Running Speed and Cadence Profile (RSCP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

- **Revision:** RSCP.ICS.1.0.4
- **Revision Date:** 2018-06-27
- **Group Prepared By:** BTI
- **Feedback Email:** bti-main@bluetooth.org
## Revision History

<table>
<thead>
<tr>
<th>Revision History</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>D0.9.0</td>
<td>2012-03-26</td>
<td>First draft based on Glucose Profile ICS. Comments from S&amp;F addressed and submitted for BTI review. Incorporated feedback from Laurence.</td>
</tr>
<tr>
<td>D0.9.1</td>
<td>2012-03-28</td>
<td>Accepted all changes. Incorporated feedback from Guillaume and Jason N.</td>
</tr>
<tr>
<td>D0.9.2</td>
<td>2012-04-09</td>
<td>Accepted all changes. Submitted for BTI review. Incorporated feedback from BTI.</td>
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<td>D0.9.3</td>
<td>2012-04-09</td>
<td>Accepted all changes.</td>
</tr>
<tr>
<td>D1.0.0r0</td>
<td>2012-07-06</td>
<td>Changed revision to draft 1.0.0. Comments from Jason and Bob addressed.</td>
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<tr>
<td>D1.0.0r1</td>
<td>2012-07-20</td>
<td>Accepted all changes. Incorporated feedback from BTI.</td>
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<tr>
<td>D1.0.0r2</td>
<td>2012-07-23</td>
<td>Accepted all changes. Submitted for BTI vote. Added missing SM1L1 requirement to Tables 6 and 14.</td>
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<tr>
<td>D1.0.0r3</td>
<td>2012-07-23</td>
<td>Accepted all changes.</td>
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<tr>
<td>1.0.0</td>
<td>2013-08-07</td>
<td>Prepare for Publication</td>
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<td>1.0.1r01</td>
<td>2013-09-30</td>
<td>TSE 5295: Updated item 11/2 status to C.1 instead of M.</td>
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<tr>
<td>1.0.1</td>
<td>2013-12-03</td>
<td>Prepare for Publication</td>
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<tr>
<td>1.0.2r00</td>
<td>2014-10-20</td>
<td>TSE 5799: Updated 11/12 from M to C.1.</td>
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<tr>
<td>1.0.2</td>
<td>2014-12-05</td>
<td>Prepare for TCRL 2014-2 publication</td>
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<tr>
<td>1.0.3r00</td>
<td>2015-10-01</td>
<td>TSE 6555: Added item 13/3 for Bondable Mode in Table 13 and made item 11/13 (Verify Bond Status) in Table 11 dependent on it.</td>
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<tr>
<td>1.0.3r01</td>
<td>2015-10-22</td>
<td>Converted to new document template.</td>
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<tr>
<td>1.0.3</td>
<td>2015-12-22</td>
<td>Prepared for TCRL 2015-2 publication.</td>
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<td>1.0.4r00</td>
<td>2017-10-08</td>
<td>TSE 9952 (rating 1): Updated ICS template. Added a table 0 for version.</td>
</tr>
<tr>
<td>1.0.4</td>
<td>2018-06-27</td>
<td>Approved by BTI. Prepared for TCRL 2018-1 publication.</td>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
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<td>Company</td>
</tr>
<tr>
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</tr>
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</tbody>
</table>
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## Contents

1 Identification of the Implementation
   1.1 Implementation Under Test (IUT) Identification ........................................ 6
   1.2 Versions ........................................................................................................... 7
   1.3 Profile Roles ..................................................................................................... 7
   1.4 Transport Requirements ..................................................................................... 7
   1.5 RSC Sensor Role ............................................................................................... 7
   1.5.1 Services – RSC Sensor Role ....................................................................... 7
   1.5.2 DIS Requirements – RSC Sensor Role ....................................................... 8
   1.5.3 GAP Requirements – RSC Sensor Role ...................................................... 8
   1.5.4 SM Requirements – RSC Sensor Role ......................................................... 8
   1.6 RSC Collector Role .......................................................................................... 9
   1.6.1 Service Support – RSC Collector Role ........................................................ 9
   1.6.2 Discover Services and Characteristics – RSC Collector Role ...................... 9
   1.6.3 Features – Collector Role ........................................................................... 10
   1.6.4 GATT Requirements – Collector Role ....................................................... 12
   1.6.5 GAP Requirements – Collector Role ........................................................... 13
   1.6.6 SM Requirements – Collector Role .............................................................. 13

2 References ........................................................................................................... 14
1 Identification of the Implementation

Identification of the Implementation Under Test (IUT) shall be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma shall be named in the Declaration of Compliance: Summary of Selected Specifications in Implementation.

1.1 Implementation Under Test (IUT) Identification

IUT Name:

IUT Version (Hardware/Software ID):

IUT Supplier:
1.2 Versions

Table 0: Versions

<table>
<thead>
<tr>
<th>Item</th>
<th>Version</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RSCP 1.0</td>
<td>[1]</td>
<td>M</td>
<td>☑ Yes ☑ No</td>
</tr>
</tbody>
</table>

1.3 Profile Roles

Table 1: Profile Roles

<table>
<thead>
<tr>
<th>Item</th>
<th>Role</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RSC Sensor</td>
<td>[1] 2.1</td>
<td>C.1</td>
<td>☑ Yes ☑ No</td>
</tr>
<tr>
<td>2</td>
<td>Collector</td>
<td>[1] 2.1</td>
<td>C.1</td>
<td>☑ Yes ☑ No</td>
</tr>
</tbody>
</table>

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

1.4 Transport Requirements

Table 2: Transport Requirements

<table>
<thead>
<tr>
<th>Item</th>
<th>Transport</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Profile supported over BR/EDR</td>
<td>[1] 2.5</td>
<td>C.1</td>
<td>☑ Yes ☑ No</td>
</tr>
<tr>
<td>2</td>
<td>Profile supported over LE</td>
<td>[1] 2.5</td>
<td>C.1</td>
<td>☑ Yes ☑ No</td>
</tr>
</tbody>
</table>

C.1: Mandatory to support at least one of 2/1 “Profile supported over BR/EDR” OR 2/2 “Profile supported over LE”.

1.5 RSC Sensor Role

1.5.1 Services – RSC Sensor Role

Table 3: Services - RSC Sensor Role

Prerequisite: RSCP 1/1

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Running Speed and Cadence Service as a Primary Service</td>
<td>[1] 3,</td>
<td>M</td>
<td>☑ Yes ☑ No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[2] RSCS 3/1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Running Speed and Cadence Service UUID in AD in GAP Discoverable Mode</td>
<td>[1] 3.1.1.1</td>
<td>C.1</td>
<td>☑ Yes ☑ No</td>
</tr>
<tr>
<td>3</td>
<td>Local Name in AD or Scan Response</td>
<td>[1] 3.1.1.2</td>
<td>C.1</td>
<td>☑ Yes ☑ No</td>
</tr>
</tbody>
</table>
### 1.5.2 DIS Requirements – RSC Sensor Role

**Table 4: DIS Requirements - RSC Sensor Role**

**Prerequisite: RSCP 1/1**

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Manufacturer Name String</td>
<td>[1] 3.2</td>
<td>C.1</td>
<td>☐ Yes ☐ No</td>
</tr>
<tr>
<td>2</td>
<td>Model Number String</td>
<td>[1] 3.2</td>
<td>C.1</td>
<td>☐ Yes ☐ No</td>
</tr>
</tbody>
</table>

C.1: Optional IF 3/5 “Device Information Service” is supported, otherwise Excluded.

### 1.5.3 GAP Requirements – RSC Sensor Role

**Table 5: GAP Requirements - RSC Sensor Role**

**Prerequisite: RSCP 1/1**

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Peripheral</td>
<td>[1] 2.4</td>
<td>C.1</td>
<td>☐ Yes ☐ No</td>
</tr>
<tr>
<td>2</td>
<td>Security Mode 1</td>
<td>[1] 6.1</td>
<td>C.1</td>
<td>☐ Yes ☐ No</td>
</tr>
<tr>
<td>3</td>
<td>General Discoverable mode for BR/EDR</td>
<td>[1] 5.3.1.1</td>
<td>C.2</td>
<td>☐ Yes ☐ No</td>
</tr>
</tbody>
</table>

C.1: Mandatory IF 2/2 “Profile supported over LE” is supported, otherwise Not Defined.
C.2: Mandatory IF 2/1 “Profile supported over BR/EDR” is supported, otherwise Not Defined.

### 1.5.4 SM Requirements – RSC Sensor Role

**Table 6: SM Requirements - RSC Sensor Role**

**Prerequisite: RSCP 1/1**

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
</table>

C.1: Mandatory IF 2/2 “Profile supported over LE” is supported, otherwise Not Defined.
### 1.6 RSC Collector Role

#### 1.6.1 Service Support – RSC Collector Role

**Table 7: Service Support – RSC Collector Role**

Prerequisite: RSCP 1/2

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Running Speed and Cadence Service</td>
<td>[1] 4</td>
<td>M</td>
<td>○ Yes   ○ No</td>
</tr>
<tr>
<td>2</td>
<td>Device Information Service</td>
<td>[1] 4</td>
<td>O</td>
<td>○ Yes   ○ No</td>
</tr>
</tbody>
</table>

#### 1.6.2 Discover Services and Characteristics – RSC Collector Role

**Table 8: Discover RSC Services and Characteristics – RSC Collector Role**

Prerequisite: RSCP 1/2

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Discover Running Speed and Cadence Service</td>
<td>[1] 4.2.1</td>
<td>M</td>
<td>○ Yes   ○ No</td>
</tr>
<tr>
<td>2</td>
<td>Discover RSC Measurement characteristic</td>
<td>[1] 4.3.1.1</td>
<td>M</td>
<td>○ Yes   ○ No</td>
</tr>
<tr>
<td>3</td>
<td>Discover RSC Measurement - Client Characteristic Configuration Descriptor</td>
<td>[1] 4.3.1.1</td>
<td>M</td>
<td>○ Yes   ○ No</td>
</tr>
<tr>
<td>4</td>
<td>Discover RSC Feature characteristic</td>
<td>[1] 4.3.1.2</td>
<td>M</td>
<td>○ Yes   ○ No</td>
</tr>
<tr>
<td>5</td>
<td>Discover Sensor Location</td>
<td>[1] 4.3.1.3</td>
<td>O</td>
<td>○ Yes   ○ No</td>
</tr>
<tr>
<td>6</td>
<td>Discover SC Control Point characteristic</td>
<td>[1] 4.3.1.4</td>
<td>O</td>
<td>○ Yes   ○ No</td>
</tr>
<tr>
<td>7</td>
<td>Discover SC Control Point - Client Characteristic Configuration Descriptor</td>
<td>[1] 4.3.1.4</td>
<td>C.1</td>
<td>○ Yes   ○ No</td>
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</tbody>
</table>

C.1: Mandatory IF 8/6 “Discover SC Control Point characteristic” is supported, otherwise Excluded.
### Table 9: Discover DIS Services and Characteristics – RSC Collector Role

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Discover Device Information Service</td>
<td>[1] 4, 4.2.2</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>2</td>
<td>Discover Manufacturer Name String Characteristic</td>
<td>[1] 4.3.2</td>
<td>C.2</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>3</td>
<td>Read Manufacturer Name String Characteristic</td>
<td>[1] 4.8</td>
<td>O</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>4</td>
<td>Discover Model Number String Characteristic</td>
<td>[1] 4.3.2</td>
<td>C.2</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>5</td>
<td>Read Model Number String Characteristic</td>
<td>[1] 4.8</td>
<td>O</td>
<td>○ Yes ○ No</td>
</tr>
</tbody>
</table>

C.1: Mandatory IF 9/2 “Discover Manufacturer Name String Characteristic” OR 9/4 “Discover Model Number String Characteristic” is supported, otherwise Optional.

C.2: Mandatory IF 9/3 “Read Manufacturer Name String Characteristic” OR 9/5 “Read Model Number String Characteristic” is supported, otherwise Optional.

### 1.6.3 Features – Collector Role

Table 10: SC Control Point Procedures – RSC Collector Role

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Set Cumulative Value – Set to zero</td>
<td>[1] 4.7.1</td>
<td>O</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>2</td>
<td>Set Cumulative Value – Set to non-zero</td>
<td>[1] 4.7.1</td>
<td>O</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>3</td>
<td>Start Calibration</td>
<td>[1] 4.7.1</td>
<td>O</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>4</td>
<td>Update Sensor Location</td>
<td>[1] 4.7.1</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>5</td>
<td>Request Supported Sensor Locations</td>
<td>[1] 4.7.1</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
</tbody>
</table>

C.1: IF either 10/4 “Update Sensor Location” OR 10/5 “Request Supported Sensor Locations” is supported, both are required.
<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Configure RSC Measurement characteristic for notifications</td>
<td>[1] 4.4</td>
<td>M</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>2</td>
<td>Receive RSC Measurement characteristic notifications</td>
<td>[1] 4.4</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>3</td>
<td>Read RSC Feature characteristic</td>
<td>[1] 4.5</td>
<td>M</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>4</td>
<td>Read Sensor Location characteristic</td>
<td>[1] 4.6</td>
<td>O</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>5</td>
<td>Configure SC Control Point characteristic for indications</td>
<td>[1] 4.7</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>6</td>
<td>Receive SC Control Point characteristic indications</td>
<td>[1] 4.7.2, 4.7.3</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>7</td>
<td>Write to SC Control Point characteristic</td>
<td>[1] 4.7</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>8</td>
<td>SC Control Point Characteristic - Set Cumulative Value Op Code</td>
<td>[1] 4.7.2.1</td>
<td>C.2</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>9</td>
<td>SC Control Point Characteristic - Start Calibration Op Code</td>
<td>[1] 4.7.2.2</td>
<td>C.3</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>10</td>
<td>SC Control Point Characteristic - Update Sensor Location Op Code</td>
<td>[1] 4.7.2.3</td>
<td>C.4</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>11</td>
<td>SC Control Point Characteristic – Procedure Time Out</td>
<td>[1] 4.7.4</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>12</td>
<td>Verify Bond Status on Reconnection</td>
<td>[1] 5.2.2</td>
<td>C.5</td>
<td>○ Yes ○ No</td>
</tr>
</tbody>
</table>

C.1: Mandatory IF at least one of 10/1 “Set Cumulative Value – Set to zero”, 10/2 “Set Cumulative Value – Set to non-zero”, 10/3 “Start Calibration”, 10/4 “Update Sensor Location”, or 10/5 “Request Supported Sensor Locations” is supported, otherwise Excluded.

C.2: Mandatory IF 10/1 “Set Cumulative Value – Set to zero” OR 10/2 “Set Cumulative Value – Set to non-zero” is supported, otherwise Excluded.

C.3: Mandatory IF 10/3 “Start Calibration” is supported, otherwise Excluded.

C.4: Mandatory IF 10/4 “Update Sensor Location” AND 10/5 “Request Supported Sensor Locations” are supported, otherwise Excluded.

C.5: Mandatory IF 13/3 “Bondable Mode” is supported, otherwise Excluded.
### 1.6.4 GATT Requirements – Collector Role

**Prerequisite: RSCP 1/2**

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Generic Attribute Profile Client</td>
<td>[1] 2.1 [3] GATT 1/1</td>
<td>M</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>2</td>
<td>Attribute Protocol Supported over BR/EDR (L2CAP fixed channel support)</td>
<td>[1] 4.2 [3] GATT 2/1</td>
<td>C.4</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>4</td>
<td>Discover All Primary Services</td>
<td>[1] 4.2 [3] GATT 3/2</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>5</td>
<td>Discover Primary Services by Service UUID</td>
<td>[1] 4.2 [3] GATT 3/3</td>
<td>C.1</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>7</td>
<td>Discover All Characteristics by UUID</td>
<td>[1] 4.3.1 [3] GATT 3/6</td>
<td>C.2</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>8</td>
<td>Discover All Characteristic Descriptors</td>
<td>[1] 4.3.1 [3] GATT 3/7</td>
<td>M</td>
<td>○ Yes ○ No</td>
</tr>
</tbody>
</table>

C.1: Mandatory to support at least one of 12/4 "Discover All Primary Services" OR 12/5 "Discover Primary Services by Service UUID", otherwise Not Defined.

C.2: Mandatory to support at least one of 12/6 "Discover All Characteristics of a Service" OR 12/7 "Discover All Characteristics by UUID", otherwise Not Defined.

C.3: Mandatory to support if at least one of 10/1 "Set Cumulative Value – Set to zero", 10/2 "Set Cumulative Value – Set to non-zero", 10/3 "Start Calibration", OR 10/4 "Update Sensor Location" is supported, otherwise Not Defined.

C.4: Mandatory IF 2/1 “Profile supported over BR/EDR” is supported, otherwise Not Defined.
C.5: Mandatory IF 2/2 “Profile supported over LE” is supported, otherwise Not Defined.

1.6.5 GAP Requirements – Collector Role

Prerequisite: RSCP 1/2

Table 13: GAP Requirements – Collector Role

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Central</td>
<td>[1] 2.4 [4] GAP 5/4 or GAP 38/4</td>
<td>M</td>
<td>○ Yes ○ No</td>
</tr>
<tr>
<td>3</td>
<td>Bondable Mode</td>
<td>[1] 5.2 [4] GAP 34/2</td>
<td>O</td>
<td>○ Yes ○ No</td>
</tr>
</tbody>
</table>

1.6.6 SM Requirements – Collector Role

Prerequisite: RSCP 1/2

Table 14: SM Requirements – Collector Role

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
</table>
2 References

[1] Running Speed and Cadence Profile Specification
[2] ICS Proforma for Running Speed and Cadence Service
[3] ICS Proforma for Generic Attribute Profile (GATT)
[7] ICS Proforma for Device Information Service 1.1