



## Member Declarations

### *Qualified Design Listing (QDL) Information:*

|  |   |
|--|---|
| Member Company:                          | JEPICO Corporation  |
| Declarer:                                | Kin-ichi Ohno   |
| Design Description:                      | BluePlum-III  |
| Qualified Design ID:                     | B012826   |
| Design Model number:                     | PQUP1013YA  |
| Product Type:                            | End Product   |
| Hardware version number:                 | Ver. 1.0  |
| Software version number:                 | Ver. 1.0  |
| Qualification Assessment Date:           | 11/30/2007  |
| Core Spec Version:                       | 2.0   |
| TCRL Release:                            | Core 2.0 TCRL-2007-1  |
| Location of Compliance Folder for Audit: | Nishi-shinjuku 2-7-11<br>Shinjuku-ku, Tokyo 163-0729, JAPAN |
| Member who will accompany the Audit:     | Hidenao Hamada  |

### *Declaration of Compliance (DoC)*

**WHEREAS**, the name of the declarer listed above whose corporation, (hereinafter the “Declarer”), has executed the Bluetooth Adopters Agreement, Bluetooth Promoters Agreement or the Membership Agreement as applicable (hereinafter the “Applicable Agreement”).

**WHEREAS**, Declarer has developed a design, which incorporates all or parts of the Interface as defined in the Applicable Agreement, as listed above, (hereinafter the “Design”);

**WHEREAS**, based on best effort, the Declarer wishes to certify that the Design and the Interface fully complies (hereinafter “Bluetooth Compliant”) and will continue to comply with all applicable provisions of the Bluetooth Specifications indicated in the attached Appendix A (hereinafter the “Specification”);

**WHEREAS**, Design compliance with the Specification is a condition of patent licenses applicable to the Design granted under the Applicable Agreement;

**WHEREAS**, the Declarer issues this Declaration of Compliance, in order to certify that the Design is qualified as a Bluetooth Compliant Design;

**WHEREAS**, the Declarer is entrusted by the Bluetooth SIG, Inc., with the authority to list Designs as qualified;

**WHEREAS**, the Compliance Folder is the set of evidence required to demonstrate compliance of the Design to the Specification, and whereas the Compliance Folder is maintained by the Member.

**FURTHERMORE**, Declarer further undertakes and certifies that this Declaration of Compliance constitutes an essential element of the Design Qualification as required by the compliance requirements of the Specification, and acknowledges that the release of a Design which does not fully comply with all applicable provisions of the Specification may cause loss or harm to Fellow Adopters ("Fellow Adopters" as defined in the Specification).

**NOW THEREFORE**, the Declarer undertakes and certifies that the Design, as manufactured and marketed, fully complies with all applicable provisions of the Bluetooth Specifications indicated in Appendix A.

*Supplier Declaration of Conformity (SDoC)*

**WHEREAS**, the Declarer undertakes and certifies that the Design, as manufactured and marketed, fully complies with all applicable requirements for the declared product type (as shown above) as required by the compliance requirements of the Specification and provisions of the current version of the Bluetooth Qualification Program Reference Document (PRD) and its Addendum (if applicable).

**WHEREAS**, the Declarer acknowledges that the Bluetooth SIG, Inc. qualification tools and related programs are provided AS IS and that the Bluetooth SIG, Inc. does not accept any liability for Member's use of such.

**THEREFORE**, the Declarer hereby recognizes that (i) license rights granted under the Applicable Agreement for this Design only apply if this Design is compliant with the Requirements of the Bluetooth Qualification Program Reference Document (PRD), and (ii) hereby acknowledges a clear undertaking to comply with PRD policies (including QEP), and (iii) Declarer and Duly Authorized Officer of the Member Company authorizes Bluetooth SIG, Inc., to audit the qualification materials and any other materials necessary to verify compliance to the Qualification Requirements as specified in the Qualification Auditing, Surveillance and Enforcement (QEP) Policy document.

I HAVE READ THE ABOVE DECLARATION AND HEREBY AGREE TO ITS TERMS AND CONDITIONS.

ATTESTED BY DECLARER, AUTHORIZED BY A DULY AUTHORIZED OFFICER OF THE MEMBER COMPANY

By: Kin-ichi Ohno 12/12/2007

|   |                  |
|---|------------------|
| [Declarer]                                  | [Date]           |
| <u>JEPICO Corporation</u>                   | <u>26/3/2002</u> |
| [Duly Authorized Officer of Member Company] | [Date]           |

# Appendix A

## Core PICS Information

Summary ICS  
External to all Layers

### Controller Core Specification

Table 21: Controller Core Specification

| Item | Capability                                | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 5    | Core Spec Version 2.0                     | SUMICS                | M.1    | X                     |
| 6    | Core Spec Version 2.0+EDR (Ver. 2.0+ EDR) | SUMICS                | M.1    | X                     |

For implementations supporting Ver. 2.0 + EDR or Ver 2.1 + EDR, the Supplier shall indicate support for one or more Enhanced Data Rate features (per specification Volume 0, Part B) in Table 22.

For implementations supporting Ver. 2.0 or Ver 2.1, the Supplier may indicate support for one or more Enhanced Data Rate features in Table 22.

M.1 Mandatory to choose at least one version from Table 21.

## EDR Features

**Table 22: EDR Features**

*Prerequisite: 21/3 OR 21/4 OR 21/5 OR 21/6 (Ver. 2.0 or Ver. 2.0 + EDR or Ver. 2.1 or 2.1 + EDR)*

| Item | Capability                                    | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | EDR for asynchronous transports (single slot) | SUMICS                | C.1    | X                     |
| 2    | EDR for asynchronous transports (multi-slot)  | SUMICS                | C.1    | X                     |
| 3    | EDR for synchronous transports                | SUMICS                | C.1    | X                     |

*C.1 - For implementations supporting Ver. 2.1 + EDR, the Supplier shall indicate support for one or more Enhanced Data Rate features (per specification Volume 0, Part B) in Table 22.*

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**Product Type**  
External to All Layers

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## Product Types

**Table 1: Product Types**

*Please confirm the Product Type that was selected when Creating New Project*

| Item | Capability             | System Spec Reference | Status | Support [Yes] or [No] |
|------|------------------------|-----------------------|--------|-----------------------|
| 1    | End Product            | N/A                   | M.1    | X                     |
| 2    | Component (Tested)     | N/A                   | M.1    | X                     |
| 3    | Component (Non-Tested) | N/A                   | M.1    | X                     |
| 4    | Host Subsystem         | N/A                   | M.1    | X                     |
| 5    | Controller Subsystem   | N/A                   | M.1    | X                     |
| 6    | Profile Subsystem      | N/A                   | M.1    | X                     |
| 7    | Test Equipment         | N/A                   | M.1    | X                     |
| 8    | Development Tool       | N/A                   | M.1    | X                     |

*M.1: Must choose one and only one Product Type.*

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### 1.3.1 General Information

**Table 1: RF Capabilities**

| Item | Capability                        | System Spec Reference | Status | Support [Yes] or [No] |
|------|-----------------------------------|-----------------------|--------|-----------------------|
| 1    | Power Class = 1                   | RF,3                  | M.1    | X                     |
| 2    | Power Class = 2                   | RF,3                  | M.1    | X                     |
| 3    | Power Class = 3                   | RF,3                  | M.1    | X                     |
| 4    | Power Control                     | RF,3                  | C.1    | X                     |
| 5    | 1-slot packets supported          | RF,3.3                | M      | X                     |
| 6    | 3-slot packets supported          | RF,3.3                | O      | X                     |
| 7    | 5-slot packets supported          | RF,3.3                | O      | X                     |
| 8    | 79 Channels                       | RF,2                  | M      | X                     |
| 9    | Support for GFSK modulation       | RF,3.1                | M      | X                     |
| 10   | Support for pi/4-DQPSK modulation | RF,3.2                | C.2    | X                     |
| 11   | Support for 8DPSK modulation      | RF,3.3                | C.3    | X                     |

*M.1: Must choose One and only One Power Class*

*C.1: Mandatory to support IF Power Class 1 is supported, ELSE Optional*

*C.2: Mandatory IF SUM (21/4) OR SUM (21/6) is claimed, Optional IF SUM (21/3) OR SUM (21/5) is claimed, Excluded otherwise.*

*C.3: Mandatory IF SUM (21/4) OR SUM (21/6) is claimed, Optional IF RF(1/8) AND ( SUM (21/3) OR SUM (21/5) ) are claimed*

## Physical Channel

**Table 1: Physical Channel**

| Item | Capability                                | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support frequency band and 79 RF channels | BB, 2.1               | M      | X                     |
| 2    | Adaptive Frequency Hopping Kernel         | BB, 2.6               | M      | X                     |

**Table 1a: Modulation Schemes**

| Item | Capability                                   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Basic Data Rate, 1 Mbps payload data rate    | RF, 3.1               | M      | X                     |
| 2    | Enhanced Data Rate, 2 Mbps payload data rate | RF, 3.2               | C.1    | X                     |
| 3    | Enhanced Data Rate, 3 Mbps payload data rate | RF, 3.2               | C.2    | X                     |

*C.1 Mandatory IF SUMMARY(21/6) is claimed, Optional IF SUMMARY(21/5) is claimed*

*C.2 Mandatory IF SUMMARY(21/6) is claimed, Optional IF BB(1a/2) AND SUMMARY(21/5) are claimed*

## Physical Links

**Table 2: Link Types**

| Item | Capability                               | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Support of ACL link                      | BB, 5.2               | M      | X                     |
| 2    | Support of SCO link                      | BB, 5.4               | O      | X                     |
| 3    | Support of eSCO link                     | BB, 4.3               | O      | X                     |
| 4    | Support of Enhanced Data Rate ACL links  | BB, 6.5.4             | C.1    | X                     |
| 5    | Support of Enhanced Data Rate eSCO links | BB, 6.5.3             | C.2    | X                     |

*C.1 Mandatory IF SUMMARY(22/1) OR SUMMARY(22/2) is claimed, Optional IF SUMMARY(21/5) OR SUMMARY(21/6) is claimed*

*C.2 Mandatory IF SUMMARY(22/3) is claimed, Optional IF SUMMARY(21/5) OR SUMMARY(21/6) is claimed*

*C.2 Mandatory IF SUMMARY(22/3) is claimed, Optional IF SUMMARY(21/5) OR SUMMARY(21/6) is claimed*

**Table 3: SCO Link Support**

*Prerequisite for Items (3/5-8):(2/3) (Support of eSCO link)*

*Prerequisite for Items (3/1-4):(2/2) (Support of SCO link)*

| Item | Capability                        | System Spec Reference | Status | Support [Yes] or [No] | Values        |           |
|------|-----------------------------------|-----------------------|--------|-----------------------|---------------|-----------|
|      |                                   |                       |        |                       | Allowed       | Supported |
| 1    | SCO links to same Slave           | BB, 4.3               | C.1    | X                     | (1,2,3)       | 1         |
| 2    | SCO links to different Slaves     | BB, 4.3               | O      | X                     | (1,2,3)       | 1         |
| 3    | SCO links from same Master        | BB, 4.3               | C.1    | X                     | (1,2,3)       | 1         |
| 4    | SCO links from different Masters  | BB, 4.3               | O      | X                     | (>2)          |           |
| 5    | eSCO links to same Slave          | BB, 4.2               | C.2    | X                     | (1,2,3,4,5,6) | 1         |
| 6    | eSCO links to different Slaves    | BB, 4.2               | O      | X                     | (2,3,4,5)     | 2         |
| 7    | eSCO links from same Master       | BB, 4.2               | C.2    | X                     | (1,2,3,4,5,6) | 1         |
| 8    | eSCO links from different Masters | BB, 4.2               | O      | X                     | (2,3,4,5)     |           |

*C.2: Mandatory to support at least One link (3/5 or 3/7)*

*C.1: Mandatory to support at least One link (3/1 3/3)*

## Packet Types

**Table 4: Common Packet Types**

| Item | Capability                  | System Spec Reference                                | Status | Support [Yes] or [No] |
|------|-----------------------------|--|--------|-----------------------|
| 1    | Support of ID packet type   | BB, 6.5.1<br>BB, 6.5.1.1                             | M      | X                     |
| 2    | Support of NULL packet type | BB, 6.5.1<br>BB, 6.5.1.2                             | M      | X                     |
| 3    | Support of POLL packet type | BB, 6.5.1<br>BB, 6.5.1.3                             | M      | X                     |
| 4    | Support of FHS packet type  | BB, 6.5.1<br>BB, 6.5.1.4                             | M      | X                     |
| 5    | Support of DM1 packet type  | BB, 6.5.1<br>BB, 6.5.1.5<br>BB, 6.5.4<br>BB, 6.5.4.1 | M      | X                     |

**Table 5: ACL Packet Types**

| Item | Capability                 | System Spec Reference    | Status | Support [Yes] or [No] |
|------|----------------------------|--------------------------|--------|-----------------------|
| 1    | Support of DH1 packet type | BB, 6.5.4<br>BB, 6.5.4.2 | M      | X                     |
| 2    | Support of DM3 packet type | BB, 6.5.4<br>BB, 6.5.4.3 | O      | X                     |
| 3    | Support of DH3 packet type | BB, 6.5.4                | O      | X                     |

|   |                             |                        |   |   |
|---|-----------------------------|------------------------|---|---|
|   |                             | BB,6.5.4.4             |   |   |
| 4 | Support of DM5 packet type  | BB,6.5.4<br>BB,6.5.4.5 | O | X |
| 5 | Support of DH5 packet type  | BB,6.5.4<br>BB,6.5.4.6 | O | X |
| 6 | Support of AUX1 packet type | BB,6.5.4<br>BB,6.5.4.7 | O | X |

**Table 5a: Enhanced Data Rate ACL Packet Types**

*Prerequisite: 2/4 (Support of Enhanced Data Rate ACL Links)*

| Item | Capability                | System Spec Reference | Status | Support [Yes] or [No] |
|------|---------------------------|-----------------------|--------|-----------------------|
| 1    | Support 2-DH1 packet type | BB, 6.5.4.8           | C.1    | X                     |
| 2    | Support 2-DH3 packet type | BB, 6.5.4.9           | C.2    | X                     |
| 3    | Support 2-DH5 packet type | BB, 6.5.4.10          | C.2    | X                     |
| 4    | Support 3-DH1 packet type | BB, 6.5.4.11          | C.3    | X                     |
| 5    | Support 3-DH3 packet type | BB, 6.5.4.12          | C.4    | X                     |
| 6    | Support 3-DH5 packet type | BB, 6.5.4.13          | C.5    | X                     |

*C.1 Mandatory IF SUMMARY(22/1) OR SUMMARY(22/2) is claimed, Optional IF BB(1a/2) is claimed*

*C.2 Mandatory IF SUMMARY(22/2) is claimed, Optional IF BB(1a/2) is claimed*

*C.3 Mandatory IF SUMMARY(22/1) OR SUMMARY(22/2) is claimed, Optional IF BB(1a/3) is claimed*

*C.4 Mandatory IF SUMMARY(22/2) is claimed, Optional IF BB(5a/2) AND BB(5a/4) are claimed*

*C.5 Mandatory IF SUMMARY(22/2) is claimed, Optional IF BB(5a/3) AND BB(5a/4) are claimed*

**Table 6: SCO and eSCO Packet Types**

*Prerequisite for Items (6/1-4):(2/2) (Support of SCO link)*

*Prerequisite for Items (6/5-7):(2/3) (Support of eSCO link)*

| Item | Capability                 | System Spec Reference  | Status | Support [Yes] or [No] |
|------|----------------------------|------------------------|--------|-----------------------|
| 1    | Support of HV1 packet type | BB,6.5.2<br>BB,6.5.2.1 | C.1    | X                     |
| 2    | Support of HV2 packet type | BB,6.5.2<br>BB,6.5.2.2 | O      | X                     |
| 3    | Support of HV3 packet type | BB,6.5.2<br>BB,6.5.2.3 | O      | X                     |
| 4    | Support of DV packet type  | BB,6.5.2<br>BB,6.5.2.4 | C.1    | X                     |
| 5    | Support of EV3 packet type | BB,6.5.3<br>BB,6.5.3.1 | C.2    | X                     |
| 6    | Support of EV4 packet type | BB,6.5.3<br>BB,6.5.3.2 | O      | X                     |



|   |                            |                        |   |   |
|---|----------------------------|------------------------|---|---|
| 7 | Support of EV5 packet type | BB,6.5.3<br>BB,6.5.3.3 | O | X |
|---|----------------------------|------------------------|---|---|

*C.1 Mandatory IF only (2/2) SCO link is supported*

*C.2 Mandatory IF only (2/3) eSCO link is supported*

**Table 6a: Enhanced Data Rate eSCO Packet Types**

*Prerequisite: 2/5 (Support of Enhanced Data Rate eSCO links)*

| Item | Capability                | System Spec Reference | Status | Support [Yes] or [No] |
|------|---------------------------|-----------------------|--------|-----------------------|
| 1    | Support 2-EV3 packet type | BB, 6.5.3.4           | C.1    | X                     |
| 2    | Support 2-EV5 packet type | BB, 6.5.3.5           | C.2    | X                     |
| 3    | Support 3-EV3 packet type | BB, 6.5.3.6           | C.3    | X                     |
| 4    | Support 3-EV5 packet type | BB, 6.5.3.7           | C.4    | X                     |

*C.1 Mandatory IF SUMMARY(22/3) is claimed, Optional IF BB(1a/2) is claimed*

*C.2 Optional IF BB(1a/2) is claimed*

*C.3 Mandatory IF SUMMARY(22/3) is claimed Optional IF BB(1a/3) is claimed*

*C.4 Optional IF BB(1a/3) is claimed*

## Access Procedures

**Table 7: Page Procedures**

| Item | Capability                                | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support paging                            | BB, 8.3.2             | M      | X                     |
| 2    | Support page scan                         | BB, 8.3.1             | M      | X                     |
| 3    | <i>(Intentionally left blank)</i>         |                       |        | X                     |
| 4    | <i>(Intentionally left blank)</i>         |                       |        | X                     |
| 5    | Supports Interlaced Scan during page scan | BB, 2.4               | O      | X                     |

**Table 8: Paging Schemes**

| Item | Capability                   | System Spec Reference    | Status | Support [Yes] or [No] |
|------|------------------------------|--------------------------|--------|-----------------------|
| 1    | Supports mandatory scan mode | BB, 8.3<br>BB, table 6.5 | M      | X                     |

**Table 9: Paging Modes**

| Item | Capability              | System Spec Reference      | Status | Support [Yes] or [No] |
|------|-------------------------|----------------------------|--------|-----------------------|
| 1    | Supports paging mode R0 | BB, 8.3.1<br>BB, table 8.1 | C.1    | X                     |
| 2    | Supports paging mode R1 | BB, 8.3.1                  | C.1    | X                     |

|   |                         |                            |     |   |
|---|-------------------------|----------------------------|-----|---|
|   |                         | BB, table 8.1              |     |   |
| 3 | Supports paging mode R2 | BB, 8.3.1<br>BB, table 8.1 | C.1 | X |

*C.1: At least One of the paging scan modes Must be supported*

**Table 9b: Paging Train Repetition**

| Item | Capability                | System Spec Reference      | Status | Support [Yes] or [No] |
|------|---------------------------|----------------------------|--------|-----------------------|
| 1    | Supports Npage $\geq 1$   | BB, 8.3.2<br>BB, table 8.2 | O      | X                     |
| 2    | Supports Npage $\geq 128$ | BB, 8.3.2<br>BB, table 8.2 | O      | X                     |
| 3    | Supports Npage $\geq 256$ | BB, 8.3.2<br>BB, table 8.2 | M      | X                     |

*Note: The master should use Npage  $\geq 256$  unless it knows what SR mode the slave uses.*

**Table 10: Inquiry Procedures**

| Item | Capability                                   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Support inquiry                              | BB, 8.4.2             | O      | X                     |
| 2    | Inquiry scan with first FHS                  | BB, 8.4.2             | O      | X                     |
| 3    | <i>(Intentionally left blank)</i>            |                       |        | X                     |
| 4    | <i>(Intentionally left blank)</i>            |                       |        | X                     |
| 5    | Supports the dedicated inquiry access code   | BB, 6.3.1             | O      | X                     |
| 6    | Supports interlaced Scan during inquiry scan | BB, 2.5               | O      | X                     |
| 7    | Extended Inquiry Response                    | BB, 8.4.2, BB 8.4.3   | O      | X                     |

## Networking Capabilities

**Table 11: Piconet Capabilities**

| Item | Capability                      | System Spec Reference  | Status | Support [Yes] or [No] | Values        |           |
|------|---------------------------------|------------------------|--------|-----------------------|---------------|-----------|
|      |                                 |                        |        |                       | Allowed       | Supported |
| 1    | Broadcast messages              | BB, 7.6.1<br>BB, 7.6.5 | O      | X                     | (N/A)         |           |
| 2    | Point-to-multipoint connections | BB, 1                  | O      | X                     | (2,3,4,5,6,7) | 7         |

**Table 12: Scatternet Capabilities**

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Act as Master in one piconet and Slave in another piconet | BB, 1                 | O      | X                     |
| 2    | Act as Slave in more than one piconet                     | BB, 1                 | O      | X                     |

## Synchronous Data Formats

**Table 13: Synchronous Coding Schemes**

*Prerequisite: 2/2 (SCO link.support)*

| Item | Capability                   | System Spec Reference | Status | Support [Yes] or [No] |
|------|------------------------------|-----------------------|--------|-----------------------|
| 1    | A-law                        | BB, 9.1               | O      | X                     |
| 2    | u-law                        | BB, 9.1               | O      | X                     |
| 3    | CVSD                         | BB, 9.2               | O      | X                     |
| 4    | Transparent Synchronous Data | BB, 5.4<br>BB, 5.5    | O      | X                     |

## Erroneous Data Reporting

**Table 14: Erroneous Data Reporting**

| Item | Capability                        | System Spec Reference | Status | Support [Yes] or [No] |
|------|-----------------------------------|-----------------------|--------|-----------------------|
| 1    | Erroneous Data Reporting for SCO  | BB 7.7                | C.1    | X                     |
| 2    | Erroneous Data Reporting for eSCO | BB 7.7                | C.2    | X                     |

*C.1: Optional IF ((SUMICS: 21/5 OR SUMICS: 21/6) AND HCI: 9/6) is supported, ELSE excluded.*

*C.2: Optional IF ((SUMICS: 21/5 OR SUMICS: 21/6) AND HCI: 9/7) is supported, ELSE excluded.*

## Persistent Sniff

**Table 15: This table is intentionally left blank: DO NOT USE**

| Item | Capability                        | System Spec Reference | Status | Support [Yes] or [No] |
|------|-----------------------------------|-----------------------|--------|-----------------------|
| 1    | <i>(Intentionally left blank)</i> |                       |        | X                     |

## Non-flushable Packet Boundary Flag

**Table 16: Non-flushable Packet Boundary Flag**

| Item | Capability                                 | System Spec Reference        | Status | Support [Yes] or [No] |
|------|--|------------------------------|--------|-----------------------|
| 1    | Support Non-flushable Packet Boundary Flag | Vol 2, Part B, Section 7.6.3 | C.1    | X                     |

*C.1 MANDATORY IF ((SUM ICS: 21/5 OR SUM ICS 21/6) AND HCI: 12/10) is supported, ELSE OPTIONAL IF (SUM ICS: 21/5 OR SUM ICS: 21/6) is supported, ELSE excluded.*

## Connection States

**Table 17: Connection States**

| Item | Capability           | System Spec Reference          | Status | Support [Yes] or [No] |
|------|----------------------|--------------------------------|--------|-----------------------|
| 1    | Sniff Subrating Mode | Vol 2, Part C, Section 4.5.3.3 | C.1    | X                     |

*C.1 MANDATORY IF ((SUM ICS: 21/5 OR SUM ICS 21/6) AND LMP: 2/8) is supported, ELSE OPTIONAL IF (SUM ICS: 21/5 OR SUM ICS: 21/6) is supported, ELSE excluded.*

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## General Response Messages

**Table 1: Response Messages**

| Item | Capability     | System Spec Reference | Status | Support [Yes] or [No] |
|------|----------------|-----------------------|--------|-----------------------|
| 1    | Accept message | LMP, 2.7              | M      | X                     |
| 2    | Reject message | LMP, 2.7              | M      | X                     |

## Supported Features (General Statement)

**Table 2: Supported Features**

*Note: This table refers to the values in the LM feature request message. It is used within this PICS as a general statement that will be used as prerequisite for other tables.*

| Item | Capability                 | System Spec Reference | Status | Support [Yes] or [No] |
|------|----------------------------|-----------------------|--------|-----------------------|
| 1    | 3-slot packets             | LMP, 4.1.10, LMP, 3.3 | O      | X                     |
| 2    | 5-slot packets             | LMP, 4.1.10, LMP, 3.3 | O      | X                     |
| 3    | Encryption                 | LMP, 4.2.5, LMP, 3.3  | C.5    | X                     |
| 4    | Slot offset                | LMP, 4.4.1, LMP, 3.3  | O      | X                     |
| 5    | Timing accuracy            | LMP, 4.3.1, LMP, 3.3  | O      | X                     |
| 6    | Role switch (Master/Slave) | LMP, 4.4.2, LMP, 3.3  | O      | X                     |
| 7    | Hold mode                  | LMP, 4.5.1, LMP, 3.3  | O      | X                     |
| 8    | Sniff mode                 | LMP, 4.5.3, LMP, 3.3  | O      | X                     |
| 9    | Park mode                  | LMP, 4.5.2, LMP, 3.3  | O      | X                     |
| 10   | Power Control              | RF, 3                 | C.1    | X                     |

|    |                                  |                         |     |   |
|----|----------------------------------|-------------------------|-----|---|
|    |                                  | LMP, 4.1.3,<br>LMP, 3.3 |     |   |
| 11 | Channel quality driven data rate | LMP, 4.1.7,<br>LMP, 3.3 | O   | X |
| 12 | SCO link                         | LMP, 4.6.1,<br>LMP, 3.3 | O   | X |
| 13 | RSSI                             | LMP, 3.3                | O   | X |
| 14 | Broadcast encryption             | LMP, 4.2.5,<br>LMP, 3.3 | O   | X |
| 15 | eSCO link                        | LMP, 4.6.2              | O   | X |
| 16 | Adaptive frequency hopping       | LMP, 4.1.4              | M   | X |
| 17 | Enhanced Data Rate ACL           | BB, 6.5.4<br>LMP, 3.3   | C2  | X |
| 18 | Enhanced Data Rate eSCO          | BB, 6.5.3<br>LMP, 3.3   | C3  | X |
| 19 | Simple Pairing                   | LMP 4.2.7               | C.4 | X |

*C.1: Mandatory IF (RF:1/1) supported, ELSE Optional*

*C.2 Mandatory IF (SUMMARY:22/1) OR (SUMMARY:22/2) is claimed, Optional IF (SUMMARY:21/5) OR (SUMMARY:21/6) is claimed*

*C.3 Mandatory IF (SUMMARY:22/3) is claimed, Optional IF (SUMMARY:21/5) OR (SUMMARY:21/6) is claimed*

*C.4 Mandatory IF (SUMMARY 2-1/5 OR SUMMARY 2-1/6) is claimed, ELSE Excluded.*

*C.5 Optional IF (SUMMARY 2-1/1 OR SUMMARY 2-1/2 OR SUMMARY 2-1/3 OR SUMMARY 2-1/4) ELSE Mandatory*

## Authentication

**Table 3: Authentication**

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Initiate authentication before connection completed | LMP, 4.2.1            | O      | X                     |
| 2    | Initiate authentication after connection completed  | LMP, 4.2.1            | O      | X                     |
| 3    | Respond to authentication request                   | LMP, 4.2.1            | M      | X                     |

## Pairing

**Table 4: Pairing**

| Item | Capability                                   | System Spec Reference         | Status | Support [Yes] or [No] |
|------|--|-------------------------------|--------|-----------------------|
| 1    | Initiate pairing before connection completed | LMP, 4.2.2                    | O      | X                     |
| 2    | Initiate pairing after connection completed  | LMP, 4.2.2                    | O      | X                     |
| 3    | Respond to pairing request                   | LMP, 4.2.2.1,<br>LMP, 4.2.2.3 | M      | X                     |

|   |   |              |     |   |
|---|---|--------------|-----|---|
| 4 | Use fixed PIN and request responder to initiator switch | LMP, 4.2.2.2 | C.1 | X |
| 5 | Use variable PIN  | LMP, 4.2.2.2 | C.1 | X |
| 6 | Accept initiator to responder switch                    | LMP, 4.2.2.2 | C.2 | X |

*C.1: Mandatory to support at least One, (LMP:4/4) OR (LMP:4/5) OR both*

*C.2: Mandatory IF (LMP: 4/5) AND (LMP:4/1), OR (LMP: 4/5) AND (LMP:4/2) ) is supported.*

## Link Keys

**Table 5: Link Keys**

| Item | Capability                             | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Creation of link key - Unit Key        | LMP, 4.2.2.4          | C.1    | X                     |
| 2    | Creation of link key - Combination Key | LMP, 4.2.2.4          | C.1    | X                     |
| 3    | Initiate change of link key            | LMP, 4.2.3            | O      | X                     |
| 4    | Accept change of link key              | LMP, 4.2.3            | M      | X                     |
| 5    | <i>(Intentionally left blank)</i>      |                       |        | X                     |
| 6    | <i>(Intentionally left blank)</i>      |                       |        | X                     |
| 7    | Accept pairing with Unit Key           | LMP, 4.2.2.4          | O      | X                     |

*C.1: Mandatory to support at least One - either (LMP:5/1) OR (LMP:5/2).*

## Encryption

**Table 6: Encryption**

*Prerequisite: 2/3 (Encryption supported)*

| Item | Capability                        | System Spec Reference | Status | Support [Yes] or [No] |
|------|-----------------------------------|-----------------------|--------|-----------------------|
| 1    | Initiate encryption               | LMP, 4.2.5.1          | C.1    | X                     |
| 2    | Accept encryption requests        | LMP, 4.2.5.1          | M.1    | X                     |
| 3    | <i>(Intentionally left blank)</i> |                       |        | X                     |
| 4    | <i>(Intentionally left blank)</i> |                       |        | X                     |
| 5    | Key size negotiation              | LMP, 4.2.5.2          | M.1    | X                     |
| 6    | Start encryption, as master       | LMP, 4.2.5.3          | M.1    | X                     |
| 7    | Accept start of encryption        | LMP, 4.2.5.3          | M.1    | X                     |
| 8    | Stop encryption, as master        | LMP, 4.2.5.4          | M.1    | X                     |
| 9    | Accept stop of encryption         | LMP, 4.2.5.4          | M.1    | X                     |

*M.1: Mandatory IF (LMP:2/3) - (Encryption) is supported.*

*C.1 Mandatory IF (SUMMARY 2-1/5 OR SUMMARY 2-1/6) is claimed, ELSE Optional.*

## Information Requests

**Table 7: Clock Offset Information**

| Item | Capability                       | System Spec Reference | Status | Support [Yes] or [No] |
|------|----------------------------------|-----------------------|--------|-----------------------|
| 1    | Request clock offset information | LMP, 4.3.2            | O      | X                     |
| 2    | Respond to clock offset requests | LMP, 4.3.2            | M      | X                     |

**Table 8: Slot Offset Information**

*Prerequisite: 2/4 (Slot offset)*

| Item | Capability                   | System Spec Reference | Status | Support [Yes] or [No] |
|------|------------------------------|-----------------------|--------|-----------------------|
| 1    | Send slot offset information | LMP, 4.4.1            | C.1    | X                     |

*C.1: Mandatory IF (LMP:13/1) - (Master/Slave switch) supported, ELSE Optional.*

**Table 9: Timing Accuracy Information**

*Prerequisite: 2/5 (Timing accuracy)*

| Item | Capability                                      | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Request timing accuracy information             | LMP, 4.3.1            | O      | X                     |
| 2    | Respond to timing accuracy information requests | LMP, 4.3.1            | M.1    | X                     |

*M.1: Mandatory IF (LMP:2/5) - (Timing Accuracy) supported*

**Table 10: LM Version Information**

| Item | Capability                                 | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Request LM version information             | LMP, 4.3.3            | O      | X                     |
| 2    | Respond to LM version information requests | LMP, 4.3.3            | M      | X                     |

**Table 11: Feature Support**

| Item | Capability                             | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Request supported features             | LMP, 4.3.4            | C.1    | X                     |
| 2    | Respond to supported features requests | LMP, 4.3.4            | M      | X                     |
| 3    | Request extended features mask         | LMP, 4.3.4            | C.2    | X                     |
| 4    | Respond to extended features Request   | LMP, 4.3.4            | C.2    | X                     |

*C.1: Mandatory IF any of the Optional features in (LMP:2/1-3), (LMP:2/5), (LMP:2/7-12), (LMP:2/14-16), (LMP:26/1) is requested by the IUT, ELSE Optional.*

*C.2 Mandatory IF a feature requiring another features page is supported, ELSE Optional.*

**Table 12: Name Information**



| Item | Capability               | System Spec Reference | Status | Support [Yes] or [No] |
|------|--------------------------|-----------------------|--------|-----------------------|
| 1    | Request name information | LMP, 4.3.5            | O      | X                     |
| 2    | Respond to name requests | LMP, 4.3.5            | M      | X                     |

## Link Handling

**Table 13: Role Switch**

*Prerequisite: 2/6 (Role switch)*

| Item | Capability                          | System Spec Reference | Status | Support [Yes] or [No] |
|------|-------------------------------------|-----------------------|--------|-----------------------|
| 1    | Request Master Slave switch         | LMP, 4.4.2            | O      | X                     |
| 2    | Accept Master Slave switch requests | LMP, 4.4.2            | M.1    | X                     |

*M.1 Mandatory IF LMP:(2/6) - (Role Switch) supported*

**Table 14: Detach**

| Item | Capability        | System Spec Reference | Status | Support [Yes] or [No] |
|------|-------------------|-----------------------|--------|-----------------------|
| 1    | Detach connection | LMP, 4.1.2            | M      | X                     |

**Table 14a: Setting Up and Removing Enhanced Data Rate ACL Connection**

| Item | Capability               | System Spec Reference | Status | Support [Yes] or [No] |
|------|--------------------------|-----------------------|--------|-----------------------|
| 1    | Enter Enhanced Data Rate | LMP, 4.1.11           | C.1    | X                     |
| 2    | Exit Enhanced Data Rate  | LMP, 4.1.11           | C.1    | X                     |

*C.1 Mandatory IF (LMP:2/17) supported, ELSE Excluded.*

**Table 14b: Setting Up and Removing Enhanced Data Rate eSCO Connection**

| Item | Capability   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Enter and Exit eSCO Using Enhanced Data Rate Packets | LMP, 4.6.2            | C.1    | X                     |

*C.1 Mandatory IF (LMP:2/18) supported, ELSE Excluded.*

**Table 15: Hold Mode**

*Prerequisite: 2/7 (Hold mode)*

| Item | Capability        | System Spec Reference       | Status | Support [Yes] or [No] |
|------|-------------------|-----------------------------|--------|-----------------------|
| 1    | Force hold mode   | LMP, 4.5.1,<br>LMP, 4.5.1.2 | O      | X                     |
| 2    | Request hold mode | LMP, 4.5.1,                 | C.1    | X                     |

|   |                               |                             |   |   |
|---|-------------------------------|-----------------------------|---|---|
|   |                               | LMP,4.5.1.3                 |   |   |
| 3 | Respond to hold mode requests | LMP,4.5.1,<br>LMP,4.5.1.3   | M | X |
| 4 | Accept forced hold mode       | LMP,4.5.1.1,<br>LMP,4.5.1.2 | M | X |

*C.1: Mandatory IF (LMP:15/1) - (Force hold mode) is supported, ELSE Optional.*

**Table 16: Sniff Mode**

*Prerequisite: 2/8 (Sniff mode)*

| Item | Capability   | System Spec Reference     | Status | Support [Yes] or [No] |
|------|--|---------------------------|--------|-----------------------|
| 1    | <i>(Intentionally left blank)</i>                      |                           |        | X                     |
| 2    | Request sniff mode                                     | LMP,4.5.3,<br>LMP,4.5.3.2 | O      | X                     |
| 3    | Respond to sniff mode requests (renegotiate or reject) | LMP,4.5.3.2               | M.1    | X                     |
| 4    | <i>(Intentionally left blank)</i>                      |                           |        | X                     |
| 5    | Request un-sniff                                       | LMP,4.5.3.2               | C.1    | X                     |
| 6    | Accept un-sniff requests                               | LMP,4.5.3.2               | M.1    | X                     |
| 7    | Sniff Subrating Mode                                   | LMP,4.5.3.3               | C.2    | X                     |

*C.1: Mandatory IF (LMP:16/2) - (Request sniff mode) is supported, ELSE Optional.*

*M.1: Mandatory IF (LMP:2/8) - (Sniff Mode) is supported.*

*C.2 Mandatory IF (SUMMARY 2-1/5 OR SUMMARY 2-1/6) is claimed, ELSE Excluded*

**Table 17: Park Mode**

*Prerequisite: 2/9 (Park Mode)*

| Item | Capability                                  | System Spec Reference                     | Status | Support [Yes] or [No] |
|------|---|---|--------|-----------------------|
| 1    | <i>(Intentionally left blank)</i>           |   |        | X                     |
| 2    | Request park mode                           | LMP,4.5.2,<br>LMP,4.5.2.2,<br>LMP,4.5.2.3 | O      | X                     |
| 3    | Respond to park mode requests               | LMP,4.5.2,<br>LMP,4.5.2.2,<br>LMP,4.5.2.3 | M.1    | X                     |
| 4    | <i>(Intentionally left blank)</i>           |   |        | X                     |
| 5    | Set up broadcast scan window                | LMP,4.5.2.3                               | O      | X                     |
| 6    | Accept changes to the broadcast scan window | LMP,4.5.2.3                               | M.1    | X                     |
| 7    | Modify beacon parameters                    | LMP,4.5.2.4                               | O      | X                     |
| 8    | Accept modification of beacon parameters    | LMP,4.5.2.4                               | M.1    | X                     |
| 9    | Request Unpark using PM_ADDR                | LMP,4.5.2.5                               | C.1    | X                     |

|    |                              |                          |     |   |
|----|------------------------------|--------------------------|-----|---|
| 10 | Request Unpark using BD_ADDR | LMP,4.5.2.5              | C.1 | X |
| 11 | Slave requested Unpark       | LMP,4.5.2.5,<br>BB,5.9.6 | O   | X |
| 12 | Accept Unpark using PM_ADDR  | LMP,4.5.2.5              | M.1 | X |
| 13 | Accept Unpark using BD_ADDR  | LMP,4.5.2.5              | M.1 | X |

*M.1: Mandatory IF (LMP:2.9) - (Park Mode) is supported*

*C.1: IF (LMP:1.7.3) - (Respond to park mode requests) is supported, THEN at least One of (LMP:1.7.9) - (Unpark using PM\_ADDR) OR (LMP:1.7.10) - (Unpark using BD\_ADDR) is Mandatory, ELSE Optional.*

**Table 18: Power Control**

*Prerequisite for Items (1.8.1-2): (2.13) (RSSI)*

*Prerequisite for Items (1.8.3-4): (2.10) (Power Control)*

| Item | Capability                     | System Spec Reference | Status | Support [Yes] or [No] |
|------|--------------------------------|-----------------------|--------|-----------------------|
| 1    | Request to increase power      | LMP,4.1.3             | M.1    | X                     |
| 2    | Request to decrease power      | LMP,4.1.3             | M.1    | X                     |
| 3    | Respond when max power reached | LMP,4.1.3             | M.2    | X                     |
| 4    | Respond when min power reached | LMP,4.1.3             | M.2    | X                     |

*M.1: Mandatory IF (LMP:2.13) - (RSSI) is supported*

*M.2: Mandatory IF (LMP:2.10) - (Power Control) is supported*

**Table 19: Link Supervision Timeout**

| Item | Capability                              | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Set link supervision timeout value      | LMP,4.1.6             | O      | X                     |
| 2    | Accept link supervision timeout setting | LMP,4.1.6             | M      | X                     |

## Quality of Service

**Table 20: Quality of Service**

| Item | Capability  | System Spec Reference     | Status | Support [Yes] or [No] |
|------|---|---------------------------|--------|-----------------------|
| 1    | Channel quality driven change between DM and DH packet type | LMP,4.1.7                 | C.1    | X                     |
| 2    | Force/Request change of Quality of Service                  | LMP,4.1.8,<br>LMP,4.1.8.1 | M      | X                     |
| 3    | Request Change of Quality of Service                        | LMP,4.1.8,<br>LMP,4.1.8.2 | M      | X                     |

*C.1: Mandatory IF support of (LMP:2.11) is stated in the feature request, ELSE Optional.*

## SCO Links

**Table 21: SCO Links***Prerequisite: 2/12 (SCO link)*

| Item | Capability                               | System Spec Reference                  | Status | Support [Yes] or [No] |
|------|--|--|--------|-----------------------|
| 1    | Initiate SCO links, as Master            | LMP, 4.6.1, LMP, 4.6.1.1               | O      | X                     |
| 2    | Initiate SCO links, as Slave             | LMP, 4.6.1, LMP, 4.6.1.2               | O      | X                     |
| 3    | Accept SCO links                         | LMP, 4.6.1, LMP, 4.6.1.1, LMP, 4.6.1.2 | O      | X                     |
| 4    | Remove SCO links, as Master              | LMP, 4.6.1, LMP, 4.6.1.5               | C.1    | X                     |
| 5    | Remove SCO links, as Slave               | LMP, 4.6.1, LMP, 4.6.1.5               | C.2    | X                     |
| 6    | Negotiate SCO link parameters, as Master | LMP, 4.6.1, LMP, 4.6.1.3               | C.3    | X                     |
| 7    | Negotiate SCO link parameters, as Slave  | LMP, 4.6.1, LMP, 4.6.1.4               | C.4    | X                     |

*C.1: Mandatory IF (LMP:21/1) - (Initiating SCO links, as Master) is supported, ELSE Optional.**C.2: Mandatory IF (LMP:21/2) - (Initiating SCO links, as Slave) is supported, ELSE Optional.**C.3: Mandatory IF (LMP:21/1) - (Initiating SCO links, as Master) OR (LMP:21/3) - (Accept SCO links) is supported, ELSE Optional.**C.4: Mandatory IF (LMP:21/2) - (Initiating SCO links, as Slave) OR (LMP:21/3) - (Accept SCO links) is supported, ELSE Optional.***Multi-Slot Packages****Table 22: Multi-Slot Packages**

| Item | Capability   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Accept maximum allowed number of slots to be used    | LMP, 4.1.10           | C.1    | X                     |
| 2    | Request maximum number of slots to be used           | LMP, 4.1.10           | C.1    | X                     |
| 3    | Accept request of maximum number of slots to be used | LMP, 4.1.10           | C.1    | X                     |

*C.1: Mandatory IF (LMP:2/1) AND/OR (LMP:2/2) is supported in the feature request, ELSE Optional.***Paging Scheme****Table 23: Paging Scheme**

| Item | Capability | System Spec | Status | Support |
|------|------------|-------------|--------|---------|
|------|------------|-------------|--------|---------|

|   |                                 | Reference                   |   | [Yes] or [No] |
|---|---------------------------------|-----------------------------|---|---------------|
| 1 | Request page mode to use        | LMP, 4.1.9,<br>LMP, 4.1.9.1 | O | X             |
| 2 | Accept suggested page mode      | LMP, 4.1.9,<br>LMP, 4.1.9.1 | O | X             |
| 3 | Request page scan mode to use   | LMP, 4.1.9,<br>LMP, 4.1.9.2 | O | X             |
| 4 | Accept suggested page scan mode | LMP, 4.1.9, LMP,<br>4.1.9.2 | O | X             |

## Connection Establishment

**Table 24: Connection Establishment**

| Item | Capability   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Create connection for higher layers                            | LMP, 4.1.1            | M      | X                     |
| 2    | Respond to requests to establish connections for higher layers | LMP, 4.1.1            | M      | X                     |
| 3    | Indicate that link set-up is complete                          | LMP, 4.1.1            | M      | X                     |

## Test Mode

**Table 25: Test Mode**

| Item | Capability   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Activate test mode   | LMP, 4.7.1            | O      | X                     |
| 2    | Ability to reject activation of test mode if test mode is disabled     | LMP, 4.7.1            | M      | X                     |
| 3    | Control test mode  | LMP, 4.7.2            | O      | X                     |
| 4    | Ability to reject test mode control commands if test mode is disabled. | LMP, 4.7.2            | M      | X                     |

**Table 26: Adaptive Frequency Hopping**

*Prerequisite: 2/20 (AFH)*

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support of AFH switch as master                       | LMP, 4.1.4            | O      | X                     |
| 2    | Support of AFH switch as slave                        | LMP, 4.1.4            | M.1    | X                     |
| 3    | Support of Channel Classification reporting as master | LMP, 4.1.5            | C.1    | X                     |
| 4    | Support of Channel Classification reporting as slave  | LMP, 4.1.5            | C.2    | X                     |
| 5    | Support channel classification from host              | LMP, 4.1.5            | C.3    | X                     |

|   |                                   |            |   |   |
|---|-----------------------------------|------------|---|---|
| 6 | Support of Channel Classification | LMP, 4.1.5 | O | X |
|---|-----------------------------------|------------|---|---|

*C.1: Optional IF (LMP:26/6) is supported, ELSE Excluded.*

*C.2: Mandatory IF (LMP:26/6) is supported, ELSE Excluded.*

*C.3: Mandatory IF (LMP:26/1) OR (LMP:26/4) is supported, ELSE Optional.*

*M.1: Mandatory IF (LMP:2/20) - (AFH) supported*

**Table 27: This Table is intentionally left blank.**

| Item | Capability                             | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | This line is intentionally left blank. | N/A                   | O      | X                     |
| 2    | This line is intentionally left blank. | N/A                   | O      | X                     |
| 3    | N/A                                    | N/A                   | O      | X                     |
| 4    | N/A                                    | N/A                   | O      | X                     |

### 1.3.1 Roles

**Table 1: Roles**

| Item | Capability             | System Spec Reference | Status | Support [Yes] or [No] |
|------|------------------------|-----------------------|--------|-----------------------|
| 1    | Data Channel Initiator | L2CAP                 | M      | X                     |
| 2    | Data Channel Acceptor  | L2CAP                 | M      | X                     |

### 1.3.2 General Operation

**Table 2: General Operation**

| Item | Capability                                   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Support of signalling channel                | L2CAP, 2.2            | M      | X                     |
| 2    | Support of configuration process             | L2CAP, 7.1            | M      | X                     |
| 3    | Support of connection oriented data channel  | L2CAP, 2.2            | M      | X                     |
| 4    | Support of command echo request              | L2CAP, 4.8            | M      | X                     |
| 5    | Support of command echo response             | L2CAP, 4.9            | M      | X                     |
| 6    | Support of command information request       | L2CAP, 4.10           | O      | X                     |
| 7    | Support of command information response      | L2CAP, 4.11           | M      | X                     |
| 8    | Support of a channel group                   | L2CAP, 2.2            | O      | X                     |
| 9    | Support of packet for connectionless channel | L2CAP, 3.2            | O      | X                     |
| 10   | Support retransmission mode                  | L2CAP, 8.5            | O      | X                     |
| 11   | Support flow control mode                    | L2CAP, 8.5            | O      | X                     |

### 1.3.3 Configurable Parameters

**Table 3: Configurable Parameters**

| Item | Capability                         | System Spec Reference | Status | Support [Yes] or [No] |
|------|------------------------------------|-----------------------|--------|-----------------------|
| 1    | Support of RTX timer               | L2CAP, 6.2.1          | M      | X                     |
| 2    | Support of ERTX timer              | L2CAP, 6.2.2          | M      | X                     |
| 3    | Support minimum MTU size 48 octets | L2CAP, 5.1            | M      | X                     |

|    |   |            |     |   |
|----|---|------------|-----|---|
| 4  | Support MTU size larger than 48 octets                          | L2CAP, 5.1 | O   | X |
| 5  | Support of flush timeout value for reliable channel             | L2CAP, 5.2 | M   | X |
| 6  | Support of flush timeout value for unreliable channel           | L2CAP, 5.2 | O   | X |
| 7  | Support of bi-directional quality of service (QoS) option field | L2CAP, 5.3 | C.1 | X |
| 8  | Negotiate QoS service type                                      | L2CAP, 5.3 | O   | X |
| 9  | Negotiate and support service type 'No Traffic'                 | L2CAP, 5.3 | C.2 | X |
| 10 | Negotiate and support service type 'Best effort'                | L2CAP, 5.3 | C.3 | X |
| 11 | Negotiate and support service type 'Gauranteed'                 | L2CAP, 5.3 | C.2 | X |
| 12 | <i>(Intentionally left blank)</i>                               |            |     | X |
| 13 | <i>(Intentionally left blank)</i>                               |            |     | X |

*C.1: Mandatory if L2CAP, 3/8 (Negotiate QoS service type) is supported, otherwise optional.*

*C.2: Optional if L2CAP, 3/8 (Negotiate QoS service type) is supported, otherwise excluded.*

*C.3: Mandatory if L2CAP, 3/8 (Negotiate QoS service type) is supported, otherwise excluded.*

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|---|
| <b>Service Discovery Protocol</b><br>Annex for Test Spec. Vol 3, Part B |
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### 1.3.1 UUID Capabilities

**Table 1: Support Different Size Capabilities on UUID**

| Item | Capability               | System Spec Reference | Status | Support [Yes] or [No] |
|------|--------------------------|-----------------------|--------|-----------------------|
| 1    | Support for 128 bit UUID | SDP, 2.7.1            | M      | X                     |
| 2    | Support for 32 bit UUID  | SDP, 2.7.1            | M      | X                     |
| 3    | Support for 16 bit UUID  | SDP, 2.7.1            | M      | X                     |

**Table 1b: Roles**

| Item | Capability              | System Spec Reference | Status | Support [Yes] or [No] |
|------|-------------------------|-----------------------|--------|-----------------------|
| 1    | Support for server role | SDP, 2.1              | C.1    | X                     |
| 2    | Support for client role | SDP, 2.1              | C.1    | X                     |

*C.1 Mandatory to support at least one of the roles*

### 1.3.2 Service Search Request PDU



**Table 2: Valid Service Search Request**

| Item | Capability   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Support for respond on search of single Service, using ServiceSearchRequest. | SDP, 4.5              | M      | X                     |
| 2    | Support for respond on search of Service, using continuation state           | SDP, 4.5              | O      | X                     |
| 3    | Search for services using the continuation state.                            | SDP, 4.3              | C.1    | X                     |

*C.1 Mandatory to support IF the client role is supported (1b/2)*

**Table 3: Invalid Service Search Request**

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support for error response on Service search request. | SDP, 4.4              | M      | X                     |

### 1.3.3 Service Attribute Request PDU

**Table 4: Valid Service Attribute Request**

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support for respond on search of Attribute(s)                         | SDP, 4.6              | M      | X                     |
| 2    | Support for respond on search of Attribute, using continuation state. | SDP, 4.6              | O      | X                     |

**Table 5: Invalid Service Attribute Request**

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support for error response on Attribute search request. | SDP, 4.4              | M      | X                     |

### 1.3.4 Service Search Attribute Request PDU

**Table 6: Valid Service Search Attribute Request**

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support for respond on search for Service(s) and Attribute(s)         | SDP, 4.7              | M      | X                     |
| 2    | Support for respond on search of Attribute, using continuation state. | SDP, 4.7              | O      | X                     |

**Table 7: Invalid Service Search Attribute Request**

| Item | Capability   | System Spec Reference | Status | Support [Yes] or [No] |
|------|--|-----------------------|--------|-----------------------|
| 1    | Support for error response on Service and Attribute request. | SDP, 4.4              | M      | X                     |

### 1.3.5 Service Browsing

**Table 8: Service Browsing**

| Item | Capability   | System Spec Reference            | Status | Support [Yes] or [No] |
|------|--|----------------------------------|--------|-----------------------|
| 1    | Support for browsing, using SDP_ServiceSearchRequest and SDP_ServiceAttributeRequest | SDP, 4.5<br>SDP, 4.6<br>SDP, 2.8 | O      | X                     |
| 2    | Support for browsing, using SDP_ServiceSearchAttributeRequest                        | SDP, 4.7 SDP, 2.8                | O      | X                     |

### 1.3.6 Attributes

**Table 9: Attributes Present in IUT**

| Item | Capability                     | System Spec Reference | Status | Support [Yes] or [No] |
|------|--------------------------------|-----------------------|--------|-----------------------|
| 1    | ServiceID                      | SDP, 5.1.4            | O      | X                     |
| 2    | ProtocolDescriptorList         | SDP, 5.1.5            | O      | X                     |
| 3    | ServiceRecordState             | SDP, 5.1.3            | O      | X                     |
| 4    | ServiceInfoTimeToLive          | SDP, 5.1.8            | O      | X                     |
| 5    | BrowseGroupList                | SDP, 5.1.6            | O      | X                     |
| 6    | LanguageBaseAttributedIdList   | SDP, 5.1.7            | O      | X                     |
| 7    | ServiceAvailability            | SDP, 5.1.9            | O      | X                     |
| 8    | IconURL                        | SDP, 5.1.13           | O      | X                     |
| 9    | ServiceName                    | SDP, 5.1.14           | O      | X                     |
| 10   | ServiceDescription             | SDP, 5.1.15           | O      | X                     |
| 11   | ProviderName                   | SDP, 5.1.16           | O      | X                     |
| 12   | VersionNumberList              | SDP, 5.2.3            | O      | X                     |
| 13   | ServiceDataBaseState           | SDP, 5.2.4            | O      | X                     |
| 14   | BluetoothProfileDescriptorList | SDP, 5.1.10           | O      | X                     |
| 15   | DocumentationURL               | SDP, 5.1.11           | O      | X                     |
| 16   | ClientExecutableURL            | SDP, 5.1.12           | O      | X                     |

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## Modes

**Table 1: Modes**

| Item | Capability                | System Spec Reference | Status | Support [Yes] or [No] |
|------|---------------------------|-----------------------|--------|-----------------------|
| 1    | Non-discoverable mode     | GAP, 4.1.1            | C.1    | X                     |
| 2    | Limited-discoverable mode | GAP, 4.1.2            | O      | X                     |
| 3    | General-discoverable mode | GAP, 4.1.3            | O      | X                     |
| 4    | Non-connectable mode      | GAP, 4.2.1            | O      | X                     |
| 5    | Connectable mode          | GAP, 4.2.2            | M      | X                     |
| 6    | Non-pairable mode         | GAP, 4.3.1            | O      | X                     |
| 7    | Pairable mode             | GAP, 4.3.2            | C.2    | X                     |

*C.1: IF GAP 1/2 is supported then M, ELSE O*

*C.2: IF GAP 3/5 is supported then M, ELSE O*

## Security Aspects

**Table 2: Security Aspects**

| Item | Capability                    | System Spec Reference | Status | Support [Yes] or [No] |
|------|-------------------------------|-----------------------|--------|-----------------------|
| 1    | Authentication procedure      | GAP, 5.1              | C.1    | X                     |
| 2    | Support of LMP-Authentication | GAP, 5.1              | M      | X                     |
| 3    | Initiate LMP-Authentication   | GAP, 5.2              | C.5    | X                     |
| 4    | Security mode 1               | GAP, 5.2.1            | C.2    | X                     |
| 5    | Security mode 2               | GAP, 5.2.2            | C.3    | X                     |
| 6    | Security mode 3               | GAP, 5.2.3            | C.3    | X                     |
| 7    | Security mode 4               | GAP, 5.2.4            | M.1    | X                     |

*C.1: IF at least One of GAP, 2/5 or GAP, 2/6 is supported then M, ELSE O*

*C.3: IF Secure Communication is supported, then support for at least one of GAP, 2/5 or GAP, 2/6 is Mandatory, ELSE excluded*

*Note: The "Authentication Procedure" in item GAP, 2/1 is the one described in Fig. 5.1 on page 198 in the GAP Profile Specification and not the LMP-Authenticaiton.*

*C.2: IF GAP, 2/5 or GAP, 2/6 is supported THEN M, ELSE O.*

*M.1: IF (SUMMARY 2-1/5 OR SUMMARY 2-1/6) is supported THEN GAP, 2/7 is Mandatory, ELSE excluded*

*C.5 IF GAP, 2/5 or GAP, 2/6 or GAP, 2/7 is supported THEN GAP 2/3 is Mandatory, ELSE Optional*

## Idle Mode Procedures

**Table 3: Idle Mode Procedures**

| Item | Capability                      | System Spec Reference | Status | Support [Yes] or [No] |
|------|---------------------------------|-----------------------|--------|-----------------------|
| 1    | Initiation of general inquiry   | GAP, 6.1              | C.1    | X                     |
| 2    | Initiation of limited inquiry   | GAP, 6.2              | C.1    | X                     |
| 3    | Initiation of name discovery    | GAP, 6.3              | O      | X                     |
| 4    | Initiation of device discovery  | GAP, 6.4              | O      | X                     |
| 5    | Initiation of general bonding   | GAP, 6.5              | O      | X                     |
| 6    | Initiation of dedicated bonding | GAP, 6.5              | O      | X                     |

*C.1: If (SUMMARY 2-1/1 OR SUMMARY 2-1/2 OR SUMMARY 2-1/3 OR SUMMARY 2-1/4) is supported then one of GAP, 3/1 or GAP, 3/2 is Mandatory, else Optional.*

## Establish Procedures

**Table 4: Establishment Procedures**

| Item | Capability                                    | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Support link establishment as initiator       | GAP, 7.1              | M      | X                     |
| 2    | Support link establishment as acceptor        | GAP, 7.1              | M      | X                     |
| 3    | Support channel establishment as initiator    | GAP, 7.2              | O      | X                     |
| 4    | Support channel establishment as acceptor     | GAP, 7.2              | M      | X                     |
| 5    | Support connection establishment as initiator | GAP, 7.3              | O      | X                     |
| 6    | Support connection establishment as acceptor  | GAP, 7.3              | O      | X                     |

## Profile PICS Information

### Hands-Free Profile 1.5 External to Core

#### 1.1 Roles

Table 1: Roles

| Item | Capability         | System Spec Reference | Status | Support [Yes] or [No] |
|------|--------------------|-----------------------|--------|-----------------------|
| 1    | Audio Gateway (AG) | 2.2                   | O.1    | X                     |
| 2    | Hands-Free (HF)    | 2.2                   | O.1    | X                     |

*O.1: It is mandatory to support at least one of the defined roles.*

#### 1.2 Audio Gateway Capabilities

Table 2: Audio Gateway Role

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Connection Management   | 4.2; 4.3              | M.1    | X                     |
| 2    | Phone Status Information                                      | 4.4; 4.5; 4.6;        | M.1    | X                     |
| 3    | Audio connection handling                                     | 4.11; 4.12            | M.1    | X                     |
| 3a   | Audio connection establishment independent of call processing | 4.11; 4.12            | O      | X                     |
| 4a   | Accept an incoming voice call (in-band ring)                  | 4.13                  | C.1    | X                     |
| 4b   | Accept an incoming voice call (no in-band ring)               | 4.13                  | C.1    | X                     |
| 4c   | Capability to change the “in-band ring” settings              | 4.13                  | O      | X                     |
| 5    | Reject an incoming voice call                                 | 4.14                  | O      | X                     |
| 6    | Terminate a call  | 4.15                  | M.1    | X                     |
| 7    | Audio connection transfer during an ongoing call              | 4.17                  | M.1    | X                     |
| 8    | Place a call with a phone number supplied by HF               | 4.18                  | M.1    | X                     |
| 9    | Place a call using memory dialing                             | 4.19                  | M.1    | X                     |
| 10   | Place a call to the last number dialed                        | 4.20                  | M.1    | X                     |
| 11   | Call waiting notification                                     | 4.21                  | M.1    | X                     |
| 12   | Three Way Calling   | 4.22                  | O      | X                     |

|     |  |        |     |   |
|-----|--|--------|-----|---|
| 12a | User Busy (AT+CHLD value 0)                            | 4.22   | C.3 | X |
| 12b | Call Hold Handling (AT+CHLD value 1,2)                 | 4.22   | C.2 | X |
| 12c | Three Way Call (AT+CHLD value 3)                       | 4.22   | C.3 | X |
| 12d | Explicit Call Transfer (AT+CHLD value 4)               | 4.22   | C.3 | X |
| 13  | Calling Line Identification (CLI)                      | 4.23   | M.1 | X |
| 14  | Echo canceling (EC) and Noise reduction (NR)           | 4.24   | O   | X |
| 15  | Voice recognition activation                           | 4.25   | O   | X |
| 15a | Initiate voice recognition from AG                     | 4.25   | C.6 | X |
| 15b | Autonomous voice deactivation                          | 4.25   | C.6 | X |
| 16  | Attach a phone number to a voice tag                   | 4.25   | O   | X |
| 17  | Ability to transmit DTMF codes                         | 4.27   | M.1 | X |
| 18a | Remote audio volume control – speaker                  | 4.28.1 | O   | X |
| 18b | Remote audio volume control – microphone               | 4.28.1 | O   | X |
| 18c | Volume Level Synchronization – speaker and microphone  | 4.28.2 | C.5 | X |
| 19  | Response and hold                                      | 4.29   | O   | X |
| 20  | Subscriber Number Information                          | 4.30   | M.1 | X |
| 21a | Enhanced Call Status                                   | 4.31   | C.4 | X |
| 21b | Enhanced Call Control                                  | 4.32   | C.3 | X |
| 21c | Enhanced Call Status with limited network notification | 4.31   | C.4 | X |

*C.2: Mandatory if (2/12); otherwise Excluded.*

*C.3 Optional if (2/12); otherwise Excluded.*

*M.1: Mandatory IF (1/1) Selected*

*C.4: The AG must support one of item 2/21a or 2/21c.*

*C.6: Optional if 2/15 is supported, otherwise excluded.*

*C.5: Mandatory if 2/18a or 2/18b, otherwise optional.*

*C.1: The AG must support one of item 2/4a or 2/4b.*

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### 1.3 Hands-Free Capabilities

**Table 3: Capabilities of the HF**

| Item | Capability  | System Spec Reference | Status | Support [Yes] or [No] |
|------|---|-----------------------|--------|-----------------------|
| 1    | Connection Management   | 4.2;4.3               | M.1    | X                     |
| 2a   | Phone Status Information (“service” and “call” indicators)    | 4.4;4.10              | M.1    | X                     |
| 2b   | Phone Status Information (“callsetup” indicator)              | 4.10                  | O      | X                     |
| 2c   | Accept indicator of signal strength                           | 4.5                   | O      | X                     |
| 2d   | Accept indicator of roaming state roam                        | 4.6                   | O      | X                     |
| 2e   | Accept indicator of battery level (“battchg”)                 | 4.7                   | O      | X                     |
| 2f   | Accept indicator of operator selection                        | 4.8                   | O      | X                     |
| 3    | Audio connection handling                                     | 4.11;4.12             | M.1    | X                     |
| 3a   | Audio connection establishment independent of call processing | 4.11;4.12             | O      | X                     |
| 4a   | Accept an incoming voice call (in-band ring)                  | 4.13                  | M.1    | X                     |
| 4b   | Accept an incoming voice call (no in-band ring)               | 4.13                  | M.1    | X                     |
| 4c   | Accept an incoming voice call (in-band ring muting)           | 4.13                  | O      | X                     |
| 5    | Reject an incoming voice call                                 | 4.14                  | M.1    | X                     |
| 6    | Terminate a call  | 4.15                  | M.1    | X                     |
| 7    | Audio connection transfer during an ongoing call              | 4.16                  | M.1    | X                     |
| 8    | Place a call with a phone number supplied by the HF           | 4.18                  | O      | X                     |
| 9    | Place a call using memory dialing                             | 4.19                  | O      | X                     |
| 10   | Place a call to the last number dialed                        | 4.20                  | O      | X                     |
| 11   | Call waiting notification                                     | 4.21                  | O      | X                     |
| 12   | Three Way Calling   | 4.22                  | O      | X                     |
| 12a  | Three way calling (AT+CHLD values 0)                          | 4.22                  | C.2    | X                     |
| 12b  | Three way calling (AT+CHLD values 1 and 2)                    | 4.22                  | C.1    | X                     |
| 12c  | Three way calling (AT+CHLD value 3)                           | 4.22                  | C.2    | X                     |
| 12d  | Three way calling (AT+CHLD value 4)                           | 4.22                  | C.2    | X                     |
| 13   | Calling Line Identification (CLI)                             | 4.23                  | O      | X                     |
| 14   | Echo cancelling (EC) and Noise reduction (NR)                 | 4.24                  | O      | X                     |
| 15   | Voice recognition activation                                  | 4.25                  | O      | X                     |
| 16   | Attach a phone number to a voice tag                          | 4.26                  | O      | X                     |
| 17   | Ability to transmit DTMF codes                                | 4.27                  | O      | X                     |
| 18a  | Remote audio volume control – speaker                         | 4.28.1                | O      | X                     |
| 18b  | Remote audio volume control – microphone                      | 4.28.1                | O      | X                     |
| 18c  | Volume Level Synchronization – speaker                        | 4.28.2                | C.3    | X                     |

|     |   |        |     |   |
|-----|---|--------|-----|---|
| 18d | Volume Level Synchronization – microphone | 4.28.2 | C.4 | X |
| 19  | Response and hold                         | 4.29   | O   | X |
| 20  | Subscriber Number Information             | 4.30   | O   | X |
| 21a | Enhanced Call Status                      | 4.31   | C.2 | X |
| 21b | Enhanced Call Control                     | 4.32   | C.2 | X |

*C.1 Mandatory if (3/12); otherwise Excluded.*

*C.2 Optional if (3/12); otherwise Excluded.*

*M.1: Mandatory IF (1/2) Selected*

*C.3 Mandatory if 3/18a or 3/18b, otherwise Optional.*

*C.4 Mandatory if 3/18b, otherwise Optional*

## 1.4 Audio Coding Requirements

**Table 4: Requirements towards the Link Control Procedures of the Serial Port Profile (AG and HF)**

| Item | Capability                 | System Spec Reference | Status | Support [Yes] or [No] |
|------|----------------------------|-----------------------|--------|-----------------------|
| 1    | CVSD audio coding over SCO | 2.3                   | M      | X                     |