# Interoperable Product Testing (IOPT)

***Bluetooth*® Implementation Conformance Statement (ICS) Proforma**

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# 1 General principles

## 1.1 Implementation Under Test (IUT) identification

Using the Bluetooth SIG qualification tool, the implementer is expected to declare details about what will be implemented.

## 1.2 Auto-fill tables

This ICS includes one or more tables that are defined as auto-fill tables. Auto-fill tables are defined to allow for less-complex conditions within other tables. Auto-fill tables are distinguished from regular ICS tables by the addition of “(auto-fill)” after the table number, prior to the colon “:”.

An auto-fill table is automatically populated based on selected capabilities elsewhere in the ICS. The populated settings in the auto-fill table are not user editable.

# 2 ICS declarations

## 2.1 Traditional Profiles

The “Inter-Layer Prerequisite” column used in the table below specifies a prerequisite for each item. Thus, for example, Table 1, Item 2a (Source (A2DP)), is excluded unless A2DP 1/1 is true; otherwise, the item is mandatory.

**Table 1 (auto-fill): Traditional Profiles**

| Item | Feature | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 1 | 3D Synchronization Profile (3DSP) | [1] | [1] 3DSP | M |
| 1a | 3DD – 3D Display | [1] | [1] 3DSP 1/1 | M |
| 1b | 3DG – 3D Glasses | [1] | [1] 3DSP 1/2 | M |
| 2 | Advanced Audio Distribution Profile (A2DP) | [2] | [2] A2DP | M |
| 2a | Source (A2DP) | [2] | [2] A2DP 1/1 | M |
| 2b | Sink (A2DP) | [2] | [2] A2DP 1/2 | M |
| 3 | Audio/Video Remote Control Profile (AVRCP) | [3] | [3] AVRCP | M |
| 3a | Controller | [3] | [3] AVRCP 1/1 | M |
| 3b | Target | [3] | [3] AVRCP 1/2 | M |
| 4 | Basic Imaging Profile (BIP) | [4] | [4] BIP | M |
| 4a | Image Push Responder | [4] | [4] BIP 1/2 | M |
| 4b | Image Pull Responder | [4] | [4] BIP 1/4 | M |
| 4c | Advanced Image Printing Responder (= Printer) | [4] | [4] BIP 1/6 | M |
| 4d | Automatic Archive Responder | [4] | [4] BIP 1/8 | M |
| 4e | Remote Camera Responder | [4] | [4] BIP 1/10 | M |
| 4f | Remote Display Responder | [4] | [4] BIP 1/12 | M |
| 5 | Basic Printing Profile (BPP) | [5] | [5] BPP | M |
| 5a | Printer (Pr) | [5] | [5] BPP 1/1 | M |
| 5b | Sender Device (SD) | [5] | [5] BPP 1/2 | M |
| 6 | Calendar, Tasks and Notes Profile (CTN) | [6] | [6] CTN | M |
| 6a | CTN Client Equipment | [6] | [6] CTN 1/1 | M |
| 6b | CTN Server Equipment | [6] | [6] CTN 1/2 | M |
| 7 | Device Identification (DID) | [7] | [7] DID | M |
| 8 | Dial-up Networking Profile (DUN) | [8] | [8] DUN | M |
| 8a | Gateway (GW) | [8] | [8] DUN 1/1 | M |
| 9 | File Transfer Profile (FTP) | [9] | [9] FTP | M |
| 9a | File Transfer Server | [9] | [9] FTP 1/1 | M |
| 10 | Global Navigation Satellite Systems Profile (GNSS) | [10] | [10] GNSS | M |
| 10a | Server (GNSS) | [10] | [10] GNSS 1/1 | M |
| 11 | Hardcopy Cable Replacement Profile (HCRP) | [11] | [11] HCRP | M |

| Item | Feature | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 11a | Server (HCRP) | [11] | [11] HCRP 1/1 | M |
| 11b | Client (HCRP) | [11] | [11] HCRP 1/2 | M |
| 12 | Health Device Profile (HDP) | [12] | [12] HDP | M |
| 12a | Source (HDP) | [12] | [12] HDP 1/1 | M |
| 12b | Sink (HDP) | [12] | [12] HDP 1/2 | M |
| 13 | Hands-Free Profile (HFP) | [13] | [13] HFP | M |
| 13a | Audio Gateway (AG) (HFP) | [13] | [13] HFP 1/1 | M |
| 13b | Hands-Free (HF) | [13] | [13] HFP 1/2 | M |
| 14 | Human Interface Device v1.0 (HID) | [14] | [14] HID | M |
| 14a | Device | [14] | [14] HID 1/2 | M |
| 15 | Human Interface Device v1.1 or later (HID11) | [15] | [15] HID11 | M |
| 15a | HID Device Role | [15] | [15] HID11 1/4 | M |
| 16 | Headset Profile (HSP) | [16] | [16] HSP | M |
| 16a | Audio Gateway (AG) (HSP) | [16] | [16] HSP 1/1 | M |
| 16b | Headset (HS) | [16] | [16] HSP 1/2 | M |
| 17 | Message Access Profile (MAP) | [17] | [17] MAP | M |
| 17a | Messaging Server Equipment | [17] | [17] MAP 1/1 | M |
| 17b | Notification (MCE) | [17] | [17] MAP 2/1 | M |
| 18 | Multi-Profile Specification (MPS) | [18] | [18] MPS | M |
| 19 | Object Push Profile (OPP) | [19] | [19] OPP | M |
| 19a | Object Push Server | [19] | [19] OPP 1/2 | M |
| 20 | Personal Area Networking (PAN) | [20] | [20] PAN | M |
| 20a | Network Access Point | [20] | [20] PAN 1/1 | M |
| 20b | Group Ad-hoc Network | [20] | [20] PAN 1/2 | M |
| 20c | PANU Service Record | [20] | [20] PAN 4/15 | M |
| 21 | Phone Book Access Profile (PBAP) | [21] | [21] PBAP | M |
| 21a | PCE | [21] | [21] PBAP 1/1 | M |
| 21b | PSE | [21] | [21] PBAP 1/2 | M |
| 22 | SIM Access Profile (SAP) | [22] | [22] SAP | M |
| 22a | SIM Access Server (Server) | [22] | [22] SAP 1/2 | M |
| 23 | Serial Port Profile (SPP) | [23] | [23] SPP | M |
| 23a | SPP as a standalone profile – Device B (DevB) | [23] | [23] SPP 2/1b | M |
| 24 | Synchronization Profile (SYNC) | [24] | [24] SYNC | M |
| 24a | IrMC Server | [24] | [24] SYNC 1/2 | M |
| 24b | Sync command (IrMC Client) | [24] | [24] SYNC 2/10 | M |
| 25 | Video Distribution Profile (VDP) | [25] | [25] VDP | M |
| 25a | Source (VDP) | [25] | [25] VDP 1/1 | M |
| 25b | Sink (VDP) | [25] | [25] VDP 1/2 | M |

**Table 1a (auto-fill): Implementation of at Least One Traditional Profile**

| Item | Feature | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 1 | Implementation of at least one traditional profile | N/A | N/A | C.1 |

C.1: Mandatory IF at least one Traditional Profile in Table 1 is supported, otherwise Excluded.

## 2.2 GATT-based Services

All GATT-based services defined in the Assigned Numbers document [87] are listed in Table 2.

The “Inter-Layer Prerequisite” column used in the table below specifies a prerequisite for each item. Thus, for example, Table 2, Item 2a (Audio Input Control Service (AICS) over BR/EDR), is excluded unless AICS 1/1 is true; otherwise, the item is mandatory. Furthermore, in those instances where the Status column has a condition that excludes the item, the reference in the “Inter-Layer Prerequisite” column must be false.

**Table 2 (auto-fill): GATT-Based Services**

| Item | Feature* | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 1a | Authorization Control Service (ACS) over BR/EDR | [26] | [26] ACS 2/1 | M |
| 1b | Authorization Control Service (ACS) over LE | [26] | [26] ACS 2/2 | M |
| 2a | Audio Input Control Service (AICS) over BR/EDR | [27] | [27] AICS 1/1 | M |
| 2b | Audio Input Control Service (AICS) over LE | [27] | [27] AICS 1/2 | M |
| 3a | Automation IO Service (AIOS) over BR/EDR | [28] | [28] AIOS 1/1 | M |
| 3b | Automation IO Service (AIOS) over LE | [28] | [28] AIOS 1/2 | M |
| 4a | Alert Notification Service (ANS) over BR/EDR | [29] | [29] ANS 1/1 | C.1 |
| 4b | Alert Notification Service (ANS) over LE | [29] | [29] ANS 1/2 | M |
| 5a | Audio Stream Control Service (ASCS) over BR/EDR | [30] | [30] ASCS 2/1 | M |
| 5b | Audio Stream Control Service (ASCS) over LE | [30] | [30] ASCS 2/2 | M |
| 6a | Battery Service (BAS) over BR/EDR | [31] | [31] BAS 1/1 | M |
| 6b | Battery Service (BAS) over LE | [31] | [31] BAS 1/2 | M |
| 7a | Broadcast Audio Scan Service (BASS) over BR/EDR | [32] | [32] BASS 2/1 | M |
| 7b | Broadcast Audio Scan Service (BASS) over LE | [32] | [32] BASS 2/2 | M |
| 8a | Body Composition Service (BCS) over BR/EDR | [33] | [33] BCS 2/1 | M |
| 8b | Body Composition Service (BCS) over LE | [33] | [33] BCS 2/2 | M |
| 9a | Blood Pressure Service (BLS) over BR/EDR | [34] | [34] BLS 1/1 | C.1 |
| 9b | Blood Pressure Service (BLS) over LE | [34] | [34] BLS 1/2 | M |
| 10a | Bond Management Service (BMS) over BR/EDR | [35] | [35] BMS 2/1 | M |

| Item | Feature* | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 10b | Bond Management Service (BMS) over LE | [35] | [35] BMS 2/2 | M |
| 11a | Binary Sensor Service (BSS) over BR/EDR | [36] | [36] BSS 2/1 | C.1 |
| 11b | Binary Sensor Service (BSS) over LE | [36] | [36] BSS 2/2 | M |
| 12a | Common Audio Service (CAS) over BR/EDR | [37] | [37] CAS 2/1 | M |
| 12b | Common Audio Service (CAS) over LE | [37] | [37] CAS 2/2 | M |
| 13a | Continuous Glucose Monitoring Service (CGMS) over BR/EDR | [38] | [38] CGMS 1/1 | M |
| 13b | Continuous Glucose Monitoring Service (CGMS) over LE | [38] | [38] CGMS 1/2 | M |
| 14a | Cycling Power Service (CPS) over BR/EDR | [39] | [39] CPS 1/1 | M |
| 14b | Cycling Power Service (CPS) over LE | [39] | [39] CPS 1/2 | M |
| 15a | Cycling Speed and Cadence Service (CSCS) over BR/EDR | [40] | [40] CSCS 1/1 | M |
| 15b | Cycling Speed and Cadence Service (CSCS) over LE | [40] | [40] CSCS 1/2 | M |
| 16a | Coordinated Set Identification Service (CSIS) over BR/EDR | [41] | [41] CSIS 1/1 | M |
| 16b | Coordinated Set Identification Service (CSIS) over LE | [41] | [41] CSIS 1/2 | M |
| 17a | Constant Tone Extension Service (CTES) over BR/EDR | [42] | [42] CTES 1/1 | C.1 |
| 17b | Constant Tone Extension Service (CTES) over LE | [42] | [42] CTES 1/2 | M |
| 18a | Current Time Service (CTS) over BR/EDR | [43] | [43] CTS 1/1 | M |
| 18b | Current Time Service (CTS) over LE | [43] | [43] CTS 1/2 | M |
| 65a | Cookware Service (CWS) over BR/EDR | [89] | [89] CWS 2/1 | M |
| 65b | Cookware Service (CWS) over LE | [89] | [89] CWS 2/2 | M |
| 19a | Device Information Service (DIS) over BR/EDR | [44] | [44] DIS 1/1 | M |
| 19b | Device Information Service (DIS) over LE | [44] | [44] DIS 1/2 | M |
| 20a | Device Time Service (DTS) over BR/EDR | [45] | [45] DTS 1/1 | M |
| 20b | Device Time Service (DTS) over LE | [45] | [45] DTS 1/2 | M |
| 21a | Emergency Configuration Service (EMCS) over BR/EDR | [46] | [46] EMCS 2/1 | C.1 |
| 21b | Emergency Configuration Service (EMCS) over LE | [46] | [46] EMCS 2/2 | M |
| 22a | Electronic Shelf Label Service (ESLS) over BR/EDR | [47] | [47] ESLS 2/1 | C.1 |
| 22b | Electronic Shelf Label Service (ESLS) over LE | [47] | [47] ESLS 2/2 | M |
| 23a | Environmental Sensing Service (ESS) over BR/EDR | [48] | [48] ESS 2/1 | M |

| Item | Feature* | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 23b | Environmental Sensing Service (ESS) over LE | [48] | [48] ESS 2/2 | M |
| 24a | Elapsed Time Service (ETS) over BR/EDR | [49] | [49] ETS 2/1 | M |
| 24b | Elapsed Time Service (ETS) over LE | [49] | [49] ETS 2/2 | M |
| 63a | Gaming Audio Service (GMAS) over BR/EDR | [86] | [86] GMAP 108/2 | M |
| 63b | Gaming Audio Service (GMAS) over LE | [86] | [86] GMAP 108/1 | M |
| 25a | Fitness Machine Service (FTMS) over BR/EDR | [50] | [50] FTMS 2/1 | M |
| 25b | Fitness Machine Service (FTMS) over LE | [50] | [50] FTMS 2/2 | M |
| 26a | Generic Health Sensor Service (GHSS) over BR/EDR | [51] | [51] GHSS 2/1 | M |
| 26b | Generic Health Sensor Service (GHSS) over LE | [51] | [51] GHSS 2/2 | M |
| 66a | Generic Voice Assistant Service (GVAS) over BR/EDR | [90] | [90] VAS 2/1 | C.1 |
| 66b | Generic Voice Assistant Service (GVAS) over LE | [90] | [90] VAS 2/2 | M |
| 27a | Glucose Service (GLS) over BR/EDR | [52] | [52] GLS 1/1 | C.1 |
| 27b | Glucose Service (GLS) over LE | [52] | [52] GLS 1/2 | M |
| 28a | Generic Media Control Service (GMCS) over BR/EDR | [64] | [64] MCS 21/1 | M |
| 28b | Generic Media Control Service (GMCS) over LE | [64] | [64] MCS 21/2 | M |
| 29a | Generic Telephone Bearer Service (GTBS) over BR/EDR | [76] | [76] TBS 21/1 | M |
| 29b | Generic Telephone Bearer Service (GTBS) over LE | [76] | [76] TBS 21/2 | M |
| 30a | Hearing Access Service (HAS) over BR/EDR | [53] | [53] HAS 2/1 | C.1 |
| 30b | Hearing Access Service (HAS) over LE | [53] | [53] HAS 2/2 | M |
| 64a | HID ISO Service over BR/EDR (HOGP) | [88] | [88] HOGP 2/1 | C.1 |
| 64b | HID ISO Service over LE (HOGP) | [88] | [88] HOGP 3/6 | M |
| 31a | HID Service (HIDS) over BR/EDR | [54] | [54] HIDS 1/1 | C.1 |
| 31b | HID Service (HIDS) over LE | [54] | [54] HIDS 1/2 | M |
| 32a | HTTP Proxy Service (HPS) over BR/EDR | [55] | [55] HPS 1/1 | M |
| 32b | HTTP Proxy Service (HPS) over LE | [55] | [55] HPS 1/2 | M |
| 33a | Heart Rate Service (HRS) over BR/EDR | [56] | [56] HRS 1/1 | C.1 |
| 33b | Heart Rate Service (HRS) over LE | [56] | [56] HRS 1/2 | M |
| 34a | Health Thermometer Service (HTS) over BR/EDR | [57] | [57] HTS 1/1 | C.1 |
| 34b | Health Thermometer Service (HTS) over LE | [57] | [57] HTS 1/2 | M |
| 35a | Immediate Alert Service (IAS) over BR/EDR | [58] | [58] IAS 1/1 | C.1 |
| 35b | Immediate Alert Service (IAS) over LE | [58] | [58] IAS 1/2 | M |

| Item | Feature* | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 61a | Industrial Measurement Device Service (IMDS) over BR/EDR | [84] | [84] IMDS 2/1 | M |
| 61b | Industrial Measurement Device Service (IMDS) over LE | [84] | [84] IMDS 2/2 | M |
| 36a | Insulin Delivery Service (IDS) over BR/EDR | [59] | [59] IDS 1/1 | C.1 |
| 36b | Insulin Delivery Service (IDS) over LE | [59] | [59] IDS 1/2 | M |
| 37a | Indoor Positioning Service (IPS) over BR/EDR | [60] | [60] IPS 3/1 | M |
| 37b | Indoor Positioning Service (IPS) over LE | [60] | [60] IPS 3/2 | M |
| 38a | IP Support Service Declaration (Internet Protocol Support Service (IPSS)) over BR/EDR | [61] | [61] IPSP 2/2 AND IPSP 3/1 | C.1 |
| 38b | IP Support Service Declaration (Internet Protocol Support Service (IPSS)) over LE | [61] | [61] IPSP 2/1 AND IPSP 3/1 | M |
| 39a | Link Loss Service (LLS) over BR/EDR | [62] | [62] LLS 1/1 | C.1 |
| 39b | Link Loss Service (LLS) over LE | [62] | [62] LLS 1/2 | M |
| 40a | Location and Navigation Service (LNS) over BR/EDR | [63] | [63] LNS 1/1 | M |
| 40b | Location and Navigation Service (LNS) over LE | [63] | [63] LNS 1/2 | M |
| 41a | Media Control Service (MCS) over BR/EDR | [64] | [64] MCS 1/1 | M |
| 41b | Media Control Service (MCS) over LE | [64] | [64] MCS 1/2 | M |
| 42a | Microphone Control Service (MICS) over BR/EDR | [65] | [65] MICS 1/1 | M |
| 42b | Microphone Control Service (MICS) over LE | [65] | [65] MICS 1/2 | M |
| 43a | Next DST Change Service (NDCS) over BR/EDR | [66] | [66] NDCS 1/1 | C.1 |
| 43b | Next DST Change Service (NDCS) over LE | [66] | [66] NDCS 1/2 | M |
| 44a | Object Transfer Service (OTS) over BR/EDR | [67] | [67] OTS 2/2 | M |
| 44b | Object Transfer Service (OTS) over LE | [67] | [67] OTS 2/1 | M |
| 45a | Published Audio Capabilities Service (PACS) over BR/EDR | [68] | [68] PACS 2/1 | M |
| 45b | Published Audio Capabilities Service (PACS) over LE | [68] | [68] PACS 2/2 | M |
| 46a | Physical Activity Monitor Service (PAMS) over BR/EDR | [69] | [69] PAMS 1/1 | M |
| 46b | Physical Activity Monitor Service (PAMS) over LE | [69] | [69] PAMS 1/2 | M |
| 47a | Phone Alert Status Service (PASS) over BR/EDR | [70] | [70] PASS 1/1 | C.1 |
| 47b | Phone Alert Status Service (PASS) over LE | [70] | [70] PASS 1/2 | M |
| 48a | Pulse Oximeter Service (PLXS) over BR/EDR | [71] | [71] PLXS 1/1 | M |
| 48b | Pulse Oximeter Service (PLXS) over LE | [71] | [71] PLXS 1/2 | M |

| Item | Feature* | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 62a | Ranging Service (RAS) over BR/EDR | [85] | [85] RAS 1/1 | C.1 |
| 62b | Ranging Service (RAS) over LE | [85] | [85] RAS 1/2 | M |
| 49a | Reconnection Configuration Service (RCS) over BR/EDR | [72] | [72] RCS 2/2 | C.1 |
| 49b | Reconnection Configuration Service (RCS) over LE | [72] | [72] RCS 2/1 | M |
| 50a | Running Speed and Cadence Service (RSCS) over BR/EDR | [73] | [73] RSCS 1/1 | M |
| 50b | Running Speed and Cadence Service (RSCS) over LE | [73] | [73] RSCS 1/2 | M |
| 51a | Reference Time Update Service (RTUS) over BR/EDR | [74] | [74] RTUS 1/1 | C.1 |
| 51b | Reference Time Update Service (RTUS) over LE | [74] | [74] RTUS 1/2 | M |
| 52a | Scan Parameters Service (SCPS) over BR/EDR | [75] | [75] SCPS 1/1 | C.1 |
| 52b | Scan Parameters Service (SCPS) over LE | [75] | [75] SCPS 1/2 | M |
| 53a | Telephone Bearer Service (TBS) over BR/EDR | [76] | [76] TBS 1/1 | M |
| 53b | Telephone Bearer Service (TBS) over LE | [76] | [76] TBS 1/2 | M |
| 54a | Transport Discovery Service (TDS) over BR/EDR | [77] | [77] TDS 2/2 | M |
| 54b | Transport Discovery Service (TDS) over LE | [77] | [77] TDS 2/1 | M |
| 55a | Telephony and Media Audio Service (TMAS) over BR/EDR | [78] | [78] TMAP 154/2 | M |
| 55b | Telephony and Media Audio Service (TMAS) over LE | [78] | [78] TMAP 154/1 | M |
| 56a | Tx Power Service (TPS) over BR/EDR | [79] | [79] TPS 1/1 | C.1 |
| 56b | Tx Power Service (TPS) over LE | [79] | [79] TPS 1/2 | M |
| 57a | User Data Service (UDS) over BR/EDR | [80] | [80] UDS 2/1 | M |
| 57b | User Data Service (UDS) over LE | [80] | [80] UDS 2/2 | M |
| 67a | Voice Assistant Service (VAS) over BR/EDR | [90] | [90] VAS 11/1 | C.1 |
| 67b | Voice Assistant Service (VAS) over LE | [90] | [90] VAS 11/2 | M |
| 58a | Volume Control Service (VCS) over BR/EDR | [81] | [81] VCS 1/1 | M |
| 58b | Volume Control Service (VCS) over LE | [81] | [81] VCS 1/2 | M |
| 59a | Volume Offset Control Service (VOCS) over BR/EDR | [82] | [82] VOCS 1/1 | M |
| 59b | Volume Offset Control Service (VOCS) over LE | [82] | [82] VOCS 1/2 | M |

| Item | Feature* | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 60a | Weight Scale Service (WSS) over BR/EDR | [83] | [83] WSS 2/1 | M |
| 60b | Weight Scale Service (WSS) over LE | [83] | [83] WSS 2/2 | M |

C.1: Excluded for this Service.

* Table is ordered alphabetically by Feature.

**Table 2a (auto-fill): Implementation of at Least One GATT-Based Service**

| Item | Feature | Reference | Inter-Layer Prerequisite | Status |
|---|---|---|---|---|
| 1 | Implementation of at least one GATT-based service over BR/EDR | N/A | N/A | C.1 |
| 2 | Implementation of at least one GATT-based service over LE | N/A | N/A | C.2 |

C.1: Mandatory IF at least one GATT-Based Service supported over BR/EDR in Table 2 is supported, otherwise Excluded.

C.2: Mandatory IF at least one GATT-Based Service supported over LE in Table 2 is supported, otherwise Excluded.

# 3 Inter-layer dependencies in the X2Core layers (informational)

X2Core layer may have dependencies on Core layers or on X2Core layers. Inter-layer dependencies (ILDs) are used to express that a feature in a higher layer depends on supporting features in lower layers. Reverse ILDs express that a lower-layer feature triggers or requires support from a corresponding higher-layer feature. While the objective is to handle these dependencies via (Reverse) ILDs, a few X2Core layers still reference other Core layers in their ICS conditions and Test Case Mapping Tables (TCMTs). Details about ILDs can be found in [91].

Table 3.1 shows the references for LE Audio and GATT-based Profiles and Services, as defined in TCRL pkg101, using the latest version of the test documents (ICS and TS).

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| ACP | BR/EDR, LE | GAP, GATT | GATT | ACS | | ACS |
| ACS | BR/EDR, LE | GATT | | | | |
| AICS | BR/EDR, LE | GATT | | | | |
| AIOP | BR/EDR, LE | GAP, GATT | GATT | | | AIOS |
| AIOS | BR/EDR, LE | GATT | | | | |
| ANP | LE | GAP, GATT | | | | ANS |
| ANS | LE | GATT | | | | |
| ASCS | BR/EDR, LE | GATT | | | | PACS |
| ATP | LE | **LL**, GAP, GATT | | | | CTES |
| BAP | BR/EDR, LE | **LL**, GAP, GATT | | | | LC3, ASCS, PACS, BASS |
| BAS | BR/EDR, LE | GAP, GATT | | | | |
| BASS | BR/EDR, LE | GAP, GATT | | | | |
| BCS | BR/EDR, LE | GAP, GATT | | | | |
| BLP | LE | GAP, GATT | GATT | | | BLS, DIS, DTP, UDS |
| BLS | LE | GAP, GATT | | | | |
| BMS | BR/EDR, LE | GATT | | | | |
| BSP | LE | GAP, GATT | | | | BSS |
| BSS | LE | GATT | | | | |

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| CAP | LE | GAP, GATT | | | | CSIP, BAP, VCP, MICP, CCP, MCP, CAS, VCS, VOCS, MICS, AICS, CSIS, ASCS, BASS, PACS |
| CAS | BR/EDR, LE | GATT | | | | |
| CCP | BR/EDR, LE | **LL**, GAP, GATT | GATT | | | TBS |
| CGMP | BR/EDR, LE | GAP, GATT | | | | CGMS, DIS, BMS |
| CGMS | BR/EDR, LE | GATT | | | | |
| CHP | BR/EDR, LE | GAP, GATT | | | | TDS |
| CPP | BR/EDR, LE | GAP, GATT | GATT | | | BAS, CPS, DIS |
| CPS | BR/EDR, LE | GAP, GATT | | | | |
| CSCP | BR/EDR, LE | GAP, GATT | GATT | | | CSCS, DIS |
| CSCS | BR/EDR, LE | GAP, GATT | | | | |
| CSIP | BR/EDR, LE | GAP, GATT | GATT | | | CSIS |
| CSIS | BR/EDR, LE | GAP, GATT | | | | |
| CTES | LE | GATT | | | | |
| CTS | BR/EDR, LE | GATT | | | | |
| CWP | BR/EDR, LE | GAP, GATT | | | | BAS, CWS, DIS |
| CWS | BR/EDR, LE | GATT | | | | |
| DIS | BR/EDR, LE | GATT | | | | |
| DTP | BR/EDR, LE | GAP, GATT | GATT | | | DTS |
| DTS | BR/EDR, LE | GAP, GATT | | | | |
| EMCS | LE | GATT | | | | |
| EMP | LE | GAP[1] | | | | EMCS |
| ESLP | LE | GAP, GATT | | | ESLS | DIS, ESLS, OTP, OTS |
| ESLS | LE | GATT | | | | |
| ESP | BR/EDR, LE | GAP, GATT | GATT | | | BAS, DIS, ESS |

[1] EMP does not have GATT.

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| ESS | BR/EDR, LE | GATT | | | | |
| ETS | BR/EDR, LE | GATT | | | | |
| FMP | LE | GAP, GATT | | | | IAS |
| FTMP | BR/EDR, LE | GAP, GATT | GATT | | | DIS, FTMS, UDS |
| FTMS | BR/EDR, LE | GAP, GATT | | | | |
| GHSP | BR/EDR, LE | GAP, GATT | GATT | | | BAS, DIS, ETS, GHSS, RCP, RCS, UDS |
| GHSS | BR/EDR, LE | GAP, GATT | | | | |
| GLP | LE | GAP, GATT | GATT | | | DIS, GLS |
| GLS | LE | GAP, GATT | | | | |
| GMAP | LE | **LL**, GAP, GATT | | GATT | | BAP, CAP, CSIP |
| HAP | LE | **LL**, GAP, GATT | | | | BAP, CAP, CCP, CSIP, CSIS, IAS, MICP, HAS, VCP |
| HAS | LE | GATT | | | | |
| HIDS | LE | GATT | | | | |
| HOGP | LE | GAP, GATT | | | | BAS, DIS, HIDS, SCPP, SCPS |
| HPS | BR/EDR, LE | GAP, GATT | | | | |
| HRP | LE | GAP, GATT | GATT | | | DIS, HRS |
| HRS | LE | GATT | | | | |
| HTP | LE | GAP, GATT | GATT | | | DIS, HTS |
| HTS | LE | GAP, GATT | | | | |
| IAS | LE | GATT | | | | |
| IDP | LE | GAP, GATT | | IDS | | BAS, BMS, CTS, DIS, IAS, IDS |
| IDS | LE | GAP, GATT | | | | |
| IMDP | BR/EDR, LE | GAP, GATT | | | | BAS, DIS, ETS, IMDS |
| IMDS | BR/EDR, LE | GATT | | | | |
| IPS | BR/EDR, LE | GAP, GATT | | | | |

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| IPSP | LE | GAP, GATT, L2CAP | | | | [2] |
| LLS | LE | GATT | | | | |
| LNP | BR/EDR, LE | GAP, GATT | GATT | | | BAS, DIS, LNS |
| LNS | BR/EDR, LE | GAP, GATT | | | | |
| MCP | BR/EDR, LE | **LL**, GAP, GATT | GATT | | | MCS, OTP, OTS |
| MCS | BR/EDR, LE | GATT | | | | OTS |
| MICP | BR/EDR, LE | GAP, GATT | GATT | | | AICS, MICS |
| MICS | BR/EDR, LE | GATT | | | | |
| NDCS | LE | GATT | | | | |
| OTP | BR/EDR, LE | GATT, L2CAP[3] | GATT | | | OTS |
| OTS | BR/EDR, LE | GATT | | | | |
| PACS | BR/EDR, LE | GAP, GATT | | | | |
| PAMP | BR/EDR, LE | GAP, GATT | GATT | PAMS | | PAMS, DIS, UDS, DTP |
| PAMS | BR/EDR, LE | GATT | | | | |
| PASP | LE | GAP, GATT | | | | PASS |
| PASS | LE | GATT | | | | |
| PBP | LE | **LL**[4] | | | | CAP, BAP |
| PLXP | BR/EDR, LE | GAP, GATT | GATT | | | BAS, BMS, CTS, DIS, PLXS |
| PLXS | BR/EDR, LE | GATT | | | | |
| PXP | LE | GAP, GATT | | | | IAS, LLS, TPS |
| RAP | LE | GAP, GATT | | | | RAS |
| RAS | LE | GATT | | | | |
| RCP | LE | GAP, GATT | | RCS | | BMS, RCS |

[2] IPSP does not define a Service.

[3] GAP defined in higher layer.

[4] GATT and GAP defined in lower layer.

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| RCS | LE | GAP, GATT | | | | |
| RSCP | BR/EDR, LE | GAP, GATT | GATT | | | DIS, RSCS |
| RSCS | BR/EDR, LE | GAP, GATT | | | | |
| RTUS | LE | GATT | | | | |
| SCPP | LE | GAP, GATT | | | | SCPS |
| SCPS | LE | GATT | | | | |
| TBS | BR/EDR, LE | GATT | | | | |
| TDS | BR/EDR, LE | GAP, GATT | | | | |
| TIP | LE | GAP, GATT | | | | CTS, NDCS, RTUS |
| TMAP | LE | **LL**, GAP, GATT | | GATT | | BAP, CAP, CCP, MCP, MCS |
| TPS | LE | GATT | | | | |
| UDS | BR/EDR, LE | GATT | | | | |
| VAP | LE | **LL**, GAP, GATT | | | | VAS |
| VAS | LE | GATT | | | | |
| VCP | BR/EDR, LE | **LL**, GAP, GATT | GATT | | | AICS, VCS, VOCS |
| VCS | BR/EDR, LE | GATT | | | | |
| VOCS | BR/EDR, LE | GATT | | | | |
| WSP | BR/EDR, LE | GAP, GATT | GATT | | | BAS, BCS, CTS, DIS, UDS, WSS |
| WSS | BR/EDR, LE | GAP, GATT | | | | |

*Table 3.1: Transport configuration and ILDs and other references between layers (LE Audio and GATT-based Profiles and Services)*

Table 3.2 shows the references for MESH Profiles and Protocols, as defined in TCRL pkg101, using the latest version of the test documents (ICS and TS).

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| ALSNLCP | LE | | | | | MESH, MMDL |
| BLCNLCP | LE | | | | | MESH, MMDL |
| BSSNLCP | LE | | | | | MESH, MMDL |
| DFUM | LE | | | MESH | | MBTM |

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| DICNLCP | LE | | | | | MESH, MMDL |
| ENMNLCP | LE | | | | | MESH, MMDL |
| HVINLCP | LE | | | | | MESH, MMDL |
| MBTM | LE | | | | | |
| MCDB | LE | | | | | |
| MESH | LE | GAP, GATT | | | | |
| MMDL | LE | | | | | |
| OCSNLCP | LE | | | | | MMDL, MESH |

*Table 3.2: Transport configuration and ILDs and other references between layers (MESH)*

Table 3.3 shows the references for Traditional Profiles and Protocols, as defined in TCRL pkg101, using the latest version of the test documents (ICS and TS).

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| 3DSP | BR/EDR | **BB**, GAP, L2CAP, SDP | | | | |
| A2DP | BR/EDR | SDP | | | | AVDTP, GAVDP |
| AVCTP | BR/EDR | | | | | |
| AVDTP | BR/EDR | L2CAP | | | | |
| AVRCP | BR/EDR | GAP | | | | |
| BIP | BR/EDR | GAP | | | | |
| BNEP | BR/EDR | | | | | |
| BPP | BR/EDR | GAP | | | | |
| CTN | BR/EDR | GAP, SDP | | | | |
| DID | BR/EDR | SDP | | | | |
| DUN | BR/EDR | GAP, SDP | | | | RFCOMM |
| FTP | BR/EDR | GAP | | | | |
| GAVDP | BR/EDR | | | | | AVDTP |
| GNSS | BR/EDR | GAP, SDP | | | | RFCOMM |

| Layer | Transport | ILD to Core | TCMT Logic | ICS Condition | Reverse ILD | ILD to X2Core |
|---|---|---|---|---|---|---|
| GOEP | BR/EDR | | | | | |
| GPP | BR/EDR | | | | | |
| HCRP | BR/EDR | GAP, SDP | | | | |
| HDP | BR/EDR | **BB**, GAP, L2CAP, SDP | | | | DID, MCAP |
| HFP | BR/EDR | **BB**, GAP, L2CAP | | | | LC3, RFCOMM |
| HID | BR/EDR | LMP, SDP | GAP | | | |
| HID11 | BR/EDR | | GAP | | | DID |
| HSP | BR/EDR | GAP, SDP | | | | RFCOMM |
| MAP | BR/EDR | GAP, SDP | | | | |
| MCAP | BR/EDR | L2CAP | | | | |
| MPS | BR/EDR | SDP | | A2DP, AVRCP, DUN, HFP, PAN, PBAP | | AVRCP, GAVDP, HFP, PBAP |
| OPP | BR/EDR | GAP | | | | |
| PAN | BR/EDR | GAP, SDP | | | | BNEP |
| PBAP | BR/EDR | GAP, SDP | | | | |
| RFCOMM | BR/EDR | | SPP | | | |
| SAP | BR/EDR | GAP | | | | |
| SPP | BR/EDR | SDP | | | | |
| SYNC | BR/EDR | GAP | | | | |
| VDP | BR/EDR | **BB**, GAP, SDP | | | | GAVDP |

*Table 3.3: Transport configuration and ILDs and other references between layers (Traditional Profiles and Protocol)*

# 4 References


[1] ICS Proforma for 3D Synchronization Profile (3DSP)

[2] ICS Proforma for Advanced Audio Distribution Profile (A2DP)

[3] ICS Proforma for Audio/Video Remote Control Profile (AVRCP)

[4] ICS Proforma for Basic Imaging Profile (BIP)

[5] ICS Proforma for Basic Printing Profile (BPP)

[6] ICS Proforma for Calendar, Tasks and Notes Profile (CTN)

[7] ICS Proforma for Device ID (DID)

[8] ICS Proforma for Dial-up Networking Profile (DUN)

[9] ICS Proforma for File Transfer Profile (FTP)

[10] ICS Proforma for Global Navigation Satellite System Profile (GNSS)

[11] ICS Proforma for Hardcopy Cable Replacement Profile (HCRP)

[12] ICS Proforma for Health Device Profile (HDP)

[13] ICS Proforma for Hands-Free Profile (HFP)

[14] ICS Proforma for Human Interface Device Profile 1.0 (HID)

[15] ICS Proforma for Human Interface Device Profile 1.1 or later (HID11)

[16] ICS Proforma for Headset Profile (HSP)

[17] ICS Proforma for Message Access Profile (MAP)

[18] ICS Proforma for Multi-Profile Specification (MPS)

[19] ICS Proforma for Object Push Profile (OPP)

[20] ICS Proforma for Personal Area Networking Profile (PAN)

[21] ICS Proforma for Phone Book Access Profile (PBAP)

[22] ICS Proforma for SIM Access Profile (SAP)

[23] ICS Proforma for Serial Port Profile (SPP)

[24] ICS Proforma for Synchronization Profile (SYNC)

[25] ICS Proforma for Video Distribution Profile (VDP)

[26] ICS Proforma for Authorization Control Service (ACS)

[27] ICS Proforma for Audio Input Control Service (AICS)

[28] ICS Proforma for Automation IO Service (AIOS)

[29] ICS Proforma for Alert Notification Service (ANS)

[30] ICS Proforma for Audio Stream Control Service (ASCS)

[31] ICS Proforma for Battery Service (BAS)

[32] ICS Proforma for Broadcast Audio Scan Service (BASS)

[33] ICS Proforma for Body Composition Service (BCS)

[34] ICS Proforma for Blood Pressure Service (BLS)
[35] ICS Proforma for Bond Management Service (BMS)
[36] ICS Proforma for Binary Sensor Service (BSS)
[37] ICS Proforma for Common Audio Service (CAS)
[38] ICS Proforma for Continuous Glucose Monitoring Service (CGMS)
[39] ICS Proforma for Cycling Power Service (CPS)
[40] ICS Proforma for Cycling Speed and Cadence Service (CSCS)
[41] ICS Proforma for Coordinated Set Identification Service (CSIS)
[42] ICS Proforma for Constant Tone Extension Service (CTES)
[43] ICS Proforma for Current Time Service (CTS)
[44] ICS Proforma for Device Information Service (DIS)
[45] ICS Proforma for Device Time Service (DTS)
[46] ICS Proforma for Emergency Configuration Service (EMCS)
[47] ICS Proforma for Electronic Shelf Label Service (ESLS)
[48] ICS Proforma for Environmental Sensing Service (ESS)
[49] ICS Proforma for Elapsed Time Service (ETS)
[50] ICS Proforma for Fitness Machine Service (FTMS)
[51] ICS Proforma for Generic Health Sensor Service (GHSS)
[52] ICS Proforma for Glucose Service (GLS)
[53] ICS Proforma for Hearing Access Service (HAS)
[54] ICS Proforma for HID Service (HIDS)
[55] ICS Proforma for HTTP Proxy Service (HPS)
[56] ICS Proforma for Heart Rate Service (HRS)
[57] ICS Proforma for Health Thermometer Service (HTS)
[58] ICS Proforma for Immediate Alert Service (IAS)
[59] ICS Proforma for Insulin Delivery Service (IDS)
[60] ICS Proforma for Indoor Positioning Service (IPS)
[61] ICS Proforma for Internet Protocol Support Profile (IPSP)
[62] ICS Proforma for Link Loss Service (LLS)
[63] ICS Proforma for Location and Navigation Service (LNS)
[64] ICS Proforma for Media Control Service (MCS)
[65] ICS Proforma for Microphone Control Service (MICS)
[66] ICS Proforma for Next DST Change Service (NDCS)
[67] ICS Proforma for Object Transfer Service (OTS)
[68] ICS Proforma for Published Audio Capabilities Service (PACS)

[69] ICS Proforma for Physical Activity Monitor Service (PAMS)

[70] ICS Proforma for Phone Alert Status Service (PASS)

[71] ICS Proforma for Pulse Oximeter Service (PLXS)

[72] ICS Proforma for Reconnection Configuration Service (RCS)

[73] ICS Proforma for Running Speed and Cadence Service (RSCS)

[74] ICS Proforma for Reference Time Update Service (RTUS)

[75] ICS Proforma for Scan Parameters Service (SCPS)

[76] ICS Proforma for Telephone Bearer Service (TBS)

[77] ICS Proforma for Transport Discovery Service (TDS)

[78] ICS Proforma for Telephony and Media Audio Profile (TMAP)

[79] ICS Proforma for Tx Power Service (TPS)

[80] ICS Proforma for User Data Service (UDS)

[81] ICS Proforma for Volume Control Service (VCS)

[82] ICS Proforma for Volume Offset Control Service (VOCS)

[83] ICS Proforma for Weight Scale Service (WSS)

[84] ICS Proforma for Industrial Measurement Device (IMDS)

[85] ICS Proforma for Ranging Service (RAS)

[86] ICS Proforma for Gaming Audio Profile (GMAP)

[87] Bluetooth SIG Assigned Numbers

[88] ICS Proforma for HID Over GATT Profile (HOGP)

[89] ICS Proforma for Cookware Service (CWS)

[90] ICS Proforma for Voice Assistant Service (VAS)

[91] Test Strategy and Terminology Overview

# 5 Revision history and acknowledgments

***Revision History***

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| | p0r00–r04 | 2023-08-16 – 2023-12-20 | TSE 18945 (rating 2): New document to cover IOPT ICS needs.<br>TSE 24239 (rating 4): Added IOPT ICS items 1a/1 and 2a/1 to simplify the TCMT for IOPT tests that apply when at least one SDP record or GATT service is present in the database.<br>Updated the document to align with latest standards. |
| 0 | p0 | 2024-07-01 | Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication. |
| | p1r00 | 2024-10-02 | Incorporated IOPT-related CR supporting the IMDS v1.0 adoption. |
| 1 | p1 | 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. |
| | p2r00 | 2024-10-30 | Incorporated IOPT-related CR supporting the RAS v1.0 adoption. |
| 2 | p2 | 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. |
| | p2ed2r00 | 2024-12-05 | TSE 26787 (rating 1): Relocated Tables 1a and 2a to follow Tables 1 and 2, respectively, to enable proper Qualification Workspace operation. In Table 1, updated the feature value for Items 1/7, 1/10, 1/14, 1/15, and 1/20. In Table 2, updated the introductory text; updated the status value for Items 2/4a, 2/4b, 2/9a, 2/9b, 2/11a, 2/11b, 2/17a, 2/17b, 2/21a, 2/21b, 2/22a, 2/22b, 2/27a, 2/27b, 2/30a, 2/30b, 2/31a, 2/31b, 2/33a, 2/33b, 2/34a, 2/34b, 2/35a, 2/35b, 2/36a, 2/36b, 2/38a, 2/38b, 2/39a, 2/39b, 2/43a, 2/43b, 2/47a, 2/47b, 2/49a, 2/49b, 2/51a, 2/51b, 2/52a, 2/52b, 2/56a, and 2/56b; updated the inter-layer prerequisite values for 2/38a, 2/38b, 2/44a, 2/44b, 2/49a, 2/49b, 2/54a, 2/54b, 2/55a, 2/55b, and 2/59b; deleted Items 2/55c and 2/55d; and added Items 2/63a and 2/63b. Swapped Items 1 and 2 in Table 2a. Updated the references list. Editorial updates to align the document with the latest ICS template. |
| | p2 edition 2 | 2025-01-08 | Approved by BTI on 2025-01-08. Prepared for edition 2 publication. |
| | p3r00 | 2025-07-14 | TSE 27956 (rating 4): Updated Table 2 to include HID ISO Service over BR/EDR and LE. Updated the references list. |
| 3 | p3 | 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. |
| | p4r00 | 2025-09-26 | Incorporated IOPT-related CR supporting the CWS v1.0 adoption. Updated the references list. |

| Publication Number | Revision Number | Date | Comments |
|---|---|---|---|
| 4 | p4 | 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. |
| | p5r00 | 2025-11-10 | Incorporated IOPT-related CR supporting the VAS v1.0 adoption. Added Items 2/66a, 2/66b, 2/67a, and 2/67b. Updated the references list. |
| 5 | p5 | 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. |
| | p6r00–r01 | 2025-12-16 – 2025-01-08 | TSE 28134 (rating 1): Added informational section to show the inter-layer dependencies between the X2Core layers. Updated the references list. |
| 6 | p6 | 2026-02-17 | Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication. |

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