# Interoperable Product Testing (IOPT)

***Bluetooth*® Test Suite**

---

- **Revision:** IOPT.TS.p17
- **Revision Date:** 2025-12-16
- **Prepared By:** BTI
- **Published during TCRL:** TCRL.pkg101-addition

**This document, regardless of its title or content, is not a Bluetooth Specification as defined in the Bluetooth Patent/Copyright License Agreement ("PCLA") and Bluetooth Trademark License Agreement. Use of this document by members of Bluetooth SIG is governed by the membership and other related agreements between Bluetooth SIG Inc. ("Bluetooth SIG") and its members, including the PCLA and other agreements posted on Bluetooth SIG's website located at www.bluetooth.com.**

**THIS DOCUMENT IS PROVIDED "AS IS" AND BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES MAKE NO REPRESENTATIONS OR WARRANTIES AND DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, THAT THE CONTENT OF THIS DOCUMENT IS FREE OF ERRORS.**

**TO THE EXTENT NOT PROHIBITED BY LAW, BLUETOOTH SIG, ITS MEMBERS, AND THEIR AFFILIATES DISCLAIM ALL LIABILITY ARISING OUT OF OR RELATING TO USE OF THIS DOCUMENT AND ANY INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING LOST REVENUE, PROFITS, DATA OR PROGRAMS, OR BUSINESS INTERRUPTION, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, AND EVEN IF BLUETOOTH SIG, ITS MEMBERS, OR THEIR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

**This document is proprietary to Bluetooth SIG. This document may contain or cover subject matter that is intellectual property of Bluetooth SIG and its members. The furnishing of this document does not grant any license to any intellectual property of Bluetooth SIG or its members.**

**This document is subject to change without notice.**

**Copyright © 2003–2025 by Bluetooth SIG, Inc. The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. Other third-party brands and names are the property of their respective owners.**

# Contents


**1 Scope ..... 8**

**2 References, definitions, and abbreviations ..... 9**

2.1 References ..... 9

2.2 Definitions ..... 12

2.3 Acronyms and abbreviations ..... 12

**3 Test Suite Structure (TSS) ..... 13**

3.1 Overview ..... 13

3.2 Service Discovery (SDP) ..... 13

3.2.1 Class-of-Device (CoD) ..... 14

3.3 GATT Database (GATT DB) ..... 14

3.4 Mesh Protocol and Mesh Models ..... 14

3.5 LE Audio ..... 15

3.6 Test Strategy ..... 15

**4 Test cases (TC) ..... 16**

4.1 Introduction ..... 16

4.1.1 Test case identification conventions ..... 16

4.1.2 Conformance ..... 16

4.1.3 Pass/Fail verdict conventions ..... 17

4.2 Class of Device ..... 17

IOPT/SR/COD/BV-01-I [Class-of-Device] ..... 17

4.3 Traditional specification IOPT tests ..... 21

4.3.1 IOPT SDPR Server tests ..... 21

IOPT/3DSP/3DD/SDPR/BV-01-I [SDP Record – 3DSP 3DD] ..... 21

IOPT/3DSP/3DG/SDPR/BV-02-I [SDP Record – 3DSP 3DG] ..... 21

IOPT/A2DP/SRC/SDPR/BV-01-I [SDP Record – Source role] ..... 21

IOPT/A2DP/SNK/SDPR/BV-01-I [SDP Record – Sink role] ..... 22

IOPT/AVRCP/CT/SDPR/BV-01-I [SDP Record – Controller role] ..... 22

IOPT/AVRCP/TG/SDPR/BV-01-I [SDP Record – Target role] ..... 22

IOPT/BIP/IPSR/SDPR/BV-01-I [SDP Record – BIP IPSR role] ..... 23

IOPT/BIP/IPLR/SDPR/BV-01-I [SDP Record – BIP IPLR role] ..... 23

IOPT/BIP/AIPR/SDPR/BV-01-I [SDP Record – BIP AIPR role] ..... 23

IOPT/BIP/AAR/SDPR/BV-01-I [SDP Record – BIP AAR role] ..... 24

IOPT/BIP/RCR/SDPR/BV-01-I [SDP Record – BIP RCR role] ..... 24

IOPT/BIP/RDR/SDPR/BV-01-I [SDP Record – BIP RDR role] ..... 24

IOPT/BIP/AIPI/SDPR/BV-01-I [SDP Record – BIP AIPI role] ..... 25

IOPT/BIP/AAI/SDPR/BV-01-I [SDP Record – BIP AAI role] ..... 25

IOPT/BPP/PR/SDPR/BV-01-I [SDP Record – BPP PR role] ..... 25

IOPT/BPP/SD/SDPR/BV-01-I [SDP Record – BPP SD role] ..... 26

IOPT/CTN/CCE/SDPR/BV-01-I [SDP Record – CTN CCE role] ..... 26

IOPT/CTN/CSE/SDPR/BV-01-I [SDP Record – CTN CSE role] ..... 27

IOPT/DID/SR/SDPR/BV-01-I [SDP Record – Device ID] ..... 27

IOPT/DUN/GW/SDPR/BV-01-I [SDP Record – DUN GW role] ..... 27

IOPT/FTP/SR/SDPR/BV-01-I [SDP Record – FTP SR role] ..... 27

IOPT/GNSS/SR/SDPR/BV-01-I [SDP Record – GNSS SR role] ..... 28

IOPT/HCRP/SR/SDPR/BV-01-I [SDP Record – HCRP SR role] ..... 28

IOPT/HCRP/CL/SDPR/BV-01-I [SDP Record – HCRP CL role] ..... 28

IOPT/HDP/SRC/SDPR/BV-01-I [SDP Record – HDP SRC role] ..... 28

IOPT/HDP/SNK/SDPR/BV-01-I [SDP Record – HDP SNK role] ....29
IOPT/HFP/HF/SDPR/BV-01-I [SDP Record – Hands-Free role] ....29
IOPT/HFP/AG/SDPR/BV-01-I [SDP Record – Audio Gateway role] ....29
IOPT/HID/DEV/SDPR/BV-01-I [SDP Record – HID Device role] ....30
IOPT/HID11/DEV/SDPR/BV-01-I [SDP Record – HID11 Device role] ....31
IOPT/HSP/HS/SDPR/BV-01-I [SDP Record – HSP HS role] ....32
IOPT/HSP/AG/SDPR/BV-01-I [SDP Record – HSP AG role] ....32
IOPT/MAP/MSE/SDPR/BV-01-I [SDP Record – MSE role] ....32
IOPT/MAP/MCE/SDPR/BV-01-I [SDP Record – MCE role] ....32
IOPT/MPS/SR/SDPR/BV-01-I [SDP Record – MPS] ....33
IOPT/OPP/SR/SDPR/BV-01-I [SDP Record – Object Push] ....33
IOPT/PAN/NAP/SDPR/BV-01-I [SDP Record – NAP role] ....33
IOPT/PAN/GN/SDPR/BV-01-I [SDP Record – GN role] ....33
IOPT/PAN/PANU/SDPR/BV-01-I [SDP Record – PANU role] ....34
IOPT/PBAP/PCE/SDPR/BV-01-I [SDP Record – PCE role] ....34
IOPT/PBAP/PSE/SDPR/BV-01-I [SDP Record – PSE role] ....34
IOPT/SAP/SR/SDPR/BV-01-I [SDP Record – SIM Access] ....35
IOPT/SPP/DEVB/SDPR/BV-01-I [SDP Record – Serial Port] ....35
IOPT/SYNC/SR/SDPR/BV-01-I [SDP Record – SYNC Server] ....35
IOPT/SYNC/CL/SDPR/BV-01-I [SDP Record – SYNC Client] ....35
IOPT/VDP/SRC/SDPR/BV-01-I [SDP Record – VDP Source] ....35
IOPT/VDP/SNK/SDPR/BV-01-I [SDP Record – VDP Sink] ....35
4.3.2 IOPT SFC Server tests ....36
IOPT/A2DP/SRC/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is A2DP Source] ....36
IOPT/A2DP/SNK/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is A2DP Sink] ....36
IOPT/AVRCP/CT/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is AVRCP Controller] ....37
IOPT/AVRCP/TG/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is AVRCP Target] ....37
IOPT/BIP/IPSI/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is BIP IPSI role] ....37
IOPT/BPP/SD/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is BPP Sender] ....37
IOPT/CTN/CCE/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is CTN CCE role] ....37
IOPT/DUN/DT/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is DUN DT role] ....37
IOPT/FTP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is FTP CL role] ....37
IOPT/GNSS/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is GNSS CL role] ....37
IOPT/HCRP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HCRP CL role for Print] ....37
IOPT/HCRP/CL/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is HCRP CL role for Scan] ....37
IOPT/HDP/SRC/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HDP SRC role] ....37
IOPT/HDP/SNK/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HDP SNK role] ....37
IOPT/HFP/HF/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HFP HF] ....37
IOPT/HFP/AG/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HFP AG] ....38
IOPT/HID/HOS/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HID Host] ....38
IOPT/HID11/HOS/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HID11 Host] ....38
IOPT/HSP/HS/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HSP HS role] ....38
IOPT/HSP/AG/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is HSP AG role] ....38
IOPT/MAP/MCE/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is MAP MCE] ....38
IOPT/OPP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is OPP Push Client] ....38
IOPT/PAN/PANU/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is PANU] ....38
IOPT/PBAP/PCE/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is PBAP PCE] ....38
IOPT/SAP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is SAP Client] ....38
IOPT/SPP/DEVA/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is SPP DevA] ....38
IOPT/SYNC/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is SYNC Client] ....38
IOPT/VDP/SRC/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is VDP Source] ....38
IOPT/VDP/SNK/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is VDP Sink] ....38
4.4 GATT-based and GATT-based Audio specification IOPT tests ....39
4.4.1 IOPT GATTDB tests ....39
IOPT/AICS/SR/GATTDB/BV-01-I [GATT service verification – AICS] ....39
IOPT/ASCS/SR/GATTDB/BV-01-I [GATT-based service SDP record verification – ASCS] ....40

IOPT/BASS/SR/GATTDB/BV-01-I [GATT service verification – BASS] ....40
IOPT/CAS/SR/GATTDB/BV-01-I [GATT service verification – CAS] ....40
IOPT/CSIS/SR/GATTDB/BV-01-I [GATT service verification – CSIS] ....40
IOPT/GMCS/SR/GATTDB/BV-01-I [GATT service verification – GMCS] ....40
IOPT/GTBS/SR/GATTDB/BV-01-I [GATT service verification – GTBS] ....41
IOPT/GVAS/SR/GATTDB/BV-01-I [GATT service verification – GVAS] ....42
IOPT/HAS/SR/GATTDB/BV-01-I [GATT service verification – HAS] ....42
IOPT/MCS/SR/GATTDB/BV-01-I [GATT service verification – MCS] ....42
IOPT/MICS/SR/GATTDB/BV-01-I [GATT service verification – MICS] ....43
IOPT/PACS/SR/GATTDB/BV-01-I [GATT service verification – PACS] ....43
IOPT/TBS/SR/GATTDB/BV-01-I [GATT service verification – TBS] ....43
IOPT/TMAP/SR/GATTDB/BV-01-I [GATT service verification – TMAP] ....44
IOPT/VAS/SR/GATTDB/BV-01-I [GATT service verification – VAS] ....44
IOPT/VCS/SR/GATTDB/BV-01-I [GATT service verification – VCS] ....44
IOPT/VOCS/SR/GATTDB/BV-01-I [GATT service verification – VOCS] ....45
IOPT/ACS/SR/GATTDB/BV-01-I [GATT service verification – ACS] ....45
IOPT/AIOS/SR/GATTDB/BV-01-I [GATT service verification – AIOS] ....45
IOPT/ANS/SR/GATTDB/BV-01-I [GATT service verification – ANS] ....47
IOPT/BAS/SR/GATTDB/BV-01-I [GATT service verification – BAS] ....48
IOPT/BCS/SR/GATTDB/BV-01-I [GATT service verification – BCS] ....48
IOPT/BLS/SEN/GATTDB/BV-01-I [GATT service verification – BLS] ....49
IOPT/BMS/SEN/GATTDB/BV-01-I [GATT service verification – BMS] ....49
IOPT/BSS/SEN/GATTDB/BV-01-I [GATT service verification – BSS] ....49
IOPT/CGMS/SEN/GATTDB/BV-01-I [GATT service verification – CGMS] ....49
IOPT/CPS/SEN/GATTDB/BV-01-I [GATT service verification – CPS] ....50
IOPT/CSCS/SEN/GATTDB/BV-01-I [GATT service verification – CSCS] ....50
IOPT/CTES/SR/GATTDB/BV-01-I [GATT service verification – CTES] ....50
IOPT/CTS/SR/GATTDB/BV-01-I [GATT service verification – CTS] ....50
IOPT/CWS/SR/GATTDB/BV-01-I [GATT service verification – CWS] ....51
IOPT/DIS/SR/GATTDB/BV-01-I [GATT service verification – DIS] ....51
IOPT/DTS/SR/GATTDB/BV-01-I [GATT service verification – DTS] ....52
IOPT/EMCS/SR/GATTDB/BV-01-I [GATT service verification – EMCS] ....52
IOPT/ESLS/SR/GATTDB/BV-01-I [GATT service verification – ESLS] ....52
IOPT/ESS/SEN/GATTDB/BV-01-I [GATT service verification – ESS] ....52
IOPT/ETS/SR/GATTDB/BV-01-I [GATT service verification – ETS] ....52
IOPT/FTMS/SR/GATTDB/BV-01-I [GATT service verification – FTMS] ....53
IOPT/GHSS/SR/GATTDB/BV-01-I [GATT service verification – GHSS] ....53
IOPT/GLS/SEN/GATTDB/BV-01-I [GATT service verification – GLS] ....54
IOPT/HIDS/HD/GATTDB/BV-01-I [GATT service verification – HIDS] ....54
IOPT/HOGP/SR/GATTDB/BV-01-I [GATT service verification – HOGP] ....54
IOPT/HPS/SR/GATTDB/BV-01-I [GATT service verification – HPS] ....55
IOPT/HRS/SEN/GATTDB/BV-01-I [GATT service verification – HRS] ....55
IOPT/HTS/SEN/GATTDB/BV-01-I [GATT service verification – HTS] ....55
IOPT/IAS/SR/GATTDB/BV-01-I [GATT service verification – IAS] ....55
IOPT/IDS/SEN/GATTDB/BV-01-I [GATT service verification – IDS] ....55
IOPT/IMDS/SR/GATTDB/BV-01-I [GATT service verification – IMDS] ....56
IOPT/IPS/SR/GATTDB/BV-01-I [GATT service verification – IPS] ....57
IOPT/IPSP/NOD/GATTDB/BV-01-I [GATT service verification – IPSP] ....59
IOPT/LLS/SR/GATTDB/BV-01-I [GATT service verification – LLS] ....59
IOPT/LNS/SEN/GATTDB/BV-01-I [GATT service verification – LNS] ....60
IOPT/NDCS/SR/GATTDB/BV-01-I [GATT service verification – NDCS] ....60
IOPT/OTS/SR/GATTDB/BV-01-I [GATT service verification – OTS] ....60
IOPT/PAMS/SR/GATTDB/BV-01-I [GATT service verification – PAMS] ....60
IOPT/PASS/SR/GATTDB/BV-01-I [GATT service verification – PASS] ....61
IOPT/PLXS/SEN/GATTDB/BV-01-I [GATT service verification – PLXS] ....61
IOPT/RAS/SR/GATTDB/BV-01-I [GATT service verification – RAS] ....61

IOPT/RCS/SR/GATTDB/BV-01-I [GATT service verification – RCS] ....62
IOPT/RSCS/SEN/GATTDB/BV-01-I [GATT service verification – RSCS] ....62
IOPT/RTUS/SR/GATTDB/BV-01-I [GATT service verification – RTUS] ....62
IOPT/SCPS/SR/GATTDB/BV-01-I [GATT service verification – SCPS] ....63
IOPT/TDS/SR/GATTDB/BV-01-I [GATT service verification – TDS] ....63
IOPT/TPS/SR/GATTDB/BV-01-I [GATT service verification – TPS] ....63
IOPT/UDS/SR/GATTDB/BV-01-I [GATT service verification – UDS] ....63
IOPT/WSS/SEN/GATTDB/BV-01-I [GATT service verification – WSS] ....65
4.4.2 IOPT SGSIT SDP tests ....65
IOPT/AICS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – AICS] ....66
IOPT/ASCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ASCS] ....66
IOPT/BASS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BASS] ....66
IOPT/CAS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CAS] ....66
IOPT/CSIS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CSIS] ....66
IOPT/GMCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – GMCS] ....66
IOPT/GTBS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – GTBS] ....66
IOPT/MCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – MCS] ....66
IOPT/MICS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – MICS] ....66
IOPT/PACS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – PACS] ....66
IOPT/TBS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – TBS] ....66
IOPT/TMAP/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – TMAP] ....66
IOPT/VCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – VCS] ....66
IOPT/VOCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – VOCS] ....66
IOPT/ACS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ACS] ....66
IOPT/AIOS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – AIOS] ....66
IOPT/BAS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BAS] ....66
IOPT/BCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BCS] ....66
IOPT/BMS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BMS] ....66
IOPT/CGMS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CGMS] ....66
IOPT/CPS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CPS] ....66
IOPT/CSCS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CSCS] ....67
IOPT/CTS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CTS] ....67
IOPT/CWS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CWS] ....67
IOPT/DIS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – DIS] ....67
IOPT/DTS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – DTS] ....67
IOPT/ESS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ESS] ....67
IOPT/ETS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ETS] ....67
IOPT/FTMS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – FTMS] ....67
IOPT/GHSS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – GHSS] ....67
IOPT/HPS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – HPS] ....67
IOPT/IMDS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – IMDS] ....67
IOPT/IPS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – IPS] ....67
IOPT/LNS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – LNS] ....67
IOPT/OTS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – OTS] ....67
IOPT/PAMS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – PAMS] ....67
IOPT/PLXS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – PLXS] ....67
IOPT/RSCS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – RSCS] ....67
IOPT/TDS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – TDS] ....67
IOPT/UDS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – UDS] ....67
IOPT/WSS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – WSS] ....67
4.4.3 IOPT MESH tests ....68
IOPT/MESH/NODE/BV-01-I [Provisioning and reprovisioning] ....68
IOPT/MESH/NODE/BV-02-I [Mesh device composition data] ....68
IOPT/MESH/NODE/BV-03-I [Network message cache and replay protection] ....68
4.4.4 LE Audio application profile tests ....69

IOPT/PBP/PBK/RCV/BV-07-I [Receiving Public Broadcast Announcements, Standard Quality, 24_2_1, Encrypted, LE 2M PHY – PBK] ..... 69
IOPT/PBP/PBA/RCV/BV-06-I [Receiving Public Broadcast Announcements, Standard Quality, Encrypted, LE 2M PHY – PBA] ..... 69

**5 Test case mapping ..... 70**

**6 Revision history and acknowledgments ..... 79**

# 1 Scope

This Bluetooth document contains the Test Suite Structure (TSS) and test cases focused on verifying that different devices can exchange data with each other about their supported capabilities and attributes, referred to as Interoperable Product Testing.

- For traditional Bluetooth profiles operating only over the BR or BR/EDR transport, the exchange occurs over SDP.
- For services and profiles defined to operate over the Bluetooth LE transport, the exchange occurs over GATT, and when such specifications may operate also over either the BR/EDR transport in addition to the LE transport, then a combination of GATT and SDP is used.
- For Bluetooth Mesh network capabilities, the data exchanged is composition data.

Tests defined herein rely on the respective procedures to query for SDP data, GATT database records, or Mesh composition data, aiming to provide a high probability of air interface interoperability between the tested implementation and other manufacturers' Bluetooth devices that support X2Core specifications.

While similar in name, this IOPT document serves a different purpose and is not to be confused with IOP validation of draft specifications that occurs in the Bluetooth SIG specification-development process.

# 2 References, definitions, and abbreviations

## 2.1 References

This document incorporates provisions from other publications by dated or undated reference. These references are cited at the appropriate places in the text, and the publications are listed hereinafter. Additional definitions and abbreviations can be found in [1] and [5].


[1] Bluetooth Core Specification, Version 4.2 or later

[2] Bluetooth SIG Assigned Numbers (https://www.bluetooth.com/specifications/assigned-numbers)

[3] Interoperable Product Testing Test Suite, IOPT.TS

[4] ICS Proforma for Interoperable Product Testing (IOPT)

[5] Test Strategy and Terminology Overview

[6] IXIT Proforma for Interoperable Product Testing (IOPT)

[7] Appropriate Language Mapping Tables document

[8] GATT Test Suite, GATT.TS

[9] MESH Test Suite, MESH.TS

[10] SDP Test Suite, SDP.TS

[11] Device ID Specification

[12] Hands-Free Profile Specification, Version 1.7 or later

[13] Human Interface Device Specification, Version 1.0

[14] Human Interface Device Specification, Version 1.1

[15] AICS Test Suite, AICS.TS

[16] VOCS Test Suite, VOCS.TS

[17] VCS Test Suite, VCS.TS

[18] MICS Test Suite, MICS.TS

[19] TBS Test Suite, TBS.TS

[20] MCS Test Suite, MCS.TS

[21] ASCS Test Suite, ASCS.TS

[22] PACS Test Suite, PACS.TS

[23] BASS Test Suite, BASS.TS

[24] CAS Test Suite, CAS.TS

[25] CSIS Test Suite, CSIS.TS

[26] ACS Test Suite, ACS.TS

[27] AIOS Test Suite, AIOS.TS

[28] ANS Test Suite, ANS.TS

[29] BAS Test Suite, BAS.TS

[30] BCS Test Suite, BCS.TS

[31] BMS Test Suite, BMS.TS
[32] BSS Test Suite, BSS.TS
[33] BLS Test Suite, BLS.TS
[34] CGMS Test Suite, CGMS.TS
[35] CPS Test Suite, CPS.TS
[36] HIDS Test Suite, HIDS.TS
[37] CSCS Test Suite, CSC.TS
[38] CTES Test Suite, CTES.TS
[39] CTS Test Suite, CTS.TS
[40] DIS Test Suite, DIS.TS
[41] DTS Test Suite, DTS.TS
[42] EMCS Test Suite, EMCS.TS
[43] ESLS Test Suite, ESLS.TS
[44] ESS Test Suite, ESS.TS
[45] ETS Test Suite, ETS.TS
[46] FTMS Test Suite, FTMS.TS
[47] GHSS Test Suite, GHSS.TS
[48] GLS Test Suite, GLS.TS
[49] HAS Test Suite, HAS.TS
[50] HPS Test Suite, HPS.TS
[51] HRS Test Suite, HRS.TS
[52] HTS Test Suite, HTS.TS
[53] IAS Test Suite, IAS.TS
[54] IDS Test Suite, IDS.TS
[55] IPS Test Suite, IPS.TS
[56] LLS Test Suite, LLS.TS
[57] LNS Test Suite, LNS.TS
[58] NDCS Test Suite, NDCS.TS
[59] OTS Test Suite, OTS.TS
[60] PAMS Test Suite, PAMS.TS
[61] PASS Test Suite, PASS.TS
[62] PLXS Test Suite, PLXS.TS
[63] RCS Test Suite, RCS.TS
[64] RSCS Test Suite, RSCS.TS
[65] SCPS Test Suite, SCPS.TS

[66] TDS Test Suite, TDS.TS

[67] TPS Test Suite, TPS.TS

[68] UDS Test Suite, UDS.TS

[69] WSS Test Suite, WSS.TS

[70] IPSP Test Suite, IPSP.TS

[71] RTUS Test Suite, RTUS.TS

[72] TMAP Test Suite, TMAP.TS

[73] A2DP Test Suite, A2DP.TS

[74] Advanced Audio Distribution Profile Specification

[75] AVRCP Test Suite, AVRCP.TS

[76] Audio/Video Remote Control Profile Specification

[77] 3DSP Test Suite, 3DSP.TS

[78] 3D Synchronization Profile Specification

[79] BIP Test Suite, BIP.TS

[80] Basic Imaging Profile Specification

[81] BPP Test Suite, BPP.TS

[82] Basic Printing Profile Specification

[83] CTN Test Suite, CTN.TS

[84] Calendar Tasks and Notes Profile Specification

[85] DUN Test Suite, DUN.TS

[86] Dial-up Networking Profile Specification

[87] FTP Test Suite, FTP.TS

[88] File Transfer Profile Specification

[89] HCRP Test Suite, HCRP.TS

[90] Hardcopy Cable Replacement Specification

[91] HDP Test Suite, HDP.TS

[92] Health Device Profile Specification

[93] HSP Test Suite, HSP.TS

[94] Headset Profile Specification

[95] MAP Test Suite, MAP.TS

[96] Message Access Profile Specification

[97] OPP Test Suite, OPP.TS

[98] Object Push Profile Specification

[99] PAN Test Suite, PAN.TS

[100] Personal Area Networking Profile Specification

[101] PBAP Test Suite, PBAP.TS

[102] Phone Book Access Profile Specification

[103] SAP Test Suite, SAP.TS

[104] SIM Access Profile Specification

[105] SPP Test Suite, SPP.TS

[106] Serial Port Profile Specification

[107] SYNC Test Suite, SYNC.TS

[108] Synchronization Profile Specification

[109] VDP Test Suite, VDP.TS

[110] Video Distribution Profile Specification

[111] DID Test Suite, DID.TS

[112] Global Navigation Satellite System Profile Specification

[113] GNSS Test Suite, GNSS.TS

[114] HFP Test Suite, HFP.TS

[115] Hands-Free Profile Specification, Version 1.8 or later

[116] HID Test Suite, HID.TS

[117] HID 1.1 or later Test Suite, HID11.TS

[118] Multi-Profile Specification

[119] MPS Test Suite, MPS.TS

[120] IMDS Test Suite, IMDS.TS

[121] RAS Test Suite, RAS.TS

[122] HOGP Test Suite, HOGP.TS

[123] CSIS 1.1 or later Test Suite, CSIS 1.1 TS

[124] PBP Test Suite, PBP.TS

[125] CWS Test Suite, CWS.TS

[126] VAS Test Suite, VAS.TS

## 2.2 Definitions

In this Bluetooth document, the definitions from [1] and [5] apply.

Certain terms that were identified as inappropriate have been replaced. For a list of the original terms and their replacement terms, see the Appropriate Language Mapping Tables document [7].

## 2.3 Acronyms and abbreviations

In this Bluetooth document, the definitions, acronyms, and abbreviations from [1] and [5] apply.

# 3 Test Suite Structure (TSS)

## 3.1 Overview

Several mechanisms exist to allow a Bluetooth device to determine the capabilities of a remote device. This Test Suite varies from other Test Suites in that it looks at the collection of supported specifications within an IUT and how it exposes the supported profiles, services, or mesh model functionality to different devices over the air.

For multiple supported profiles, services, or mesh models, an IUT may not have a static set of data in available SDP records or the GATT database or the Mesh Composition data, which is important to keep in mind when exercising the test cases contained in this Test Suite.

The supported capabilities may be enabled by:

- Running overlapping profiles where one within a set of alternative applications is chosen
- Running non-overlapping profiles with multiple applications running simultaneously

An example of an overlapping profile is a phone that supports the Personal Area Networking Profile (PAN) in both the NAP and PANU roles, but not simultaneously. The presence of an external network determines whether the phone will act in a particular role. When connecting and re-connecting to a remote device, the IUT needs to decide which is the appropriate profile role to invoke to expose support for the remote device.

An example of non-overlapping profiles is a headset that supports the Hands-Free Profile (HFP) HF role, the Advanced Audio Distribution Profile (A2DP) Sink role, and the Hearing Aid Profile (HAP) unicast client. A remote device can determine these supported services and establish a connection according to the requirements of the individual specifications.

## 3.2 Service Discovery (SDP)

Usually on first connection, devices browse all SDP services, or if the remote device does not support browsing, they query directly for each of the services that the local device supports and then cache the results. This means that before connecting to the first remote service, the local device usually has a cache with information on all the services the remote device supports.

Since an SDP query requires an L2CAP channel and connecting to a service also requires an L2CAP channel, for a device that has cached SDP records, it is likely to be faster to simply attempt to connect to a second service rather than reconnect to SDP. If the cached SDP record says that the service is supported but connecting to the service fails, then an error code will be returned. Code 0x0004 “No resources available” will make the local device deduce that the remote device has run out of resources to support the second connection, while code 0x0002 “PSM not supported” indicates that the remote device does not allow this profile.

There is no requirement to support the behavior described above. A device could perform an SDP query for one service only, then perform a second query when it tries to connect to a second service; however, it should be noted that a device may use a dynamic SDP database, and therefore the service record may not reflect current resources available. Thus, even if an SDP query is performed immediately before connecting to a service, the service may not be available for use.

It is useful to test that a device responds with a service record for each claimed profile but does not give a service record for capabilities not claimed.

Since an SDP server can send its response using the continuation state parameter, SDP clients need to be capable of handling this situation. On the other hand, if the server does not support use of the

continuation state parameter and the response cannot fit in one SDP PDU, then the client will have a problem interpreting the response.

### 3.2.1 Class-of-Device (CoD)

Class-of-Device is one of the attributes that can be associated with a service record in SDP and is therefore a parameter that may be received during the device discovery procedure on the BR/EDR physical transport, indicating contextual information about the device. The CoD parameter is only used on BR/EDR and BR/EDR/LE devices using the BR/EDR physical transport.

The CoD comprises two main groups of information: Service Class and Device Class.

- The *Service Class* field is a bitmask where each bit corresponds to a high-level generic category of service class. Multiple bits can be set.
- The *Device Class* field indicates major device class and may indicate minor device class. Only one major device class can be indicated at any point in time, and it is used to indicate the main function of a device. The minor device class is to be interpreted only in the context of the major device class (but independent of the service class). Thus, the meaning of the bits may change, depending on the value of the major device class.

The range of specificity for CoD varies greatly between profiles. Some profiles mandate specific values for service class and major device class. Some profiles recommend potential values. Some profiles note that there is no obvious correlation between CoD values and the specification, since many types of devices can implement the specification.

The assigned numbers [2] lists the defined CoD values.

## 3.3 GATT Database (GATT DB)

The GATT DB is central to Bluetooth Low Energy (LE), including LE Audio, and LE device services and profiles. Within the GATT DB, services are composed of characteristics, which represent specific data points or features of a service. The GATT DB is dynamic and configurable, allowing devices to expose their capabilities and attributes based on their current state and functionality. This adaptability is essential for LE devices that may have varying features or operate in different modes.

In a GATT server, the GATT DB is the structured repository for attributes and data related to its services and characteristics. The GATT server uses the GATT DB to respond to client requests, manage attribute values, and provide the functionality defined by its profiles and services.

The GATT client queries the GATT DB of a GATT server to discover, read, write, and manage attributes and their data, thereby allowing it to interact with the server's attributes based on the requirements of its application and use case.

## 3.4 Mesh Protocol and Mesh Models

Mesh devices may expose a complex structure of elements and models that is specific to its intended use case and therefore must undergo additional testing to verify that the chosen model instance distribution follows the requirements of the Mesh specifications. Mixing certain combinations of multi-instance cross-element models can sometimes become complicated, and an incorrect structure may affect the device's ability to be properly integrated in a Mesh network.

Additionally, several critical features and functionalities (such as those related to security) may heavily rely on a correct integration of qualified protocol stacks into complete end-product software solutions, and it is necessary to rerun associated test cases on the final firmware to confirm that hardware and software modules external to the qualified stacks work properly to maintain the intended behaviors.

## 3.5 LE Audio

Low Energy (LE) Audio application profiles may specify configurations and settings of parameters and procedures that are defined in lower-level specifications. The objective of testing a Bluetooth LE Audio Application Profile is to enable wireless audio products that achieve application interoperability.

Currently, the Core specification has no method for the Host to set some of the required Controller behavior over HCI, meaning that the application profile relies solely on what the Controller chooses.

The only way to ensure that a given Host/Profile Layer with a given Controller can actually meet the LE Audio application profile requirements is to add IOPT testing because the BAP profile and Controller might very well be qualified independently, and the key is that when combined into a Core Complete design, all the design elements work together to meet said requirements.

## 3.6 Test Strategy

The test objectives are to verify the supported profiles and services of the IUT and enable interoperability between Bluetooth Hosts on different devices. The testing approach covers requirements associated with SDP records, GATT database records, and Mesh Composition data in the corresponding specification and matches these to the support of the IUT as described in the ICS. Any defined test herein is applicable to the IUT if the ICS logical expression defined in the Test Case Mapping Table (TCMT) evaluates to true.

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

This Test Suite contains Valid Behavior (BV) tests complemented with Invalid Behavior (BI) tests where required.

This Test Suite uses table-driven test cases that are defined in other TS documents for GATT-based services, traditional profiles, and Mesh protocol that build on a generic test case structure defined in the GATT TS [8], the MESH TS [9], and the SDP TS [10].

The generic test case structure of the GATT TS is referred to as Generic GATT Integrated Tests (GGIT). The generic test case structure of the SDP TS is referred to as Generic SDP Integrated Tests (GSIT).

# 4 Test cases (TC)

## 4.1 Introduction

### 4.1.1 Test case identification conventions

Test cases are assigned unique identifiers per the conventions in [5]. The convention used here is: **<IOPT>/<spec abbreviation>/<IUT role>/**<class>/**<feat>**/<func>/<subfunc>/<cap>/**<xx>-<nn>-<y>**.

| **Identifier Abbreviation** | **IOPT Identifier <IOPT>** |
|---|---|
| IOPT | Interoperable Product Testing Test Suite |
| **Identifier Abbreviation** | **Spec Identifier <spec abbreviation>** |
| The abbreviations for the respective X2Core specifications are used in this position; to avoid this becoming an exceedingly long list, they are not explicitly listed here. | |
| **Identifier Abbreviation** | **Role Identifier <IUT role>** |
| The abbreviations for the roles in the X2Core specifications are used in this position; to avoid this becoming an exceedingly long list, they are not explicitly listed here. | |
| **Identifier Abbreviation** | **Reference Identifier <GGIT test group>** |
| SGGIT | Server Generic GATT Integrated Tests |
| **Identifier Abbreviation** | **Feature Identifier <feat>** |
| COD | Class-of-Device |
| GATTDB | GATT database verification |
| SDP | Validate SDP Record |
| SDPR | SDP record verification |
| SFC | SDP Future Compatibility |

*Table 4.1: IOPT TC feature naming conventions*

### 4.1.2 Conformance

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

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

Such tests may verify:

- That claimed capabilities may be used in any order and any number of repetitions not excluded by the specification
- That capabilities enabled by the implementations are sustained over durations expected by the use case
- That the implementation gracefully handles any quantity of data expected by the use case
- That in cases where more than one valid interpretation of the specification exists, the implementation complies with at least one interpretation and gracefully handles other interpretations
- That the implementation is immune to attempted security exploits

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

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

### 4.1.3 Pass/Fail verdict conventions

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

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

## 4.2 Class of Device

### IOPT/SR/COD/BV-01-I [Class-of-Device]

- Test Purpose

  Verify that the IUT transmits a Class of Device pattern matching claimed profiles and roles.

- Reference

  [1] GAP 3.2.4

  [2] Class of Device

- Initial Condition
  - The ICS statement for implemented profiles and roles is known to the Lower Tester.
  - The IUT is acting in the Baseband role as described in Table 4.2 for the supported profile(s) and role(s) as listed in the table that the IUT claims support. For example, if the IUT only supports profile and role pairs in the IUT as Baseband Central role row, (e.g., PAN - PANU role, BAP - Unicast Client role, CCP - Call Control Server role, and CAP - Initiator role), then the IUT executes this test case using the IUT as Central in terms of test steps and initial conditions.
  - If the IUT is Peripheral:
    - The IUT is in either General or Limited discoverable mode.
    - The Lower Tester is Central and initiator of the inquiry procedure.
  - If the IUT is Central:
    - The Lower Tester is in Page Scan mode.
    - The IUT is initiator of the Page procedure.

- Test Procedure

  1. Perform either alternative 1A or 1B depending on the IUT's supported profile and role pairing.

     Alternative 1A (The IUT supports at least 1 profile and role pairing in the Peripheral row of Table 4.2.):

     1A.1 The IUT is Baseband Peripheral. The Lower Tester sends inquiry request messages (ID-packets) after the Upper Tester has ordered the IUT to go into a discoverable mode.

     Alternative 1B (The IUT supports only profile and role pairings in the Central row of Table 4.2.):

     1B.1 The IUT is Baseband Central. The IUT sends paging request messages (ID-packets) to the Lower Tester after the Upper Tester has ordered the IUT to initiate the connection establishment procedure.

| **IUT Baseband role** | **Supported profile – supported role** |
|---|---|
| Peripheral | 3DSP - 3DD role, A2DP - Sink role, A2DP - Source role, AVRCP - Controller role, BPP - Printer role, DUN - Gateway role, FTP - Server role, GNSS - Server role, HCRP - Server role, HFP - HF role, HID v1.1 or later - HID Device role, HSP - HS role, OPP - Server role, PAN - GN role, PAN - NAP role, SAP - Server role, SYNC - IrMC Server role, VDP - Sink role, VDP - Source role, BAP - Unicast Server role (ASCS Server, PACS Server), BAP - Broadcast Sink role (PACS Server), BAP - Scan Delegator role (BASS Server), CAP - Acceptor role, CAP - Commander role, VCP - Volume Renderer role, MICP - Microphone Device role, CCP - Call Control Client role, MCP - Media Control Client role |
| Central | PAN - PANU role, SYNC - IrMC Client role, BAP - Unicast Client role, BAP - Broadcast Assistant role, CAP - Initiator role, VCP - Volume Controller role, MICP - Microphone Controller role, CCP - Call Control Server role, MCP - Media Control Server role |

*Table 4.2: IUT Baseband role for Class-of-Device tests*

- Expected Outcome

  Pass verdict

  In Step 1A.1, the IUT answers an inquiry request from the Lower Tester with the FHS packet.

  In Step 1B.1, the Lower Tester answers a paging request from the IUT with page response messages (ID-packets), and the IUT responds with page response messages (FHS packets) containing the Class of Device field.

  The Class of Device field is properly formatted according to [2].

  The Major Service Class, Major Device Class, and Minor Device Class bit patterns have valid values, and it is confirmed by the user that the values obtained by the Lower Tester are expected.

  In addition, the following profile-specific requirements are verified by the Lower Tester:

  - For an IUT supporting the 3DSP 3DD role, a warning is displayed if any of the following bits are not set (requirement applies only to legacy Proximity Association):
    - Either the bit corresponding to "Capturing" in the Major Service Class part of the Class of Device field or no bits are specified in the Major Service Class part of the Class of Device field (value of 00000000000b)

    - The bits corresponding to “Audio/Video” in the Major Device Class part of the Class of Device field
    - The bits corresponding to “Video Display and Loud Speaker” in the Minor Device Class part of the Class of Device field
- For an IUT supporting the A2DP Sink role:
    - The bit corresponding to “Rendering” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the A2DP Source role:
    - The bit corresponding to “Capturing” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the AVRCP Controller role, a warning is displayed if any of the following bits are not set (requirement only applies to stand-alone remote controllers):
    - The bits corresponding to “Peripheral” in the Major Device Class part of the Class of Device field
    - The bits corresponding to “Remote Control” in the Minor Device Class part of the Class of Device field
- For an IUT supporting the BPP Printer role:
    - The bits corresponding to “Rendering” and “Object Transfer” in the Major Service Class part of the Class of Device field are set.
    - If the bits corresponding to “Imaging” in the Major Device Class part of the Class of Device field are set, then the “Printer” bit is set in the Minor Device Class part of the Class of Device field.
- For an IUT supporting the DUN Gateway role:
    - The bits corresponding to “Telephony” and “Networking” in the Major Service Class part of the Class of Device field are set.
- For an IUT supporting the FTP Server role:
    - The bit corresponding to “Object Transfer” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the GNSS Server role:
    - The bit corresponding to “Positioning” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the HCRP Server role:
    - The bits corresponding to “Rendering” and/or “Capturing” in the Major Service Class part of the Class of Device field are set.
    - If the bits corresponding to “Imaging” in the Major Device Class part of the Class of Device field are set, then the “Printer” and/or “Scanner” bits are set in the Minor Device Class part of the Class of Device field.
- For an IUT supporting the HFP HF role:
    - The bit corresponding to “Audio” in the Major Service Class part of the Class of Device field is set.

- For an IUT supporting the HID v1.1 or later HID Device role, a warning is displayed if any of the following bits are not set (requirement applies only to devices supporting only the HID profile):
    - The bits corresponding to “Peripheral” in the Major Device Class part of the Class of Device field
    - The bits 6 and 7 in the Minor Device Class part of the Class of Device field correspond to the type of HID device implemented (i.e., mouse, keyboard, or combo mouse/keyboard devices)
- For an IUT supporting the HSP HS role:
    - The bit corresponding to “Audio” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the OPP Server role:
    - The bit corresponding to “Object Transfer” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the PAN GN, NAP, or PANU role:
    - The bit corresponding to “Networking” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the SAP Server role:
    - The bit corresponding to “Telephony” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the SYNC IrMC Client or IrMC Server role:
    - The bit corresponding to “Object Transfer” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the VDP Sink role:
    - The bit corresponding to “Rendering” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting the VDP Source role:
    - The bit corresponding to “Capturing” in the Major Service Class part of the Class of Device field is set.
- For an IUT supporting Audio Input Control Service (AICS), Audio Stream Control Service (ASCS), Broadcast Audio Scan Service (BASS), Common Audio Service (CAS), Media Control Service (MCS), Generic Media Control Service (GMCS), Microphone Control Service (MICS), Published Audio Capabilities Service (PACS), Telephone Bearer Service (TBS), Generic Telephone Bearer Service (GTBS), Volume Control Service (VCS), or Volume Offset Control Service (VOCS) over the BR/EDR transport:
    - The bit corresponding to “LE audio” in the Major Service Class part of the Class of Device field is set.

- Notes

  The Limited Discoverable service class bit is set if the limited discoverable mode is used.

## 4.3 Traditional specification IOPT tests

This section defines the IOPT test procedures that integrate various Generic SDP Integrated Tests (GSIT) TCIDs that are required to be executed for each applicable Traditional profile supported by the IUT.

### 4.3.1 IOPT SDPR Server tests

- Test Purpose

  Verify that the SDP record is present and contains all the attributes required by the profile according to Table 4.3.

- Reference

  See Table 4.3

- Initial Condition
  - The IUT is discoverable and connectable and any actions to expose the target SDP record have been taken.
  - An L2CAP connection for SDP exists between the IUT and the Lower Tester.

- Test Case Configuration

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/3DSP/3DD/SDPR/BV-01-I [SDP Record – 3DSP 3DD] | [78] 10.4.1<br>[77] | 3DSP/3DD/SGSIT/SERR/BV-01-C | Baseline |
| | | 3DSP/3DD/SGSIT/ATTR/BV-01-C | Baseline |
| | | 3DSP/3DD/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/3DSP/3DG/SDPR/BV-02-I [SDP Record – 3DSP 3DG] | [78] 10.4.2<br>[77] | 3DSP/3DG/SGSIT/SERR/BV-01-C | Baseline |
| | | 3DSP/3DG/SGSIT/ATTR/BV-01-C | Baseline |
| | | 3DSP/3DG/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/A2DP/SRC/SDPR/BV-01-I [SDP Record – Source role] | [74] 5.3<br>[73] | A2DP/SRC/SGSIT/SERR/BV-01-C | Baseline |
| | | A2DP/SRC/SGSIT/ATTR/BV-01-C | Baseline |
| | | A2DP/SRC/SGSIT/ATTR/BV-02-C | Baseline IF A2DP 1/1 AND A2DP 2a/2 |
| | | A2DP/SRC/SGSIT/ATTR/BV-03-C | Baseline IF A2DP 1/1 AND A2DP 2a/3 |
| | | A2DP/SRC/SGSIT/ATTR/BV-04-C | Baseline IF A2DP 1/1 AND A2DP 2a/4 |
| | | A2DP/SRC/SGSIT/ATTR/BV-05-C | Additional |
| | | A2DP/SRC/SGSIT/OFFS/BV-01-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | A2DP/SRC/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/A2DP/SNK/SDPR/BV-01-I [SDP Record – Sink role] | [74] 5.3<br>[73] | A2DP/SNK/SGSIT/SERR/BV-01-C | Baseline |
| | | A2DP/SNK/SGSIT/ATTR/BV-01-C | Baseline |
| | | A2DP/SNK/SGSIT/ATTR/BV-02-C | Baseline IF A2DP 1/2 AND A2DP 7a/2 |
| | | A2DP/SNK/SGSIT/ATTR/BV-03-C | Baseline IF A2DP 1/2 AND A2DP 7a/3 |
| | | A2DP/SNK/SGSIT/ATTR/BV-04-C | Baseline IF A2DP 1/2 AND A2DP 7a/4 |
| | | A2DP/SNK/SGSIT/ATTR/BV-05-C | Additional |
| | | A2DP/SNK/SGSIT/OFFS/BV-03-C | Additional |
| | | A2DP/SNK/SGSIT/OFFS/BV-04-C | Additional |
| IOPT/AVRCP/CT/SDPR/BV-01-I [SDP Record – Controller role] | [76] 8<br>[75] | AVRCP/CT/SGSIT/SERR/BV-01-C | Baseline |
| | | AVRCP/CT/SGSIT/ATTR/BV-01-C | Baseline |
| | | AVRCP/CT/SGSIT/ATTR/BV-02-C | Baseline IF AVRCP 2/32 |
| | | AVRCP/CT/SGSIT/ATTR/BV-03-C | Baseline IF AVRCP 1/1 AND AVRCP 2b/4 |
| | | AVRCP/CT/SGSIT/ATTR/BV-04-C | Baseline IF AVRCP 1/1 AND AVRCP 2b/5 |
| | | AVRCP/CT/SGSIT/ATTR/BV-05-C | Baseline |
| | | AVRCP/CT/SGSIT/OFFS/BV-01-C | Additional |
| | | AVRCP/CT/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/AVRCP/TG/SDPR/BV-01-I [SDP Record – Target role] | [76] 8<br>[75] | AVRCP/TG/SGSIT/SERR/BV-01-C | Baseline |
| | | AVRCP/TG/SGSIT/ATTR/BV-01-C | Baseline |
| | | AVRCP/TG/SGSIT/ATTR/BV-02-C | Baseline IF AVRCP 7/42 |
| | | AVRCP/TG/SGSIT/ATTR/BV-03-C | Baseline IF AVRCP 7/67 |
| | | AVRCP/TG/SGSIT/ATTR/BV-04-C | Baseline IF AVRCP 1/2 AND AVRCP 7b/4 |
| | | AVRCP/TG/SGSIT/ATTR/BV-05-C | Baseline IF AVRCP 1/2 AND AVRCP 7b/5 |
| | | AVRCP/TG/SGSIT/ATTR/BV-06-C | Baseline |
| | | AVRCP/TG/SGSIT/OFFS/BV-03-C | Additional |
| | | AVRCP/TG/SGSIT/OFFS/BV-04-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/BIP/IPSR/SDPR/BV-01-I [SDP Record – BIP IPSR role] | [80] 6.1.1<br>[79] | BIP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-02-C | Baseline IF BIP 0/3 AND BIP 1/2 |
| | | BIP/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-06-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-07-C | Baseline IF BIP 1/2 AND BIP 39/3 |
| | | BIP/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/BIP/IPLR/SDPR/BV-01-I [SDP Record – BIP IPLR role] | [80] 6.1.1<br>[79] | BIP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-02-C | Baseline IF BIP 0/3 AND BIP 1/4 |
| | | BIP/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-06-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-07-C | Baseline IF BIP 1/4 AND BIP 39/3 |
| | | BIP/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/BIP/AIPR/SDPR/BV-01-I [SDP Record – BIP AIPR role] | [80] 6.1.1<br>[79] 6 | BIP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-02-C | Baseline IF BIP 0/3 AND BIP 1/6 |
| | | BIP/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-06-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-07-C | Baseline IF BIP 1/6 AND BIP 39/3 |
| | | BIP/SR/SGSIT/OFFS/BV-01-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/BIP/AAR/SDPR/BV-01-I [SDP Record – BIP AAR role] | [80] 6.1.1<br>[79] | BIP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-02-C | Baseline IF BIP 0/3 AND BIP 1/8 |
| | | BIP/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-06-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-07-C | Baseline IF BIP 1/8 AND BIP 39/3 |
| | | BIP/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/BIP/RCR/SDPR/BV-01-I [SDP Record – BIP RCR role] | [80] 6.1.1<br>[79] | BIP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-02-C | Baseline IF BIP 0/3 AND BIP 1/10 |
| | | BIP/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-06-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-07-C | Baseline IF BIP 1/10 AND BIP 39/3 |
| | | BIP/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/BIP/RDR/SDPR/BV-01-I [SDP Record – BIP RDR role] | [80] 6.1.1<br>[79] | BIP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-02-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-06-C | Baseline |
| | | BIP/SR/SGSIT/ATTR/BV-07-C | Baseline IF BIP 1/12 AND BIP 39/3 |
| | | BIP/SR/SGSIT/OFFS/BV-01-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/BIP/AIPI/SDPR/BV-01-I [SDP Record – BIP AIPI role] | [80] 6.1.2<br>[79] | BIP/AIPI/SGSIT/SERR/BV-02-C | Baseline |
| | | BIP/AIPI/SGSIT/ATTR/BV-08-C | Baseline |
| | | BIP/AIPI/SGSIT/ATTR/BV-09-C | Baseline |
| | | BIP/AIPI/SGSIT/ATTR/BV-10-C | Baseline IF BIP 0/3 AND BIP 1/5 |
| | | BIP/AIPI/SGSIT/ATTR/BV-11-C | Baseline |
| | | BIP/AIPI/SGSIT/ATTR/BV-12-C | Baseline IF BIP 1/5 AND BIP 39/3 |
| | | BIP/AIPI/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/BIP/AAI/SDPR/BV-01-I [SDP Record – BIP AAI role] | [80] 6.1.3<br>[79] | BIP/AAI/SGSIT/SERR/BV-03-C | Baseline |
| | | BIP/AAI/SGSIT/ATTR/BV-13-C | Baseline |
| | | BIP/AAI/SGSIT/ATTR/BV-14-C | Baseline |
| | | BIP/AAI/SGSIT/ATTR/BV-15-C | Baseline IF BIP 0/3 AND BIP 1/7 |
| | | BIP/AAI/SGSIT/ATTR/BV-16-C | Baseline |
| | | BIP/AAI/SGSIT/ATTR/BV-17-C | Baseline IF BIP 1/7 AND BIP 39/3 |
| | | BIP/AAI/SGSIT/OFFS/BV-03-C | Additional |
| IOPT/BPP/PR/SDPR/BV-01-I [SDP Record – BPP PR role] | [82] 12.1.1, 12.1.3<br>[81] | BPP/PR/SGSIT/SERR/BV-01-C | Baseline |
| | | BPP/PR/SGSIT/SERR/BV-02-C | Baseline IF BPP 2/30 |
| | | BPP/PR/SGSIT/SERR/BV-04-C | Baseline IF BPP 2/32 |
| | | BPP/PR/SGSIT/ATTR/BV-01-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-02-C | Baseline |
| | | BPP/PR/SGSIT/ATTR/BV-03-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-04-C | Baseline |
| | | BPP/PR/SGSIT/ATTR/BV-05-C | Baseline |
| | | BPP/PR/SGSIT/ATTR/BV-06-C | Baseline |
| | | BPP/PR/SGSIT/ATTR/BV-07-C | Baseline |
| | | BPP/PR/SGSIT/ATTR/BV-08-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-09-C | Baseline |
| | | BPP/PR/SGSIT/ATTR/BV-10-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-11-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | BPP/PR/SGSIT/ATTR/BV-12-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-13-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-14-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-15-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-16-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-17-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-18-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-19-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-20-C | Baseline IF BPP 2/33 |
| | | BPP/PR/SGSIT/ATTR/BV-21-C | Baseline IF BPP 2/34 |
| | | BPP/PR/SGSIT/ATTR/BV-22-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-27-C | Additional |
| | | BPP/PR/SGSIT/ATTR/BV-28-C | Baseline IF BPP 2/32 |
| | | BPP/PR/SGSIT/ATTR/BV-29-C | Baseline IF BPP 2/32 |
| | | BPP/PR/SGSIT/ATTR/BV-30-C | Baseline IF BPP 2/32 |
| | | BPP/PR/SGSIT/OFFS/BV-01-C | Additional |
| | | BPP/PR/SGSIT/OFFS/BV-03-C | Additional |
| IOPT/BPP/SD/SDPR/BV-01-I [SDP Record – BPP SD role] | [82] 12.1.2<br>[81] | BPP/SD/SGSIT/SERR/BV-03-C | Baseline IF BPP 3/20 |
| | | BPP/SD/SGSIT/ATTR/BV-23-C | Additional |
| | | BPP/SD/SGSIT/ATTR/BV-24-C | Baseline IF BPP 3/20 |
| | | BPP/SD/SGSIT/ATTR/BV-25-C | Additional |
| | | BPP/SD/SGSIT/ATTR/BV-26-C | Baseline IF BPP 3/46 |
| | | BPP/SD/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/CTN/CCE/SDPR/BV-01-I [SDP Record – CTN CCE role] | [84] 7.3<br>[83] | CTN/CCE/SGSIT/SERR/BV-01-C | Baseline |
| | | CTN/CCE/SGSIT/ATTR/BV-01-C | Baseline |
| | | CTN/CCE/SGSIT/ATTR/BV-02-C | Baseline |
| | | CTN/CCE/SGSIT/ATTR/BV-03-C | Baseline |
| | | CTN/CCE/SGSIT/OFFS/BV-01-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/CTN/CSE/SDPR/BV-01-I [SDP Record – CTN CSE role] | [84] 7.2<br>[83] | CTN/CSE/SGSIT/SERR/BV-02-C | Baseline |
| | | CTN/CSE/SGSIT/ATTR/BV-04-C | Baseline |
| | | CTN/CSE/SGSIT/ATTR/BV-05-C | Baseline |
| | | CTN/CSE/SGSIT/ATTR/BV-06-C | Baseline |
| | | CTN/CSE/SGSIT/ATTR/BV-07-C | Baseline |
| | | CTN/CSE/SGSIT/OFFS/BV-02-C | Baseline |
| IOPT/DID/SR/SDPR/BV-01-I [SDP Record – Device ID] | [11] 4, 5.1 – 5.11<br>[111] | DID/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | DID/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | DID/SR/SGSIT/ATTR/BV-02-C | Baseline |
| | | DID/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | DID/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | DID/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | DID/SR/SGSIT/ATTR/BV-06-C | Baseline |
| | | DID/SR/SGSIT/ATTR/BV-07-C | Baseline IF DID 1/7 |
| | | DID/SR/SGSIT/ATTR/BV-08-C | Baseline IF DID 1/9 |
| | | DID/SR/SGSIT/OFFS/BV-01-C | Baseline IF DID 1/8 |
| IOPT/DUN/GW/SDPR/BV-01-I [SDP Record – DUN GW role] | [86] 5.3<br>[85] | DUN/GW/SGSIT/SERR/BV-01-C | Baseline |
| | | DUN/GW/SGSIT/SERR/BV-02-C | Additional |
| | | DUN/GW/SGSIT/ATTR/BV-01-C | Baseline |
| | | DUN/GW/SGSIT/ATTR/BV-02-C | Additional |
| | | DUN/GW/SGSIT/ATTR/BV-03-C | Baseline IF DUN 0/1 AND DUN 1/1 |
| | | DUN/GW/SGSIT/ATTR/BV-04-C | Baseline IF DUN 0/2 AND DUN 1/1 |
| | | DUN/GW/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/FTP/SR/SDPR/BV-01-I [SDP Record – FTP SR role] | [88] 6<br>[87] | FTP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | FTP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | FTP/SR/SGSIT/ATTR/BV-02-C | Additional |
| | | FTP/SR/SGSIT/ATTR/BV-03-C | Baseline IF FTP 2/26 |
| | | FTP/SR/SGSIT/OFFS/BV-01-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/GNSS/SR/SDPR/BV-01-I [SDP Record – GNSS SR role] | [112] 4.4<br>[113] | GNSS/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | GNSS/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | GNSS/SR/SGSIT/ATTR/BV-02-C | Baseline |
| | | GNSS/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | GNSS/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/HCRP/SR/SDPR/BV-01-I [SDP Record – HCRP SR role] | [90] 7.1<br>[89] | HCRP/SR/SGSIT/SERR/BV-01-C | Baseline IF HCRP 2/7 |
| | | HCRP/SR/SGSIT/SERR/BV-02-C | Baseline IF HCRP 2/8 |
| | | HCRP/SR/SGSIT/ATTR/BV-01-C | Additional |
| | | HCRP/SR/SGSIT/ATTR/BV-02-C | Baseline |
| | | HCRP/SR/SGSIT/ATTR/BV-03-C | Additional |
| | | HCRP/SR/SGSIT/ATTR/BV-04-C | Baseline |
| | | HCRP/SR/SGSIT/ATTR/BV-05-C | Additional |
| | | HCRP/SR/SGSIT/ATTR/BV-06-C | Additional |
| | | HCRP/SR/SGSIT/ATTR/BV-07-C | Additional |
| | | HCRP/SR/SGSIT/ATTR/BV-08-C | Additional |
| | | HCRP/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/HCRP/CL/SDPR/BV-01-I [SDP Record – HCRP CL role] | [90] 7.2<br>[89] | HCRP/CL/SGSIT/SERR/BV-01-C | Baseline IF HCRP 3/13 AND HCRP 3/7 |
| | | HCRP/CL/SGSIT/SERR/BV-02-C | Baseline IF HCRP 3/13 AND HCRP 3/8 |
| | | HCRP/CL/SGSIT/ATTR/BV-01-C | Baseline |
| | | HCRP/CL/SGSIT/ATTR/BV-02-C | Additional |
| | | HCRP/CL/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/HDP/SRC/SDPR/BV-01-I [SDP Record – HDP SRC role] | [92] 3.3, 3.4, 5.1, 5.2.2 – 5.2.11<br>[91] | HDP/SRC/SGSIT/SERR/BV-01-C | Baseline |
| | | HDP/SRC/SGSIT/ATTR/BV-01-C | Baseline IF HDP 4/12 |
| | | HDP/SRC/SGSIT/ATTR/BV-02-C | Baseline |
| | | HDP/SRC/SGSIT/ATTR/BV-03-C | Baseline |
| | | HDP/SRC/SGSIT/ATTR/BV-04-C | Baseline |
| | | HDP/SRC/SGSIT/ATTR/BV-05-C | Baseline |
| | | HDP/SRC/SGSIT/ATTR/BV-06-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | HDP/SRC/SGSIT/ATTR/BV-07-C | Baseline |
| | | HDP/SRC/SGSIT/OFFS/BV-01-C | Baseline IF HDP 4/6 |
| | | HDP/SRC/SGSIT/OFFS/BV-02-C | Baseline IF HDP 4/7 |
| | | HDP/SRC/SGSIT/OFFS/BV-03-C | Baseline IF HDP 4/8 |
| IOPT/HDP/SNK/SDPR/BV-01-I [SDP Record – HDP SNK role] | [92] 3.3, 3.4, 5.1, 5.2.3 – 5.2.11<br>[91] | HDP/SNK/SGSIT/SERR/BV-01-C | Baseline |
| | | HDP/SNK/SGSIT/ATTR/BV-01-C | Baseline IF HDP 10/12 |
| | | HDP/SNK/SGSIT/ATTR/BV-02-C | Baseline |
| | | HDP/SNK/SGSIT/ATTR/BV-03-C | Baseline |
| | | HDP/SNK/SGSIT/ATTR/BV-04-C | Baseline |
| | | HDP/SNK/SGSIT/ATTR/BV-05-C | Baseline |
| | | HDP/SNK/SGSIT/ATTR/BV-06-C | Baseline |
| | | HDP/SNK/SGSIT/ATTR/BV-07-C | Baseline |
| | | HDP/SNK/SGSIT/OFFS/BV-01-C | Baseline IF HDP 10/6 |
| | | HDP/SNK/SGSIT/OFFS/BV-02-C | Baseline IF HDP 10/7 |
| | | HDP/SNK/SGSIT/OFFS/BV-03-C | Baseline IF HDP 10/8 |
| IOPT/HFP/HF/SDPR/BV-01-I [SDP Record – Hands-Free role] | [12] 5.3<br>[115] 6.3<br>[114] | HFP/HF/SGSIT/SERR/BV-01-C | Baseline |
| | | HFP/HF/SGSIT/ATTR/BV-01-C | Baseline |
| | | HFP/HF/SGSIT/ATTR/BV-02-C | Baseline IF HFP 0b/3 AND HFP 1/2 |
| | | HFP/HF/SGSIT/ATTR/BV-03-C | Baseline IF HFP 0b/4 AND HFP 1/2 |
| | | HFP/HF/SGSIT/ATTR/BV-04-C | Baseline IF HFP 0b/5 AND HFP 1/2 |
| | | HFP/HF/SGSIT/ATTR/BV-05-C | Baseline |
| | | HFP/HF/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/HFP/AG/SDPR/BV-01-I [SDP Record – Audio Gateway role] | [12] 5.3<br>[115] 6.3<br>[114] | HFP/AG/SGSIT/SERR/BV-01-C | Baseline |
| | | HFP/AG/SGSIT/ATTR/BV-01-C | Baseline |
| | | HFP/AG/SGSIT/ATTR/BV-02-C | Baseline IF HFP 0a/3 AND HFP 1/1 |
| | | HFP/AG/SGSIT/ATTR/BV-03-C | Baseline IF HFP 0a/4 AND HFP 1/1 |
| | | HFP/AG/SGSIT/ATTR/BV-04-C | Baseline IF HFP 0a/5 AND HFP 1/1 |
| | | HFP/AG/SGSIT/ATTR/BV-05-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | HFP/AG/SGSIT/ATTR/BV-06-C | Baseline |
| | | HFP/AG/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/HID/DEV/SDPR/BV-01-I [SDP Record – HID Device role] | [13] 7.10, 7.11.1 - 7.11.14<br>[116] | HID/DEV/SGSIT/SERR/BV-01-C | Baseline |
| | | HID/DEV/SGSIT/SERR/BV-02-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-01-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-02-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-03-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-04-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-05-C | Additional |
| | | HID/DEV/SGSIT/ATTR/BV-06-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-07-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-08-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-09-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-10-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-11-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-12-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-13-C | Additional |
| | | HID/DEV/SGSIT/ATTR/BV-14-C | Additional |
| | | HID/DEV/SGSIT/ATTR/BV-15-C | Additional |
| | | HID/DEV/SGSIT/ATTR/BV-16-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-17-C | Additional |
| | | HID/DEV/SGSIT/ATTR/BV-18-C | Additional |
| | | HID/DEV/SGSIT/ATTR/BV-19-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-20-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-21-C | Baseline |
| | | HID/DEV/SGSIT/ATTR/BV-22-C | Baseline |
| | | HID/DEV/SGSIT/OFFS/BV-01-C | Additional |
| | | HID/DEV/SGSIT/OFFS/BV-02-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | HID/DEV/SGSIT/OFFS/BV-03-C | Additional |
| IOPT/HID11/DEV/SDPR/BV-01-I [SDP Record – HID11 Device role] | [14] 4.1.1, 5.3.3 [117] | HID11/DEV/SGSIT/SERR/BV-01-C | Baseline |
| | | HID11/DEV/SGSIT/SERR/BV-02-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-01-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-02-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-03-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-04-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-05-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-06-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-07-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-08-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-09-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-10-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-11-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-12-C | Additional |
| | | HID11/DEV/SGSIT/ATTR/BV-13-C | Additional |
| | | HID11/DEV/SGSIT/ATTR/BV-14-C | Additional |
| | | HID11/DEV/SGSIT/ATTR/BV-15-C | Additional |
| | | HID11/DEV/SGSIT/ATTR/BV-16-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-17-C | Additional |
| | | HID11/DEV/SGSIT/ATTR/BV-18-C | Additional |
| | | HID11/DEV/SGSIT/ATTR/BV-19-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-20-C | Baseline |
| | | HID11/DEV/SGSIT/ATTR/BV-21-C | Baseline |
| | | HID11/DEV/SGSIT/OFFS/BV-01-C | Additional |
| | | HID11/DEV/SGSIT/OFFS/BV-02-C | Additional |
| | | HID11/DEV/SGSIT/OFFS/BV-03-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/HSP/HS/SDPR/BV-01-I [SDP Record – HSP HS role] | [94] 5.3<br>[93] | HSP/HS/SGSIT/SERR/BV-02-C | Baseline IF HSP 0/2 AND HSP 1/2 |
| | | HSP/HS/SGSIT/ATTR/BV-01-C | Baseline |
| | | HSP/HS/SGSIT/ATTR/BV-03-C | Baseline IF HSP 0/2 AND HSP 1/2 |
| | | HSP/HS/SGSIT/ATTR/BV-04-C | Additional |
| | | HSP/HS/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/HSP/AG/SDPR/BV-01-I [SDP Record – HSP AG role] | [94] 5.3<br>[93] | HSP/AG/SGSIT/SERR/BV-03-C | Baseline |
| | | HSP/AG/SGSIT/ATTR/BV-05-C | Baseline |
| | | HSP/AG/SGSIT/ATTR/BV-07-C | Baseline IF HSP 0/2 AND HSP 1/1 |
| | | HSP/AG/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/MAP/MSE/SDPR/BV-01-I [SDP Record – MSE role] | [96] 7.1.1<br>[95] | MAP/MSE/SGSIT/SERR/BV-01-C | Baseline |
| | | MAP/MSE/SGSIT/ATTR/BV-01-C | Baseline |
| | | MAP/MSE/SGSIT/ATTR/BV-02-C | Baseline IF MAP 0/5 AND MAP 1/1 |
| | | MAP/MSE/SGSIT/ATTR/BV-03-C | Baseline IF MAP 0/6 AND MAP 1/1 |
| | | MAP/MSE/SGSIT/ATTR/BV-04-C | Baseline |
| | | MAP/MSE/SGSIT/ATTR/BV-05-C | Baseline |
| | | MAP/MSE/SGSIT/ATTR/BV-06-C | Baseline |
| | | MAP/MSE/SGSIT/ATTR/BV-07-C | Baseline |
| | | MAP/MSE/SGSIT/OFFS/BV-01-C | Baseline |
| IOPT/MAP/MCE/SDPR/BV-01-I [SDP Record – MCE role] | [96] 7.1.2<br>[95] | MAP/MCE/SGSIT/SERR/BV-02-C | Baseline |
| | | MAP/MCE/SGSIT/ATTR/BV-08-C | Baseline |
| | | MAP/MCE/SGSIT/ATTR/BV-09-C | Baseline IF MAP 0/5 AND MAP 1/2 |
| | | MAP/MCE/SGSIT/ATTR/BV-10-C | Baseline IF MAP 0/6 AND MAP 1/2 |
| | | MAP/MCE/SGSIT/ATTR/BV-11-C | Baseline |
| | | MAP/MCE/SGSIT/ATTR/BV-12-C | Baseline |
| | | MAP/MCE/SGSIT/OFFS/BV-02-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/MPS/SR/SDPR/BV-01-I [SDP Record – MPS] | [118] 6.1<br>[119] | MPS/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | MPS/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | MPS/SR/SGSIT/ATTR/BV-02-C | Baseline |
| | | MPS/SR/SGSIT/ATTR/BV-03-C | Baseline IF MPS 4/2 AND MPS 10/1 |
| | | MPS/SR/SGSIT/ATTR/BV-04-C | Baseline |
| IOPT/OPP/SR/SDPR/BV-01-I [SDP Record – Object Push] | [98] 6.1<br>[97] | OPP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | OPP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | OPP/SR/SGSIT/ATTR/BV-02-C | Additional |
| | | OPP/SR/SGSIT/ATTR/BV-03-C | Baseline IF OPP 2b/2 AND OPP 1/2 |
| | | OPP/SR/SGSIT/ATTR/BV-04-C | Baseline IF OPP 1/2 AND OPP 3/19 |
| | | OPP/SR/SGSIT/ATTR/BV-05-C | Baseline |
| | | OPP/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/PAN/NAP/SDPR/BV-01-I [SDP Record – NAP role] | [100] 8.1.1<br>[99] | PAN/NAP/SGSIT/SERR/BV-01-C | Baseline |
| | | PAN/NAP/SGSIT/ATTR/BV-01-C | Baseline |
| | | PAN/NAP/SGSIT/ATTR/BV-02-C | Baseline |
| | | PAN/NAP/SGSIT/ATTR/BV-03-C | Additional |
| | | PAN/NAP/SGSIT/ATTR/BV-04-C | Baseline |
| | | PAN/NAP/SGSIT/ATTR/BV-05-C | Baseline |
| | | PAN/NAP/SGSIT/ATTR/BV-06-C | Baseline |
| | | PAN/NAP/SGSIT/ATTR/BV-07-C | Baseline |
| | | PAN/NAP/SGSIT/ATTR/BV-08-C | Additional |
| | | PAN/NAP/SGSIT/ATTR/BV-09-C | Additional |
| | | PAN/NAP/SGSIT/OFFS/BV-01-C | Baseline |
| | | PAN/NAP/SGSIT/OFFS/BV-02-C | Baseline |
| IOPT/PAN/GN/SDPR/BV-01-I [SDP Record – GN role] | [100] 8.1.2<br>[99] | PAN/GN/SGSIT/SERR/BV-02-C | Baseline |
| | | PAN/GN/SGSIT/ATTR/BV-10-C | Baseline |
| | | PAN/GN/SGSIT/ATTR/BV-11-C | Baseline |
| | | PAN/GN/SGSIT/ATTR/BV-12-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | PAN/GN/SGSIT/ATTR/BV-13-C | Baseline |
| | | PAN/GN/SGSIT/ATTR/BV-14-C | Baseline |
| | | PAN/GN/SGSIT/ATTR/BV-15-C | Additional |
| | | PAN/GN/SGSIT/ATTR/BV-16-C | Additional |
| | | PAN/GN/SGSIT/OFFS/BV-03-C | Baseline |
| | | PAN/GN/SGSIT/OFFS/BV-04-C | Baseline |
| IOPT/PAN/PANU/SDPR/BV-01-I [SDP Record – PANU role] | [100] 8.1.3 [99] | PAN/PANU/SGSIT/SERR/BV-03-C | Baseline |
| | | PAN/PANU/SGSIT/ATTR/BV-17-C | Baseline |
| | | PAN/PANU/SGSIT/ATTR/BV-18-C | Baseline |
| | | PAN/PANU/SGSIT/ATTR/BV-19-C | Additional |
| | | PAN/PANU/SGSIT/ATTR/BV-20-C | Baseline |
| | | PAN/PANU/SGSIT/ATTR/BV-21-C | Baseline |
| | | PAN/PANU/SGSIT/OFFS/BV-05-C | Baseline |
| | | PAN/PANU/SGSIT/OFFS/BV-06-C | Baseline |
| IOPT/PBAP/PCE/SDPR/BV-01-I [SDP Record – PCE role] | [102] 7.1.1 [101] | PBAP/PCE/SGSIT/SERR/BV-01-C | Baseline |
| | | PBAP/PCE/SGSIT/ATTR/BV-01-C | Baseline IF PBAP 1/1 AND PBAP 2a/2 |
| | | PBAP/PCE/SGSIT/ATTR/BV-02-C | Baseline IF PBAP 1/1 AND PBAP 2a/3 |
| | | PBAP/PCE/SGSIT/OFFS/BV-01-C | Baseline |
| IOPT/PBAP/PSE/SDPR/BV-01-I [SDP Record – PSE role] | [102] 7.1.2 [101] | PBAP/PSE/SGSIT/SERR/BV-01-C | Baseline |
| | | PBAP/PSE/SGSIT/ATTR/BV-01-C | Baseline |
| | | PBAP/PSE/SGSIT/ATTR/BV-02-C | Baseline IF PBAP 1/2 AND PBAP 9a/2 |
| | | PBAP/PSE/SGSIT/ATTR/BV-03-C | Baseline IF PBAP 1/2 AND PBAP 9a/3 |
| | | PBAP/PSE/SGSIT/ATTR/BV-04-C | Baseline |
| | | PBAP/PSE/SGSIT/ATTR/BV-05-C | Baseline IF PBAP 26/1 |
| | | PBAP/PSE/SGSIT/ATTR/BV-06-C | Baseline IF PBAP 1/2 AND NOT PBAP 9a/2 |
| | | PBAP/PSE/SGSIT/OFFS/BV-01-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/SAP/SR/SDPR/BV-01-I [SDP Record – SIM Access] | [104] 6<br>[103] | SAP/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | SAP/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | SAP/SR/SGSIT/ATTR/BV-02-C | Baseline |
| | | SAP/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/SPP/DEVB/SDPR/BV-01-I [SDP Record – Serial Port] | [106] 6.1<br>[105] | SPP/DEVB/SGSIT/SERR/BV-01-C | Baseline |
| | | SPP/DEVB/SGSIT/ATTR/BV-01-C | Baseline |
| | | SPP/DEVB/SGSIT/ATTR/BV-02-C | Baseline IF SPP 0/2 AND SPP 2/1b |
| | | SPP/DEVB/SGSIT/OFFS/BV-01-C | Baseline IF SPP 4/5 |
| IOPT/SYNC/SR/SDPR/BV-01-I [SDP Record – SYNC Server] | [108] 7.1.1<br>[107] | SYNC/SR/SGSIT/SERR/BV-01-C | Baseline |
| | | SYNC/SR/SGSIT/ATTR/BV-01-C | Baseline |
| | | SYNC/SR/SGSIT/ATTR/BV-02-C | Additional |
| | | SYNC/SR/SGSIT/ATTR/BV-03-C | Baseline |
| | | SYNC/SR/SGSIT/OFFS/BV-01-C | Additional |
| IOPT/SYNC/CL/SDPR/BV-01-I [SDP Record – SYNC Client] | [108] 7.1.2<br>[107] | SYNC/CL/SGSIT/SERR/BV-02-C | Baseline |
| | | SYNC/CL/SGSIT/ATTR/BV-04-C | Baseline |
| | | SYNC/CL/SGSIT/ATTR/BV-05-C | Additional |
| | | SYNC/CL/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/VDP/SRC/SDPR/BV-01-I [SDP Record – VDP Source] | [110] 5.3<br>[109] | VDP/SRC/SGSIT/SERR/BV-01-C | Baseline |
| | | VDP/SRC/SGSIT/ATTR/BV-01-C | Baseline |
| | | VDP/SRC/SGSIT/ATTR/BV-03-C | Baseline IF VDP 0/2 AND VDP 1/1 |
| | | VDP/SRC/SGSIT/OFFS/BV-01-C | Additional |
| | | VDP/SRC/SGSIT/OFFS/BV-02-C | Additional |
| IOPT/VDP/SNK/SDPR/BV-01-I [SDP Record – VDP Sink] | [110] 5.3<br>[109] | VDP/SNK/SGSIT/SERR/BV-02-C | Baseline |
| | | VDP/SNK/SGSIT/ATTR/BV-04-C | Baseline |
| | | VDP/SNK/SGSIT/ATTR/BV-06-C | Baseline IF VDP 0/2 AND VDP 1/2 |
| | | VDP/SNK/SGSIT/OFFS/BV-03-C | Additional |
| | | VDP/SNK/SGSIT/OFFS/BV-04-C | Additional |

*Table 4.3: IOPT SDPR tests*

- Test Procedure

  1. The Lower Tester searches for the service record and the attributes in the generic SDP-based test case listed in the test case column of Table 4.3 from the referenced Test Suite (the Generic SDP Integrated Tests and structure are defined in Section 6.3, Server test procedures (SGSIT), in [10].)

- Expected Outcome

  Pass verdict

  If the referenced SGSIT test case is “Baseline” then the requested attribute ID is present and the types and any required values are as expected.

  If the referenced SGSIT test case is “Baseline IF” followed by an ICS reference or a Boolean logic expression of ICS items, then the requested attribute ID is only present if the corresponding ICS selections are fulfilled and the types and any required values are as expected.

  If the referenced SGSIT test case is “Additional” then the requested attribute ID does not need to be present in the IUT’s SDP record. If it is present, the types and any required values are as expected.

### 4.3.2 IOPT SFC Server tests

- Test Purpose

  Verify that the IUT is able to successfully connect to the Lower Tester with a future (not yet adopted) profile version exposed in its SDP record according to Table 4.4.

- Reference

  See Table 4.4

- Initial Condition

  - The Lower Tester satisfies the initial conditions of the referenced test cases as specified in the individual TS documents.

- Test Case Configuration

| TCID | Reference | Test Cases |
|---|---|---|
| IOPT/A2DP/SRC/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is A2DP Source] | [74] 5.3<br>[73] | A2DP/SRC/CGSIT/SFC/BV-01-C |
| IOPT/A2DP/SNK/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is A2DP Sink] | [74] 5.3<br>[73] | A2DP/SNK/CGSIT/SFC/BV-02-C |

| TCID | Reference | Test Cases |
|---|---|---|
| IOPT/AVRCP/CT/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is AVRCP Controller] | [76] 8<br>[75] | AVRCP/CT/CGSIT/SFC/BV-01-C |
| IOPT/AVRCP/TG/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is AVRCP Target] | [76] 8<br>[75] | AVRCP/TG/CGSIT/SFC/BV-02-C |
| IOPT/BIP/IPSI/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is BIP IPSI role] | [80] 6.2<br>[79] | BIP/IPSI/CGSIT/SFC/BV-01-C |
| IOPT/BPP/SD/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is BPP Sender] | [82] 5.1.1, 12, 16<br>[81] | BPP/SD/CGSIT/SFC/BV-01-C |
| IOPT/CTN/CCE/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is CTN CCE role] | [84] 3.5, 7<br>[83] | CTN/CCE/CGSIT/SFC/BV-01-C |
| IOPT/DUN/DT/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is DUN DT role] | [86] 5<br>[85] | DUN/DT/CGSIT/SFC/BV-01-C |
| IOPT/FTP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is FTP CL role] | [88] 6<br>[87] | FTP/CL/CGSIT/SFC/BV-01-C |
| IOPT/GNSS/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is GNSS CL role] | [112] 4.4<br>[113] | GNSS/CL/CGSIT/SFC/BV-01-C |
| IOPT/HCRP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HCRP CL role for Print] | [90] 3, 7, 11<br>[89] | HCRP/CL/CGSIT/SFC/BV-01-C |
| IOPT/HCRP/CL/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is HCRP CL role for Scan] | [90] 3, 7, 11<br>[89] | HCRP/CL/CGSIT/SFC/BV-02-C |
| IOPT/HDP/SRC/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HDP SRC role] | [92] 3.3, 3.4, 5.1, 5.2.3 – 5.2.11<br>[91] | HDP/SRC/CGSIT/SFC/BV-01-C |
| IOPT/HDP/SNK/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HDP SNK role] | [92] 3.3, 3.4, 5.1, 5.2.3 – 5.2.11<br>[91] | HDP/SNK/CGSIT/SFC/BV-01-C |
| IOPT/HFP/HF/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HFP HF] | [12] 5.3<br>[115] 6.3<br>[114] | HFP/HF/CGSIT/SFC/BV-01-C |

| TCID | Reference | Test Cases |
|---|---|---|
| IOPT/HFP/AG/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HFP AG] | [12] 5.3<br>[115] 6.3<br>[114] | HFP/AG/CGSIT/SFC/BV-01-C |
| IOPT/HID/HOS/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HID Host] | [13] 7.11.14<br>[116] | HID/HOS/CGSIT/SFC/BV-01-C |
| IOPT/HID11/HOS/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HID11 Host] | [14] 5.3.1<br>[117] | HID11/HOS/CGSIT/SFC/BV-01-C |
| IOPT/HSP/HS/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is HSP HS role] | [94] 5.3<br>[93] | HSP/HS/CGSIT/SFC/BV-01-C |
| IOPT/HSP/AG/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is HSP AG role] | [94] 5.3<br>[93] | HSP/AG/CGSIT/SFC/BV-02-C |
| IOPT/MAP/MCE/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is MAP MCE] | [96] 7.1, 7.1.1<br>[95] | MAP/MCE/CGSIT/SFC/BV-01-C |
| IOPT/OPP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is OPP Push Client] | [98] 6.1, 7<br>[97] | OPP/CL/CGSIT/SFC/BV-01-C |
| IOPT/PAN/PANU/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is PANU] | [100] 8<br>[99] | PAN/PANU/CGSIT/SFC/BV-01-C |
| IOPT/PBAP/PCE/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is PBAP PCE] | [102] 6.1, 7<br>[101] | PBAP/PCE/CGSIT/SFC/BV-01-C |
| IOPT/SAP/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is SAP Client] | [104] 6<br>[103] | SAP/CL/CGSIT/SFC/BV-01-C |
| IOPT/SPP/DEVA/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is SPP DevA] | [106] 6.1<br>[105] | SPP/DEVA/CGSIT/SFC/BV-01-C |
| IOPT/SYNC/CL/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is SYNC Client] | [108] 7.1.1<br>[107] | SYNC/CL/CGSIT/SFC/BV-01-C |
| IOPT/VDP/SRC/CGSIT/SFC/BV-01-I [SDP Future Compatibility – IUT is VDP Source] | [110] 5.3<br>[109] | VDP/SRC/CGSIT/SFC/BV-01-C |
| IOPT/VDP/SNK/CGSIT/SFC/BV-02-I [SDP Future Compatibility – IUT is VDP Sink] | [110] 5.3<br>[109] | VDP/SNK/CGSIT/SFC/BV-02-C |

*Table 4.4: IOPT SFC tests*

- Test Procedure

  1. The IUT executes the test listed in the test case column of Table 4.4 from the referenced Test Suite (the Generic SDP Integrated Tests and structure are defined in Section 6.4, Client test procedures (CGSIT), in [10].)

- Expected Outcome

  Pass verdict

  For every test case the pass verdict is the same as that in the referenced test case.

## 4.4 GATT-based and GATT-based Audio specification IOPT tests

This section defines the IOPT test procedures that integrate various Generic SDP Integrated Tests (GSIT) TCIDs that are required to be executed for each applicable GATT-based and GATT-based audio service supported by the IUT.

### 4.4.1 IOPT GATTDB tests

- Test Purpose

  Verify that the GATT service declaration is present and contains all the characteristics and their descriptors required by the service according to Table 4.5.

- Reference

  See Table 4.5

- Initial Condition

  - The transport and L2CAP channel are set up according to the preambles in [8].

- Test Case Configuration

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| **GATT-Based Audio** | | | |
| IOPT/AICS/SR/GATTDB/BV-01-I [GATT service verification – AICS] | [15] 4.3 | AICS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | AICS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | AICS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | AICS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | AICS/SR/SGGIT/CHA/BV-04-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | AICS/SR/SGGIT/CHA/BV-05-C | Baseline |
| | | AICS/SR/SGGIT/CHA/BV-06-C | Baseline |
| IOPT/ASCS/SR/GATTDB/BV-01-I [GATT-based service SDP record verification – ASCS] | [21] 4.3 | ASCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | ASCS/SR/SGGIT/CHA/BV-01-C | Baseline IF ASCS 5/1 |
| | | ASCS/SR/SGGIT/CHA/BV-02-C | Baseline IF ASCS 5/2 |
| | | ASCS/SR/SGGIT/CHA/BV-03-C | Baseline |
| IOPT/BASS/SR/GATTDB/BV-01-I [GATT service verification – BASS] | [23] 4.3 | BASS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | BASS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | BASS/SR/SGGIT/CHA/BV-02-C | Baseline |
| IOPT/CAS/SR/GATTDB/BV-01-I [GATT service verification – CAS] | [24] 4.2 | CAS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | CAS/SR/SGGIT/SER/BV-02-C | Additional |
| IOPT/CSIS/SR/GATTDB/BV-01-I [GATT service verification – CSIS] | [25] 4.3<br>[123] 4.3 | CSIS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | CSIS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | CSIS/SR/SGGIT/CHA/BV-02-C | Baseline IF CSIS 2/2 |
| | | CSIS/SR/SGGIT/CHA/BV-03-C | Baseline IF CSIS 2/3 |
| | | CSIS/SR/SGGIT/CHA/BV-04-C | Baseline IF CSIS 2/4 |
| | | CSIS/SR/SGGIT/CHA/BV-07-C | Baseline IF CSIS 2/8 AND NOT CSIS 2a/3 |
| | | CSIS/SR/SGGIT/CHA/BV-08-C | Baseline IF CSIS 2a/3 |
| IOPT/GMCS/SR/GATTDB/BV-01-I [GATT service verification – GMCS] | [20] 4.3 | GMCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-02-C | Baseline IF MCS 22/5 |
| | | GMCS/SR/SGGIT/CHA/BV-03-C | Baseline IF MCS 22/6 |
| | | GMCS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-05-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-06-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-07-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-08-C | Baseline IF MCS 22/12 |
| | | GMCS/SR/SGGIT/CHA/BV-09-C | Baseline IF MCS 22/13 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | GMCS/SR/SGGIT/CHA/BV-10-C | Baseline IF MCS 22/14 |
| | | GMCS/SR/SGGIT/CHA/BV-11-C | Baseline IF MCS 22/15 |
| | | GMCS/SR/SGGIT/CHA/BV-12-C | Baseline IF MCS 22/16 |
| | | GMCS/SR/SGGIT/CHA/BV-13-C | Baseline IF MCS 22/17 |
| | | GMCS/SR/SGGIT/CHA/BV-14-C | Baseline IF MCS 22/18 |
| | | GMCS/SR/SGGIT/CHA/BV-15-C | Baseline IF MCS 22/19 |
| | | GMCS/SR/SGGIT/CHA/BV-16-C | Baseline IF MCS 22/20 |
| | | GMCS/SR/SGGIT/CHA/BV-17-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-18-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-19-C | Baseline |
| | | GMCS/SR/SGGIT/CHA/BV-20-C | Baseline IF MCS 22/25 |
| | | GMCS/SR/SGGIT/CHA/BV-21-C | Baseline IF MCS 22/24 |
| | | GMCS/SR/SGGIT/CHA/BV-22-C | Baseline |
| IOPT/GTBS/SR/GATTDB/BV-01-I [GATT service verification – GTBS] | [19] 4.3 | GTBS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-05-C | Baseline IF TBS 22/9 |
| | | GTBS/SR/SGGIT/CHA/BV-06-C | Baseline IF TBS 22/10 |
| | | GTBS/SR/SGGIT/CHA/BV-07-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-08-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-09-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-10-C | Baseline IF TBS 22/15 |
| | | GTBS/SR/SGGIT/CHA/BV-11-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-12-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-13-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-14-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | GTBS/SR/SGGIT/CHA/BV-15-C | Baseline |
| | | GTBS/SR/SGGIT/CHA/BV-16-C | Baseline IF TBS 22/24 |
| IOPT/GVAS/SR/GATTDB/BV-01-I [GATT service verification – GVAS] | [126] 4.3 | GVAS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | GVAS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | GVAS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | GVAS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | GVAS/SR/SGGIT/CHA/BV-04-C | Baseline IF VAS 3/5 AND NOT VAS 3/7 |
| | | GVAS/SR/SGGIT/CHA/BV-05-C | Baseline IF VAS 3/5 AND VAS 3/7 |
| | | GVAS/SR/SGGIT/CHA/BV-06-C | Baseline |
| | | GVAS/SR/SGGIT/CHA/BV-07-C | Baseline |
| | | GVAS/SR/SGGIT/CHA/BV-08-C | Baseline IF VAS 3/10 |
| | | GVAS/SR/SGGIT/CHA/BV-09-C | Baseline IF VAS 3/11 |
| | | GVAS/SR/SGGIT/CHA/BV-10-C | Baseline |
| IOPT/HAS/SR/GATTDB/BV-01-I [GATT service verification – HAS] | [49] 4.3 | HAS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | HAS/SR/SGGIT/CHA/BV-01-C | Baseline IF HAS 3/1 AND HAS 3/1a |
| | | HAS/SR/SGGIT/CHA/BV-02-C | Baseline IF HAS 3/1 AND NOT HAS 3/1a |
| | | HAS/SR/SGGIT/CHA/BV-03-C | Baseline IF HAS 3/2 |
| | | HAS/SR/SGGIT/CHA/BV-04-C | Baseline |
| IOPT/MCS/SR/GATTDB/BV-01-I [GATT service verification – MCS] | [20] 4.3 | MCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-02-C | Baseline IF MCS 2/5 |
| | | MCS/SR/SGGIT/CHA/BV-03-C | Baseline IF MCS 2/6 |
| | | MCS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-05-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-06-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-07-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-08-C | Baseline IF MCS 2/12 |
| | | MCS/SR/SGGIT/CHA/BV-09-C | Baseline IF MCS 2/13 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | MCS/SR/SGGIT/CHA/BV-10-C | Baseline IF MCS 2/14 |
| | | MCS/SR/SGGIT/CHA/BV-11-C | Baseline IF MCS 2/15 |
| | | MCS/SR/SGGIT/CHA/BV-12-C | Baseline IF MCS 2/16 |
| | | MCS/SR/SGGIT/CHA/BV-13-C | Baseline IF MCS 2/17 |
| | | MCS/SR/SGGIT/CHA/BV-14-C | Baseline IF MCS 2/18 |
| | | MCS/SR/SGGIT/CHA/BV-15-C | Baseline IF MCS 2/19 |
| | | MCS/SR/SGGIT/CHA/BV-16-C | Baseline IF MCS 2/20 |
| | | MCS/SR/SGGIT/CHA/BV-17-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-18-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-19-C | Baseline |
| | | MCS/SR/SGGIT/CHA/BV-20-C | Baseline IF MCS 2/25 |
| | | MCS/SR/SGGIT/CHA/BV-21-C | Baseline IF MCS 2/24 |
| | | MCS/SR/SGGIT/CHA/BV-22-C | Baseline |
| IOPT/MICS/SR/GATTDB/BV-01-I [GATT service verification – MICS] | [18] 4.3 | MICS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | MICS/SR/SGGIT/CHA/BV-01-C | Baseline |
| IOPT/PACS/SR/GATTDB/BV-01-I [GATT service verification – PACS] | [22] 4.3 | PACS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | PACS/SR/SGGIT/CHA/BV-01-C | Baseline IF PACS 3/1 |
| | | PACS/SR/SGGIT/CHA/BV-02-C | Baseline IF PACS 3/2 |
| | | PACS/SR/SGGIT/CHA/BV-03-C | Baseline IF PACS 3/3 |
| | | PACS/SR/SGGIT/CHA/BV-04-C | Baseline IF PACS 3/4 |
| | | PACS/SR/SGGIT/CHA/BV-05-C | Baseline |
| | | PACS/SR/SGGIT/CHA/BV-06-C | Baseline |
| IOPT/TBS/SR/GATTDB/BV-01-I [GATT service verification – TBS] | [19] 4.3 | TBS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-05-C | Baseline IF TBS 2/9 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | TBS/SR/SGGIT/CHA/BV-06-C | Baseline IF TBS 2/10 |
| | | TBS/SR/SGGIT/CHA/BV-07-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-08-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-09-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-10-C | Baseline IF TBS 2/15 |
| | | TBS/SR/SGGIT/CHA/BV-11-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-12-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-13-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-14-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-15-C | Baseline |
| | | TBS/SR/SGGIT/CHA/BV-16-C | Baseline IF TBS 2/24 |
| IOPT/TMAP/SR/GATTDB/BV-01-I [GATT service verification – TMAP] | [72] 4.5.2 | TMAP/SR/SGGIT/SER/BV-01-C | Baseline |
| | | TMAP/SR/SGGIT/CHA/BV-01-C | Baseline |
| IOPT/VAS/SR/GATTDB/BV-01-I [GATT service verification – VAS] | [126] 4.3 | VAS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | VAS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | VAS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | VAS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | VAS/SR/SGGIT/CHA/BV-04-C | Baseline IF VAS 12/5 AND NOT VAS 12/7 |
| | | VAS/SR/SGGIT/CHA/BV-05-C | Baseline IF VAS 12/5 AND VAS 12/7 |
| | | VAS/SR/SGGIT/CHA/BV-06-C | Baseline |
| | | VAS/SR/SGGIT/CHA/BV-07-C | Baseline |
| | | VAS/SR/SGGIT/CHA/BV-08-C | Baseline IF VAS 12/10 |
| | | VAS/SR/SGGIT/CHA/BV-09-C | Baseline IF VAS 12/11 |
| | | VAS/SR/SGGIT/CHA/BV-10-C | Baseline |
| IOPT/VCS/SR/GATTDB/BV-01-I [GATT service verification – VCS] | [17] 4.3 | VCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | VCS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | VCS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | VCS/SR/SGGIT/CHA/BV-03-C | Baseline IF VCS 2/4 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | VCS/SR/SGGIT/CHA/BV-04-C | Baseline IF NOT VCS 2/4 |
| IOPT/VOCS/SR/GATTDB/BV-01-I [GATT service verification – VOCS] | [16] 4.3 | VOCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | VOCS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | VOCS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | VOCS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | VOCS/SR/SGGIT/CHA/BV-04-C | Baseline |
| **GATT Based** | | | |
| IOPT/ACS/SR/GATTDB/BV-01-I [GATT service verification – ACS] | [26] 4.3 | ACS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | ACS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | ACS/SR/SGGIT/CHA/BV-03-C | Baseline IF ACS 6/3 |
| | | ACS/SR/SGGIT/CHA/BV-04-C | Baseline IF ACS 6/4 |
| | | ACS/SR/SGGIT/CHA/BV-05-C | Baseline IF ACS 6/5 |
| | | ACS/SR/SGGIT/CHA/BV-06-C | Baseline |
| IOPT/AIOS/SR/GATTDB/BV-01-I [GATT service verification – AIOS] | [27] 4.3 | AIOS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | AIOS/SR/SGGIT/CHA/BV-01-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-02-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-03-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-04-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-05-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-06-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-07-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-08-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-09-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-10-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-11-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-12-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-13-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-14-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | AIOS/SR/SGGIT/CHA/BV-15-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-16-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-17-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-18-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-19-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-20-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-21-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-22-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-23-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-24-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-25-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-26-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-27-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-28-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-29-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-30-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-31-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-32-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-33-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-34-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-35-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-36-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-37-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-38-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-39-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-40-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-41-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-42-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | AIOS/SR/SGGIT/CHA/BV-43-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-44-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-45-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-46-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-47-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-48-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-49-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-50-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-51-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-52-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-53-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-54-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-55-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-56-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-57-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-58-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-59-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-60-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-61-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-62-C | Additional |
| | | AIOS/SR/SGGIT/CHA/BV-63-C | Additional |
| IOPT/ANS/SR/GATTDB/BV-01-I [GATT service verification – ANS] | [28] 4.3 | ANS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | ANS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | ANS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | ANS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | ANS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | ANS/SR/SGGIT/CHA/BV-05-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/BAS/SR/GATTDB/BV-01-I [GATT service verification – BAS] | [29] 4.3 | BAS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | BAS/SR/SGGIT/CHA/BV-01-C | Baseline IF BAS 2/3 AND NOT BAS 2a/1 |
| | | BAS/SR/SGGIT/CHA/BV-02-C | Additional |
| | | BAS/SR/SGGIT/CHA/BV-03-C | Additional |
| | | BAS/SR/SGGIT/CHA/BV-04-C | Baseline IF BAS 2/15 |
| | | BAS/SR/SGGIT/CHA/BV-05-C | Additional |
| | | BAS/SR/SGGIT/CHA/BV-06-C | Additional |
| | | BAS/SR/SGGIT/CHA/BV-07-C | Additional |
| | | BAS/SR/SGGIT/CHA/BV-08-C | Baseline IF BAS 2/17 |
| | | BAS/SR/SGGIT/CHA/BV-09-C | Baseline IF BAS 2/11 |
| | | BAS/SR/SGGIT/CHA/BV-10-C | Baseline IF BAS 2/12 |
| | | BAS/SR/SGGIT/CHA/BV-11-C | Baseline IF BAS 2/13 |
| | | BAS/SR/SGGIT/CHA/BV-12-C | Baseline IF BAS 2/14 |
| | | BAS/SR/SGGIT/CHA/BV-13-C | Baseline IF BAS 2/3 AND BAS 2a/1 |
| | | BAS/SR/SGGIT/CHA/BV-14-C | Additional |
| | | BAS/SR/SGGIT/CHA/BV-15-C | Additional |
| | | BAS/SR/SGGIT/CHA/BV-16-C | Baseline IF BAS 2/8 AND BAS 2a/9 |
| | | BAS/SR/SGGIT/CHA/BV-17-C | Baseline IF BAS 2/9 AND BAS 2a/10 |
| | | BAS/SR/SGGIT/CHA/BV-18-C | Baseline IF BAS 2/10 AND BAS 2a/11 |
| | | BAS/SR/SGGIT/CHA/BV-19-C | Baseline IF BAS 2/16 AND BAS 2a/18 |
| | | BAS/SR/SGGIT/CHA/BV-20-C | Baseline IF BAS 2/7 AND BAS 2a/8 AND BAS 2a/16 |
| IOPT/BCS/SR/GATTDB/BV-01-I [GATT service verification – BCS] | [30] 4.3 | BCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | BCS/SR/SGGIT/CHA/BV-01-C | Baseline IF BCS 4/1 AND NOT BCS 4a/2 |
| | | BCS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | BCS/SR/SGGIT/CHA/BV-03-C | Baseline IF BCS 4a/2 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/BLS/SEN/GATTDB/BV-01-I [GATT service verification – BLS] | [33] 4.3 | BLS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | BLS/SEN/SGGIT/CHA/BV-02-C | Baseline |
| | | BLS/SEN/SGGIT/CHA/BV-03-C | Baseline IF BLS 2/7 |
| | | BLS/SEN/SGGIT/CHA/BV-04-C | Baseline IF BLS 2/12 AND NOT BLS 2d/2 |
| | | BLS/SEN/SGGIT/CHA/BV-05-C | Baseline IF BLS 2/20 |
| | | BLS/SEN/SGGIT/CHA/BV-06-C | Baseline IF BLS 2/21 |
| | | BLS/SEN/SGGIT/CHA/BV-07-C | Baseline IF BLS 2/22 |
| | | BLS/SEN/SGGIT/CHA/BV-08-C | Baseline IF BLS 2/23 |
| | | BLS/SEN/SGGIT/CHA/BV-09-C | Baseline IF BLS 2d/2 |
| IOPT/BMS/SEN/GATTDB/BV-01-I [GATT service verification – BMS] | [31] 4.3 | BMS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | BMS/SEN/SGGIT/CHA/BV-03-C | Baseline IF BMS 2a/2 AND NOT BMS 2b/2 |
| | | BMS/SEN/SGGIT/CHA/BV-04-C | Baseline IF BMS 2a/1 AND NOT BMS 2a/3 |
| | | BMS/SEN/SGGIT/CHA/BV-05-C | Baseline IF BMS 2a/3 |
| | | BMS/SEN/SGGIT/CHA/BV-06-C | Baseline IF BMS 2b/2 |
| IOPT/BSS/SEN/GATTDB/BV-01-I [GATT service verification – BSS] | [32] 4.3 | BSS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | BSS/SEN/SGGIT/CHA/BV-01-C | Baseline |
| | | BSS/SEN/SGGIT/CHA/BV-02-C | Baseline |
| | | BSS/SEN/SGGIT/DES/BV-01-C | Baseline |
| IOPT/CGMS/SEN/GATTDB/BV-01-I [GATT service verification – CGMS] | [34] 4.3 | CGMS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | CGMS/SEN/SGGIT/CHA/BV-02-C | Baseline |
| | | CGMS/SEN/SGGIT/CHA/BV-03-C | Baseline IF CGMS 3/11 AND NOT CGMS 2a/2 |
| | | CGMS/SEN/SGGIT/CHA/BV-04-C | Baseline |
| | | CGMS/SEN/SGGIT/CHA/BV-05-C | Baseline |
| | | CGMS/SEN/SGGIT/CHA/BV-06-C | Baseline |
| | | CGMS/SEN/SGGIT/CHA/BV-07-C | Baseline |
| | | CGMS/SEN/SGGIT/CHA/BV-08-C | Baseline |
| | | CGMS/SEN/SGGIT/CHA/BV-09-C | Baseline IF CGMS 3/11 AND CGMS 2a/2 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/CPS/SEN/GATTDB/BV-01-I [GATT service verification – CPS] | [35] 4.3 | CPS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | CPS/SEN/SGGIT/CHA/BV-01-C | Baseline IF CPS 3/2 AND NOT CPS 3b/2 |
| | | CPS/SEN/SGGIT/CHA/BV-02-C | Baseline IF CPS 3/3 AND NOT CPS 2/21 |
| | | CPS/SEN/SGGIT/CHA/BV-03-C | Baseline |
| | | CPS/SEN/SGGIT/CHA/BV-04-C | Baseline IF CPS 3/17 |
| | | CPS/SEN/SGGIT/CHA/BV-05-C | Baseline IF CPS 3/34 |
| | | CPS/SEN/SGGIT/CHA/BV-06-C | Baseline IF CPS 2/21 |
| | | CPS/SEN/SGGIT/CHA/BV-07-C | Baseline IF CPS 3b/2 |
| IOPT/CSCS/SEN/GATTDB/BV-01-I [GATT service verification – CSCS] | [37] 4.3 | CSCS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | CSCS/SEN/SGGIT/CHA/BV-01-C | Baseline |
| | | CSCS/SEN/SGGIT/CHA/BV-02-C | Baseline IF CSCS 3/6 AND NOT CSCS 3a/2 |
| | | CSCS/SEN/SGGIT/CHA/BV-03-C | Baseline IF CSCS 3/7 |
| | | CSCS/SEN/SGGIT/CHA/BV-04-C | Baseline IF CSCS 3/8 |
| | | CSCS/SEN/SGGIT/CHA/BV-05-C | Baseline IF CSCS 3a/2 |
| IOPT/CTES/SR/GATTDB/BV-01-I [GATT service verification – CTES] | [38] 4.3 | CTES/SR/SGGIT/SER/BV-01-C | Baseline |
| | | CTES/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | CTES/SR/SGGIT/CHA/BV-02-C | Baseline IF CSCS 3/1 |
| | | CTES/SR/SGGIT/CHA/BV-03-C | Baseline IF CSCS 3/1 |
| | | CTES/SR/SGGIT/CHA/BV-04-C | Baseline IF CSCS 3/1 |
| | | CTES/SR/SGGIT/CHA/BV-05-C | Baseline IF CSCS 3/1 |
| | | CTES/SR/SGGIT/CHA/BV-06-C | Baseline IF CSCS 3/1 |
| IOPT/CTS/SR/GATTDB/BV-01-I [GATT service verification – CTS] | [39] 4.3 | CTS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | CTS/SR/SGGIT/CHA/BV-01-C | Baseline IF CTS 3/2 AND NOT CTS 3/16 |
| | | CTS/SR/SGGIT/CHA/BV-02-C | Baseline IF CTS 3/2 AND CTS 3/16 |
| | | CTS/SR/SGGIT/CHA/BV-03-C | Baseline IF CTS 3/5 AND NOT CTS 3/17 |
| | | CTS/SR/SGGIT/CHA/BV-04-C | Baseline IF CTS 3/5 AND CTS 3/17 |
| | | CTS/SR/SGGIT/CHA/BV-05-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/CWS/SR/GATTDB/BV-01-I [GATT service verification – CWS] | [125] 4.3 | CWS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | CWS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | CWS/SR/SGGIT/CHA/BV-02-C | Baseline IF CWS 3/1 |
| | | CWS/SR/SGGIT/CHA/BV-03-C | Baseline IF CWS 3/1 |
| | | CWS/SR/SGGIT/CHA/BV-04-C | Baseline IF CWS 3/1 |
| | | CWS/SR/SGGIT/CHA/BV-05-C | Baseline IF CWS 3/1 |
| | | CWS/SR/SGGIT/CHA/BV-06-C | Baseline IF CWS 3/1 |
| | | CWS/SR/SGGIT/CHA/BV-07-C | Baseline IF CWS 3/1 |
| | | CWS/SR/SGGIT/CHA/BV-08-C | Baseline IF CWS 3/1 |
| | | CWS/SR/SGGIT/CHA/BV-09-C | Baseline |
| | | CWS/SR/SGGIT/CHA/BV-10-C | Baseline IF CWS 3/2 |
| IOPT/DIS/SR/GATTDB/BV-01-I [GATT service verification – DIS] | [40] 4.3 | DIS/SR/SGGIT/SER/BV-01-C | Baseline IF DIS 2/1 AND DIS 5/1 |
| | | DIS/SR/SGGIT/SER/BV-02-C | Baseline IF DIS 2/1 AND DIS 5/2 |
| | | DIS/SR/SGGIT/CHA/BV-01-C | Baseline IF DIS 2/2 |
| | | DIS/SR/SGGIT/CHA/BV-02-C | Baseline IF DIS 2/3 |
| | | DIS/SR/SGGIT/CHA/BV-03-C | Baseline IF DIS 2/4 |
| | | DIS/SR/SGGIT/CHA/BV-04-C | Baseline IF DIS 2/5 |
| | | DIS/SR/SGGIT/CHA/BV-05-C | Baseline IF DIS 2/6 |
| | | DIS/SR/SGGIT/CHA/BV-06-C | Baseline IF DIS 2/7 |
| | | DIS/SR/SGGIT/CHA/BV-07-C | Baseline IF DIS 2/8 |
| | | DIS/SR/SGGIT/CHA/BV-08-C | Baseline IF DIS 2/9 |
| | | DIS/SR/SGGIT/CHA/BV-09-C | Baseline IF DIS 2/11 |
| | | DIS/SR/SGGIT/CHA/BV-10-C | Baseline IF DIS 2/12 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/DTS/SR/GATTDB/BV-01-I [GATT service verification – DTS] | [41] 4.3 | DTS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | DTS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | DTS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | DTS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | DTS/SR/SGGIT/CHA/BV-05-C | Baseline IF DTS 3/6 |
| | | DTS/SR/SGGIT/CHA/BV-06-C | Baseline |
| | | DTS/SR/SGGIT/CHA/BV-07-C | Baseline IF DTS 3/7 |
| IOPT/EMCS/SR/GATTDB/BV-01-I [GATT service verification – EMCS] | [42] 4.3 | EMCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | EMCS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | EMCS/SR/SGGIT/CHA/BV-02-C | Baseline IF EMCS 3/3 AND NOT EMCS 3/4 |
| | | EMCS/SR/SGGIT/CHA/BV-03-C | Baseline IF EMCS 3/3 AND EMCS 3/4 |
| IOPT/ESLS/SR/GATTDB/BV-01-I [GATT service verification – ESLS] | [43] 4.3 | ESLS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | ESLS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | ESLS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | ESLS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | ESLS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | ESLS/SR/SGGIT/CHA/BV-05-C | Baseline IF ESLS 3/5 |
| | | ESLS/SR/SGGIT/CHA/BV-06-C | Baseline IF ESLS 3/6 |
| | | ESLS/SR/SGGIT/CHA/BV-07-C | Baseline IF ESLS 3/7 |
| | | ESLS/SR/SGGIT/CHA/BV-08-C | Baseline IF ESLS 3/8 |
| | | ESLS/SR/SGGIT/CHA/BV-09-C | Baseline |
| IOPT/ESS/SEN/GATTDB/BV-01-I [GATT service verification – ESS] | [44] 4.3 | ESS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | ESS/SEN/SGGIT/CHA/BV-01-C | Baseline IF ESS 8/1 |
| IOPT/ETS/SR/GATTDB/BV-01-I [GATT service verification – ETS] | [45] 4.3 | ETS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | ETS/SR/SGGIT/CHA/BV-03-C | Baseline IF ETS 4/1 AND NOT ETS 4/2 |
| | | ETS/SR/SGGIT/CHA/BV-04-C | Baseline IF ETS 4/2 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/FTMS/SR/GATTDB/BV-01-I [GATT service verification – FTMS] | [46] 4.3 | FTMS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | FTMS/SR/SGGIT/CHA/BV-01-C | Baseline IF FTMS 4/1 AND NOT FTMS 4a/2 |
| | | FTMS/SR/SGGIT/CHA/BV-02-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-03-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-04-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-05-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-06-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-07-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-08-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-09-C | Baseline IF FTMS 4/10 |
| | | FTMS/SR/SGGIT/CHA/BV-10-C | Baseline IF FTMS 4/11 |
| | | FTMS/SR/SGGIT/CHA/BV-11-C | Baseline IF FTMS 4/12 |
| | | FTMS/SR/SGGIT/CHA/BV-12-C | Baseline IF FTMS 4/13 |
| | | FTMS/SR/SGGIT/CHA/BV-13-C | Baseline IF FTMS 4/14 |
| | | FTMS/SR/SGGIT/CHA/BV-14-C | Additional |
| | | FTMS/SR/SGGIT/CHA/BV-15-C | Baseline IF FTMS 4/16 |
| | | FTMS/SR/SGGIT/CHA/BV-16-C | Baseline IF FTMS 4a/2 |
| IOPT/GHSS/SR/GATTDB/BV-01-I [GATT service verification – GHSS] | [47] 4.3 | GHSS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | GHSS/SR/SGGIT/CHA/BV-02-C | Additional |
| | | GHSS/SR/SGGIT/CHA/BV-03-C | Baseline IF GHSS 4/3 |
| | | GHSS/SR/SGGIT/CHA/BV-04-C | Baseline IF GHSS 4/8 |
| | | GHSS/SR/SGGIT/CHA/BV-05-C | Baseline IF GHSS 4/9 |
| | | GHSS/SR/SGGIT/CHA/BV-06-C | Baseline IF GHSS 4/16 |
| | | GHSS/SR/SGGIT/CHA/BV-07-C | Baseline IF GHSS 4/17 |
| | | GHSS/SR/SGGIT/CHA/BV-08-C | Baseline IF GHSS 4/11 |
| | | GHSS/SR/SGGIT/CHA/BV-09-C | Baseline IF GHSS 4/12 |
| | | GHSS/SR/SGGIT/CHA/BV-10-C | Baseline IF GHSS 4/13 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | GHSS/SR/SGGIT/CHA/BV-15-C | Baseline IF GHSS 4/18 |
| | | GHSS/SR/SGGIT/CHA/BV-16-C | Baseline IF GHSS 4/19 |
| | | GHSS/SR/SGGIT/DES/BV-11-C | Additional |
| | | GHSS/SR/SGGIT/DES/BV-12-C | Baseline IF GHSS 4/5 |
| | | GHSS/SR/SGGIT/DES/BV-13-C | Additional |
| IOPT/GLS/SEN/GATTDB/BV-01-I [GATT service verification – GLS] | [48] 4.3 | GLS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | GLS/SEN/SGGIT/CHA/BV-02-C | Baseline |
| | | GLS/SEN/SGGIT/CHA/BV-03-C | Baseline IF GLS 2/8 |
| | | GLS/SEN/SGGIT/CHA/BV-04-C | Baseline IF GLS 2/20 AND NOT GLS 2a/2 |
| | | GLS/SEN/SGGIT/CHA/BV-05-C | Baseline |
| | | GLS/SEN/SGGIT/CHA/BV-06-C | Baseline IF GLS 2/20 AND GLS 2a/2 |
| IOPT/HIDS/HD/GATTDB/BV-01-I [GATT service verification – HIDS] | [36] 4.3 | HIDS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | HIDS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | HIDS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | HIDS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | HIDS/SR/SGGIT/CHA/BV-04-C | Baseline IF HIDS 2/4 |
| | | HIDS/SR/SGGIT/CHA/BV-05-C | Baseline IF HID 2/2 |
| | | HIDS/SR/SGGIT/CHA/BV-06-C | Additional |
| | | HIDS/SR/SGGIT/CHA/BV-07-C | Baseline IF HIDS 2/2 |
| | | HIDS/SR/SGGIT/CHA/BV-08-C | Baseline IF HIDS 2/3 |
| | | HIDS/SR/SGGIT/CHA/BV-09-C | Additional |
| | | HIDS/SR/SGGIT/DES/BV-01-C | Additional |
| IOPT/HOGP/SR/GATTDB/BV-01-I [GATT service verification – HOGP] | [122] 4.3 | HOGP/HD/SGGIT/SER/BV-06-C | Baseline |
| | | HOGP/HD/SGGIT/CHA/BV-01-C | Baseline |
| | | HOGP/HD/SGGIT/CHA/BV-02-C | Baseline IF HOGP 1/1 AND HOGP 17/2 AND NOT HOGP 17/3 |
| | | HOGP/HD/SGGIT/CHA/BV-03-C | Baseline IF HOGP 1/1 AND HOGP 17/2 AND HOGP 17/3 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/HPS/SR/GATTDB/BV-01-I [GATT service verification – HPS] | [50] 4.3 | HPS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | HPS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | HPS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | HPS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | HPS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | HPS/SR/SGGIT/CHA/BV-05-C | Baseline |
| | | HPS/SR/SGGIT/CHA/BV-06-C | Baseline |
| IOPT/HRS/SEN/GATTDB/BV-01-I [GATT service verification – HRS] | [51] 4.3 | HRS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | HRS/SEN/SGGIT/CHA/BV-01-C | Baseline |
| | | HRS/SEN/SGGIT/CHA/BV-02-C | Additional |
| | | HRS/SEN/SGGIT/CHA/BV-03-C | Baseline IF HRS 2/5 |
| IOPT/HTS/SEN/GATTDB/BV-01-I [GATT service verification – HTS] | [52] 4.3 | HTS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | HTS/SEN/SGGIT/CHA/BV-01-C | Baseline |
| | | HTS/SEN/SGGIT/CHA/BV-02-C | Baseline IF HTS 2/3 |
| | | HTS/SEN/SGGIT/CHA/BV-03-C | Baseline IF HTS 2/4 |
| | | HTS/SEN/SGGIT/CHA/BV-04-C | Baseline IF HTS 2/5 AND NOT HTS 2/6 AND NOT HTS 2/7 |
| | | HTS/SEN/SGGIT/CHA/BV-05-C | Baseline IF HTS 2/5 AND HTS 2/6 AND NOT HTS 2/7 |
| | | HTS/SEN/SGGIT/CHA/BV-06-C | Baseline IF HTS 2/5 AND NOT HTS 2/6 AND HTS 2/7 |
| | | HTS/SEN/SGGIT/CHA/BV-07-C | Baseline IF HTS 2/5 AND HTS 2/6 AND HTS 2/7 |
| | | HTS/SEN/SGGIT/DES/BV-01-C | Baseline IF HTS 2/6 |
| IOPT/IAS/SR/GATTDB/BV-01-I [GATT service verification – IAS] | [53] 4.3 | IAS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | IAS/SR/SGGIT/CHA/BV-01-C | Baseline |
| IOPT/IDS/SEN/GATTDB/BV-01-I [GATT service verification – IDS] | [54] 4.3 | IDS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | IDS/SEN/SGGIT/CHA/BV-02-C | Baseline |
| | | IDS/SEN/SGGIT/CHA/BV-03-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | IDS/SEN/SGGIT/CHA/BV-04-C | Baseline |
| | | IDS/SEN/SGGIT/CHA/BV-05-C | Baseline IF IDS 2/5 AND NOT IDS 3a/1 |
| | | IDS/SEN/SGGIT/CHA/BV-06-C | Baseline |
| | | IDS/SEN/SGGIT/CHA/BV-07-C | Baseline IF IDS 2/7 |
| | | IDS/SEN/SGGIT/CHA/BV-08-C | Baseline IF IDS 2/8 |
| | | IDS/SEN/SGGIT/CHA/BV-09-C | Baseline IF IDS 2/9 |
| | | IDS/SEN/SGGIT/CHA/BV-10-C | Baseline IF IDS 2/10 |
| | | IDS/SEN/SGGIT/CHA/BV-11-C | Baseline IF IDS 2/5 AND IDS 3a/2 |
| IOPT/IMDS/SR/GATTDB/BV-01-I [GATT service verification – IMDS] | [120] 4.3 | IMDS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | IMDS/SR/SGGIT/CHA/BV-01-C | Baseline IF IMDS 4/3 |
| | | IMDS/SR/SGGIT/CHA/BV-02-C | Baseline IF IMDS 4/4 |
| | | IMDS/SR/SGGIT/CHA/BV-03-C | Baseline IF IMDS 4/5 AND NOT IMDS 4/6 |
| | | IMDS/SR/SGGIT/CHA/BV-04-C | Baseline IF IMDS 4/5 AND IMDS 4/6 |
| | | IMDS/SR/SGGIT/CHA/BV-05-C | Baseline IF IMDS 4/7 AND NOT IMDS 4/8 |
| | | IMDS/SR/SGGIT/CHA/BV-06-C | Baseline IF IMDS 4/7 AND IMDS 4/8 |
| | | IMDS/SR/SGGIT/CHA/BV-07-C | Baseline IF IMDS 4/9 AND NOT (IMDS 4/10 AND IMDS 4/11) |
| | | IMDS/SR/SGGIT/CHA/BV-08-C | Baseline IF IMDS 4/9 AND IMDS 4/10 AND NOT IMDS 4/11 |
| | | IMDS/SR/SGGIT/CHA/BV-09-C | Baseline IF IMDS 4/9 AND NOT IMDS 4/10 AND IMDS 4/11 |
| | | IMDS/SR/SGGIT/CHA/BV-10-C | Baseline IF IMDS 4/9 AND IMDS 4/10 AND IMDS 4/11 |
| | | IMDS/SR/SGGIT/CHA/BV-11-C | Baseline IF IMDS 4/12 |
| | | IMDS/SR/SGGIT/CHA/BV-12-C | Baseline IF IMDS 4/13 |
| | | IMDS/SR/SGGIT/CHA/BV-13-C | Baseline IF IMDS 4/14 |
| | | IMDS/SR/SGGIT/CHA/BV-14-C | Baseline IF IMDS 4/15 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/IPS/SR/GATTDB/BV-01-I [GATT service verification – IPS] | [55] 4.3 | IPS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | IPS/SR/SGGIT/CHA/BV-01-C | Baseline IF IPS 5/1 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-02-C | Baseline IF IPS 5/1 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-03-C | Baseline IF IPS 5/1 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-04-C | Baseline IF IPS 5/1b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-05-C | Baseline IF IPS 5/1b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-06-C | Baseline IF IPS 5/2 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-07-C | Baseline IF IPS 5/2 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-08-C | Baseline IF IPS 5/2 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-09-C | Baseline IF IPS 5/2b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-10-C | Baseline IF IPS 5/2b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-11-C | Baseline IF IPS 5/2 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-12-C | Baseline IF IPS 5/2 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-13-C | Baseline IF IPS 5/2 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-14-C | Baseline IF IPS 5/2b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-15-C | Baseline IF IPS 5/2b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | IPS/SR/SGGIT/CHA/BV-16-C | Baseline IF IPS 5/3 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-17-C | Baseline IF IPS 5/3 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-18-C | Baseline IF IPS 5/3 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-19-C | Baseline IF IPS 5/3b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-20-C | Baseline IF IPS 5/3b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-21-C | Baseline IF IPS 5/3 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-22-C | Baseline IF IPS 5/3 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-23-C | Baseline IF IPS 5/3 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-24-C | Baseline IF IPS 5/3b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-25-C | Baseline IF IPS 5/3b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-26-C | Baseline IF IPS 5/4 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-27-C | Baseline IF IPS 5/4 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-28-C | Baseline IF IPS 5/4 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-29-C | Baseline IF IPS 5/4b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-30-C | Baseline IF IPS 5/4b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-31-C | Baseline IF IPS 5/5 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | IPS/SR/SGGIT/CHA/BV-32-C | Baseline IF IPS 5/5 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-33-C | Baseline IF IPS 5/5 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-34-C | Baseline IF IPS 5/5b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-35-C | Baseline IF IPS 5/5b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-36-C | Baseline IF IPS 5/6 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-37-C | Baseline IF IPS 5/6 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-38-C | Baseline IF IPS 5/6 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-39-C | Baseline IF IPS 5/6b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-40-C | Baseline IF IPS 5/6b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-41-C | Baseline IF IPS 5/7 AND NOT IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-42-C | Baseline IF IPS 5/7 AND IPS 6/4 AND NOT IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-43-C | Baseline IF IPS 5/7 AND IPS 6/4 AND NOT IPS 6/5 AND IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-44-C | Baseline IF IPS 5/7b AND IPS 6/4 AND IPS 6/5 AND NOT IPS 6/6 |
| | | IPS/SR/SGGIT/CHA/BV-45-C | Baseline IF IPS 5/7b AND IPS 6/4 AND IPS 6/5 AND IPS 6/6 |
| IOPT/IPSP/NOD/GATTDB/BV-01-I [GATT service verification – IPSP] | [70] 4.4.1 | IPSP/NOD/SGGIT/SER/BV-01-C | Baseline |
| IOPT/LLS/SR/GATTDB/BV-01-I [GATT service verification – LLS] | [56] 4.3 | LLS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | LLS/SR/SGGIT/CHA/BV-01-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/LNS/SEN/GATTDB/BV-01-I [GATT service verification – LNS] | [57] 4.3 | LNS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | LNS/SEN/SGGIT/CHA/BV-01-C | Baseline IF LNS 3/2 AND NOT LNS 3a/2 |
| | | LNS/SEN/SGGIT/CHA/BV-02-C | Baseline |
| | | LNS/SEN/SGGIT/CHA/BV-03-C | Baseline IF LNS 3/17 |
| | | LNS/SEN/SGGIT/CHA/BV-04-C | Baseline IF LNS 3/11 AND LNS 3/12 AND LNS 3/13 |
| | | LNS/SEN/SGGIT/CHA/BV-05-C | Baseline IF LNS 3/25 |
| | | LNS/SEN/SGGIT/CHA/BV-06-C | Baseline IF LNS 3a/2 |
| IOPT/NDCS/SR/GATTDB/BV-01-I [GATT service verification – NDCS] | [58] 4.3 | NDCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | NDCS/SR/SGGIT/CHA/BV-01-C | Baseline |
| IOPT/OTS/SR/GATTDB/BV-01-I [GATT service verification – OTS] | [59] 4.3 | OTS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | OTS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | OTS/SR/SGGIT/CHA/BV-02-C | Baseline IF OTS 4/2 AND NOT OTS 4/3 |
| | | OTS/SR/SGGIT/CHA/BV-03-C | Baseline IF OTS 4/3 |
| | | OTS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | OTS/SR/SGGIT/CHA/BV-05-C | Baseline |
| | | OTS/SR/SGGIT/CHA/BV-06-C | Baseline IF OTS 4/8 AND NOT OTS 4/9 |
| | | OTS/SR/SGGIT/CHA/BV-07-C | Baseline IF OTS 4/9 |
| | | OTS/SR/SGGIT/CHA/BV-08-C | Baseline IF OTS 4/10 AND NOT OTS 4/11 |
| | | OTS/SR/SGGIT/CHA/BV-09-C | Baseline IF OTS 4/11 |
| | | OTS/SR/SGGIT/CHA/BV-10-C | Baseline IF OTS 4/12 |
| | | OTS/SR/SGGIT/CHA/BV-11-C | Baseline IF OTS 4/13 AND NOT OTS 4/14 |
| | | OTS/SR/SGGIT/CHA/BV-12-C | Additional |
| | | OTS/SR/SGGIT/CHA/BV-13-C | Baseline |
| | | OTS/SR/SGGIT/CHA/BV-14-C | Baseline IF OTS 4/16 |
| | | OTS/SR/SGGIT/CHA/BV-15-C | Additional |
| IOPT/PAMS/SR/GATTDB/BV-01-I [GATT service verification – PAMS] | [60] 4.3 | PAMS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | PAMS/SR/SGGIT/CHA/BV-02-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | PAMS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | PAMS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | PAMS/SR/SGGIT/CHA/BV-05-C | Additional |
| | | PAMS/SR/SGGIT/CHA/BV-06-C | Additional |
| | | PAMS/SR/SGGIT/CHA/BV-07-C | Additional |
| | | PAMS/SR/SGGIT/CHA/BV-08-C | Additional |
| | | PAMS/SR/SGGIT/CHA/BV-09-C | Additional |
| | | PAMS/SR/SGGIT/CHA/BV-10-C | Baseline |
| | | PAMS/SR/SGGIT/CHA/BV-11-C | Baseline |
| | | PAMS/SR/SGGIT/CHA/BV-12-C | Baseline |
| IOPT/PASS/SR/GATTDB/BV-01-I [GATT service verification – PASS] | [61] 4.3 | PASS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | PASS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | PASS/SR/SGGIT/CHA/BV-02-C | Baseline |
| | | PASS/SR/SGGIT/CHA/BV-03-C | Additional |
| IOPT/PLXS/SEN/GATTDB/BV-01-I [GATT service verification – PLXS] | [62] 4.3 | PLXS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | PLXS/SEN/SGGIT/CHA/BV-03-C | Baseline IF PLXS 3/2 |
| | | PLXS/SEN/SGGIT/CHA/BV-04-C | Baseline IF PLXS 3/9 |
| | | PLXS/SEN/SGGIT/CHA/BV-05-C | Baseline IF PLXS 3/17 AND NOT PLXS 3a/1 |
| | | PLXS/SEN/SGGIT/CHA/BV-06-C | Baseline IF PLXS 3/21 AND PLXS 2/3 |
| | | PLXS/SEN/SGGIT/CHA/BV-07-C | Baseline IF PLXS 3/17 AND PLXS 3a/2 |
| IOPT/RAS/SR/GATTDB/BV-01-I [GATT service verification – RAS] | [121] 4.3 | RAS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | RAS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | RAS/SR/SGGIT/CHA/BV-02-C | Additional |
| | | RAS/SR/SGGIT/CHA/BV-03-C | Baseline |
| | | RAS/SR/SGGIT/CHA/BV-04-C | Baseline |
| | | RAS/SR/SGGIT/CHA/BV-05-C | Baseline IF NOT RAS 2/6 AND NOT RAS 2/7 |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | RAS/SR/SGGIT/CHA/BV-06-C | Baseline IF RAS 2/6 AND NOT RAS 2/7 |
| | | RAS/SR/SGGIT/CHA/BV-07-C | Baseline IF NOT RAS 2/6 AND RAS 2/7 |
| | | RAS/SR/SGGIT/CHA/BV-08-C | Baseline IF RAS 2/6 AND RAS 2/7 |
| | | RAS/SR/SGGIT/CHA/BV-09-C | Baseline IF NOT RAS 2/9 AND NOT RAS 2/10 |
| | | RAS/SR/SGGIT/CHA/BV-10-C | Baseline IF RAS 2/9 AND NOT RAS 2/10 |
| | | RAS/SR/SGGIT/CHA/BV-11-C | Baseline IF NOT RAS 2/9 AND RAS 2/10 |
| | | RAS/SR/SGGIT/CHA/BV-12-C | Baseline IF RAS 2/9 AND RAS 2/10 |
| IOPT/RCS/SR/GATTDB/BV-01-I [GATT service verification – RCS] | [63] 4.3 | RCS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | RCS/SR/SGGIT/CHA/BV-02-C | Baseline IF RCS 3/1 AND NOT RCS 5a/2 |
| | | RCS/SR/SGGIT/CHA/BV-03-C | Baseline IF (RCS 6/10 OR RCS 4/14 OR RCS 4/15 OR RCS 4/18) AND NOT RCS 4/3 |
| | | RCS/SR/SGGIT/CHA/BV-04-C | Baseline IF RCS 4/3 |
| | | RCS/SR/SGGIT/CHA/BV-05-C | Baseline IF RCS 5/4 |
| | | RCS/SR/SGGIT/CHA/BV-06-C | Baseline IF RCS 5a/2 |
| IOPT/RSCS/SEN/GATTDB/BV-01-I [GATT service verification – RSCS] | [64] 4.3 | RSCS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | RSCS/SEN/SGGIT/CHA/BV-01-C | Baseline |
| | | RSCS/SEN/SGGIT/CHA/BV-02-C | Baseline IF RSCS 3/7 AND NOT RSCS 3a/2 |
| | | RSCS/SEN/SGGIT/CHA/BV-03-C | Baseline IF RSCS 3/8 |
| | | RSCS/SEN/SGGIT/CHA/BV-04-C | Baseline IF RSCS 3/9 |
| | | RSCS/SEN/SGGIT/CHA/BV-05-C | Baseline IF RSCS 3a/2 |
| IOPT/RTUS/SR/GATTDB/BV-01-I [GATT service verification – RTUS] | [71] 4.3 | RTUS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | RTUS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | RTUS/SR/SGGIT/CHA/BV-02-C | Baseline |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/SCPS/SR/GATTDB/BV-01-I [GATT service verification – SCPS] | [65] 4.3 | SCPS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | SCPS/SR/SGGIT/CHA/BV-01-C | Baseline |
| | | SCPS/SR/SGGIT/CHA/BV-02-C | Additional |
| IOPT/TDS/SR/GATTDB/BV-01-I [GATT service verification – TDS] | [66] 4.3 | TDS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | TDS/SR/SGGIT/CHA/BV-02-C | Baseline IF TDS 4/1 |
| | | TDS/SR/SGGIT/CHA/BV-03-C | Baseline IF TDS 4/2 |
| | | TDS/SR/SGGIT/CHA/BV-04-C | Baseline IF TDS 4/3 |
| | | TDS/SR/SGGIT/DES/BV-05-C | Baseline IF TDS 4/3 AND TDS 4/4 |
| IOPT/TPS/SR/GATTDB/BV-01-I [GATT service verification – TPS] | [67] 4.3 | TPS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | TPS/SR/SGGIT/CHA/BV-01-C | Baseline |
| IOPT/UDS/SR/GATTDB/BV-01-I [GATT service verification – UDS] | [68] 4.3 | UDS/SR/SGGIT/SER/BV-01-C | Baseline |
| | | UDS/SR/SGGIT/CHA/BV-01-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-02-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-03-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-04-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-05-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-06-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-07-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-08-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-09-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-10-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-11-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-12-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-13-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-14-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-15-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-16-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-17-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| | | UDS/SR/SGGIT/CHA/BV-18-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-19-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-20-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-21-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-22-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-23-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-24-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-25-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-26-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-27-C | Baseline IF UDS 4/1 AND NOT UDS 3/3 |
| | | UDS/SR/SGGIT/CHA/BV-28-C | Baseline IF UDS 4/1 AND UDS 3/3 |
| | | UDS/SR/SGGIT/CHA/BV-29-C | Baseline |
| | | UDS/SR/SGGIT/CHA/BV-30-C | Baseline |
| | | UDS/SR/SGGIT/CHA/BV-31-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-32-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-33-C | Baseline IF UDS 4/32 |
| | | UDS/SR/SGGIT/CHA/BV-34-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-35-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-36-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-37-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-38-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-39-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-40-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-41-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-42-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-43-C | Additional |
| | | UDS/SR/SGGIT/CHA/BV-44-C | Additional |

| TCID | Reference | Test Cases | Baseline/Additional |
|---|---|---|---|
| IOPT/WSS/SEN/GATTDB/BV-01-I [GATT service verification – WSS] | [69] 4.3 | WSS/SEN/SGGIT/SER/BV-01-C | Baseline |
| | | WSS/SEN/SGGIT/CHA/BV-01-C | Baseline IF WSS 4/1 AND NOT WSS 4a/2 |
| | | WSS/SEN/SGGIT/CHA/BV-02-C | Baseline |
| | | WSS/SEN/SGGIT/CHA/BV-03-C | Baseline IF WSS 4a/2 |

*Table 4.5: IOPT GATTDB tests*

- Test Procedure

  1. The Lower Tester searches for IUT's GATT service database for the services, characteristics, and descriptors specified in the generic GATT-based test case listed in the test case column of Table 4.5 from the referenced Test Suite (the Generic GATT Integrated Tests and structure are defined in Section 6.3, Server test procedures (SGGIT), in [8].)

- Expected Outcome

  Pass verdict

  If the referenced SGGIT test case is "Baseline" then the requested service/characteristic/descriptor is present and the properties, length, types and any required values are as expected.

  If the referenced SGGIT test case is "Baseline IF" followed by an ICS reference or a Boolean logic expression of ICS items, then the requested service/characteristic/descriptor is only present if the corresponding ICS selections are fulfilled and the properties, length, types and any required values are as expected.

  If the referenced SGGIT test case is "Additional" then the requested service/characteristic/descriptor does not need to be present in the IUT's database. If it is present, the properties, length, types and any required values are as expected.

### 4.4.2 IOPT SGSIT SDP tests

- Test Purpose

  Verify that the SDP record is present and contains all the attributes required by the service according to Table 4.6.

- Reference

  See Table 4.6

- Initial Condition
  - The IUT is discoverable and connectable and any actions to expose the target SDP record have been taken.
  - An L2CAP connection for SDP exists between the IUT and the Lower Tester.
- Test Case Configuration

| TCID | Reference | Test Cases |
|---|---|---|
| **GATT-Based Audio** | | |
| IOPT/AICS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – AICS] | [15] 4.3 | AICS/SR/SGGIT/SDP/BV-01-C |
| IOPT/ASCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ASCS] | [21] 4.3 | ASCS/SR/SGGIT/SDP/BV-01-C |
| IOPT/BASS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BASS] | [23] 4.3 | BASS/SR/SGGIT/SDP/BV-01-C |
| IOPT/CAS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CAS] | [24] 4.2 | CAS/SR/SGGIT/SDP/BV-01-C |
| IOPT/CSIS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CSIS] | [25] 4.3 | CSIS/SR/SGGIT/SDP/BV-01-C |
| IOPT/GMCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – GMCS] | [20] 4.3 | GMCS/SR/SGGIT/SDP/BV-01-C |
| IOPT/GTBS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – GTBS] | [19] 4.3 | GTBS/SR/SGGIT/SDP/BV-01-C |
| IOPT/MCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – MCS] | [20] 4.3 | MCS/SR/SGGIT/SDP/BV-01-C |
| IOPT/MICS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – MICS] | [18] 4.3 | MICS/SR/SGGIT/SDP/BV-01-C |
| IOPT/PACS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – PACS] | [22] 4.3 | PACS/SR/SGGIT/SDP/BV-01-C |
| IOPT/TBS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – TBS] | [19] 4.3 | TBS/SR/SGGIT/SDP/BV-01-C |
| IOPT/TMAP/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – TMAP] | [72] 4.5.2 | TMAP/SR/SGGIT/SDP/BV-01-C |
| IOPT/VCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – VCS] | [17] 4.3 | VCS/SR/SGGIT/SDP/BV-01-C |
| IOPT/VOCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – VOCS] | [16] 4.3 | VOCS/SR/SGGIT/SDP/BV-01-C |
| **GATT Based** | | |
| IOPT/ACS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ACS] | [26] 4.3 | ACS/SR/SGGIT/SDP/BV-07-C |
| IOPT/AIOS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – AIOS] | [27] 4.3 | AIOS/SR/SGGIT/SDP/BV-01-C |
| IOPT/BAS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BAS] | [29] 4.3 | BAS/SR/SGGIT/SDP/BV-01-C |
| IOPT/BCS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BCS] | [30] 4.3 | BCS/SR/SGGIT/SDP/BV-01-C |
| IOPT/BMS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – BMS] | [31] 4.3 | BMS/SEN/SGGIT/SDP/BV-02-C |
| IOPT/CGMS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CGMS] | [34] 4.3 | CGMS/SEN/SGGIT/SDP/BV-10-C |
| IOPT/CPS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CPS] | [35] 4.3 | CPS/SEN/SGGIT/SDP/BV-01-C |

| TCID | Reference | Test Cases |
|---|---|---|
| IOPT/CSCS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CSCS] | [37] 4.3 | CSCS/SEN/SGGIT/SDP/BV-01-C |
| IOPT/CTS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CTS] | [39] 4.3 | CTS/SR/SGGIT/SDP/BV-01-C |
| IOPT/CWS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – CWS] | [125] 4.3 | CWS/SR/SGGIT/SDP/BV-01-C |
| IOPT/DIS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – DIS] | [40] 4.3 | DIS/SR/SGGIT/SDP/BV-01-C |
| IOPT/DTS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – DTS] | [41] 4.3 | DTS/SR/SGGIT/SDP/BV-08-C |
| IOPT/ESS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ESS] | [44] 4.3 | ESS/SEN/SGGIT/SDP/BV-01-C |
| IOPT/ETS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – ETS] | [45] 4.3 | ETS/SR/SGGIT/SDP/BV-02-C |
| IOPT/FTMS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – FTMS] | [46] 4.3 | FTMS/SR/SGGIT/SDP/BV-01-C |
| IOPT/GHSS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – GHSS] | [47] 4.3 | GHSS/SR/SGGIT/SDP/BV-14-C |
| IOPT/HPS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – HPS] | [50] 4.3 | HPS/SR/SGGIT/SDP/BV-01-C |
| IOPT/IMDS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – IMDS] | [120] 4.3 | IMDS/SR/SGGIT/SDP/BV-01-C |
| IOPT/IPS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – IPS] | [55] 4.3 | IPS/SR/SGGIT/SDP/BV-01-C |
| IOPT/LNS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – LNS] | [57] 4.3 | LNS/SEN/SGGIT/SDP/BV-01-C |
| IOPT/OTS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – OTS] | [59] 4.3 | OTS/SR/SGGIT/SDP/BV-01-C |
| IOPT/PAMS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – PAMS] | [60] 4.3 | PAMS/SR/SGGIT/SDP/BV-13-C |
| IOPT/PLXS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – PLXS] | [62] 4.3 | PLXS/SEN/SGGIT/SDP/BV-02-C |
| IOPT/RSCS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – RSCS] | [64] 4.3 | RSCS/SEN/SGGIT/SDP/BV-01-C |
| IOPT/TDS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – TDS] | [66] 4.3 | TDS/SR/SGGIT/SDP/BV-06-C |
| IOPT/UDS/SR/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – UDS] | [68] 4.3 | UDS/SR/SGGIT/SDP/BV-01-C |
| IOPT/WSS/SEN/SGGIT/SDP/BV-01-I [GATT-based service SDP record verification – WSS] | [69] 4.3 | WSS/SEN/SGGIT/SDP/BV-01-C |

*Table 4.6: IOPT SGSIT SDP tests*

- Test Procedure
  1. The test listed in the test case column of Table 4.6 is executed from the referenced Test Suite (the Generic GATT Integrated Tests and structure are defined in Section 6.3, Server test procedures (SGGIT), in [8].)

- Expected Outcome

  Pass verdict

  For every test case the pass verdict is the same as that in the referenced test case.

### 4.4.3 IOPT MESH tests

- Test Purpose

  Verify that the Mesh tests referenced have the expected outcome according to Table 4.7.

- Reference

  See Table 4.7.

- Initial Condition

  - The initial conditions are the same as those in the referenced test case.

- Test Case Configuration

| TCID | Reference | Test Cases |
|---|---|---|
| IOPT/MESH/NODE/BV-01-I [Provisioning and reprovisioning] | [9] 6.1 | MESH/NODE/BV-01-C |
| IOPT/MESH/NODE/BV-02-I [Mesh device composition data] | [9] 6.1 | MESH/NODE/BV-02-C |
| IOPT/MESH/NODE/BV-03-I [Network message cache and replay protection] | [9] 6.1 | MESH/NODE/BV-03-C |

*Table 4.7: IOPT Mesh tests*

- Test Procedure

  1. The test listed in the test case column of Table 4.7 is executed from the referenced Test Suite.

- Expected Outcome

  Pass verdict

  For every test case the pass verdict is the same as that in the referenced test case.

### 4.4.4 LE Audio application profile tests

- Test Purpose

  Verify that the requirements specified by LE Audio application profiles are tested per Table 4.8 and are met by a Core Complete design.

- Reference

  See Table 4.8.

- Initial Condition

  - The initial conditions are the same as those in the referenced test case.

- Test Case Configuration

| TCID | Reference | Test Cases |
|---|---|---|
| IOPT/PBP/PBK/RCV/BV-07-I [Receiving Public Broadcast Announcements, Standard Quality, 24_2_1, Encrypted, LE 2M PHY – PBK] | [123] 4.4.1.1 | PBP/PBK/RCV/BV-07-C |
| IOPT/PBP/PBA/RCV/BV-06-I [Receiving Public Broadcast Announcements, Standard Quality, Encrypted, LE 2M PHY – PBA] | [123] 4.4.2.1 | PBP/PBA/RCV/BV-06-C |

*Table 4.8: IOPT LE Audio application profile tests*

- Test Procedure

  1. The test listed in the test case column of Table 4.8 is executed from the referenced Test Suite.

- Expected Outcome

  Pass verdict

  For every test case, the Pass verdict is the same as that in the referenced test case.

# 5 Test case mapping

The Test Case Mapping Table (TCMT) maps test cases to specific requirements in the individual specification ICS documents and can map to test cases defined in the individual TS documents corresponding to the referenced specifications. The IUT is tested in all roles for which support is declared in the ICS document(s).

The columns for the TCMT are defined as follows:

**Item:** Contains a logical expression based on specific entries from the associated ICS document. Contains a logical expression (using the operators AND, OR, NOT as needed) based on specific entries from the applicable ICS document(s). The entries are in the form of y/x references, where y corresponds to the table number and x corresponds to the feature number as defined in the ICS document for either the IOPT ICS document [3] or the ICS document in the referenced specification abbreviation.

If a test case is mandatory within the respective layer, then the y/x reference is omitted.

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

**Test Case(s):** The applicable test case identifiers are required for Bluetooth Qualification if the corresponding y/x references defined in the Item column are supported. Further details about the function of the TCMT are elaborated in [5].

For the purpose and structure of the ICS/IXIT, refer to [5].

| Item | Feature | Test Case(s) |
|---|---|---|
| 3DSP 1/1 OR A2DP 1/1 OR A2DP 1/2 OR AVRCP 1/1 OR BPP 1/1 OR DUN 1/1 OR FTP 1/1 OR GNSS 1/1 OR HCRP 1/1 OR HFP 1/2 OR HID11 1/4 OR HSP 1/2 OR OPP 1/2 OR PAN 1/1 OR PAN 1/2 OR PAN 1/3 OR SAP 1/2 OR SYNC 1/1 OR SYNC 1/2 OR VDP 1/1 OR VDP 1/2 OR AICS 1/1 OR ASCS 2/1 OR BASS 2/1 OR CAS 2/1 OR MCS 1/1 OR MCS 21/1 OR MICS 1/1 OR PACS 2/1 OR TBS 1/1 OR TBS 21/1 OR VCS 1/1 OR VOCS 1/1 | Class-of-Device | IOPT/SR/COD/BV-01-I |
| A2DP 1/1 | Successful Connection with future SDP Record value – A2DP Source | IOPT/A2DP/SRC/CGSIT/SFC/BV-01-I |
| A2DP 1/2 AND A2DP 4/1 | Successful Connection with future SDP Record value – A2DP Sink | IOPT/A2DP/SNK/CGSIT/SFC/BV-02-I |
| AVRCP 1/1 | Successful Connection with future SDP Record value – AVRCP CT | IOPT/AVRCP/CT/CGSIT/SFC/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| AVRCP 1/2 AND AVRCP 7/1 | Successful Connection with future SDP Record value – AVRCP TG | IOPT/AVRCP/TG/CGSIT/SFC/BV-02-I |
| BIP 1/1 | Successful Connection with future SDP Record value – BIP Image Push Initiator | IOPT/BIP/IPSI/CGSIT/SFC/BV-01-I |
| BPP 1/2 | Successful Connection with future SDP Record value – BPP Sender | IOPT/BPP/SD/CGSIT/SFC/BV-01-I |
| CTN 1/1 | Successful Connection with future SDP Record value – CTN CCE | IOPT/CTN/CCE/CGSIT/SFC/BV-01-I |
| DUN 1/2 | Successful Connection with future SDP Record value – DUN DT | IOPT/DUN/DT/CGSIT/SFC/BV-01-I |
| FTP 1/2 | Successful Connection with future SDP Record value – FTP Client | IOPT/FTP/CL/CGSIT/SFC/BV-01-I |
| GNSS 1/2 | Successful Connection with future SDP Record value – GNSS Client | IOPT/GNSS/CL/CGSIT/SFC/BV-01-I |
| HCRP 1/2 AND HCRP 3/7 | Successful Connection with future SDP Record value – HCRP Client with Print | IOPT/HCRP/CL/CGSIT/SFC/BV-01-I |
| HCRP 1/2 AND HCRP 3/8 | Successful Connection with future SDP Record value – HCRP Client with Scan | IOPT/HCRP/CL/CGSIT/SFC/BV-02-I |
| HDP 6/2 | Successful Connection with future SDP Record value – HDP Source | IOPT/HDP/SRC/CGSIT/SFC/BV-01-I |
| HDP 12/2 | Successful Connection with future SDP Record value – HDP Sink | IOPT/HDP/SNK/CGSIT/SFC/BV-01-I |
| HFP 1/2 | Successful Connection with future SDP Record value – HFP HF | IOPT/HFP/HF/CGSIT/SFC/BV-01-I |
| HFP 1/1 | Successful Connection with future SDP Record value – HFP AG | IOPT/HFP/AG/CGSIT/SFC/BV-01-I |
| HID 1/1 | Successful Connection with future SDP Record value – HID v1.0 Host | IOPT/HID/HOS/CGSIT/SFC/BV-01-I |
| HID11 1/1 OR HID11 1/2 | Successful Connection with future SDP Record value – HID v1.1 or later Host | IOPT/HID11/HOS/CGSIT/SFC/BV-01-I |
| HSP 1/2 | Successful Connection with future SDP Record value – HSP HS | IOPT/HSP/HS/CGSIT/SFC/BV-01-I |
| HSP 1/1 | Successful Connection with future SDP Record value – HSP AG | IOPT/HSP/AG/CGSIT/SFC/BV-02-I |
| MAP 1/2 | Successful Connection with future SDP Record value – MAP MCE | IOPT/MAP/MCE/CGSIT/SFC/BV-01-I |
| OPP 1/1 | Successful Connection with future SDP Record value – OPP Client | IOPT/OPP/CL/CGSIT/SFC/BV-01-I |
| PAN 1/3 | Successful Connection with future SDP Record value – PANU | IOPT/PAN/PANU/CGSIT/SFC/BV-01-I |
| PBAP 1/1 | Successful Connection with future SDP Record value – PBAP PCE | IOPT/PBAP/PCE/CGSIT/SFC/BV-01-I |
| SAP 1/1 | Successful Connection with future SDP Record value – SAP Client | IOPT/SAP/CL/CGSIT/SFC/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| SPP 1/1 AND<br>SPP 2/1 AND<br>SPP 2/1a AND<br>SPP 3/1 | Successful Connection with future SDP Record value – SPP DevA | IOPT/SPP/DEVA/CGSIT/SFC/BV-01-I |
| SYNC 1/1 | Successful Connection with future SDP Record value – Sync Client | IOPT/SYNC/CL/CGSIT/SFC/BV-01-I |
| VDP 1/1 | Successful Connection with future SDP Record value – VDP Source | IOPT/VDP/SRC/CGSIT/SFC/BV-01-I |
| VDP 1/2 AND<br>VDP 4/1 | Successful Connection with future SDP Record value – VDP Sink | IOPT/VDP/SNK/CGSIT/SFC/BV-02-I |
| MESH 2/3 | Unprovisioned device role | IOPT/MESH/NODE/BV-01-I |
| MESH 2/1 | Node role | IOPT/MESH/NODE/BV-02-I<br>IOPT/MESH/NODE/BV-03-I |
| 3DSP 1/1 | SDP record verification – 3DSP, 3DD role | IOPT/3DSP/3DD/SDPR/BV-01-I |
| 3DSP 1/2 | SDP record verification – 3DSP, 3DG role | IOPT/3DSP/3DG/SDPR/BV-02-I |
| A2DP 1/1 | SDP record verification – A2DP, SRC role | IOPT/A2DP/SRC/SDPR/BV-01-I |
| A2DP 1/2 | SDP record verification – A2DP, SNK role | IOPT/A2DP/SNK/SDPR/BV-01-I |
| AVRCP 1/1 | SDP record verification – AVRCP, CT role | IOPT/AVRCP/CT/SDPR/BV-01-I |
| AVRCP 1/2 | SDP record verification – AVRCP, TG role | IOPT/AVRCP/TG/SDPR/BV-01-I |
| BIP 1/2 | SDP record verification – BIP, Image Push Responder role | IOPT/BIP/IPSR/SDPR/BV-01-I |
| BIP 1/4 | SDP record verification – BIP, Image Pull Responder role | IOPT/BIP/IPLR/SDPR/BV-01-I |
| BIP 1/6 | SDP record verification – BIP, Advanced Image Printing Responder role | IOPT/BIP/AIPR/SDPR/BV-01-I |
| BIP 1/8 | SDP record verification – BIP, Automatic Archive Responder role | IOPT/BIP/AAR/SDPR/BV-01-I |
| BIP 1/10 | SDP record verification – BIP, Remote Camera Responder role | IOPT/BIP/RCR/SDPR/BV-01-I |
| BIP 1/12 | SDP record verification – BIP, Remote Display Responder role | IOPT/BIP/RDR/SDPR/BV-01-I |
| BIP 1/5 | SDP record verification – BIP, Advanced Image Printing Initiator role with Imaging Referenced Objects supported | IOPT/BIP/AIPI/SDPR/BV-01-I |
| BIP 1/7 | SDP record verification – BIP, Automatic Archive Initiator role with Imaging Automatic Archive supported | IOPT/BIP/AAI/SDPR/BV-01-I |
| BPP 1/1 | SDP record verification – BPP, PR role | IOPT/BPP/PR/SDPR/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| BPP 3/20 | SDP record verification – BPP, SD role | IOPT/BPP/SD/SDPR/BV-01-I |
| CTN 2/2 | SDP record verification – CTN, CCE role | IOPT/CTN/CCE/SDPR/BV-01-I |
| CTN 1/2 | SDP record verification – CTN, CSE role | IOPT/CTN/CSE/SDPR/BV-01-I |
| DID 1/1 | SDP record verification – DID | IOPT/DID/SR/SDPR/BV-01-I |
| DUN 1/1 | SDP record verification – DUN, GW role | IOPT/DUN/GW/SDPR/BV-01-I |
| FTP 1/1 | SDP record verification – FTP, Server role | IOPT/FTP/SR/SDPR/BV-01-I |
| GNSS 1/1 | SDP record verification – GNSS, Server role | IOPT/GNSS/SR/SDPR/BV-01-I |
| HCRP 1/1 | SDP record verification – HCRP, Server role | IOPT/HCRP/SR/SDPR/BV-01-I |
| HCRP 3/13 | SDP record verification – HCRP, Client role | IOPT/HCRP/CL/SDPR/BV-01-I |
| HDP 4/1 | SDP record verification – HDP, SRC role | IOPT/HDP/SRC/SDPR/BV-01-I |
| HDP 10/1 | SDP record verification – HDP, SNK role | IOPT/HDP/SNK/SDPR/BV-01-I |
| HFP 1/2 | SDP record verification – HFP, HF role | IOPT/HFP/HF/SDPR/BV-01-I |
| HFP 1/1 | SDP record verification – HFP, AG role | IOPT/HFP/AG/SDPR/BV-01-I |
| HID 1/2 | SDP record verification – HID 1.0, DEV role | IOPT/HID/DEV/SDPR/BV-01-I |
| HID11 1/4 | SDP record verification – HID 1.1 or later, DEV role | IOPT/HID11/DEV/SDPR/BV-01-I |
| HSP 1/2 | SDP record verification – HSP, HS role | IOPT/HSP/HS/SDPR/BV-01-I |
| HSP 1/1 | SDP record verification – HSP, AG role | IOPT/HSP/AG/SDPR/BV-01-I |
| MAP 1/1 | SDP record verification – MAP, MSE role | IOPT/MAP/MSE/SDPR/BV-01-I |
| MAP 2/1 | SDP record verification – MAP, MCE role with Notification supported | IOPT/MAP/MCE/SDPR/BV-01-I |
| MPS 10/1 | SDP record verification – MPS | IOPT/MPS/SR/SDPR/BV-01-I |
| OPP 1/2 | SDP record verification – OPP, Server role | IOPT/OPP/SR/SDPR/BV-01-I |
| PAN 1/1 | SDP record verification – PAN, NAP role | IOPT/PAN/NAP/SDPR/BV-01-I |
| PAN 1/2 | SDP record verification – PAN, GN role | IOPT/PAN/GN/SDPR/BV-01-I |
| PAN 4/15 | SDP record verification – PAN, PANU role | IOPT/PAN/PANU/SDPR/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| PBAP 1/1 | SDP record verification – PBAP, PCE role | IOPT/PBAP/PCE/SDPR/BV-01-I |
| PBAP 1/2 | SDP record verification – PBAP, PSE role | IOPT/PBAP/PSE/SDPR/BV-01-I |
| SAP 1/2 | SDP record verification – SAP, Server role | IOPT/SAP/SR/SDPR/BV-01-I |
| SPP 2/1b | SDP record verification – SPP, Device B role | IOPT/SPP/DEVB/SDPR/BV-01-I |
| SYNC 1/2 | SDP record verification – SYNC, Server role | IOPT/SYNC/SR/SDPR/BV-01-I |
| SYNC 2/10 | SDP record verification – SYNC, Client role with Sync command supported | IOPT/SYNC/CL/SDPR/BV-01-I |
| VDP 1/1 | SDP record verification – VDP, SRC role | IOPT/VDP/SRC/SDPR/BV-01-I |
| VDP 1/2 | SDP record verification – VDP, SNK role | IOPT/VDP/SNK/SDPR/BV-01-I |
| ACS 2/1 OR ACS 2/2 | GATT service verification – ACS | IOPT/ACS/SR/GATTDB/BV-01-I |
| ACS 2/1 | GATT-based service SDP record verification – ACS | IOPT/ACS/SR/SGGIT/SDP/BV-01-I |
| AICS 1/1 OR AICS 1/2 | GATT service verification – AICS | IOPT/AICS/SR/GATTDB/BV-01-I |
| AICS 1/1 | GATT-based service SDP record verification – AICS | IOPT/AICS/SR/SGGIT/SDP/BV-01-I |
| AIOS 1/1 OR AIOS 1/2 | GATT service verification – AIOS | IOPT/AIOS/SR/GATTDB/BV-01-I |
| AIOS 1/1 | GATT-based service SDP record verification – AIOS | IOPT/AIOS/SR/SGGIT/SDP/BV-01-I |
| ANS 1/1 OR ANS 1/2 | GATT service verification – ANS | IOPT/ANS/SR/GATTDB/BV-01-I |
| ASCS 2/1 OR ASCS 2/2 | GATT-based service SDP record verification – ASCS | IOPT/ASCS/SR/GATTDB/BV-01-I |
| ASCS 2/1 | GATT-based service SDP record verification – ASCS | IOPT/ASCS/SR/SGGIT/SDP/BV-01-I |
| BAS 1/1 OR BAS 1/2 | GATT service verification – BAS | IOPT/BAS/SR/GATTDB/BV-01-I |
| BAS 1/1 | GATT-based service SDP record verification – BAS | IOPT/BAS/SR/SGGIT/SDP/BV-01-I |
| BASS 2/1 OR BASS 2/2 | GATT service verification – BASS | IOPT/BASS/SR/GATTDB/BV-01-I |
| BASS 2/1 | GATT-based service SDP record verification – BASS | IOPT/BASS/SR/SGGIT/SDP/BV-01-I |
| BCS 2/1 OR BCS 2/2 | GATT service verification – BCS | IOPT/BCS/SR/GATTDB/BV-01-I |
| BCS 2/1 | GATT-based service SDP record verification – BCS | IOPT/BCS/SR/SGGIT/SDP/BV-01-I |
| BLS 1/1 OR BLS 1/2 | GATT service verification – BLS | IOPT/BLS/SEN/GATTDB/BV-01-I |
| BMS 2/1 OR BMS 2/2 | GATT service verification – BMS | IOPT/BMS/SEN/GATTDB/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| BMS 2/1 | GATT-based service SDP record verification – BMS | IOPT/BMS/SEN/SGGIT/SDP/BV-01-I |
| BSS 2/1 OR BSS 2/2 | GATT service verification – BSS | IOPT/BSS/SEN/GATTDB/BV-01-I |
| CAS 2/1 OR CAS 2/2 | GATT service verification – CAS | IOPT/CAS/SR/GATTDB/BV-01-I |
| CAS 2/1 | GATT-based service SDP record verification – CAS | IOPT/CAS/SR/SGGIT/SDP/BV-01-I |
| CGMS 1/1 OR CGMS 1/2 | GATT service verification – CGMS | IOPT/CGMS/SEN/GATTDB/BV-01-I |
| CGMS 1/1 | GATT-based service SDP record verification – CGMS | IOPT/CGMS/SEN/SGGIT/SDP/BV-01-I |
| CPS 1/1 OR CPS 1/2 | GATT service verification – CPS | IOPT/CPS/SEN/GATTDB/BV-01-I |
| CPS 1/1 | GATT-based service SDP record verification – CPS | IOPT/CPS/SEN/SGGIT/SDP/BV-01-I |
| CSCS 1/1 OR CSCS 1/2 | GATT service verification – CSCS | IOPT/CSCS/SEN/GATTDB/BV-01-I |
| CSCS 1/1 | GATT-based service SDP record verification – CSCS | IOPT/CSCS/SEN/SGGIT/SDP/BV-01-I |
| CSIS 1/1 OR CSIS 1/2 | GATT service verification – CSIS | IOPT/CSIS/SR/GATTDB/BV-01-I |
| CSIS 1/1 | GATT-based service SDP record verification – CSIS | IOPT/CSIS/SR/SGGIT/SDP/BV-01-I |
| CTES 1/1 OR CTES 1/2 | GATT service verification – CTES | IOPT/CTES/SR/GATTDB/BV-01-I |
| CTS 1/1 OR CTS 1/2 | GATT service verification – CTS | IOPT/CTS/SR/GATTDB/BV-01-I |
| CTS 1/1 | GATT-based service SDP record verification – CTS | IOPT/CTS/SR/SGGIT/SDP/BV-01-I |
| CWS 2/1 OR CWS 2/2 | GATT service verification – CWS | IOPT/CWS/SR/GATTDB/BV-01-I |
| CWS 2/1 | GATT-based service SDP record verification – CWS | IOPT/CWS/SR/SGGIT/SDP/BV-01-I |
| DIS 1/1 OR DIS 1/2 | GATT service verification – DIS | IOPT/DIS/SR/GATTDB/BV-01-I |
| DIS 1/1 | GATT-based service SDP record verification – DIS | IOPT/DIS/SR/SGGIT/SDP/BV-01-I |
| DTS 1/1 OR DTS 1/2 | GATT service verification – DTS | IOPT/DTS/SR/GATTDB/BV-01-I |
| DTS 1/1 | GATT-based service SDP record verification – DTS | IOPT/DTS/SR/SGGIT/SDP/BV-01-I |
| EMCS 2/1 OR EMCS 2/2 | GATT service verification – EMCS | IOPT/EMCS/SR/GATTDB/BV-01-I |
| ESLS 2/1 OR ESLS 2/2 | GATT service verification – ESLS | IOPT/ESLS/SR/GATTDB/BV-01-I |
| ESS 2/1 OR ESS 2/2 | GATT service verification – ESS | IOPT/ESS/SEN/GATTDB/BV-01-I |
| ESS 2/1 | GATT-based service SDP record verification – ESS | IOPT/ESS/SEN/SGGIT/SDP/BV-01-I |
| ETS 2/1 OR ETS 2/2 | GATT service verification – ETS | IOPT/ETS/SR/GATTDB/BV-01-I |
| ETS 2/1 | GATT-based service SDP record verification – ETS | IOPT/ETS/SR/SGGIT/SDP/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| FTMS 2/1 OR<br>FTMS 2/2 | GATT service verification – FTMS | IOPT/FTMS/SR/GATTDB/BV-01-I |
| FTMS 2/1 | GATT-based service SDP record verification – FTMS | IOPT/FTMS/SR/SGGIT/SDP/BV-01-I |
| GHSS 2/1 OR<br>GHSS 2/2 | GATT service verification – GHSS | IOPT/GHSS/SR/GATTDB/BV-01-I |
| GHSS 2/1 | GATT-based service SDP record verification – GHSS | IOPT/GHSS/SR/SGGIT/SDP/BV-01-I |
| GLS 1/1 OR GLS 1/2 | GATT service verification – GLS | IOPT/GLS/SEN/GATTDB/BV-01-I |
| MCS 21/1 OR<br>MCS 21/2 | GATT service verification – GMCS | IOPT/GMCS/SR/GATTDB/BV-01-I |
| MCS 21/1 | GATT-based service SDP record verification – GMCS | IOPT/GMCS/SR/SGGIT/SDP/BV-01-I |
| TBS 21/1 OR<br>TBS 21/2 | GATT service verification – GTBS | IOPT/GTBS/SR/GATTDB/BV-01-I |
| TBS 21/1 | GATT-based service SDP record verification – GTBS | IOPT/GTBS/SR/SGGIT/SDP/BV-01-I |
| HAS 2/1 OR HAS 2/2 | GATT service verification – HAS | IOPT/HAS/SR/GATTDB/BV-01-I |
| HIDS 1/1 OR<br>HIDS 1/2 | GATT service verification – HIDS | IOPT/HIDS/HD/GATTDB/BV-01-I |
| HOGP 3/6 | GATT service verification – HOGP | IOPT/HOGP/SR/GATTDB/BV-01-I |
| HPS 1/1 OR HPS 1/2 | GATT service verification – HPS | IOPT/HPS/SR/GATTDB/BV-01-I |
| HPS 1/1 | GATT-based service SDP record verification – HPS | IOPT/HPS/SR/SGGIT/SDP/BV-01-I |
| HRS 1/1 OR HRS 1/2 | GATT service verification – HRS | IOPT/HRS/SEN/GATTDB/BV-01-I |
| HTS 1/1 OR HTS 1/2 | GATT service verification – HTS | IOPT/HTS/SEN/GATTDB/BV-01-I |
| IAS 1/1 OR IAS 1/2 | GATT service verification – IAS | IOPT/IAS/SR/GATTDB/BV-01-I |
| IDS 1/1 OR IDS 1/2 | GATT service verification – IDS | IOPT/IDS/SEN/GATTDB/BV-01-I |
| IMDS 2/1 OR<br>IMDS 2/2 | GATT service verification – IMDS | IOPT/IMDS/SR/GATTDB/BV-01-I |
| IMDS 2/1 | GATT-based service SDP record verification – IMDS | IOPT/IMDS/SR/SGGIT/SDP/BV-01-I |
| IPS 3/1 OR IPS 3/2 | GATT service verification – IPS | IOPT/IPS/SR/GATTDB/BV-01-I |
| IPS 3/1 | GATT-based service SDP record verification – IPS | IOPT/IPS/SR/SGGIT/SDP/BV-01-I |
| IPSP 3/1 | GATT service verification – IPSP | IOPT/IPSP/NOD/GATTDB/BV-01-I |
| LLS 1/1 OR LLS 1/2 | GATT service verification – LLS | IOPT/LLS/SR/GATTDB/BV-01-I |
| LNS 1/1 OR LNS 1/2 | GATT service verification – LNS | IOPT/LNS/SEN/GATTDB/BV-01-I |
| LNS 1/1 | GATT-based service SDP record verification – IPS | IOPT/LNS/SEN/SGGIT/SDP/BV-01-I |
| MCS 1/1 OR<br>MCS 1/2 | GATT service verification – MCS | IOPT/MCS/SR/GATTDB/BV-01-I |
| MCS 1/1 | GATT-based service SDP record verification – MCS | IOPT/MCS/SR/SGGIT/SDP/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| MICS 1/1 OR MICS 1/2 | GATT service verification – MICS | IOPT/MICS/SR/GATTDB/BV-01-I |
| MICS 1/1 | GATT-based service SDP record verification – MICS | IOPT/MICS/SR/SGGIT/SDP/BV-01-I |
| NDCS 1/1 OR NDCS 1/2 | GATT service verification – NDCS | IOPT/NDCS/SR/GATTDB/BV-01-I |
| OTS 2/1 OR OTS 2/2 | GATT service verification – OTS | IOPT/OTS/SR/GATTDB/BV-01-I |
| OTS 2/2 | GATT-based service SDP record verification – OTS | IOPT/OTS/SR/SGGIT/SDP/BV-01-I |
| PACS 2/1 OR PACS 2/2 | GATT service verification – PACS | IOPT/PACS/SR/GATTDB/BV-01-I |
| PACS 2/1 | GATT-based service SDP record verification – PACS | IOPT/PACS/SR/SGGIT/SDP/BV-01-I |
| PAMS 1/1 OR PAMS 1/2 | GATT service verification – PAMS | IOPT/PAMS/SR/GATTDB/BV-01-I |
| PAMS 1/1 | GATT-based service SDP record verification – PAMS | IOPT/PAMS/SR/SGGIT/SDP/BV-01-I |
| PASS 1/1 OR PASS 1/2 | GATT service verification – PASS | IOPT/PASS/SR/GATTDB/BV-01-I |
| PBP 17/2 AND PBP 18/1 | Receiving Public Broadcast Announcements, Standard Quality, Encrypted, LE 2M PHY – PBA | IOPT/PBP/PBA/RCV/BV-06-I |
| PBP 12/1 AND PBP 14a/1 | Receiving Public Broadcast Announcements, Standard Quality, 24_2_1, Encrypted, LE 2M PHY – PBK | IOPT/PBP/PBK/RCV/BV-07-I |
| PLXS 1/1 OR PLXS 1/2 | GATT service verification – PLXS | IOPT/PLXS/SEN/GATTDB/BV-01-I |
| PLXS 1/1 | GATT-based service SDP record verification – PLXS | IOPT/PLXS/SEN/SGGIT/SDP/BV-01-I |
| RAS 1/1 OR RAS 1/2 | GATT service verification – RAS | IOPT/RAS/SR/GATTDB/BV-01-I |
| RCS 2/1 OR RCS 2/2 | GATT service verification – RCS | IOPT/RCS/SR/GATTDB/BV-01-I |
| RSCS 1/1 OR RSCS 1/2 | GATT service verification – RSCS | IOPT/RSCS/SEN/GATTDB/BV-01-I |
| RSCS 1/1 | GATT-based service SDP record verification – RSCS | IOPT/RSCS/SEN/SGGIT/SDP/BV-01-I |
| RTUS 1/1 OR RTUS 1/2 | GATT service verification – RTUS | IOPT/RTUS/SR/GATTDB/BV-01-I |
| SCPS 1/1 OR SCPS 1/2 | GATT service verification – SCPS | IOPT/SCPS/SR/GATTDB/BV-01-I |
| TBS 1/1 OR TBS 1/2 | GATT service verification – TBS | IOPT/TBS/SR/GATTDB/BV-01-I |
| TBS 1/1 | GATT-based service SDP record verification – TBS | IOPT/TBS/SR/SGGIT/SDP/BV-01-I |
| TDS 2/1 OR TDS 2/2 | GATT service verification – TDS | IOPT/TDS/SR/GATTDB/BV-01-I |
| TDS 2/2 | GATT-based service SDP record verification – TDS | IOPT/TDS/SR/SGGIT/SDP/BV-01-I |
| TMAP 1/8 | GATT service verification – TMAP | IOPT/TMAP/SR/GATTDB/BV-01-I |

| Item | Feature | Test Case(s) |
|---|---|---|
| TMAP 1/8 AND TMAP 2/1 | GATT-based service SDP record verification – TMAP | IOPT/TMAP/SR/SGGIT/SDP/BV-01-I |
| TPS 1/1 OR TPS 1/2 | GATT service verification – TPS | IOPT/TPS/SR/GATTDB/BV-01-I |
| UDS 2/1 OR UDS 2/2 | GATT service verification – UDS | IOPT/UDS/SR/GATTDB/BV-01-I |
| UDS 2/1 | GATT-based service SDP record verification – UDS | IOPT/UDS/SR/SGGIT/SDP/BV-01-I |
| VAS 2/1 OR VAS 2/2 | GATT service verification – GVAS | IOPT/GVAS/SR/GATTDB/BV-01-I |
| VAS 11/1 OR VAS 11/2 | GATT service verification – VAS | IOPT/VAS/SR/GATTDB/BV-01-I |
| VCS 1/1 OR VCS 1/2 | GATT service verification – VCS | IOPT/VCS/SR/GATTDB/BV-01-I |
| VCS 1/1 | GATT-based service SDP record verification – VCS | IOPT/VCS/SR/SGGIT/SDP/BV-01-I |
| VOCS 1/1 OR VOCS 1/2 | GATT service verification – VOCS | IOPT/VOCS/SR/GATTDB/BV-01-I |
| VOCS 1/1 | GATT-based service SDP record verification – VOCS | IOPT/VOCS/SR/SGGIT/SDP/BV-01-I |
| WSS 2/1 OR WSS 2/2 | GATT service verification – WSS | IOPT/WSS/SEN/GATTDB/BV-01-I |
| WSS 2/1 | GATT-based service SDP record verification – WSS | IOPT/WSS/SEN/SGGIT/SDP/BV-01-I |

*Table 5.1: Test case mapping*

# 6 Revision history and acknowledgments

***Revision History***

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| | 1.0 | 2004-03-25 | Changed document numbering and revision number to conform to the legacy system. |
| | 1.0.1 | 2004-06-22 | Changed page numbering to have part start on page 1. |
| | 1.0.2 | 2004-06-28 | Replaced Abbreviation Section text with reference to Volume 1 Part A, Section 3.2. |
| | 1.0.3 | 2004-12-03 | Added Disclaimer and Copyright Notice.<br>Incorporated TSE 681 for document preface.<br>Incorporated TSE 682 for IOPT/COD/BV-01-I (legacy test case ID TP/COD/BV-01-I).<br>Incorporated TSE 683 for IOPT/SDSS/BV-02-I (legacy test case ID TP/SDSS/BV-02-I)<br>Incorporated TSE 684 for IOPT/SDAS/BV-03-I (legacy test case ID TP/SDAS/BV-03-I).<br>Made editorial and technical changes. |
| | 2.E.4 | 2004-12-13 | Editorial changes. |
| 0 | 2.0.E.4 | 2005-03-21 | Corrected document revision number. |
| | 2.0.E.5r0 | 2005-08-24 | TSE 762: Corrected cover page to “1.2 or later” and edited TCMT to refer to 1.2 or later ICS |
| 1 | 2.0.E.5 | 2005-09-29 | Prepare for publication. |
| | 2.0.E.6r0 | 2006-04-03 | TSE 840: IOPT/COD/BV-01-I (legacy test case ID TP/COD/BV-01-I) Selection Expression<br>-Removed TP Definition Conventions (duplicate of TSTO)<br>-Removed “Uncertainties;” moved content to Notes section. |
| 2 | 2.0.E.6 | 2006-06-05 | Prepare for publication. |
| | 2.1.E.0r0 | 2008-09 | TSE 2584 Add new test case IOPT/HFP/AG/COD/BV-02-I (legacy test case ID TP/COD/BV-02-I) |
| 3 | 2.1.E.0 | 2008-12-04 | Prepare for publication. |
| | 4.0.0r0 | 2011-11-04 | TSE 4276: IOPT/SDR/BV-04-I (legacy test case ID TP/SDR/BV-04-I): TCMT |
| 4 | 4.0.0 | 2012-03-30 | Prepare for publication. |
| | 4.0.1r00 | 2016-10-14 | TSE 7679: Modified References section and added new references [4] ¬ [26]. Added new section "Connection Successful Regardless of SDP Version". Added mapping for 27 test cases. |
| | 4.0.1r01 | 2016-10-28 | Updated to latest template.<br>Converted to new Test Case ID conventions as defined in TSTO v4.1 |
| 5 | 4.0.1 | 2016-12-13 | Approved by BTI. Prepared for TCRL 2016-2 publication. |

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| | 4.0.2r00 | 2017-09-05 | TSE 9721: Added initial condition, revised the test procedure, revised the pass verdict, and added notes in the Connection Successful Regardless of SDP Version section. Updated the TCMT for IOPT/CL/HFP-HF/SFC/BV-14-I and IOPT/CL/VDP-SNK/SFC/BV-27-I. |
| | 4.0.2r01 | 2017-09-29 | TSE 9152: Replaced “Service Level Connection” with “profile-specific connection” in the Connection Successful Regardless of SDP Version section test procedure and expected outcome. |
| 6 | 4.0.2 | 2017-11-28 | Approved by BTI. Prepared for TCRL 2017-2 publication. |
| | 4.0.3r00 | 2018-02-16 | TSE 10117 (rating 2): Revised mapping to change DUN 1/1 to DUN 1/2 for IOPT/CL/DUN-DT/SFC/BV-08-I in TCMT. |
| 7 | 4.0.3 | 2018-07-01 | Approved by BTI. Prepared for TCRL 2018-1 publication. |
| | p8r00–r01 | 2021-04-03 – 2021-06-09 | TSE 10868 (rating 2): Added back missing pass verdict to IOPT/CL/SDR/BV-04-I. Added references to IXIT in the tests in the “Connection Successful Regardless of SDP Version” section and updated the initial conditions. Rewrote the test procedure for IOPT/CL/HFP-AG/COD/BV-02-I using the current accepted conventions. Replaced outdated roles with “Central” and “Peripheral” in IOPT/SR/COD/BV-01-I.<br>TSE 15815 (rating 1): Deleted TC IOPT/CL/MPS/SFC/BV-19-I, as it is not required. Updated TCMT accordingly.<br>Template-related editorials, including assigning p7 to previous v4.0.3. |
| 8 | p8 | 2021-07-13 | Approved by BTI on 2021-06-03. Prepared for TCRL 2021-1 publication. |
| | p8ed2r00 | 2021-07-26 | TSE 17288 (rating 1): Corrected an A2DP item and editorials to HID v1.1 abbreviation in the TCMT. |
| | p8 edition 2 | 2021-09-28 | Approved by BTI on 2021-09-27. Prepared for edition 2 publication. |
| | p9r00–r17 | 2023-09-29 – 2024-05-20 | TSE 18944 (rating 4): Overhaul of the IOPT TS to align with the new Qualification Program. Deleted old-style TCs and added new IOPT TCs for all affected layers.<br>TSE 23230 (rating 4): Added Mesh Protocol and Mesh Models section to the TSS and added TCs IOPT/MESH/NODE/BV-01-I – -03-I.<br>Details added to Scope, SDP (alignment with new SDP.TS), CoD.<br>New section added on GATT DB.<br>Shortened the TC-ID list to remove long list of X2Core spec- and role-abbrevations.<br>TSE 24239 (rating 4): Updated the TCMT entry for IOPT/SR/COD/BV-01-I. Made the Pass criteria for IOPT/SR/COD/BV-01-I more specific. |

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| | | | TSE 24454 (rating 4): Added IOPT SDPR Server, IOPT SFC Server, and IOPT SDPR test tables new TCIDs as necessary to support generic IOPT SDP-based testing. Updated the TCMT and TCRL accordingly. Included DID, HFP, HID, and HID11 GSIT materials. Added/corrected material for the A2DP layer. Added material for the AVRCP, 3DSP, 3DSP, BPP, CTN, DUN, FTP, HCRP, HDP, HSP, MAP, OPP, PAN, PBAP, SAP, SPP, SYNC, and VDP layers. Updated SFC tests from -C to -I to align with established process. Updated the TCIDs in the tables to align with the TCIDs in the TCMT. Added GGIT test cases for recently converted layers. Removed IOPT/HFP/AG/COD/BV-02-I, which is now in the HFP TS as HFP/AG/COD/BV-02-C. Added the Baseline/Additional statements into the GATTDB tests. Updated the TCMT for IOPT/SR/COD/BV-01-I to use only existing ICS.<br>TSE 24928 (rating 1): Added the test structure for the IOPT/MESH test cases. |
| 9 | p9 | 2024-07-01 | Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication. |
| | p10r00 | 2024-08-20 | TSE 26022 (rating 4): For IOPT/FTMS/SR/GATTDB/BV-01-I, updated the baseline for FTMS/SR/SGGIT/CHA/BV-01-C and added FTMS/SR/SGGIT/CHA/BV-16-C. For IOPT/LNS/SEN/GATTDB/BV-01-I, updated the baseline for LNS/SEN/SGGIT/CHA/BV-01-C and added LNS/SEN/SGGIT/CHA/BV-06-C. For IOPT/RSCS/SEN/GATTDB/BV-01-I, updated the baseline for RSCS/SEN/SGGIT/CHA/BV-02-C and added RSCS/SEN/SGGIT/CHA/BV-05-C. For IOPT/WSS/SEN/GATTDB/BV-01-I, updated the baseline for WSS/SEN/SGGIT/CHA/BV-01-C and added WSS/SEN/SGGIT/CHA/BV-03-C. |
| 10 | p10 | 2024-10-08 | Approved by BTI on 2024-09-11. Prepared for TCRL 2024-2-addition publication. |
| | p11r00 | 2024-10-02 | Incorporated IOPT-related CR supporting the IMDS v1.0 adoption. |
| 11 | p11 | 2024-10-22 | Approved by BTI on 2024-10-13. IMDS v1.0 adopted by the BoD on 2024-10-15. Prepared for supporting publication. |
| | p12r00 | 2024-10-30 | Incorporated IOPT-related CR supporting the RAS v1.0 adoption. |
| 12 | p12 | 2024-11-19 | Approved by BTI on 2024-11-10. RAS v1.0 adopted by the BoD on 2024-11-12. Prepared for supporting publication. |
| | p13r00–r01 | 2024-11-19 – 2024-12-06 | TSE 25717 (rating 2): Updated the Baseline/Additional column value for BAS/SR/SGGIT/CHA/BV-01-C in the IOPT GATTDB tests section.<br>Deleted the following test cases because these TCs refer to deprecated versions in HSP and VDP: |

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| | | | HSP/HS/SGSIT/SERR/BV-01-C, HSP/HS/SGSIT/ATTR/BV-02-C, HSP/AG/SGSIT/ATTR/BV-06-C, VDP/SRC/SGSIT/ATTR/BV-02-C, and VDP/SNK/SGSIT/ATTR/BV-05-C. |
| 13 | p13 | 2025-02-18 | Approved by BTI on 2024-12-18. Prepared for TCRL 2025-1 publication. |
| | p14r00–r01 | 2025-02-04 – 2025-04-03 | TSE 26972 (rating 2): Updated the Baseline/Additional values for TCs BLS/SEN/SGGIT/CHA/BV-03-C – -05-C and -09-C.<br>TSE 27022 (rating 2): Updated the Baseline/Additional value for ASCS/SR/SGGIT/CHA/BV-01-C and -02-C in the IOPT GATTDB tests table.<br>TSE 27023 (rating 2): Updated the Baseline/Additional value for GMCS/SR/SGGIT/CHA/BV-02-C and -03-C in the IOPT GATTDB tests table.<br>TSE 27024 (rating 2): Updated the Baseline/Additional value for MCS/SR/SGGIT/CHA/BV-02-C and -03-C in the IOPT GATTDB tests table.<br>TSE 27032 (rating 2): Updated the Baseline/Additional value for VCS/SR/SGGIT/CHA/BV-03-C and added VCS/SR/SGGIT/CHA/BV-04-C in the IOPT GATTDB tests table.<br>TSE 27036 (rating 2): Updated the Baseline/Additional value for TC BMS/SEN/SGGIT/CHA/BV-03-C.<br>TSE 27038 (rating 2): Updated the Baseline/Additional values for TCs DIS/SR/SGGIT/CHA/BV-01-C – -09-C.<br>TSE 27039 (rating 2): Updated the Baseline/Additional value for TCs GLS/SEN/SGGIT/CHA/BV-03-C, -04-C, and -06-C.<br>TSE 27040 (rating 2): Updated the Baseline/Additional value for TCs HTS/SEN/SGGIT/CHA/BV-03-C – -07-C and HTS/SEN/SGGIT/DES/BV-01-C.<br>TSE 27047 (rating 2): Updated the Baseline/Additional value for TCs IDS/SEN/SGGIT/CHA/BV-05-C, -07-C, -09-C, and -11-C.<br>TSE 27048 (rating 2): Updated the Baseline/Additional value for TCs IMDS/SR/SGGIT/CHA/BV-01-C – -14-C.<br>TSE 27049 (rating 2): Updated the Baseline/Additional value for TC IPS/SR/SGGIT/SER/BV-01-C.<br>TSE 27050 (rating 2): Updated the Baseline/Additional value for TCs LNS/SEN/SGGIT/CHA/BV-03-C and -04-C. Corrected a typo in the TCID for LNS/SEN/SGGIT/SER/BV-01-C in the IOPT GATTDB tests table.<br>TSE 27051 (rating 2): Updated the description of GATT-based TC IOPT/LNS/SEN/SGGIT/SDP/BV-01-I and updated the TCID for LNS/SEN/SGGIT/SDP/BV-01-C.<br>TSE 27052 (rating 2): Updated the Baseline/Additional value for TC OTS/SR/SGGIT/CHA/BV-10-C. |

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| | | | TSE 27054 (rating 2): Updated the Baseline/Additional value for TCs TDS/SR/SGGIT/CHA/BV-02-C and TDS/SR/SGGIT/DES/BV-05-C.<br>TSE 27063 (rating 2): Updated the Baseline/Additional value for TC BIP/SR/SGSIT/ATTR/BV-01-C.<br>TSE 27064 (rating 2): Updated the Baseline/Additional value for TCs BPP/SD/SGSIT/ATTR/BV-23-C – -25-C.<br>TSE 27065 (rating 2): Updated the Baseline/Additional value for DUN/GW/SGSIT/OFFS/BV-01-C in the IOPT SDPR tests table.<br>TSE 27459 (rating 2): Updated the Baseline/Additional value for TCs HID/DEV/SGSIT/ATTR/BV-05-C and -16-C. |
| 14 | p14 | 2025-07-08 | Approved by BTI on 2025-05-28. Prepared for TCRL pkg100 publication. |
| | p15r00–r03 | 2025-07-14 – 2025-07-20 | TSE 27956 (rating 4): Added new TC IOPT/HOGP/SR/GATTDB/BV-01-I and updated the TCMT accordingly. Updated the references list. |
| 15 | p15 | 2025-08-12 | Approved by BTI on 2025-07-14. HOGP v1.1 adopted by the BoD on 2025-08-11. Prepared for supporting publication. |
| | p16r00–r10 | 2025-08-18 – 2025-10-09 | TSE 27823 (rating 3): Updated the initial condition, test procedure, and expected outcome for IOPT/SR/COD/BV-01-I such that CoD tests allow for the IUT as Central.<br>TSE 27936 (rating 4): Added two new TCs: IOPT/PBP/PBK/RCV/BV-07-I and IOPT/PBP/PBA/RCV/BV-06-I. Updated the TCMT accordingly. Added an LE Audio section to the Test Suite Structure. Updated the references list.<br>Incorporated CR CSIS_TEST_CR_d1.1_r06. To account for the Coordinated Set Name feature enhancement in Coordinated Set Identification Service Specification v1.1, added new entries to the IOPT GATTDB tests TC Configuration table to include new TCs CSIS/SR/SGGIT/BV-07-C and -08-C.<br>Incorporated IOPT-related CR supporting the CWS v1.0 adoption. Added two new TCs: IOPT/CWS/SR/GATTDB/BV-01-I and IOPT/CWS/SR/SGGIT/SDP/BV-01-I. Updated the IOPT SGSIT SDP tests, TCMT, and references accordingly. |
| 16 | p16 | 2025-11-04 | Approved by BTI on 2025-10-16. CWP v1.0, CWS v1.0, CSIS v1.1, and CSIP v1.1 adopted by the BoD on 2025-11-03. Prepared for supporting publication. |
| | p17r00 | 2025-11-10 | Incorporated IOPT-related CR supporting the VAS v1.0 adoption. Added two new TCs: IOPT/GVAS/SR/GATTDB/BV-01-I and IOPT/VAS/SR/GATTDB/BV-01-I. Updated the IOPT SGGIT GVAS and VAS tests, TCMT, and references accordingly. |

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| 17 | p17 | 2025-12-16 | Approved by BTI on 2025-11-24. VAS v1.0 adopted by the BoD on 2025-12-15. Prepared for supporting publication. |

***Acknowledgments***

| Name | Company |
|---|---|
| Tharon Hall | Bluetooth SIG, Inc. |
| Alicia Courtney | Broadcom |
| Magnus Sommansson | Qualcomm Technologies, Inc |