response – ACP
• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-33-C

  AVDTP/SNK/ACP/SIG/SMG/BI-33-C

• Test Purpose
  To verify that the IUT (ACP) is able to issue a get all capabilities reject response to the INT.

• Reference
  [3] 6.4, 6.8, 8.8, 13.1

  [5] 6.4, 6.8, 8.8, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

AVDTP_GET_ALL_CAPABILITIES_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID)

AVDTP_GET_ALL_CAPABILITIES_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID, Error_code)

Figure 4.59: AVDTP/SRC/ACP/SIG/SMG/BI-33-C, AVDTP/SNK/ACP/SIG/SMG/BI-33-C

• Test Condition

Fields of AVDTP_GET_ALL_CAPABILITIES_CMD:

- Transaction_label = Transaction_LowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)

The last byte meant to bear the ACP SEID + 2 reserved bits is omitted in order to have an invalid message length.
• Expected Outcome
  
  Pass verdict

  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction\_Lower\_Tester

  Message_type = 11 (response reject)

  Signal\_Id = 0x0C (AVDTP\_GET\_ALL\_CAPABILITIES)

  Error\_code = 0x11 (BAD\_LENGTH)

4.2.1.58 Get All Capabilities Reject Response – ACP

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SMG/BI-34-C

  AVDTP/SNK/ACP/SIG/SMG/BI-34-C

• Test Purpose

  To verify that the IUT (ACP) is able to issue a reject response signal upon the Upper Tester's request in answer to a get all capabilities command.

• Reference

  [3] 6.4, 6.8, 8.8, 13.1

  [5] 6.4, 6.8, 8.8, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Upper Tester registers to AVDT\_Get\_All\_Capabilities\_Ind events.
**Test Procedure**

- **Lower Tester**
- **IUT**
- **Upper Tester**

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

Upper Tester registers to AVDT_Get_All_Capabilities_Ind events

AVDTP_GET_ALL_CAPABILITIES_CMD

(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, SEID)

GetAllCapabilitiesInd_CB

(Transaction, BD_ADDR, SEID)

AVDT_Get_All_Capabilities_Rej

(Transaction, BD_ADDR, SEID, ListOfStreamCapabilities, ErrorCode)

AVDT_Get_All_Capabilities_Rej

(RSP)

**Figure 4.60: AVDTP/SRC/ACP/SIG/SMG/BI-34-C, AVDTP/SNK/ACP/SIG/SMG/BI-34-C**

**Test Condition**

Fields of AVDTP_GET_ALL_CAPABILITIES_CMD:

- Transaction_label = Transaction_{Lower Tester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- SEID = SEID_{IUT}

Parameters for the AVDT_Get_All_Capabilities_Rej service primitive:

- Transaction = Transaction_{Lower Tester}
- BD_ADDR = BD_ADDR_{Lower Tester}
- SEID = SEID_{IUT}
- ListOfStreamCapabilities = Any value
- ErrorCode = Any value in the range 0xC0-0xFF

• Expected Outcome
   Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

   Transaction_label = Transaction_LowerTester
   Message_type = 11 (response reject)
   Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
   Error_Code = The value provided with AVDT_Get_AllCapabilities_Rej

4.2.1.59 Accept all Defined Capabilities in a GetAllCapabilities Response - INT

• Test Case ID(s)

   AVDTP/SRC/INT/SIG/SMG/BI-35-C
   AVDTP/SNK/INT/SIG/SMG/BI-35-C

• Test Purpose
   To verify that the IUT (INT) is able to accept all defined capabilities in the GetAllCapabilities response.

• Reference
   [5] 8.21

• Initial Condition
   One L2CAP channel for signaling is established between the IUT and the Lower Tester; SEID is in IDLE state.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester.

AVDTP\_GET\_ALL\_CAPABILITIES\_CMD

\{Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, SEID\}

AVDTP\_GET\_ALL\_CAPABILITIES\_RSP

\{Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, SEID, Service\_Capabilities\}

AVDTP\_SET\_CONFIGURATION\_CMD

\{Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id, ACP\_SEID, INT\_SEID, Service\_Capabilities\}

AVDTP\_SET\_CONFIGURATION\_RSP

\{Transaction\_label, Packet\_type, Message\_type, Reserved, Signal\_Id\}

Figure 4.61: AVDTP/SRC/INT/SIG/SMG/BI-35-C, AVDTP/SNK/INT/SIG/SMG/BI-35-C

IUT performs Discover and the GetAllCapabilities for the first SEP. The Lower Tester returns a valid set of capabilities. The set of capabilities are all the capabilities defined in AVDTP. The IUT then sends a SetConfiguration command to the Lower Tester using the capabilities support by the IUT.

• Expected Outcome

Pass verdict

The IUT sends a SetConfiguration command.

4.2.1.60 Ignore Reserved Capabilities in the GetAllCapabilities Response – INT

• Test Case ID(s)

AVDTP/SRC/INT/SIG/SMG/BI-36-C
AVDTP/SNK/INT/SIG/SMG/BI-36-C

• Test Purpose

To verify that the IUT (INT) is able to ignore a reserved capability in the GetAllCapabilities response.
• Reference

[5] 8.19

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester; SEID is in IDLE state.

• Test Procedure

![Diagram of test procedure](image)

Figure 4.62: AVDTP/SRC/INT/SIG/SMG/BI-36-C, AVDTP/SNK/INT/SIG/SMG/BI-36-C

IUT performs Discover and the GetAllCapabilities for the first SEP. The Lower Tester returns a valid set of capabilities with the addition of a capability with the value 0xEE and a length of 1 octet. The IUT then sends a SetConfiguration command to the Lower Tester including all the capabilities except the 0xEE capability.

• Expected Outcome

Pass verdict

The IUT send a SetConfiguration command that does not include the 0xEE capability.
4.2.2 Security Signaling Service

Objectives:

To verify that the following security Signaling procedures are implemented according to their specification in AVDTP:

• Content security control command

4.2.2.1 Content Security Control Command – INT

• Test Case ID(s)
  
  AVDTP/SRC/INT/SIG/SEC/BV-01-C
  AVDTP/SNK/INT/SIG/SEC/BV-01-C

• Test Purpose
  
  To verify that the IUT (INT) is able to issue a valid content security control command and reports the replied confirmation.

• Reference
  
  [3] 6.4, 6.15, 8.16, 13.1
  
  [5] 6.4, 6.16, 8.17, 13.1

• Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  A Stream with the SEP identified by SEID_{IUT} has been configured and the corresponding Stream Handle SH_{IUT} has been handed to the Upper Tester.

  The SecurityControlCfm_CB function is registered in the IUT as callback function for the AVDTP_SECURITY_CONTROL_RSP Message.
• **Test Procedure**

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester. The SecurityControlCfm_CB function is registered in the IUT as callback function for the AVDTP_SECURITY_CONTROL_RSP Message.

- **AVDTP_SECURITY_CONTROL_CMD** (SEID, data)
- **AVDTP_SECURITY_CONTROL_RSP** (SEID, data)
- **AVDT_SecurityControlReq** (Stream Handle, Length of Data, Security Control Data)
- **AVDT_SecurityControlReq** (Transaction, RSP)
- **SecurityControlCfm_CB** (Transaction, Length of Data, Security Control Data, Error Code)

**Figure 4.63: AVDTP/SRC/INT/SIG/SEC/BV-01-C, AVDTP/SNK/INT/SIG/SEC/BV-01-C**

• **Test Condition**

Parameters for the AVDT_SecurityControlReq:

- Stream Handle = SH_{IUT}
- Length of Data = LENGTH_{Data_Buffer}
- Security Control Data = ADDRESS_{Data_Buffer}

Parameters for the AVDTP_SECURITY_CONTROL_RSP:

- SEID = SEID_{IUT}
- Data = DATA[ ]_{LowerTester} (as assigned by the Lower Tester)
• Expected Outcome

Pass verdict

After reception of the AVDT_SecurityControlReq service primitive from the Upper Tester, the IUT issues an AVDT_SECURITY_CONTROL_CMD message to the Lower Tester, containing the data provided by the Upper Tester and the SEID corresponding to the Stream Handle SH_IUT.

The IUT returns a valid Transaction label as a return value of the AVDT_SecurityControlReq service primitive. The RSP Output parameter has the value RSP = 0x0000 (Request accepted by the local entity – Service in progress).

After reception of the AVDTP_SECURITY_CONTROL_RSP message by the Lower Tester, the IUT calls the SecurityControlCfm_CB callback function in the Upper Tester with the data provided by the Lower Tester and the same Transaction Label returned to the Upper Tester from the AVDT_SecurityControlReq.

4.2.2.2 Content Security Control Command – ACP

• Test Case ID(s)

AVDTP/SRC/ACP/SIG/SEC/BV-02-C

AVDTP/SNK/ACP/SIG/SEC/BV-02-C

• Test Purpose

To verify that the IUT (ACP) reports the reception of a valid content security control command and replies the returned confirmation.

• Reference

[3] 6.4, 6.15, 8.16, 13.1

[5] 6.4, 6.16, 8.17, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEP identified by SEID_IUT is configured and the corresponding SH_IUT is available in the Upper Tester.

The SecurityControlInd_CB function is registered in the IUT as callback function for the AVDTP_SECURITY_CONTROL_CMD Message.
• **Test Procedure**

![Diagram](image)

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The SecurityControlInd function is registered in the IUT as callback function for the
AVDTP_SECURITY_CONTROL_CMD Message

**Figure 4.64: AVDTP/SRC/ACP/SIG/SEC/BV-02-C, AVDTP/SNK/ACP/SIG/SEC/BV-02-C**

• **Test Condition**

  Parameters for the AVDTP_SECURITY_CONTROL_COMMAND:

  - **SEID** = SEID_{IUT}
  - **Data** = DATA[ ]_{LowerTester} (as assigned by the Lower Tester)

  Parameters for the AVDT_SecurityControlRsp service primitive:

  - **Transaction** = Transaction label provided to the Upper Tester by the SecurityControlInd_CB function.
  - **Stream Handle** = SH_{IUT}
  - **Length of Data** = LENGTH_{Data_Buffer}
  - **Security Control Data** = ADDRESS_{Data_Buffer}
  - **Error Code** = ‘No Error’
• Expected Outcome

  Pass verdict

After reception of the AVDTP_SECURITY_CONTROL_CMD, the IUT calls the SecurityControlInd_CB callback function with the transaction label and data provided by the Lower Tester. The Stream Handle is the one corresponding to SEID_IUT.

After reception of the AVDT_SecurityControlRsp service primitive, the IUT sends an AVDTP_SECURITY_CONTROL_RSP to the Lower Tester, containing the transaction label and data provided by the Upper Tester. The SEID is the SEID_IUT that corresponds to the Stream Handle provided by the Upper Tester.

4.2.2.3 Set Configuration Reject Response – ACP

• Test Case ID(s)

  AVDTP/SRC/ACP/SIG/SEC/BI-01-C
  AVDTP/SNK/ACP/SIG/SEC/BI-01-C

• Test Purpose

  To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the CP type is undefined or if the CP format is incorrect.

• Reference

  [3] 6.4, 6.15, 8.16, 13.1
  [5] 6.4, 6.16, 8.17, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has not yet configured SEID_IUT.
• Test Procedure

![Diagram of test procedure](image)

- LOWER TESTER
- IUT
- UPPER TESTER

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has not yet configured SEID_{IUT}.

AVDTP_SET_CONFIGURATION_CMD
- \{Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, ACP_SEID, INT_SEID, Service_Capabilities\}

AVDTP_SET_CONFIGURATION_REJ
- \{Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code\}

Figure 4.65: AVDTP/SRC/ACP/SIG/SEC/BI-01-C, AVDTP/SNK/ACP/SIG/SEC/BI-01-C

• Test Condition

Fields of AVDTP_SET_CONFIGURATION_CMD:

- Transaction_label = Transaction_{Lower Tester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEID_{IUT} = Any value.
- INT_SEID = Any valid value
- Service_capabilities = Service capabilities including an incorrect format of the content protection service capability (e.g., LOSC = 0x01)
• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = TransactionLowerTester

Message_type = 11 (response reject)

Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)

Error_code = 0x27 (BAD_CP_FORMAT)

4.2.3  Signaling Message Fragmentation Service

Objectives:

To verify that the fragmentation of signaling messages is implemented according to its specification in AVDTP.

4.2.3.1  Fragmentation of Signaling Messages

• Test Case ID(s)

AVDTP/SRC/ACP/SIG/FRA/BV-01-C

AVDTP/SNK/ACP/SIG/FRA/BV-01-C

• Test Purpose

To verify that the IUT (ACP) fragments the signaling messages that cannot fit in a single L2CAP packet.

• Reference

[3] 8.3

[5] 8.3

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The GetCapabilitiesInd_CB callback is registered in the IUT as a callback for the AVDTP_GET_CAPABILITIES_CMD message.

The IUT exposes one SEID = SEID_{IUT} and the Lower Tester knows this ID (e.g., from a precedent Stream Discover Command).
### Test Procedure

One ACL link exists between the IUT and the Lower Tester.

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The GetCapabilitiesInd_CB callback is registered in the IUT.

The IUT exposes one SEID = SEID_{IUT} and the Lower Tester knows this ID (e.g., from a Stream Discover Command).

**AVDTP_GET_CAPABILITIES_CMD**

- **start packet**

**AVDTP_GET_CAPABILITIES_RSP**

- **continue packet**

**AVDTP_GET_CAPABILITIES_RSP**

- **end packet**

**GetCapabilitiesInd_CB**

- (Transaction, BD_ADDR, SEID)

**AVDT_Get_Capabilities_RSP**

- (Transaction, BD_ADDR, SEID, List of Capabilities, Error Code)

**AVDT_Get_Capabilities_RSP**

- (RSP)

---

**Figure 4.66: AVDTP/SRC/ACP/SIG/FRA/BV-01-C, AVDTP/SNKACP/SIG/FRA/BV-01-C**

### Test Condition

On the Lower Tester side, the value of the MTU for the L2CAP channel (MTU_{Lower Tester}) is configured to 48 bytes (lowest one).

**Parameters for AVDTP_GET_CAPABILITIES_CMD:**

- **SEID = SEID_{IUT}** (e.g., received through a precedent Stream Discover Command)

**Parameters for AVDT_GetCapabilitiesRsp:**

- **Transaction =** Transaction label received by the precedent GetCapabilitiesInd_CB callback function

- **BD_ADDR = BD_ADDR_{Lower Tester}**

- **SEID = SEID_{IUT}**

- **List of Capabilities =** The Capabilities exposed by this SEP shall be chosen in a way that the size of the resulting response message exceeds the Lower Tester supported MTU in such a way that the message shall be fragmented in 3 consecutive L2CAP packets. This can be achieved at the
IUT side by aggregating an appropriate list of such capabilities. (for instance by enlarging the list of exposed content protection methods)

- Error Code = ‘No Error’

- Expected Outcome
  Pass verdict

After reception of the AVDT_Get_Capabilities_RSP service primitive from the Upper Tester, the IUT issues three consecutive packets to the Lower Tester:

- One start packet, one continue packet and one end packet.
- The transaction labels in the start, continue and end packets are equal.

The following fields in the AVDTP_GET_CAPABILITIES_RSP start packet have the specified values:

- NOSP = 3
- Packet type = 01 (start packet)
- Message Type = 10 (response accept)

The following fields in the AVDTP_GET_CAPABILITIES_RSP continue packet have the specified values:

- Packet type = 10 (continue packet)
- Message Type = 10 (response accept)

The following fields in the AVDTP_GET_CAPABILITIES_RSP end packet have the specified values:

- Packet type = 11 (end packet)
- Message Type = 10 (response accept)

After reassembly in the Lower Tester, the data in the Service Capabilities field matches the data that was sent by the Upper Tester.

4.2.3.2 Reassembling of Signaling Messages

- Test Case ID(s)
  AVDTP/SRC/INT/SIG/FRA/BV-02-C
  AVDTP/SNK/INT/SIG/FRA/BV-02-C

- Test Purpose
  To verify that the IUT (INT) reassembles the signaling messages that cannot fit in a single L2CAP packet.
• Reference

[3] 8.3

[5] 8.3

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The GetCapabilitiesCfm_CB callback is registered in the IUT as callback for the AVDTP_GET_CAPABILITIES_RSP message.

The Upper Tester knows the SEID exposed by the Lower Tester.

• Test Procedure

Figure 4.67: AVDTP/SRC/INT/SIG/FRA/BV-02-C, AVDTP/SNK/INT/SIG/FRA/BV-02-C
• Test Condition

Parameters for the AVDT_GetCapabilitiesReq:

- BD_ADDR = BD_ADDR_{LowerTester}
- SEID = SEID_{LowerTester}

Parameters for the AVDTP_GET_CAPABILITIES_RSP start packet:

- Transaction = Transaction_{AVDTP_GET_CAPABILITIES_CMD (as received by the Lower Tester)}
- Packet Type = 01 (start packet)
- Message Type = 10 (response accept)
- NOSP = 3 (Number of Signal packets)
- SEID = SEID_{LowerTester}
- Service Capabilities = The Capabilities exposed by this SEP shall be chosen in a way that the size requires three L2CAP packets, 3x48 bytes minus header sizes

Parameters for the AVDTP_GET_CAPABILITIES_RSP continue packet:

- Transaction = Transaction_{AVDTP_GET_CAPABILITIES_CMD (see above)}
- Packet Type = 10 (continue packet)
- Service Capabilities = see above
- Parameters for the AVDTP_GET_CAPABILITIES_RSP end packet:

- Transaction = Transaction_{AVDTP_GET_CAPABILITIES_CMD (see above)}
- Packet Type = 11 (end packet)
- Service Capabilities = see above

• Expected Outcome

Pass verdict

After reception of the three packets belonging to the AVDTP_GET_CAPABILITIES_RSP from the Lower Tester, the IUT calls the GetCapabilitiesCfm_CB callback function in the Upper Tester.

The List of Capabilities delivered by the GetCapabilitiesCfm_CB callback matches the data provided by the Lower Tester in the three AVDTP_GET_CAPABILITIES_RSP packets.

The Error Code delivered by the GetCapabilitiesCfm_CB callback states ‘No Error’.
4.2.4 Delay Reporting

Objectives:

To verify that the stream management signaling procedure of delay reporting is implemented according to its specification in AVDTP.

AVDTP/SNK/ACP/SIG/SYN/BV-01-C [Synchronization Capability offered]

- **Test Purpose**
  
  To verify that the IUT (SNK device) offers the delay reporting capability. This is required in order to enable a SRC to configure delay reporting.

- **Reference**
  
  [5] 8.21.9

- **Initial Condition**
  
  Connection Established.

- **Test Procedure**
  
  The Source (Lower Tester) discovers the SEP capabilities of the SNK (IUT).

![Diagram](image.png)

*Figure 4.68: AVDTP/SNK/ACP/SIG/SYN/BV-01-C
• Expected Outcome
  
  Pass verdict

  The delay reporting capability is offered by the IUT and returned in the Get All Capabilities Response.

**AVDTP/SNK/INT/SIG/SYN/BV-02-C [Sync Capability configuration]**

• Test Purpose

  To verify that the delay reporting capability is configured by a SNK device when it is offered by the SRC device. This allows a SRC device to detect and use the delay reporting capability of a SNK device when the SNK device is the INT of the start streaming procedure.

• Reference

  [5] 8.21.9

• Initial Condition

  Connection Established.

  Delay reporting capability offered by SRC (Lower Tester).

• Test Procedure

  Initiate streaming procedure from SNK device (IUT).
• **Expected Outcome**

  **Pass verdict**

  Delay reporting is configured by SNK.

**AVDTP/SNK/ACP/SIG/SYN/BV-03-C [Initial delay report (SNK is ACP)]**

• **Test Purpose**

  To verify that an initial delay report is sent by a SNK (ACP) device when the Stream Configuration Procedure is initiated by the SRC device (transition from IDLE to OPEN state) and that the report conforms to the specification.

• **Reference**

  [5] 8.19.1

• **Initial Condition**

  One L2CAP channel for signaling is established between the IUT and the Lower Tester (IDLE State).

  SEP discovered.
Capabilities of SEP discovered.

IUT is SNK.

- Test Procedure
  Run the Stream Configuration Procedure:

  `AVDTP_SET_CONFIGURATION_CMD(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, ACP_SEID, INT_SEID, Service_Capabilities)`.

  ![Diagram](image)

- Expected Outcome
  **Pass verdict**

  The SRC receives a valid delay report: `AVDTP_REPORTDELAY_CMD(Delay)` directly after the `AVDTP_SET_CONFIGURATION_RSP`.
AVDTP/SNK/INT/SIG/SYN/BV-04-C [Initial delay report (SNK is INT)]

• Test Purpose
  To verify that an initial delay report is sent by a SNK (INT) device when the Stream Configuration Procedure is initiated by the SNK device (transition from IDLE to OPEN state) and that the report conforms to the specification.

• Reference
  [5] 8.19.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester (IDLE State).
  SEP discovered.
  Capabilities of SEP discovered.
  IUT is SNK.

• Test Procedure
  Run the Stream Configuration Procedure:

  AVDTP_SET_CONFIGURATION_CMD(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, ACP_SEID, INT_SEID, Service_Capabilities).
One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

**Figure 4.71: AVDTP/SNK/INT/SIG/SYN/BV-04-C**

- **Expected Outcome**
  
  **Pass verdict**

  The SRC receives a valid delay report: AVDTP_REPORTDELAY_CMD(Delay) directly after the AVDTP_SET_CONFIGURATION_RSP.

**AVDTP/SRC/INT/SIG/SYN/BV-05-C [Delay Report from Open State]**

- **Test Purpose**
  
  To verify that a delay report received by a SRC IUT while in the OPEN state is properly accepted as valid.

- **Reference**
  
  [5] 8.19.1

- **Initial Condition**
  
  SRC IUT in process of Initiating (INT) media connection.

  Configuration of SEP includes the Delay Reporting Capability.
L2CAP channel for signaling and media is open. (OPEN State).

- **Test Procedure**

  SNK sends AVDTP_REPORTDELAY_CMD(delay).

  ![Diagram](image)

  **Figure 4.72: AVDTP/SRC/INT/SIG/SYN/BV-05-C**

- **Expected Outcome**

  **Pass verdict**

  The SRC responds to delay report with AVDTP_REPORTDELAY_RSP(SUCCESS).

- **Notes**

  Some SRC devices will immediately send the AVDTP_START_CMD command upon successful transition to the OPEN state. If this occurs, the Lower Tester should send the AVDTP_REPORTDELAY_CMD before sending the AVDTP_START_RSP.

**AVDTP/SRC/ACP/SIG/SYN/BV-06-C [Delay Report from STREAMING state]**

- **Test Purpose**

  To verify that a delay report received by a SRC IUT while in the STREAMING state is properly accepted as valid.

- **Reference**

  [5] 8.19.1

- **Initial Condition**

  Configuration of SEP includes the Delay Reporting Capability.

  L2CAP channel for media is open and started (STREAMING State).

  IUT is SRC.
• Test Procedure

SNK sends AVDTP_REPORTDELAY_CMD(delay).

![Diagram of AVDTP_REPORTDELAY_CMD and AVDTP_REPORTDELAY_RSP](image)

*Figure 4.73: AVDTP/SRC/ACP/SIG/SYN/BV-06-C*

• Expected Outcome

*Pass verdict*

The SRC responds to delay report with AVDTP_REPORTDELAY_RSP(SUCCESS).

4.3 Transport

Objectives:

To verify the correct implementation of the transport procedures.

4.3.1 Basic Transport Service

Objectives:

To verify that the basic transport procedures are implemented according to their specifications in AVDTP.

**AVDTP/SRC/INT/TRA/BTR/BV-01-C [Send Streaming Media Data]**

• Test Purpose

To verify that the IUT (SRC) is able to send streaming media data on an established stream.

• Reference

[3] 7.2, 13.2


• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The IUT has discovered SEIDTester. The service capabilities of SEIDTester has been queried and configured, see Section 4.2.1.1 - Stream Discover command - INT. The SEP supports and has been
configured as an SBC source codec. The stream connection has been established to \textsc{SEID}	extsubscript{Tester}, see Section 4.2.1.7 - Get Configuration Command – INT.

One transport session has been opened.

The IUT is in OPEN state.

The AVDT\_Start\_Cfm event callback function \textsc{StartCfm\_CB} has been successfully registered.

The IUT is in INT and SRC roles.

- **Test Procedure**

  \begin{figure}
  \centering
  \includegraphics[width=\textwidth]{AVDTP_SRC_INT_TRA_BTR_BV-01-C.pdf}
  \caption{AVDTP/SRC/INT/TRA/BR/BV-01-C}
  \end{figure}

- **Test Condition**
  \textbf{AVDT\_Start\_Req} parameters:
  - \texttt{Stream\_handler = SH\textsubscript{IUT}} = the value used for \textsc{SEID}\textsubscript{Tester} configuration
  \textbf{AVDTP\_START\_RSP} parameters:
  - \texttt{Transaction\_label = Transaction\textsubscript{IUT}}
  - \texttt{Packet\_type = 00 (single packet)}
  - \texttt{Reserved = 00}
Message_type = 10 (response accept)
- Signal_Id = 0x07 (AVDTP_START)

StartCfm_CB parameters:
- Transaction_label = Transaction_IUT
- Stream_handler = SH_IUT = the value used for SEID_Tester configuration

AVDTP_Write_Req parameters:
- Stream_handler = SH_IUT = the value used for SEID_Tester configuration
- Length = L_data_buffer (stream data frame buffer length) = Media_Payload of AVDTP media frame
- OutBuffer = ADDR_DataBuffer
- TimingInfo = Time_Stamp_Tester
- Marker = 0 = one of the possible values (1 or 0)
- Payload type = PT_IUT = value chosen according to the implementation in the IUT

• Expected Outcome
  Pass verdict

AVDT_Start_Req output parameters:
  Transaction_label = Transaction_IUT
  RSP = 0 (request accepted)

AVDTP_START_CMD parameters:
  Transaction_label = Transaction_IUT
  Message_type = 00 (command)
  Signal_Id = 0x07 (AVDTP_START)
  NSEP = 1
  SEID = SEID_Tester

The IUT sends a media packet, see 7.2.1 in [3] [5] for Media Packet Format definitions.

AVDTP/SNK/ACP/TRA/BTR/BV-02-C [SNK Receives Streaming Media Data]
• Test Purpose
  To verify that the IUT (SNK) is able to receive streaming media data on an established stream.
• Reference
  [3] 7.2, 13.2

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has discovered SEID<sub>Tester</sub>. The service capabilities of SEID<sub>Tester</sub> has been queried and configured. The SEP supports and has been configured as an SBC source codec. The stream connection has been established to SEID<sub>Tester</sub>. One transport session has been opened.

  The IUT is in OPEN state.

  The AVDTP_Start_Ind event callback function StartInd_CB has been successfully registered.

  The IUT is in the ACP and SNK roles.

• Test Procedure

![Diagram of AVDTP/SNK/ACP/TRA/BTR/BV-02-C](image)

**Figure 4.75: AVDTP/SNK/ACP/TRA/BTR/BV-02-C**

• Test Condition

  AVDTP_START_CMD parameters:

  - Transaction_label = TransactionTestSystem
- Packet_Type = 00 (single packet)
- Reserved = 00
- MessageType = 00 (command)
- Signal_Id = 0x07 (AVDTP_START)
- NSEP = 1
- SEID = SEID_{Tester}

AVDTP_Start_Rsp parameters:
- Transaction_label = Transaction_{LowerTester}
- Stream_Handle = SH_{IUT} = the value used for SEID_{Tester} configuration
- SEID = SEID_{Tester}

AVDT_ReadStreamData parameters:
- Stream Handle = SH_{IUT}
- ExpLength = L_{DataBuffer} (stream data frame buffer length) = Media_Payload expected length of AVDTP media frame
- InBuffer = ADDR_{DataBuffer}

• Expected Outcome
  Pass verdict

Start_Ind_CB parameters:

```
Transaction_label = Transaction_{LowerTester}
Stream_handler = SH_{IUT} = the value used for SEID_{Tester} configuration
```

AVDTP_START_RSP parameters:

```
Transaction_label = Transaction_{LowerTester}
MessageType = 10 (response accept)
Signal_Id = 0x07 (AVDTP_START)
```

AVDT_ReadStreamData output parameters:

```
Result = 0 (successful data transfer)
Length = Media_Payload length of AVDTP media frame
Time_Info = Time_Stamp_{Tester}
```
Marker = one of the possible values (1 or 0)

Reliability = 0 (no errors)

Payload type = PT

\( P_{\text{IUT}} = \text{value chosen according to the implementation in the IUT} \)

### 4.3.1.1 Set Configuration Reject Response following Incorrect Media Transport Format

- **Test Case ID(s)**

  **AVDTP/SRC/ACP/TRA/BTR/BI-01-C**
  
  **AVDTP/SNK/ACP/TRA/BTR/BI-01-C**

- **Test Purpose**

  To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the format of the media transport is incorrect.

- **Reference**

  [3] 6.4, 6.8, 8.8, 13.1
  
  [5] 6.4, 6.9, 8.9, 13.1

- **Initial Condition**

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  
  The Lower Tester has not configured SEID\( _{\text{IUT}} \).

- **Test Procedure**

  ![Diagram](image-url)

  Figure 4.76: AVDTP/SRC/ACP/TRA/BTR/BI-01-C, AVDTP/SNK/ACP/TRA/BTR/BI-01-C
- **Test Condition**
  Fields of AVDTP_SET_CONFIGURATION_CMD:
  - Transaction_label = TransactionLowerTester = Any value
  - Packet_type = 00 (single packet)
  - Reserved = 00
  - Message_type = 00 (command)
  - Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
  - ACP_SEID = SEID_IUT = Any value.
  - INT_SEID = Any valid value
  - Service_capabilities = Service capabilities including an invalid format of the media transport capability (LOSC not equal to 0x00)

- **Expected Outcome**
  Pass verdict
  The Lower Tester receives the AVDTP signaling message with the fields:
  - Transaction_label = TransactionLowerTester
  - Message_type = 11 (response reject)
  - Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
  - Error_code = 0x23 (BAD_MEDIA_TRANSPORT_FORMAT)

### 4.3.2 Reporting Service

**Objectives:**

This test group is to verify that an AVDTP implementation providing reporting features exposes the related capabilities and associates a reporting channel to each media transport session.

The compliance of AVDTP implementations with the RTCP specification is not subjected to testing.

### 4.3.2.1 Reporting Service

- **Test Case ID(s)**
  - AVDTP/SRC/ACP/TRA/REP/BV-01-C
  - AVDTP/SNK/ACP/TRA/REP/BV-01-C

- **Test Purpose**
  To verify that the IUT (either SRC or SNK) exposes the reporting service indication with the SEP capabilities.
• Reference
  [3] 6.4, 6.7, 8.7, 13.1

  [5] 6.4, 6.7, 8.7, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The AVDTP_Get_Capabilities_Ind event callback function GetCapabilitiesInd_CB has been successfully registered.

  The IUT is in the ACP role.

• Test Procedure

  Figure 4.77: AVDTP/SRC/ACP/TRA/REP/BV-01-C, AVDTP/SNK/ACP/TRA/REP/BV-01-C

• Test Condition
  AVDTP_GET_CAPABILITIES_CMD parameters:
  - Transaction_label = Transaction_LowerTester
  - Packet_type = 00 (single packet)
  - Reserved = 00
  - Message_type = 00 (command)
  - Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
  - SEID = SEID_Tester

  AVDTP_Get_Capabilities_Rsp parameters:
  - Transaction_label = Transaction_LowerTester
- BD_ADDR = BD_ADDR_{LowerTester}
- List_of_Capabilities = List of valid capabilities of SEID_{Tester}

- Expected Outcome
  
  Pass verdict

  Get_Capabilities_Ind_CB callback parameters:
  
  Transaction_label = Transaction_{LowerTester}
  
  Stream_handler = SH_{LowerTester}

  AVDTP_GET_CAPABILITIES_RSP parameters:
  
  Transaction_label = Transaction_{LowerTester}
  
  Message_type = 10 (response accept)
  
  Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
  
  Service_Capabilities = Valid capabilities for supported services including reporting.

  The reporting capabilities:
  
  Service_category = Reporting
  
  LOSC = 0

4.3.2.2 Reporting Channel Association

- Test Case ID(s)

  AVDTP/SRC/INT/TRA/REP/BV-02-C
  
  AVDTP/SNK/INT/TRA/REP/BV-02-C

- Test Purpose

  To verify that the IUT (either SRC or SNK) associates a reporting channel to each opened media transport session.

- Reference

  

- Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has discovered two stream end points: SEID_{1Tester} SEID_{2Tester}. The service capabilities of both stream end points have been queried and configured.
The IUT is in CONFIGURE state for both stream end points.

The AVDTP_Open_Cfm event callback function OpenCfmCB has been successfully registered.

The IUT is in the INT role.

• Test Procedure

Figure 4.78: AVDTP/SRC/INT/TRA/REP/BV-02-C, AVDTP/SNK/INT/TRA/REP/BV-02-C

• Test Condition

Stream establishment for SEP1.

AVDTP_Open_Req parameters:

- Stream_Handler = SH\textsubscript{IUT} = the value used for SEID\textsubscript{1Tester} configuration

AVDTP_OPEN_RSP parameters:

- Transaction_label = Transaction\textsubscript{1LowerTester}
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x06 (AVDTP_OPEN)
- SEID = SEID\textsuperscript{1}\textsubscript{Tester}

- Stream establishment for SEP2

**AVDTP\_Open\_Req parameters:**

- Stream\_Handler = SH\textsubscript{IUT} = the value used for SEID\textsubscript{2Tester} configuration

**AVDTP\_OPEN\_RSP parameters:**

- Transaction\_label = Transaction\textsubscript{2}\textsubscript{LowerTester}
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x06 (AVDTP\_OPEN)
- SEID = SEID\textsubscript{2Tester}

• Expected Outcome

**Pass verdict**

Stream establishment for SEP1.

**AVDTP\_OPEN\_CMD parameters:**

Transaction\_label = Transaction\textsubscript{1}\textsubscript{LowerTester}

Message\_type = 00 (command)

Signal\_Id = 0x06 (AVDTP\_OPEN)

SEID = SEID\textsubscript{1Tester}

Open\_Cfm\_CB output parameters:

Transaction\_label = Transaction\textsubscript{1}\textsubscript{LowerTester}

Two L2CAP channels for media and reporting sessions are established.

Stream establishment for SEP2.

**AVDTP\_OPEN\_CMD parameters:**

Transaction\_label = Transaction\textsubscript{2}\textsubscript{LowerTester}

Message\_type = 00 (command)

Signal\_Id = 0x06 (AVDTP\_OPEN)

SEID = SEID\textsubscript{2Tester}
OpenCfmCB output parameters:

\[
\text{Transaction\_label} = \text{Transaction2}_{\text{LowerTester}}
\]

Two L2CAP channels for media and reporting sessions are established.

### 4.3.2.3 Set Configuration Reject Response with Bad Report Format

- **Test Case ID(s)**
  - AVDTP/SRC/ACP/TRA/REP/BI-01-C
  - AVDTP/SNK/ACP/TRA/REP/BI-01-C

- **Test Purpose**
  To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the report type is undefined or if the format of the reporting service capability is incorrect.

- **Reference**
  - [3] 6.4, 6.8, 8.8, 13.1
  - [5] 6.4, 6.9, 8.9, 13.1

- **Initial Condition**
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  The Lower Tester has not yet configured SEID_{IUT}.

- **Test Procedure**

  ![Diagram](https://via.placeholder.com/150)

  **Figure 4.79**: AVDTP/SRC/ACP/TRA/REP/BI-01-C, AVDTP/SNK/ACP/TRA/REP/BI-01-C

- **Test Condition**
  Fields of message: AVDTP\_SET\_CONFIGURATION\_CMD:
  - Transaction\_label = Transaction\_LowerTester = Any value
Audio/Video Distribution Transport Protocol (AVDTP) / Test Suite

- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEID_{IUT} = Any value.
- INT_SEID = Any valid value
- Service_capabilities = Service capabilities including an incorrect format of the reporting service capability (e.g., LOSC = 0x01)

• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

   Transaction_label = Transaction_{LowerTester}

   Message_type = 11 (response reject)

   Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)

   Error_code = 0X65 (BAD_REPORT_FORMAT)

4.3.2.4 Set Configuration Reject Response with Bad Length or Bad Payload Format

• Test Case ID(s)

   AVDTP/SRC/ACP/TRA/REP/ESR02/BI-01-C

   AVDTP/SNK/ACP/TRA/REP/ESR02/BI-01-C

• Test Purpose

To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the report type is undefined or if the format of the reporting service capability is incorrect.

• Reference

[3] 6.4, 6.8, 8.8, 13.1

[5] 6.4, 6.9, 8.9, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has not yet configured SEID_{IUT}. 
• Test Procedure

![Diagram showing the Test Procedure with LOWER TESTER, IUT, and UPPER TESTER labeled]

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has already configured correctly SEID_{IUT}.

AVDTP_SET_CONFIGURATION_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, ACP_SEID, INT_SEID, ServiceCapabilities)

AVDTP_SET_CONFIGURATION_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code)

Figure 4.80: AVDTP/SRC/ACP/TRA/REP/ESR02/BI-01-C, AVDTP/SNK/ACP/TRA/REP/ESR02/BI-01-C

• Test Condition

Fields of message: AVDTP_SET_CONFIGURATION_CMD:

- Transaction_label = Transaction_LowerTester = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEID_{IUT} = Any value.
- INT_SEID = Any valid value
- Service_capabilities = Service capabilities including an incorrect format of the reporting service capability (e.g., LOSC = 0x01)

• Expected Outcome

Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

Transaction_label = Transaction_LowerTester

Message_type = 11 (response reject)

Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)

Error_code = 0x11 (BAD_LENGTH) or code 0x18 (BAD_PAYLOAD_FORMAT)
4.3.3 Recovery Service

Objectives:

This test group is to verify that an AVDTP implementation providing recovery features exposes the related capabilities.

The compliance of AVDTP implementations with the RFC2733 specification is not subjected to testing.

4.3.3.1 Recovery Service

- Test Case ID(s)
  
  **AVDTP/SRC/ACP/TRA/REC/BV-01-C**
  
  **AVDTP/SNK/ACP/TRA/REC/BV-01-C**

- Test Purpose
  
  To verify that the IUT (either SRC or SNK) exposes the following parameters together with the SEP capabilities: Recovery type (RFC2733), maximum window size of a media packet sequence and maximum number of media packets that can be used to compute a recovery packet.

- Reference
  
  [3] 6.4, 6.7, 7.4, 8.7, 13.1
  
  [5] 6.4, 6.7, 7.4, 8.7, 13.1

- Initial Condition
  
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has discovered SEIDTester.

  The AVDTP_GetCapabilities_Ind event callback function GetCapabilitiesInd_CB has been successfully registered.

  The IUT is in the ACP role.
• **Test Procedure**

![Diagram of AVDT Get Capabilities CMD and Rsp](image)

**AVDTP_GET_CAPABILITIES_CMD** parameters:
- Transaction_label = TransactionLowerTester
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
- SEID = SEIDTester

**AVDT_Get_Capabilities_Rsp** parameters:
- Transaction_label = TransactionLowerTester
- BD_ADDR = BD_ADDRLowerTester
- List_ofCapabilities = List of valid capabilities of SEIDTester

• **Test Condition**

**AVDTP_GET_CAPABILITIES_CMD** parameters:
- Transaction_label = TransactionLowerTester
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
- SEID = SEIDTester

**AVDT_Get_Capabilities_Rsp** parameters:
- Transaction_label = TransactionLowerTester
- BD_ADDR = BD_ADDRLowerTester
- List_of_Capabilities = List of valid capabilities of SEIDTester

• **Expected Outcome**

**Pass verdict**

**GetCapabilitiesInd_CB** parameters:
- Transaction_label = TransactionLowerTester
- Stream_handler = SHLowerTester
AVDTP_GET_CAPABILITIES_RSP parameters:

Transaction_label = Transaction_{LowerTester}

Message_type = 10 (response accept)

Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)

ServiceCapabilities = Valid capabilities for supported services including recovery.

The recovery capabilities:

Service_category = Recovery

LOSC = 3

Recovery Type

MRWS = Max_Recovery_Windows_Size

MNMP = Max_Nr_of_Media_Packets_in_Parity_Code

4.3.3.2 Recovery Service when using GetAllCapabilities

• Test Case ID(s)

**AVDTP/SRC/ACP/TRA/REC/BV-02-C**

**AVDTP/SNK/ACP/TRA/REC/BV-02-C**

• Test Purpose

To verify that the IUT (either SRC or SNK) exposes the following parameters together with the SEP capabilities: Recovery type (RFC2733), maximum window size of a media packet sequence and maximum number of media packets that can be used to compute a recovery packet, when using the GetAllCapabilities command.

• Reference

[3] 6.4, 6.8, 7.4, 8.8, 13.1

[5] 6.4, 6.8, 7.4, 8.8, 13.1

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has discovered SEID_{Tester}.

The AVDTP_Get_Capabilities_Ind event callback function GetCapabilitiesInd_CB has been successfully registered.

The IUT is in the ACP role.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has discovered SEID of the Upper Tester.
The AVDTP_Get_Capabilities_Ind event callback function GetCapabilitiesInd_CB has been successfully registered.

\[
\text{AVDTP\_GET\_ALL\_CAPABILITIES\_CMD} \quad \text{(Transaction\_label, Packet\_type, Reserved, Message\_type, Signal\_id, SEID)}
\]

\[
\text{GetCapabilitiesInd\_CB} \quad \text{(Transaction\_label, Stream\_handler)}
\]

\[
\text{AVDT\_Get\_Capabilities\_Rsp} \quad \text{(Transaction\_label, BD\_ADDR, List\_of\_Capabilities)}
\]

\[
\text{AVDT\_Get\_Capabilities\_Rsp} \quad \text{(RSP)}
\]

Figure 4.82: AVDTP/SRC/ACP/TRA/REC/BV-02-C, AVDTP/SNK/ACP/TRA/REC/BV-02-C

• Test Condition

AVDTP_GET_ALL_CAPABILITIES_CMD parameters:

- Transaction\_label = Transaction\_LowerTester
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- SEID = SEID\_Tester

AVDT_Get_Capabilities_Rsp parameters:

- Transaction\_label = Transaction\_LowerTester
- BD\_ADDR = BD\_ADDR\_LowerTester
- List\_of\_Capabilities = List of valid capabilities of SEID\_Tester

• Expected Outcome

Pass verdict

GetCapabilitiesInd\_CB parameters:

\[
\text{Transaction\_label} = \text{Transaction}\_\text{LowerTester}
\]

\[
\text{Stream\_handler} = \text{SH}\_\text{LowerTester}
\]
AVDTP_GET_ALL_CAPABILITIES_RSP parameters:

- **Transaction_label =** Transaction_LowerTester
- **Message_type =** 10 (response accept)
- **Signal_Id =** 0x0C (AVDTP_GET_ALL_CAPABILITIES)
- **Service_Capabilities =** Valid capabilities for supported services including recovery.

The recovery capabilities:

- **Service_category =** Recovery
- **LOSC =** 3
- **Recovery Type**
- **MRWS =** Max_Recovery_Windows_Size
- **MNMP =** Max_Nr_of_Media_Packets_in_Parity_Code

### 4.3.3.3 Set Configuration Reject Response with Bad Recovery Format

- **Test Case ID(s)**
  - AVDTP/SRC/ACP/TRA/REC/BI-01-C
  - AVDTP/SNK/ACP/TRA/REC/BI-01-C

- **Test Purpose**
  To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the recovery type is undefined or if the format of the recovery service capability is incorrect.

- **Reference**
  - [3] 6.4, 6.7, 7.4, 8.7, 13.1
  - [5] 6.4, 6.7, 7.4, 8.7, 13.1

- **Initial Condition**
  - One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  - The Lower Tester has not yet configured SEID_IUT.
• **Test Procedure**

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel for signaling is established between the IUT and the Lower Tester.
The Lower Tester has already configured correctly SEID<sub>IUT</sub>.

**AVDTP_SET_CONFIGURATION_CMD**
- Transaction_label
- Packet_type
- Message_type
- Reserved
- Signal_Id
- ACP_SEID
- INT_SEID
- Service_Capabilities

**AVDTP_SET_CONFIGURATION_REJ**
- Transaction_label
- Packet_type
- Message_type
- Reserved
- Signal_Id
- Service_Category
- Error_code

![Diagram showing the Test Procedure](image)

---

**Figure 4.83:** AVDTP/SRC/ACP/TRA/REC/BI-01-C, AVDTP/SNK/ACP/TRA/REC/BI-01-C

• **Test Condition**

Fields of two messages: AVDTP_SET_CONFIGURATION_CMD:

First:

- Transaction_label = Transaction<sub>LowerTester</sub> = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEID<sub>IUT</sub> = Any value
- INT_SEID = Any valid value
- Service_capabilities = Service capabilities including a recovery type value that is not defined in the AVDTP specification (e.g., 0xFF)
Second:

- `Transaction_label = Transaction_LowerTester` = Any value
- `Packet_type = 00` (single packet)
- `Reserved = 00`
- `Message_type = 00` (command)
- `Signal_Id = 0x03` (AVDTP_SET_CONFIGURATION)
- `ACP_SEID = SEID_IUT` = Any value.
- `INT_SEID` = Any valid value
- `Service_capabilities` = Service capabilities including an incorrect format of the recovery service capability (e.g., `LOSC = 0x01`)

• **Expected Outcome**

  **Pass verdict**

  The Lower Tester receives the AVDTP signaling message with the fields:

  First:

  - `Transaction_label = Transaction_LowerTester`
  
  - `Message_type = 11` (response reject)
  
  - `Signal_Id = 0x03` (AVDTP_SET_CONFIGURATION)
  
  - `Error_code = 0x22` (BAD_RECOVERY_TYPE)

  Second:

  - `Transaction_label = Transaction_LowerTester`
  
  - `Message_type = 11` (response reject)
  
  - `Signal_Id = 0x03` (AVDTP_SET_CONFIGURATION)
  
  - `Error_code = 0x25` (BAD_RECOVERY_FORMAT)
4.3.4 Multiplexing Service

Objectives:

To verify that the multiplexing service is implemented according to its specification in AVDTP.

AVDTP/SRC/INT/TRA/MUX/BV-01-C [Multiplexing Service]

- Test Purpose
  To verify that the IUT (SRC) is able to multiplex several transport sessions on a transport channel. The management of the application layer header is also checked.

- Reference
  [3] 7.5, 8.19.8
  [5] 7.5, 8.21.8

- Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  The SEID$_{\text{LowerTester}}$1, and SEID$_{\text{LowerTester}}$2 stream end points have been discovered.
  The capabilities have been queried and both SEP’s are configured for basic transport capabilities and MUX service (with no Adaptation Layer Fragmentation) over one transport channel common to both transport sessions (one for each SEP).
  Both SEP’s are in STREAMING state.
  The IUT is in the INT role
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel exists between the IUT and the Lower Tester.
The IUT has discovered 2 SEIDs. The service capabilities of each SEID has been queried and configured. The stream connections have been established to SEIDs. Two streams have been opened and started. Both SEP's are in STREAMING state.

Figure 4.84: AVDTP/SRC/INT/TRA/MUX/BV-01-C

• Test Condition

AVDT_Write_Req invoked three times consecutively with the following parameters:

1st call:
- Stream_Handler = SH1
- Length = LengthOutBuffer1
- OutBuffer = ADDROutBuffer1
- Time_Info = Time_StampTester1

2nd call:
- Stream_Handler = SH2
- Length = LengthOutBuffer2
- OutBuffer = ADDROutBuffer2
- Time_Info = Time_StampTester2
3rd call:
- Stream_Handler = SH1
- Length = LengthOutBuffer3
- OutBuffer = ADDROutBuffer3
- Time_Info = Time_StampTester3

• Expected Outcome
  Pass verdict

AVDT_Write_Req output parameters:
  RSP = 0 (data frame accepted)

Adaptation Layer PDU packet:
AL header 1
TSID = TSID1
F = 0 (unfragmented media packet)
LCODE = 01, 10 or 11 (length field)
Length1 = length of mediapacket1
AL header 2
TSID = TSID2
F = 0 (unfragmented media packet)
LCODE = 01, 10 or 11 (length field)
Length2 = length of mediapacket2
Media packet = complete mediapacket2
AL header 3
TSID = TSID1
F = 0 (unfragmented media packet)
LCODE = 00, 01, 10 or 11 (length field optional)
Length3 = length of mediapacket3 (if LCODE not 00)
Media packet = complete mediapacket3
• Notes
Mediapacket1, Mediapacket2 and Mediapacket3 can be in any order, but Mediapacket1 shall be before Mediapacket3.

AVDTP/SNK/ACP/TRA/MUX/BV-02-C [SNK is able to Demultiplex Transport Sessions]

• Test Purpose
To verify that the IUT (SNK) is able to demultiplex several transport sessions from a transport channel. The management of the application layer header is also checked.

• Reference
[3] 7.5, 8.19.8
[5] 7.5, 8.21.8

• Initial Condition
One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has discovered SEIDTester1 and SEIDTester2 stream end points.

The capabilities have been queried and both SEP’s are configured for basic transport capabilities and MUX service (with no Adaptation Layer Fragmentation) over one transport channel common to both transport sessions (one for each SEP).

Both SEP’s are in STREAMING state.

The IUT is in the ACP role.
• **Test Procedure**

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel exists between the IUT and the Lower Tester.
The Lower Tester has discovered 2 SEPs. The service capabilities of both SEPs have been queried and configured. The stream connection has been established to both SEIDs. Two streams have been opened and started. Both stream connections are in STREAMING state.

*Figure 4.85: AVDTP/SNK/ACP/TRA/MUX/BV-02-C*

• **Test Condition**

Adaptation Layer PDU packet:

AL header 1

TSID = TSID1

F = 0 (unfragmented media packet)

LCODE = 01, 10 or 11 (length field)

Length1 = length of mediapacket1

Media packet1 = complete mediapacket

AL header 2

TSID = TSID2

F = 0 (unfragmented media packet)
LCODE = 01, 10 or 11 (length field)

Length2 = length of mediapacket2

Media packet2 = complete mediapacket

AL header 3

TSID = TSID1

F = 0 (unfragmented media packet)

LCODE = 00 (no length field)

Media packet3 = complete mediapacket

AVDT_ReadStreamData parameters:

- Stream_handler = twice stream handler of SEID1 and once stream handler of SEID2

• Expected Outcome

Pass verdict

The 3 consecutive AVDT_ReadStreamData output parameters return consecutively Media_Packet1, Media_Packet2, Media_Packet3.

AVDTP/SRC/INT/TRA/MUX/BV-03-C [SRC Fragments a Transport Packet]

• Test Purpose

To verify that the IUT (SRC) is able to fragment a transport packet into several L2CAP packets. The management of the application layer header is also checked.

• Reference

[3] 7.5, 8.19.8

[5] 7.5, 8.21.8

• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The SEID_{LowerTester} stream end point has been discovered by the IUT.

The capabilities have been queried and the SEP is configured for basic transport capabilities and MUX service (with Adaptation Layer Fragmentation) over one transport channel.

The SEP is in OPEN state.

The AVDT_Start_Cfm event callback function StartCfm_CB has been successfully registered for SEID_{LowerTester}.

The IUT is in the INT role.
• Test Procedure

One ACL link exists between the IUT and the Lower Tester.
One L2CAP channel exists between the IUT and the Lower Tester.
The IUT has discovered SEID. The service capabilities of SEID has been queried and configured. The stream connection has been established to SEID. One stream has been opened.
The stream connection is in OPEN state.
The AVDT_Start_Cfm event callback function StartCfm_CB has been successfully registered.

AVDTP_START_CMD
(Transaction_label, Packet_type, Message_Type, 
Signal_Id, NSEP, SEID)

AVDTP_START_RSP
(Transaction_label, Packet_type, Message_Type, 
Signal_Id)

AL_PDU
(TSID, F, LCODE, Length, Media_packet, TSID, F, 
LCODE, [Length], Media_packet)

AVDT_Write_Req
(Stream_handler, Length, OutBuffer, Time_info, 
Marker)

AVDT_Write_Req
(RSP)

AVDT_Start_Req
(Stream_handler)

AVDT_Start_Req
(Transaction_label, RSP)

StartCfm_CB
(Transaction_label, stream_handler)

AVDT_Write_Req
(Stream_handler, Length, OutBuffer, Time_info, 
Marker)

AVDT_Write_Req
(RSP)

3x

Figure 4.86: AVDTP/SRC/INT/TRA/MUX/BV-03-C

• Test Condition

AVDT_Start_Req parameters:
- Stream_handler = SH_LowerTester

AVDTP_START_RSP parameters:
- Transaction_label = Transaction_LowerTester
- Packet_type = 00 (single packet)
- Message_type = 2 (response accepted)
- Signal_Id = 0x07 (AVDTP_START)
- NSEP = 1
- SEID = SEID_Tester
AVDT_Write_Req invoked three times consecutively with the following parameters:

1st call:
- Stream_Handler = SH
- Length = Length
- OutBuffer = ADDR
- Time_Info = Time_Info

2nd call:
- Stream_Handler = SH
- Length = Length
- OutBuffer = ADDR
- Time_Info = Time_Info

3rd call:
- Stream_Handler = SH
- Length = Length
- OutBuffer = ADDR
- Time_Info = Time_Info

With Out_Buffer1, Out_Buffer2, Out_Buffer3 such that:
- Out_Buffer1 fits into 1 AL_PDU
- Out_Buffer1 + Out_Buffer2 do not fit into 1 AL_PDU, but fit into 2 AL_PDU's
- Out_Buffer1 + Out_Buffer2 + Out_Buffer3 fit exactly into 2 AL_PDU's (in order to flush the second AL_PDU).

Expected Outcome
Pass verdict

AVDT_Start_Req output parameters:

Transaction_label = Transaction
RSN = 0

AVDTP_START_CMD parameters:

Transaction_label = Transaction
Message_type = 0 (command)
Signal_Id = (AVDTP_START)

NSEP = 1

SEID = SEID_{Tester}

StartCfm_CB parameters

Transaction_label = Transaction_{LowerTester}

Stream_handler = SH_{IUT}

AVDT_Write_Req output parameters:

Result = 0 (data frame accepted)

Adaptation Layer PDU packet 1:

AL header 1

TSID = TSID_{Media}

F = 0 (unfragmented media packet)

LCODE = 01, 10 or 11 (length field)

Length1 = length of mediapacket1

Media packet = complete media packet

AL header 2

TSID = TSID_{Recover}

F = 0 (fragmented media packet)

LCODE = 01 (16 bit length field)

Length = Length_{MediaPacket} (complete media packet length)

Media packet = fragmented media packet (first part)

Adaptation Layer PDU packet 2:

AL header 1

TSID = TSID_{Recover}

F = 1 (fragmented media packet)

LCODE = 01 (16 bit length field)
Length = SegmentLength (media packet segment length)

Media packet = fragmented media packet (second part)

AL header 2

TSID = TSID\textsubscript{Media}

F = 0 (unfragmented media packet)

LCODE = 00, 01, 10 or 11 (length field optional)

Length3 = length of mediapacket3 (if LCODE not 00)

Media packet = complete media packet

AVDTP/SNK/ACP/TRA/MUX/BV-04-C [SNK Reconstructs a Transport Packet]

• Test Purpose
  To verify that the IUT (SNK) is able to reconstruct a transport packet fragmented into several L2CAP payloads. The management of the application layer header is also checked.

• Reference
  [3] 7.5, 8.19.8
  [5] 7.5, 8.21.8

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has discovered the SEP identified by SEID\textsubscript{Tester}.

  The capabilities have been queried and the SEP is configured for basic transport capabilities and MUX service (with Adaptation Layer Fragmentation) over one transport channel.

  The SEP is in OPEN state.

  The AVDT\textsubscript{Start_Ind} event callback function StartInd\_CB has been successfully registered for SEID\textsubscript{Tester}.

  The IUT is in the ACP role.
• Test Procedure

Fig. 4.87: AVDTP/SNK/ACP/TRA/MUX/BV-04-C

• Test Condition

**AVDTP_START_CMD parameters:**

- Transaction_label = TransactionTest System
- Packet_type = 0 (single packet)
- Message_type = 0 (command)
- Signal_Id = 0x07 (AVDTP_START)
- NSEP = 1
- SEID = SEID Tester

**AVDT_Start_Rsp parameters:**

- Stream_handler = SHLowerTester
Adaptation Layer PDU packet 1:
- AL header 1
- TSID = TSIDMedia
- F = 0 (unfragmented media packet)
- 01, 10 or 11 (length field)
- Length1 = length of mediapacket1
- Media packet = complete media packet
- AL header 2
- TSID = TSIDRecover
- F = 0 (fragmented media packet)
- LCODE = 01 (length field coding)
- Length = LengthMediaPacket (complete media packet length)
- Media packet = fragmented media packet (first part)

Adaptation Layer PDU packet 2:
- AL header 1
- TSID = TSIDRecover
- F = 1 (fragmented media packet)
- LCODE = 01 (length field coding)
- Length = SegmentLength (media packet segment length)
- Media packet = fragmented media packet (second part)
- AL header 2
- TSID = TSIDMedia
- F = 0 (unfragmented media packet)
- LCODE = 0 (no length field)
- Media packet = complete media packet

AVDT_ReadStreamData parameters:
- Stream_handler = SHLowerTester
• Expected Outcome
  Pass verdict

StartInd_CB parameters:
  \[
  \text{Transaction\_label} = \text{Transaction\_Lower\_Tester}
  \]
  \[
  \text{Stream\_handler} = \text{SH\_IUT}
  \]

AVDTP\_START\_RSP parameters:
  \[
  \text{Transaction\_label} = \text{Transaction\_Lower\_Tester}
  \]
  \[
  \text{Message\_type} = 2 \text{ (response accepted)}
  \]
  \[
  \text{Signal\_Id} = 0x07 \text{ (AVDTP\_START)}
  \]
  \[
  \text{NSEP} = 1
  \]
  \[
  \text{SEID} = \text{SEID\_Tester}
  \]

AVDT\_Read\_Req output parameters:
  \[
  \text{Transaction\_label} = \text{Transaction\_Test\_System}
  \]
  \[
  \text{RSP} = 0
  \]

4.3.4.1 GetCapabilities including Multiplexing Service Capabilities

• Test Case ID(s)
  AVDTP/SRC/ACP/TRA/MUX/BV-05-C
  AVDTP/SNK/ACP/TRA/MUX/BV-05-C

• Test Purpose
  To verify that the IUT (either SRC or SNK) exposes the following parameters together with the SEP capabilities: FRAG, Signal Header, TSID, TCID set according to the support claimed by the IUT.

• Reference
  [3] 6.4, 6.7, 7.5, 8.7, 8.21.8, 13.1
  [5] 6.4, 6.7, 7.5, 8.7, 8.21.8, 13.1

• Initial Condition
  One L2CAP channel for signaling is established between the IUT and the Lower Tester.
  The Lower Tester has discovered SEID\_Tester stream end point.
  The AVDT\_Get\_Capabilities\_Ind event callback function GetCapabilities\_Ind\_CB has been successfully registered.
• **Test Procedure**

![Diagram of test procedure](image)

One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has discovered SEID of the Upper Tester. The AVDTP_Get_Capabilities_Cmd event callback function GetCapabilitiesInd_CB has been successfully registered.

**AVDTP_GET_CAPABILITIES_CMD**

- Transaction_label = TransactionTest_System
- Packet_type = 00 (single packet)
- Message_type = 00 (command)
- Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
- SEID = SEITester

**AVDT_GetCapabilities_Rsp**

- Transaction_label = Transaction_LowerTester
- BD_ADDR = BD_ADDR_LowerTester
- List_of_Capabilities = List of valid capabilities of SEITester

**Expected Outcome**

**Pass verdict**

**GetCapabilitiesInd_CB**

- Stream_handler = SH_LowerTester

**AVDTP_GET_CAPABILITIES_RSP**

- Transaction_label = Transaction_LowerTester

---

**Figure 4.88: AVDTP/SNK/ACP/TRA/MUX/BV-05-C, AVDTP/SRC/ACP/TRA/MUX/BV-05-C**
Message_type = 10 (response accept)

Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)

Service_Capabilities = Valid capabilities for supported services including multiplexing service capabilities.

Multiplexing capabilities:

Service_category = Multiplexing Mode

LOSC = LOSCExposedTransports (e.g., if only the Media codec is exposed or configured then LOSC = 3, if both Media and Reporting or both Media and Recovery are exposed or configured then LOSC = 5, and if Media, Reporting, and Recovery are exposed or configured then LOSC = 7.)

FRAG = 1 (if fragmentation allowed, otherwise 0)

TSID = TSIDMedia

TCID = TCIDMedia

TSID = TSIDReporting (if Reporting is exposed or configured, otherwise not present)

TCID = TCIDReporting (if Reporting is exposed or configured, otherwise not present)

TSID = TSIDRecovery (if Recovery is exposed or configured, otherwise not present)

TCID = TCIDRecovery (if Recovery is exposed or configured, otherwise not present)

4.3.4.2 Get All Capabilities including Multiplexing Service Capabilities

- Test Case ID(s)

**AVDTP/SRC/ACP/TRA/MUX/BV-06-C**

**AVDTP/SNK/ACP/TRA/MUX/BV-06-C**

- Test Purpose

To verify that the IUT (either SRC or SNK) exposes the following parameters together with the SEP capabilities: FRAG, Signal Header, TSID, TCID set according to the support claimed by the IUT when using the Get All Capabilities command.

- Reference

[3] 6.4, 6.7, 7.5, 8.7, 8.21.8, 13.1

[5] 6.4, 6.7, 7.5, 8.7, 8.21.8, 13.1

- Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has discovered SEIDTester.
The AVDT_Get_All_Capabilities_Ind event callback function GetAllCapabilitiesInd_CB has been successfully registered.

- **Test Procedure**

  ![Diagram of AVDTP Get All Capabilities](image)

  **One ACL link exists between the IUT and the Lower Tester.**
  **One L2CAP channel for signaling is established between the IUT and the Lower Tester.**
  **The Lower Tester has discovered SEID of the Upper Tester.**

  The AVDT_Get_All_Capabilities_Ind event callback function GetAllCapabilitiesInd_CB has been successfully registered.

  **AVDTP_GET_ALL_CAPABILITIES_CMD**
  
  (Transaction_label, Packet_type, Reserved, Message_type, Signal_Id, SEID)

  **AVDTP_GET_ALL_CAPABILITIES_RSP**
  
  (Transaction_label, Packet_type, Reserved, Message_type, Signal_Id, Service_Capabilities)

  **GetAllCapabilitiesInd_CB**
  
  (Transaction_label, Stream_handler)

  **AVD_Get_All_Capabilities_Rsp**
  
  (Transaction_label, BD_ADDR, List_of_Capabilities)

  **AVD_Get_All_Capabilities_Rsp**
  
  (RSP)

  ![Figure 4.89: AVDTP/SRC/ACP/TRA/MUX/BV-06-C, AVDTP/SNK/ACP/TRA/MUX/BV-06-C](image)

  - **Test Condition**

  AVDT_GET_ALL_CAPABILITIES_CMD parameters:
  
  - Transaction_label = TransactionTest_System
  - Packet_type = 00 (single packet)
  - Message_type = 00 (command)
  - Signal_Id = 0x0C (AVDTP_GET_ALL_CAPABILITIES)
  - SEID = SEIDTester

  AVD_Get_All_Capabilities_Rsp parameters:
  
  - Transaction_label = TransactionLowerTester
  - BD_ADDR = BD_ADDRLowerTester
  - List_of_Capabilities = List of valid capabilities of SEIDTester

  - **Expected Outcome**

  Pass verdict

  GetCapabilitiesInd_CB parameters:

  Stream_handler = SHLowerTester

  AVDTP_GET_ALL_CAPABILITIES_RSP parameters
Transaction_label = Transaction\textsubscript{LowerTester}

Message_type = 10 (response accept)

Signal_Id = 0x0C (AVDTP\_GET\_ALL\_CAPABILITIES)

ServiceCapabilities = Valid capabilities for supported services including multiplexing service capabilities.

Multiplexing capabilities:

Service\_category = Multiplexing Mode

LOSC = LOSE\textsubscript{ExposedTransports} (e.g., if only the Media codec is exposed or configured then LOSC = 3, if both Media and Reporting or both Media and Recovery are exposed or configured then LOSC = 5, and if Media, Reporting, and Recovery are exposed or configured then LOSC = 7.)

FRAG = 1 (if fragmentation allowed, otherwise 0)

TSID = TSID\textsubscript{Media}

TCID = TCID\textsubscript{Media}

TSID = TSID\textsubscript{Reporting} (if Reporting is exposed or configured, otherwise not present)

TCID = TCID\textsubscript{Reporting} (if Reporting is exposed or configured, otherwise not present)

TSID = TSID\textsubscript{Recovery} (if Recovery is exposed or configured, otherwise not present)

TCID = TCID\textsubscript{Recovery} (if Recovery is exposed or configured, otherwise not present)

4.3.4.3 Set Configuration Reject Response for Incorrect Format of Multiplexing Service Capability

- Test Case ID(s)

\textbf{AVDTP/SRC/ACP/TRA/MUX/BI-01-C}

\textbf{AVDTP/SNK/ACP/TRA/MUX/BI-01-C}

- Test Purpose

To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the format of the multiplexing service capability is incorrect.

- Reference

[3] 6.4, 6.8, 7.5, 8.8, 13.1

[5] 6.4, 6.9, 7.5, 8.9, 13.1
• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has not yet configured SEID_{IUT}.

• Test Procedure

![Diagram of test procedure]

AVDTP_SET_CONFIGURATION_CMD
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, ACP_SEID, INT_SEID, Service_Capabilities)

AVDTP_SET_CONFIGURATION_REJ
(Transaction_label, Packet_type, Message_type, Reserved, Signal_Id, Service_Category, Error_code)

Figure 4.90: AVDTP/SRC/ACP/TRA/MUX/BI-01-C, AVDTP/SNK/ACP/TRA/MUX/BI-01-C

• Test Condition

Fields of AVDTP_SET_CONFIGURATION_CMD:

- Transaction_label = Transaction_{LowerTester} = Any value
- Packet_type = 00 (single packet)
- Reserved = 00
- Message_type = 00 (command)
- Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
- ACP_SEID = SEID_{IUT} = Any value
- INT_SEID = Any valid value
- Service_capabilities = Service capabilities including an invalid format of the multiplexing service capability (LOSC equal to 0x00)

• Expected Outcome
  Pass verdict

The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = TransactionLowerTester
  Message_type = 11 (response reject)
  Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)
  Error_code = 0x28 (BAD_MULTIPLEXING_FORMAT)

4.3.5 Robust Header Compression Service

Objectives:

This test group verifies that an AVDTP implementation providing the ROHC features exposes the related capabilities.

According to Section 3.4 of [3] and [5], the compliance of AVDTP implementations with the ROHC specification is not subjected to testing.

4.3.5.1 Robust Header Compression Service

• Test Case ID(s)

  AVDTP/SRC/ACP/TRA/RHC/BV-01-C
  AVDTP/SNK/ACP/TRA/RHC/BV-01-C

• Test Purpose

  To verify that the IUT (either SRC or SNK) exposes, together with the SEP capabilities, the following flags set according to the support claimed by the IUT: Basic, Recovery, BackCh.

• Reference

  [3] 6.4, 6.7, 7.6, 8.7, 13.1
  [5] 6.4, 6.7, 7.6, 8.7, 13.1

• Initial Condition

  One L2CAP channel for signaling is established between the IUT and the Lower Tester.

  The Lower Tester has discovered SEID_{Tester}. 
The AVDTP_Get_Capabilities_IND event callback function GetCapabilitiesInd_CB has been successfully registered.

The IUT is in the ACP role.

- **Test Procedure**

  ![Diagram](image)

  One ACL link exists between the IUT and the Lower Tester. One L2CAP channel for signaling is established between the IUT and the Lower Tester. The Lower Tester has discovered SEID of the Upper Tester.

  The AVDTP_Get_Capabilities_IND event callback function GetCapabilitiesInd_CB has been successfully registered.

  ![Figure 4.91: AVDTP/SRC/ACP/TRA/RHC/BV-01-C, AVDTP/SNK/ACP/TRA/RHC/BV-01-C](image)

- **Test Condition**

  **Fields of AVDTP_GET_CAPABILITIES_CMD:**
  - Transaction_label = Transaction\_LowerTester
  - Packet_type = 00 (single packet)
  - Reserved = 0
  - Message_type = 00 (command)
  - Signal_Id = 0x02 (AVDTP_GET_CAPABILITIES)
  - SEID = SEID\_Tester

  **Parameters for the AVDT_Get_Capabilities_Rsp service primitive:**
  - Transaction_label = Transaction\_LowerTester
  - BD_ADDR = BD_ADDR\_LowerTester
  - List_ofCapabilities = List of all capabilities supported by the SEP
• Expected Outcome

Pass verdict

Parameters for the GetCapabilitiesInd_CB callback function:

- Transaction_label = Transaction\textsubscript{LowerTester}
- Stream_handler = SH\textsubscript{LowerTester}

Fields of AVDTP\_GET\_CAPABILITIES\_RSP:

- Transaction_label = Transaction\textsubscript{LowerTester}
- Message_type = 10 (response accept)
- Signal_Id = 0x02 (AVDTP\_GET\_CAPABILITIES)
- Service\_Capabilities = 2 valid capabilities including header compression.

The header compression capabilities:

- Service\_category = Header\_Compression
- LOSC = 1
- BachCh = 1 (if back channel should be used)
- Basic = 1 (if service available for basic service)
- Recovery = 1 (if service available for recovery service)

4.3.5.2 GetAllCapabilities with Robust Header Compression Service

• Test Case ID(s)

AVDTP/SRC/ACP/TRA/RHC/BV-02-C

AVDTP/SNK/ACP/TRA/RHC/BV-02-C

• Test Purpose

To verify that the IUT (either SRC or SNK) exposes, together with the SEP capabilities, the following flags set according to the support claimed by the IUT: Basic, Recovery, BackCh, when using the GetAllCapabilities command.

• Reference

[3] 6.4, 6.8, 7.6, 8.8, 13.1

[5] 6.4, 6.8, 7.6, 8.8, 13.1
• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has discovered SEID\textsubscript{Tester}.

The AVDTP\_Get\_All\_Capabilities\_Ind event callback function GetAllCapabilitiesInd\_CB has been successfully registered.

- The IUT is in the ACP role.

• Test Procedure

\begin{figure}
\centering
\includegraphics[width=\textwidth]{diagram.png}
\caption{AVDTP/SRC/ACP/TRA/RHC/BV-02-C, AVDTP/SNK/ACP/TRA/RHC/BV-02-C}
\end{figure}

- Test Condition

Fields of AVDTP\_GET\_ALL\_CAPABILITIES\_CMD:

- Transaction\_label = Transaction\_LowerTester
- Packet\_type = 00 (single packet)
- Reserved = 00
- Message\_type = 00 (command)
- Signal\_Id = 0x0C (AVDTP\_GET\_ALL\_CAPABILITIES)
- SEID = SEID\textsubscript{Tester}

Parameters for the AVDT\_Get\_All\_Capabilities\_Rsp service primitive:

- Transaction\_label = Transaction\_LowerTester
- BD\_ADDR = BD\_ADDR\textsubscript{LowerTester}
- List\_of\_Capabilities = List of all capabilities supported by the SEP
• Expected Outcome
  
  Pass verdict

Parameters for the GetAllCapabilitiesInd_CB callback function:

  Transaction_label = Transaction\_LowerTester

  Stream_handler = SH\_LowerTester

Fields of AVDTP\_GET\_ALL\_CAPABILITIES\_RSP:

  Transaction_label = Transaction\_LowerTester

  Message_type = 10 (response accept)

  Signal_Id = 0x0C (AVDTP\_GET\_ALL\_CAPABILITIES)

  Service\_Capabilities = 2 valid capabilities including header compression.

  The header compression capabilities:

    Service\_category = Header\_Compression

    LOSC = 1

    BackCh = 1 (if back channel should be used)

    Basic = 1 (if service available for basic service)

    Recovery = 1 (if service available for recovery service)

4.3.5.3  Set Configuration Reject Response for Incorrect Format of the ROHC Service Capability

• Test Case ID(s)

  AVDTP/SRC/ACP/TRA/RHC/BI-01-C

  AVDTP/SNK/ACP/TRA/RHC/BI-01-C

• Test Purpose

  To verify that the IUT (ACP) is able to issue a set configuration reject response to the INT if the format of the ROHC service capability is incorrect.

• Reference

  [3] 6.4, 6.8, 7.6, 8.8, 13.1

  [5] 6.4, 6.9, 7.6, 8.9, 13.1
• Initial Condition

One L2CAP channel for signaling is established between the IUT and the Lower Tester.

The Lower Tester has not yet configured SEID_{IUT}.

• Test Procedure

![Diagram showing test procedure]

**Figure 4.93: AVDTP/SRC/ACP/TRA/RHC/BI-01-C, AVDTP/SNK/ACP/TRA/RHC/BI-01-C**

• Test Condition

Fields of AVDTP_SET_CONFIGURATION_CMD:

- **Transaction_label** = Transaction_{LowerTester} = Any value
- **Packet_type** = 00 (single packet)
- **Reserved** = 00
- **Message_type** = 00 (command)
- **Signal_Id** = 0x03 (AVDTP_SET_CONFIGURATION)
- **ACP_SEID** = SEID_{IUT} = Any value
- INT_SEID = Any valid value
- Service_capabilities = Service capabilities including an invalid format of the robust header compression service capability (LOSC equal to 0x00)

• Expected Outcome
  
  Pass verdict

  The Lower Tester receives the AVDTP signaling message with the fields:

  Transaction_label = Transaction_LowerTester

  Message_type = 11 (response reject)

  Signal_Id = 0x03 (AVDTP_SET_CONFIGURATION)

  Error_code = 0x26 (BAD_ROHC_FORMAT)

### 4.4 L2CAP Configuration

Objectives:

To verify correct implementation of enhanced L2CAP channel modes for the signaling and Media Transport channels.

#### 4.4.1 Backward compatibility with L2CAP Basic Mode

Objectives:

Verify that AVDTP implementations remain backward compatible with earlier (legacy) devices.

While L2CAP Enhanced Retransmission and Streaming modes may be used to provide reliable Signaling and unreliable Media channels over unreliable connections, IUT must still be able to successfully connect to devices that support only L2CAP Basic mode connections for AVDTP.

#### 4.4.1.1 Remote Device only supports L2CAP Basic Mode - ACP

• Test Case ID(s)

  **AVDTP/SRC/ACP/L2C/BM/BV-01-C**

  **AVDTP/SNK/ACP/L2C/BM/BV-01-C**

• Test Purpose

  Verify that the IUT (either SRC or SNK) as ACP will establish a signaling connection to a remote device that only supports L2CAP Basic Mode.

• Reference


• Initial Condition

  Lower Tester is Remote Device.
IUT is Idle with no L2CAP connections to Remote device.

Remote device is a device with L2CAP Basic mode support only.

• Test Procedure
  Remote device initiates L2CAP (PSM=AVDTP) connection to IUT.

  Remote Device configures L2CAP channel for Basic Mode operation.

• Expected Outcome
  Pass verdict

  AVDTP Signaling channel is successfully established.

4.4.1.2 Remote Device only supports L2CAP Basic Mode – INT

• Test Case ID(s)
  AVDTP/SRC/INT/L2C/BM/BV-02-C

  AVDTP/SNK/INT/L2C/BM/BV-02-C

• Test Purpose
  Verify that the IUT (either SRC or SNK), as INT will establish a signaling connection to a remote device that only supports L2CAP Basic Mode.

• Reference

• Initial Condition
  Lower Tester is Remote Device.

  IUT is Idle with no L2CAP connections to Remote Device.

  Remote Device is a device with L2CAP Basic mode support only.

• Test Procedure
  IUT initiates L2CAP (PSM=AVDTP) connection to Remote Device.

  Remote Device configures L2CAP channel for Basic Mode operation.

• Expected Outcome
  Pass verdict

  AVDTP Signaling channel is successfully established.
4.4.1.3 Remote Device Supports Retransmission Mode but Requires Basic Mode L2CAP – INT

- Test Case ID(s)
  
  AVDTP/SRC/INT/L2C/BM/BV-03-C
  AVDTP/SNK/INT/L2C/BM/BV-03-C

- Test Purpose
  Verify that the IUT (either SRC or SNK) as INT will establish a signaling connection to a remote device that supports Retransmission mode, but requires a Basic Mode L2CAP channel for AVDTP Signaling.

- Reference

- Initial Condition
  Lower Tester is Remote Device.
  IUT is Idle with no L2CAP connections to Remote device.
  Remote Device supports L2CAP Enhanced Retransmission mode.

- Test Procedure
  IUT initiates L2CAP (PSM=AVDTP) connection to Remote Device.
  Remote Device configures L2CAP channel for Basic Mode operation.

- Expected Outcome
  Pass verdict
  AVDTP Signaling channel is successfully established.

4.4.1.4 Media Transport Channel when the Remote Device only supports Basic Mode L2CAP - ACP

- Test Case ID(s)
  
  AVDTP/SRC/ACP/L2C/BM/BV-04-C
  AVDTP/SNK/ACP/L2C/BM/BV-04-C

- Test Purpose
  Verify that the IUT (either SRC or SNK) as ACP is able to accept a Media Transport Channel from a remote device that supports only a Basic Mode L2CAP channel.

- Reference
• Initial Condition
Lower Tester is Remote Device.

IUT is connected to Remote Device with an AVDTP Signaling L2CAP channel.

The SEP has been configured such as multiplexing is not selected, reporting is not selected and recovery is not selected, see Section 4.2.1.5 - Set Configuration Command – INT.

Remote device supports only L2CAP Basic mode.

• Test Procedure
Lower Tester is Remote Device.

The remote device initiates the AVDTP_OPEN_CMD on the signaling channel to Remote Device.

IUT Responds with AVDTP_OPEN_RSP on signaling channel.

The Remote Device initiates L2CAP Channel Creation (PSM=AVDTP).

The Remote Device configures L2CAP channel for Basic Mode operation.

• Expected Outcome
Pass verdict

AVDTP Media Transport channel is successfully established.

4.4.1.5 Media Transport when Remote Device only supports Basic Mode L2CAP – INT

• Test Case ID(s)
   AVDTP/SRC/INT/L2C/BM/BV-05-C
   AVDTP/SNK/INT/L2C/BM/BV-05-C

• Test Purpose
Verify that the IUT (SRC or SNK) as INT is able to establish a Media Transport connection to a remote device that supports only a Basic Mode L2CAP channel.

• Reference

• Initial Condition
Lower Tester is Remote Device.

IUT is connected to Remote Device with an AVDTP Signaling L2CAP channel.
The SEP has been configured such as multiplexing is not selected, reporting is not selected and recovery is not selected, see Section 4.2.1.5 - Set Configuration Command – INT.

Remote device supports only L2CAP Basic mode.

- **Test Procedure**
  - The IUT initiates the AVDTP_OPEN_CMD on the signaling channel to Remote Device.
  - The Remote Device responds with AVDTP_OPEN_RSP on signaling channel.
  - The IUT initiates L2CAP Channel Creation (PSM=AVDTP).
  - The IUT Configures L2CAP channel for Basic Mode operation.

- **Expected Outcome**
  - **Pass verdict**
  - AVDTP streaming channel is successfully established.

### 4.4.1.6 Media Transport when Remote Device supports Streaming but Requires Basic Mode L2CAP – INT

- **Test Case ID(s)**
  - **AVDTP/SRC/INT/L2C/BM/BV-06-C**
  - **AVDTP/SNK/INT/L2C/BM/BV-06-C**

- **Test Purpose**
  - Verify that the IUT (SRC or SNK) as INT is able to establish a Media Transport Channel to a remote device that supports L2CAP Streaming mode, but requires a Basic Mode L2CAP channel.

- **Reference**
  - [5] 9.11

- **Initial Condition**
  - Lower Tester is Remote Device.

  IUT is connected to Remote Device with an AVDTP Signaling L2CAP channel.

  The SEP has been configured such as multiplexing is not selected, reporting is not selected and recovery is not selected (see Section 4.2.1.5 - Set Configuration Command – INT).

  The Remote Device supports L2CAP Streaming mode.

- **Test Procedure**
  - The IUT initiates the AVDTP_OPEN_CMD on the signaling channel to Remote Device.
  - The Remote Device responds with AVDTP_OPEN_RSP on signaling channel.
The IUT initiates L2CAP Channel Creation (PSM=AVDTP).

The Remote Device configures L2CAP channel for Basic Mode operation.

- Expected Outcome
  Pass verdict

  AVDTP Media Transport channel is successfully established.

4.4.2 L2CAP Enhanced Modes

Objectives:

This test group is to verify that an AVDTP implementation is able to successfully use L2CAP Enhanced Retransmission and Streaming mode channels.

The tests in this section shall only apply to IUT’s that support and prefer the L2CAP Enhanced Retransmission mode for the signaling channel and L2CAP Streaming mode for the Media Transport channel.

4.4.2.1 Enhanced Retransmission Mode for Signaling Connection - INT

- Test Case ID(s)
  AVDTP/SRC/INT/L2C/EM/BV-01-C
  AVDTP/SNK/INT/L2C/EM/BV-01-C

- Test Purpose
  Verify that when both the IUT (as INT) and the remote device support Enhanced Retransmission mode for the Signaling connection, the IUT (SRC or SNK) will establish a signaling connection to a remote device that requires the use of FCS to ensure channel reliability.

- Reference

- Initial Condition
  Lower Tester is Remote Device.
  IUT is Idle with no L2CAP connections to Remote Device.
  The Remote Device supports L2CAP Enhanced Retransmission mode.

- Test Procedure
  The IUT initiates L2CAP (PSM=AVDTP) connection to Remote Device.
  The Remote Device configures L2CAP channel for Enhanced Retransmission Mode operation.
• Expected Outcome
  Pass verdict

  AVDTP Signaling channel is successfully established.

  AVDTP Signaling channel mode is Enhanced Retransmission mode with FCS enabled.

4.4.2.2 Enhanced Retransmission Mode for Signaling Connection – ACP
• Test Case ID(s)

  AVDTP/SRC/ACP/L2C/EM/BV-02-C

  AVDTP/SNK/ACP/L2C/EM/BV-02-C

• Test Purpose
  Verify that when both the IUT (as ACP) and remote device prefer Enhanced Retransmission mode for
  Signaling connection, the IUT (SRC or SNK) will establish a signaling connection to a remote device
  set to L2CAP Enhanced Retransmission Mode with FCS.

• Reference

• Initial Condition
  Lower Tester is Remote Device.

  IUT is Idle with no L2CAP connections to Remote device.

  The Remote Device is a device with L2CAP Enhanced Retransmission mode preferred.

• Test Procedure
  The Remote Device initiates L2CAP (PSM=AVDTP) connection to IUT.

  The Remote Device configures L2CAP channel for Enhanced Retransmission Mode operation.

• Expected Outcome
  Pass verdict

  AVDTP Signaling channel is successfully established in Enhanced Retransmission with FCS mode.
4.4.2.3 Media Transport Channel with Streaming Mode - INT

- Test Case ID(s)
  - AVDTP/SRC/INT/L2C/EM/BV-03-C
  - AVDTP/SNK/INT/L2C/EM/BV-03-C

- Test Purpose
  - Verify that when both IUT (as INT) and the remote device prefer L2CAP Streaming mode for Media Transport Channel, the IUT (SRC or SNK) is able to establish a Media Transport Channel set to L2CAP Streaming mode operation.

- Reference
  - [5] 9.11

- Initial Condition
  - Lower Tester is Remote Device.
  - IUT is connected to remote device with an AVDTP Signaling L2CAP channel.
  - The SEP has been configured such as multiplexing is not selected, reporting is not selected and recovery is not selected, see Section 4.2.1.5 - Set Configuration Command – INT.
  - The Remote Device is a device with L2CAP Streaming mode preferred for the Media Transport Channel.

- Test Procedure
  - The IUT initiates the AVDTP_OPEN_CMD on the signaling channel to Remote Device.
  - The Remote Device responds with AVDTP_OPEN_RSP on signaling channel.
  - The IUT initiates L2CAP Channel Creation (PSM=AVDTP).
  - The IUT configures L2CAP Channel for Streaming Mode operation.

- Expected Outcome
  - Pass verdict
  - AVDTP Media Transport channel is successfully established with L2CAP Streaming mode support.
4.4.2.4 Media Transport Channel with Streaming Mode – ACP

• Test Case ID(s)

   AVDTP/SRC/ACP/L2C/EM/BV-04-C

   AVDTP/SNK/ACP/L2C/EM/BV-04-C

• Test Purpose

   Verify that when both IUT (as ACP) and remote device prefer L2CAP Streaming mode for Media Transport Channel, the IUT (SRC or SNK) will establish a Media Transport Channel set to L2CAP Streaming mode operation.

• Reference


• Initial Condition

   Lower Tester is Remote Device.

   IUT is connected to remote device with an AVDTP Signaling L2CAP channel.

   The SEP has been configured such as multiplexing is not selected, reporting is not selected and recovery is not selected, see Section 4.2.1.5 - Set Configuration Command – INT.

   The Remote Device is a device with L2CAP Streaming mode preferred for the Media Transport Channel.

• Test Procedure

   The Remote Device initiates the AVDTP_OPEN_CMD on the signaling channel to the IUT.

   The IUT responds with AVDTP_OPEN_RSP on signaling channel.

   The Remote Device initiates L2CAP Channel Creation (PSM=AVDTP).

   The Remote Device configures L2CAP Channel for Streaming Mode operation.

• Expected Outcome

   Pass verdict

   AVDTP Media Transport channel is successfully established with L2CAP Streaming mode support.
5 Test Case Mapping

The Test Case Mapping Table (TCMT) maps test cases to specific capabilities in the ICS. Profiles, protocols and services may define multiple roles, and it is possible that a product may implement more than one role. The product shall be tested in all roles for which support is declared in the ICS document.

The columns for the TCMT are defined as follows:

Item: contains an y/x reference, where y corresponds to the table number and x corresponds to the feature number as defined in the ICS Proforma for Audio/Video Distribution Transport Protocol (AVDTP) [4]. If the item is defined with Protocol, Profile or Service abbreviation before y/x, the table and feature number referenced are defined in the abbreviated ICS proforma document.

Feature: recommended to be the primary feature defined in the ICS being tested or may be the test case name.

Test Case(s): the applicable test case identifiers required for Bluetooth Qualification if the corresponding y/x references defined in the Item column are supported.

For purpose and structure of the ICS/IXIT proforma and instructions for completing the ICS/IXIT proforma refer to the Bluetooth ICS and IXIT proforma document.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature</th>
<th>Test Case(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVDTP 4/1 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
<td>Stream Discover command – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-05-C</td>
</tr>
<tr>
<td>AVDTP 4b/1 AND (AVDTP 2b/1 OR AVDTP 2b/2 OR AVDTP 2b/3 OR AVDTP 2b/4)</td>
<td>Stream Discover command – INT, SNK</td>
<td>AVDTP/SNK/INT/SIG/SMG/BV-05-C</td>
</tr>
<tr>
<td>AVDTP 10/1 AND (AVDTP 8/1 OR AVDTP 8/2 OR AVDTP 8/3 OR AVDTP 8/4)</td>
<td>Stream Discover Command – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-06-C</td>
</tr>
<tr>
<td>AVDTP 10b/1 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
<td>Stream Discover Command – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BV-06-C</td>
</tr>
<tr>
<td>AVDTP 4/2 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
<td>Get Capabilities Command – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-07-C</td>
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<tr>
<td>Item</td>
<td>Feature</td>
<td>Test Case(s)</td>
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</tr>
<tr>
<td>AVDTP 4b/2 AND (AVDTP 2b/1 OR AVDTP 2b/2 OR AVDTP 2b/3 OR AVDTP 2b/4)</td>
<td>Get Capabilities Command – INT, SNK</td>
<td>AVDTP/SNK/INT/SIG/SMG/BV-07-C</td>
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<tr>
<td>AVDTP 10/2 AND (AVDTP 8/1 OR AVDTP 8/2 OR AVDTP 8/3 OR AVDTP 8/4)</td>
<td>Get Capabilities Response – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-08-C</td>
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<td>AVDTP 10b/2 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
<td>Get Capabilities Response – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BV-08-C</td>
</tr>
<tr>
<td>AVDTP 4/3 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
<td>Set Configuration Command – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-09-C</td>
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<td>AVDTP 4b/3 AND (AVDTP 2b/1 OR AVDTP 2b/2 OR AVDTP 2b/3 OR AVDTP 2b/4)</td>
<td>Set Configuration Command – INT, SNK</td>
<td>AVDTP/SNK/INT/SIG/SMG/BV-09-C</td>
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<td>AVDTP 10b/3 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
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<td>AVDTP/SNK/INT/SIG/SMG/BV-11-C</td>
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<td>Feature</td>
<td>Test Case(s)</td>
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<td>AVDTP/SRC/ACP/SIG/SMG/BV-12-C</td>
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<td>Reconfigure Command – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-13-C</td>
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<td>AVDTP/SNK/INT/SIG/SMG/BV-13-C</td>
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<td>Reconfigure Response – ACP, SRC</td>
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<td>Open Command – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-16-C</td>
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<td>Open Command – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BV-16-C</td>
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<td>AVDTP 5/2 AND AVDTP 1/1 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
<td>Start a Streaming Procedure - INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-17-C</td>
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<td>AVDTP 11/2 AND (AVDTP 8/1 OR AVDTP 8/2 OR AVDTP 8/3 OR AVDTP 8/4)</td>
<td>Receive Start Command – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-18-C</td>
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<tr>
<td>AVDTP 11/2 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
<td>Receive Start Command – ACP, SNK</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-18-C</td>
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<td>Close Command – INT, SRC</td>
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<td>Close Command – INT, SNK</td>
<td>AVDTP/SNK/INT/SIG/SMG/BV-19-C</td>
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<td>Close Command – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-20-C</td>
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<td>Close Command – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BV-20-C</td>
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<tr>
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<td>Test Case(s)</td>
</tr>
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<td>AVDTP 5/4 AND AVDTP 1/1 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
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<td>AVDTP/SNK/ACP/SIG/SMG/BV-22-C</td>
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<td>Abort Command – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-23-C</td>
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<td>AVDTP 5b/5 AND (AVDTP 2b/1 OR AVDTP 2b/2 OR AVDTP 2b/3 OR AVDTP 2b/4)</td>
<td>Abort Command – INT, SNK</td>
<td>AVDTP/SNK/INT/SIG/SMG/BV-23-C</td>
</tr>
<tr>
<td>AVDTP 11/5 AND (AVDTP 8/1 OR AVDTP 8/2 OR AVDTP 8/3 OR AVDTP 8/4)</td>
<td>Accept Abort – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-24-C</td>
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<td>AVDTP 11b/5 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
<td>Accept Abort – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BV-24-C</td>
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<td>AVDTP 4/6 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
<td>Get All Capabilities Command – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-25-C</td>
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<tr>
<td>AVDTP 4b/6 AND (AVDTP 2b/1 OR AVDTP 2b/2 OR AVDTP 2b/3 OR AVDTP 2b/4)</td>
<td>Get All Capabilities Command – INT, SNK</td>
<td>AVDTP/SNK/INT/SIG/SMG/BV-25-C</td>
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<td>AVDTP 10/6 AND (AVDTP 8/1 OR AVDTP 8/2 OR AVDTP 8/3 OR AVDTP 8/4)</td>
<td>Get All Capabilities Response – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BV-26-C</td>
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<tr>
<td>AVDTP 10b/6 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
<td>Get All Capabilities Response – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BV-26-C</td>
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<tr>
<td>AVDTP 4/6 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
<td>Get All Capabilities Response with RFD values – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BV-28-C</td>
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<td>AVDTP 4b/6 AND (AVDTP 2b/1 OR AVDTP 2b/2 OR AVDTP 2b/3 OR AVDTP 2b/4)</td>
<td>Get All Capabilities Response with RFD values – INT, SNK</td>
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<tr>
<td>AVDTP 4/1 AND AVDTP 17/1</td>
<td>Detect Stream Discover Command Reject by ACP – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-01-C</td>
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<td>AVDTP 4b/1 AND AVDTP 17/1</td>
<td>Detect Stream Discover Command Reject by ACP – INT, SRC</td>
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<td>(AVDTP 14a/1 OR AVDTP 14a/2) AND AVDTP 10/1 AND (NOT AVDTP 16/2)</td>
<td>Stream Discover Reject Response – ACP, SRC</td>
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<td>(AVDTP 15a/1 OR AVDTP 15a/2) AND AVDTP 10b/1 AND (NOT AVDTP 16/2)</td>
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<td>AVDTP 10/1 AND AVDTP 17/1</td>
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<td>AVDTP/SRC/ACP/SIG/SMG/BI-03-C</td>
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<td>AVDTP 10b/1 AND AVDTP 17/1</td>
<td>Stream Discover Reject Response – ACP, SNK</td>
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<td>AVDTP 4/2 AND AVDTP 17/1</td>
<td>Detect Get Capabilities Command Reject by ACP – INT, SRC</td>
<td>AVDTP/SRC/INT/SIG/SMG/BI-04-C</td>
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<td>AVDTP 4b/2 AND AVDTP 17/1</td>
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<td>AVDTP 10/2</td>
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<td>AVDTP 10b/2</td>
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<td>AVDTP 10/2 AND AVDTP 17/1</td>
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<td>AVDTP 10/3</td>
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<td>AVDTP 10b/3</td>
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<td>AVDTP 10/3 AND AVDTP 17/1</td>
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<td>AVDTP 10b/3 AND AVDTP 17/1</td>
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<td>AVDTP 5/1 AND AVDTP 17/1</td>
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<td>AVDTP 5b/1 AND AVDTP 17/1</td>
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<td>AVDTP 11/1</td>
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<td>AVDTP 11/1 AND AVDTP 17/1</td>
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<td>AVDTP 11b/1 AND AVDTP 17/1</td>
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<td>AVDTP 11/2</td>
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<td>Start Stream Reject Response when not in Open State – ACP, SNK</td>
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<td>AVDTP 11/2 AND AVDTP 17/1</td>
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<td>AVDTP 11b/2 AND AVDTP 17/1</td>
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<td>AVDTP 5/3 AND AVDTP 17/1</td>
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<td>AVDTP 5b/3 AND AVDTP 17/1</td>
<td>Detect the Rejection of the Close Stream Command by the ACP – INT, SRC</td>
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<tr>
<td>AVDTP 11/3</td>
<td>Close Stream Reject Response to Invalid SEP – ACP, SRC</td>
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<td>AVDTP 11b/3</td>
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<td>AVDTP/SNK/ACP/SIG/SMG/BI-23-C</td>
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<tr>
<td>AVDTP 11/3 AND AVDTP 17/1</td>
<td>Reject Close Stream Command Response – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-24-C</td>
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<td>AVDTP 11b/3 AND AVDTP 17/1</td>
<td>Reject Close Stream Command Response – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-24-C</td>
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<td>AVDTP 5/4 AND AVDTP 17/1</td>
<td>Detect Rejection of a Suspend Stream Command by the ACP – INT, SRC</td>
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<td>AVDTP 11/4</td>
<td>Reject Suspend Stream Response when the Stream is not in a Correct State – ACP, SRC</td>
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<tr>
<td>AVDTP 11b/4</td>
<td>Reject Suspend Stream Response when the Stream is not in a Correct State – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-26-C</td>
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<td>AVDTP 11b/4 AND AVDTP 17/1</td>
<td>Reject Suspend Stream Command Response – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-27-C</td>
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<td>AVDTP 11/6 AND NOT AVDTP 16/3</td>
<td>General Reject Response – Does not include signal ID, ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-28-C</td>
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<td>AVDTP 11b/6 AND NOT AVDTP 16/3</td>
<td>General Reject Response – Does not include signal ID, ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/BI-28-C</td>
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<td>AVDTP 11/6 AND AVDTP 16/3</td>
<td>General Reject Response – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/ESR04/BI-28-C</td>
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<tr>
<td>AVDTP 11b/6 AND AVDTP 16/3</td>
<td>General Reject Response – ACP, SNK</td>
<td>AVDTP/SNK/ACP/SIG/SMG/ESR04/BI-28-C</td>
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<td>AVDTP 11/4 AND AVDTP 17/1 AND (AVDTP 8/1 OR AVDTP 8/2 OR AVDTP 8/3 OR AVDTP 8/4)</td>
<td>Refuse Further Streaming following Suspend – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/BI-29-C</td>
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<tr>
<td>AVDTP 11b/4 AND AVDTP 17/1 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
<td>Refuse Further Streaming following Suspend – ACP, SNK</td>
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<td>AVDTP 1/3 AND AVDTP 4/2 AND AVDTP 4/3</td>
<td>Ignore Reserved Capabilities in GetCapabilities Response – INT, SRC</td>
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<td>AVDTP 1/3 AND AVDTP 4b/2 AND AVDTP 4b/3</td>
<td>Ignore Reserved Capabilities in GetCapabilities Response – INT, SNK</td>
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<td>AVDTP 1/3 AND AVDTP 4/2 AND AVDTP 4/3</td>
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<tr>
<td>AVDTP 1/3 AND AVDTP 4b/2 AND AVDTP 4b/3</td>
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<td>AVDTP 4/6 AND AVDTP 17/1</td>
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<td>AVDTP 4b/6 AND AVDTP 17/1</td>
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<td>AVDTP 10/6</td>
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<td>AVDTP 10b/6</td>
<td>Invalid Get All Capabilities Reject Response – ACP, SNK</td>
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<td>AVDTP 10/6 AND AVDTP 17/1</td>
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<td>AVDTP 10b/6 AND AVDTP 17/1</td>
<td>Get All Capabilities Reject Response – ACP, SNK</td>
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<tr>
<td>AVDTP 1/3 AND AVDTP 4/3 AND AVDTP 4/6</td>
<td>Accept all Defined Capabilities in a GetAllCapabilities Response - INT, SRC</td>
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<td>AVDTP 1/3 AND AVDTP 4b/3 AND AVDTP 4b/6</td>
<td>Accept all Defined Capabilities in a GetAllCapabilities Response - INT, SRC</td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-35-C</td>
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<tr>
<td>AVDTP 1/3 AND AVDTP 4/3 AND AVDTP 4/6</td>
<td>Ignore Reserved Capabilities in the GetAllCapabilities Response – INT, SRC</td>
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<tr>
<td>AVDTP 1/3 AND AVDTP 4b/3 AND AVDTP 4b/6</td>
<td>Ignore Reserved Capabilities in the GetAllCapabilities Response – INT, SNK</td>
<td>AVDTP/SNK/INT/SIG/SMG/BI-36-C</td>
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<tr>
<td>AVDTP 4/5 AND (AVDTP 2/1 OR AVDTP 2/2 OR AVDTP 2/3 OR AVDTP 2/4)</td>
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<td>AVDTP 4b/5 AND (AVDTP 2b/1 OR AVDTP 2b/2 OR AVDTP 2b/3 OR AVDTP 2b/4)</td>
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<td>AVDTP/SNK/INT/SIG/SMG/ESR05/BV-13-C</td>
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<td>AVDTP 10/5 AND (AVDTP 8/1 OR AVDTP 8/2 OR AVDTP 8/3 OR AVDTP 8/4)</td>
<td>Reconfigure Response after Configuration then Open – ACP, SRC</td>
<td>AVDTP/SRC/ACP/SIG/SMG/ESR05/BV-14-C</td>
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<td>AVDTP 10b/5 AND (AVDTP 8b/1 OR AVDTP 8b/2 OR AVDTP 8b/3 OR AVDTP 8b/4)</td>
<td>Reconfigure Response after Configuration then Open – ACP, SNK</td>
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<td>AVDTP 4/5 AND AVDTP 17/1</td>
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<td>Detect the Rejection of the Reconfigure Command by the ACP after Configuration and OPEN – INT, SNK</td>
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<td>AVDTP 10b/5 AND AVDTP 17/1</td>
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<tr>
<td>AVDTP 12b/1</td>
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<td>Reassembling of Signaling Messages – INT, SNK</td>
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*Table 5.1: Test Case Mapping*
### 6 Revision History and Contributors

**Revision History**

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| 1.3.0r5            |                  | 2012/04/17 | Miscellaneous editorial updates  
Corrected Signal_Id value in TP/SIG/SMG/BV-25  
Updated Test Condition and Expected Outcome of TP/SIG/SMG/BV-27-C  
Updated Test Condition and Expected Outcome of TP/SIG/SMG/BV-28-C |
| 1.3.0r6            |                  | 2012/04/20 | Updated input parameters for messages associated with TP/TRA/RHC/BV-01-C and TP/TRA/RHC/BV-02-C                                         |
| 1.3.0r7            |                  | 2012/06/05 | Fixed the TCMT for TP/SIG/SMG/BI-35-C and TP/SIG/SMG/BI-35-C for support of get all capabilities command and consistently applied GetAllCapabilities in the test case test where it was incorrectly stated as GetCapabilities.  
Fixed the references for TP/SIG/SMG/BI-30-C and TP/SIG/SMG/BI-31-C.  
Per BTI review comments. |
| 1.3.0r8            |                  | 2012/06/18 | TSE 4882: Change TP/SIG/SMG/BI-31-C TC ID to become TP/SIG/SMG/BV-31-C with updated purpose and TP/SIG/SMG/BI-31-C will be phased out. Revised TCMT for new TC ID. |
| 1.3.0r9            |                  | 2012/06/21 | TSE 4885: Changed relevant test cases to remove non-fragmented AVDTP message condition and corresponding pass verdict. Affected test cases:  
TP/SIG/SMG/BV-05-C to TP/SIG/SMG/BV-28-C inclusive  
TP/SIG/SMG/BI-01-C to TP/SIG/SMG/BI-34-C inclusive  
TP/SIG/SEC/BV-01-C  
TP/SIG/SEC/BI-01-C  
TP/TRA/BTR/BV-01-C to TP/TRA/BTR/BV-02-C inclusive  
TP/TRA/BTR/BI-01-C  
TP/TRA/REP/BV-01-C to TP/TRA/REP/BV-02-C inclusive  
TP/TRA/REP/BI-01-C to TP/TRA/REP/ESR02/BI-01-C  
TP/TRA/REC/BI-01-C  
TP/TRA/MUX/BV-01-C to TP/TRA/MUX/BV-06-C  
TP/TRA/MUX/BI-01-C |
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<td>Fixed Rev History for TSE 4885, added versions to front page, updated Conformance section for current text, and corrected accidental deletion in the initial condition of TP/SIG/SEC/BV-01-C.</td>
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<td>Reordered subsection numbering for Section 2 to comply with published Test Specification template. Adjusted fail verdict and notes section formatting of test cases to comply with latest recommendations.</td>
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<td>Universal removal of “Fail verdict” statements equal to “Any of the pass verdicts fail to occur.”</td>
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<td>Addition of Fail verdict convention in section 3.2.5</td>
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<td>Removal of Test Conditions that consist solely of “N/A”</td>
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<td>Editorial revisions from BTI review. Revisions/Updates to Table 4.2 Error Code Mapping.</td>
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<td>TSE 6590: Corrected IUT and Tester roles for TP/SIG/SMG/BI-25-C.</td>
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<td>Test Spec Template Conversion. Added test case names for those tests that did not already have them. Changed all remaining instances of “Test System” to “Lower Tester” to comply with current TSTO conventions. Section consolidation in section 2. Removal of section 3.2 (found to be redundant) Test Purposes for TP/L2C/BM/BV-01-C, to -06-C rewritten to provide clarity of the respective purposes</td>
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<td>TSE 9483: Corrected Test Case Mapping for SIG/FRA/BV-01-C, SIG/FRA/BV-02-C, TRA/REC/BV-02-C, TRA/MUX/BV-06-C, TRA/RHC/BV-02-C. Updated Section 4.1 to account for new Test Case ID conventions.</td>
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<td>TSE 11211 (rating 2): Updated to the latest template version and made editorial revisions. Updated TCMT references to Table 0 following ICS changes to split the version tables per role.</td>
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<td>TSE 13362 (rating 1): Rearranged Acronyms table to align acronyms with the correct definitions, and added an entry for SMG.</td>
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<td>Restored errantly deleted “TRA” row to acronyms table.</td>
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**Contributors**

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<th>Company</th>
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<td>Ash Kapur</td>
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