

Weight Scale Service

Bluetooth® Service Specification

- Revision: ~~V4~~v1.0.01
- Revision Date: ~~2024-10-01~~2014-10-24
- Group Prepared By: SF WG

Feedback Email:

This document is provided as a courtesy to help readers identify changes between two versions of a Bluetooth specification. When implementing specifications, use the adopted versions located at www.bluetooth.com.

Feedback Email:

Abstract:

This service exposes weight and related data from a weight scale intended for consumer healthcare and sports/fitness applications.



Revision History

Contributors

Revision	Date (yyyy-mm-dd)	Comments
V1.0.0	2014-10-21	Adopted by the Bluetooth SIG BoD
<u>v1.0.1</u>	<u>2024-10-01</u>	<u>Adopted by the Bluetooth SIG Board of Directors.</u>

Version History

Versions	Changes
<u>v1.0.0 to v1.0.1</u>	<u>Incorporated errata 16254, 16255, 18760, 22602, 19079, 23321.</u>

Acknowledgments

Name	Company
Robert Hughes	Intel Corporation
Jerry Wang	A&D Medical
Yoshiteru Nozoe	A&D Medical
Tetsu Nishimura	Murata Manufacturing
Leif-Alexandre Aschehoug	Nordic Semiconductor
Elvis Pfitzenreuter	Signove



DISCLAIMER AND COPYRIGHT NOTICE

This disclaimer applies

~~Use of this specification is your acknowledgement that you agree to all draft specifications and final specifications adopted by the Bluetooth SIG Board of Directors (both of which are hereinafter referred to herein as a Bluetooth "Specification"). Your use of this Specification in any way is subject to your compliance will comply with all conditions of such use, the following notices and your acceptance of all disclaimers and limitations as to such use, contained in this Specification. Any user of this Specification is. You are advised to seek appropriate legal, engineering or, and other professional advice regarding the use, interpretation or, and effect of this Specification on any matters discussed in this Specification specification.~~

~~Use of Bluetooth Specifications and any related intellectual property is governed by the Promoters Membership Agreement among the Promoter Members and Bluetooth SIG (the "Promoters Agreement"), certain membership agreements between Bluetooth SIG and its Adopter and Associate Members, including, but not limited to, the Membership Application, the Bluetooth Patent/Copyright License Agreement and the Bluetooth Trademark License Agreement (collectively, the "Membership Agreements") and the Bluetooth Specification Early Adopters Agreements (1.2 Early Adopters Agreements) among Early Adopter members of the unincorporated Bluetooth SIG and the Promoter Members (the "Early Adopters Agreement"). Certain rights and obligations of the Promoter Members under the Early Adopters Agreements have been assigned to Bluetooth SIG by the Promoter Members.~~

~~Use of Bluetooth specifications by members of Bluetooth SIG is governed by the membership and other related agreements between Bluetooth SIG and its members, including those agreements posted on Bluetooth SIG's website located at www.bluetooth.com. Any use of this specification by a member that is not in compliance with the applicable membership and other related agreements is prohibited and, among other things, may result in (i) termination of the applicable agreements and (ii) liability for infringement of the intellectual property rights of Bluetooth SIG and its members. This specification may provide options, because, for example, some products do not implement every portion of the specification. All content within the specification, including notes, appendices, figures, tables, message sequence charts, examples, sample data, and each option identified is intended to be within the bounds of the Scope as defined in the Bluetooth Patent/Copyright License Agreement ("PCLA"). Also, the identification of options for implementing a portion of the specification is intended to provide design flexibility without establishing, for purposes of the PCLA, that any of these options is a "technically reasonable non-infringing alternative."~~

~~Use of the Specification this specification by anyone who is not a member of Bluetooth SIG or a party to is prohibited and is an Early Adopters Agreement (each such person or party, a "Member") is prohibited. The use of any portion of a Bluetooth Specification may involve the use of infringement of the intellectual property rights ("IPR"), including pending or issued patents, or copyrights or other rights of Bluetooth SIG and its members. The furnishing of this specification does not grant any license to any intellectual property of Bluetooth SIG or its members. THIS SPECIFICATION IS PROVIDED "AS IS" AND BLUETOOTH SIG, ITS MEMBERS AND THEIR AFFILIATES MAKE NO REPRESENTATIONS OR WARRANTIES AND DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, OR THAT THE CONTENT OF THIS SPECIFICATION IS FREE OF ERRORS. For the avoidance of doubt, Bluetooth SIG has not made ne any search or investigation for such rights and as to third parties that may claim rights in or to any specifications or any intellectual property that may be required to implement any specifications and it disclaims any undertaking obligation or duty to do so. The legal rights and obligations of each Member are governed by the applicable Membership Agreements, Early Adopters Agreement or Promoters Agreement. No license, express or implied, by estoppel or otherwise, to any intellectual property rights are granted herein.~~

~~Any use of the Specification not in compliance with the terms of the applicable Membership Agreements, Early Adopters Agreement or Promoters Agreement is prohibited and any such prohibited use may result in (i) termination of the applicable Membership Agreements or Early Adopters Agreement and (ii) liability claims by Bluetooth SIG or any of its Members for patent, copyright and/or trademark infringement claims permitted by the applicable agreement or by applicable law.~~

~~THE SPECIFICATION IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, SATISFACTORY QUALITY, OR REASONABLE SKILL OR CARE, OR ANY WARRANTY ARISING OUT OF ANY COURSE OF DEALING, USAGE, TRADE PRACTICE, PROPOSAL, SPECIFICATION OR SAMPLE.~~

~~Each Member hereby acknowledges that products TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, BLUETOOTH SIG, ITS MEMBERS AND THEIR AFFILIATES DISCLAIM ALL LIABILITY ARISING OUT OF OR RELATING TO USE OF THIS SPECIFICATION AND ANY INFORMATION CONTAINED IN THIS SPECIFICATION, INCLUDING LOST REVENUE, PROFITS, DATA OR PROGRAMS, OR BUSINESS INTERRUPTION, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, AND EVEN IF BLUETOOTH SIG, ITS MEMBERS OR THEIR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF THE DAMAGES.~~

~~Products equipped with the Bluetooth wireless technology ("Bluetooth Products") and their combination, operation, use, implementation, and distribution may be subject to various regulatory controls under the laws and regulations applicable to of numerous countries that regulate products using that use wireless non-licensed spectrum of various governments~~



~~worldwide. Such laws and regulatory controls may govern, among other things, the combination, operation, use, implementation and distribution of Bluetooth Products. Examples of such laws and regulatory controls include, but are not limited to, airline regulatory controls, regulations, telecommunications regulations, technology transfer controls, and health and safety regulations. Each Member is You are solely responsible for the compliance by their Bluetooth Products complying with any such all applicable laws and regulations and for obtaining any and all required authorizations, permits, or licenses for theirin connection with your use of this specification and development, manufacture, and distribution of Bluetooth Products related to such regulations within the applicable jurisdictions. Each Member acknowledges that nothing, Nothing in the Specificationthis specification provides any information or assistance in connection with securing such compliance, complying with applicable laws or regulations or obtaining required authorizations, permits, or licenses. NOTHING IN THE SPECIFICATION CREATES ANY WARRANTIES, EITHER EXPRESS OR IMPLIED, REGARDING SUCH LAWS OR REGULATIONS.~~

~~ALL LIABILITY, INCLUDING LIABILITY FOR INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS OR FOR NONCOMPLIANCE WITH LAWS, RELATING TO USE OF THE SPECIFICATION IS EXPRESSLY DISCLAIMED. To the extent not prohibited by law, in no event will Bluetooth SIG or its Members or their affiliates be liable for any damages, including without limitation, lost revenue, profits, data or programs, or business interruption, or for special, indirect, consequential, incidental or punitive damages, however caused and regardless of the theory of liability, arising out of or related to any furnishing, practicing, modifying, use or the performance or implementation of the contents of this Specification, even if Bluetooth SIG or its Members or their affiliates have been advised of the possibility of such damages. BY USE OF THE SPECIFICATION, EACH MEMBER EXPRESSLY WAIVES ANY CLAIM AGAINST BLUETOOTH SIG AND ITS MEMBERS OR THEIR AFFILIATES RELATED TO USE OF THE SPECIFICATION.~~

~~If this Specification is an intermediate draft, it is for comment only. No products should be designed based on Bluetooth SIG is not required to adopt any specification or portion thereof. If this specification is not the final version adopted by Bluetooth SIG's Board of Directors, it except solely to verify the prototyping specification at SIG-sponsored IOP events and it does not represent any commitment to release or implement any portion of the intermediate draft, which may not be adopted. Any specification adopted by Bluetooth SIG's Board of Directors may be withdrawn, replaced, or modified, or replaced at any time in the adopted Specification.~~

~~Bluetooth SIG reserves the right to adopt any changes or alterations to the Specification it deems necessary or appropriate.change or alter final specifications in accordance with its membership and operating agreements.~~

~~Copyright © 2013 – 2014. – 20234. All The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. All copyrights in the Bluetooth Specifications themselves are owned by Apple Inc., Ericsson AB, Intel Corporation, Lenovo (Singapore) Pte. Ltd., Intel Corporation, Microsoft Corporation, Motorola Mobility, LLC, Nokia Corporation, and Toshiba Corporation. The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. Other third-party brands and names are the property of their respective owners.~~



Document Terminology

Bluetooth SIG has adopted Section 13.1 of the IEEE Standards Style Manual, which dictates use of the words “shall”, “should”, “may”, and “can” in the development of documentation, as follows:

The word *shall* is used to indicate mandatory requirements strictly to be followed in order to conform to the standard and from which no deviation is permitted (*shall equals is required to*).

The use of the word *must* is deprecated and shall not be used when stating mandatory requirements; *must* is used only to describe unavoidable situations.

The use of the word *will* is deprecated and shall not be used when stating mandatory requirements; *will* is only used in statements of fact.

The word *should* is used to indicate that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required; or that (in the negative form) a certain course of action is deprecated but not prohibited (*should equals is recommended that*).

The word *may* is used to indicate a course of action permissible within the limits of the standard (*may equals is permitted*).

The word *can* is used for statements of possibility and capability, whether material, physical, or causal (*can equals is able to*).

The term *Reserved for Future Use (RFU)* is used to indicate Bluetooth SIG assigned values that are reserved by the Bluetooth SIG and are not otherwise available for use by implementations.



Contents

Document Terminology	54
1 Introduction	6
1.1 Conformance	6
1.2 Service Dependency	6
1.3 Bluetooth Specification Release Compatibility	6
1.4 GATT Sub-Procedure Requirements	6
1.5 Error Codes	6
1.6 Byte Transmission Order.....	6
2 Service Declaration	7
3 Service Characteristics	8
3.1 Weight Scale Feature.....	8
3.1.1 Characteristic Behavior.....	8
3.2 Weight Measurement	9
3.2.1 Characteristic Behavior.....	9
3.2.1.1 Flags Field.....	9
3.2.1.2 Weight Field.....	10
3.2.1.3 Time Stamp Field	10
3.2.1.4 User ID Field.....	11
3.2.1.5 BMI and Height Field Pair.....	11
3.3 Requirements for Time-Sensitive Data	11
4 SDP Interoperability	13
5 Acronyms and Abbreviations	14
6 References	15



1 Introduction

The Weight Scale (WS) Service exposes weight and related data from a weight scale (Server) intended for consumer healthcare as well as sports/fitness applications.

1.1 Conformance

~~If a device claims conformance to~~

~~Each capability of this service, all capabilities indicated as mandatory for this service specification shall be supported in the specified manner (process-mandatory). This also applies to all optional and conditional capabilities specification may provide options for design flexibility, because, for which support is indicated. All mandatory capabilities, and optional and conditional capabilities for which support is indicated, are subject to verification as part example, some products do not implement every portion of the specification. For each implementation option that is supported, it shall be supported as specified.~~

~~Bluetooth qualification program.~~

Commented [SIG1]: E23321

1.2 Service Dependency

This service is not dependent upon any other services.

1.3 Bluetooth Specification Release Compatibility

This specification is compatible with Bluetooth Core Specification 4.0₂ or later ~~version of the Core Specification~~ [1].

Commented [SIG2]: E22602

1.4 GATT Sub-Procedure Requirements

Requirements in this section represent a minimum set of requirements for a Server. Other GATT sub-procedures may be used if supported by both Client and Server.

Table 1.1 summarizes *additional* GATT sub-procedure requirements beyond those required by all GATT Servers.

GATT Sub-Procedure	Requirements
Indications	M
Read Characteristic Descriptors	M
Write Characteristic Descriptors	M

Table 1.1: GATT Sub-procedure Requirements

There are no transport restrictions imposed by this service specification.

Where the term BR/EDR is used throughout this document, this also includes the optional use of AMP.

1.5 Error Codes

This service does not define any Attribute Protocol Application Error codes.



1.6 Byte Transmission Order

All characteristics used with this service shall be transmitted with the least significant octet first (i.e., little endian). The least significant octet is identified in the characteristic definitions in [\[21\]](#).

Field Code Changed



2 Service Declaration

In most cases, the Weight Scale Service should be instantiated as a «Primary Service»; however this is defined in a higher-level specification.

The service UUID shall be set to «Weight Scale Service» defined in [3].



3 Service Characteristics

The following characteristics are exposed in the Weight Scale Service. Only one instance of each characteristic is permitted within this service. The characteristic formats and UUIDs are defined in [23].

Field Code Changed

Where a characteristic can be indicated, a Client Characteristic Configuration descriptor shall be included in that characteristic as required by the Core Specification [1].

Characteristic Name	Requirement	Mandatory Properties	Optional Properties	Security Permissions
Weight Scale Feature	M	Read	Indicate C.1	None
Weight Measurement	M	Indicate		None

Table 3.1: Weight Scale Service Characteristics

C.1: The Indicate property shall be supported for the Weight Scale Feature characteristic if the device supports bonding and the value of the Weight Scale Feature characteristic can change over the lifetime of the device, otherwise excluded for this service.

Commented [SIG3]: E16254

Notes:

- Properties not listed as Mandatory or Optional are excluded for this version of this service.
- Security Permissions of “None” means that this service does not impose any requirements.

3.1 Weight Scale Feature

The Weight Scale Feature characteristic shall be used to describe the supported features of the Server.

Reserved for Future Use (RFU) bits in the Weight Scale Feature characteristic value shall be set to 0.

3.1.1 Characteristic Behavior

When read or indicated, the Weight Scale Feature characteristic returns a value that is used by a Client to determine the supported features of the Server.

The bits of the Weight Scale Feature characteristic may either be static for the lifetime of the device (~~i.e., static permanently or until Service-Changed is indicated~~) or guaranteed to be static only during a connection. This requirement is defined in the table below on a bit-by-bit basis. Although all defined bits in this version of this specification are required to be static during the lifetime of a device, it is possible that some future bits will be defined as being static only during a connection.

Bit	Weight Scale Feature Bit	Static Requirement
0 to 9	Various	Lifetime
10-31	Reserved for Future Use	Not defined.

Table 3.2: Static Requirements for Weight Scale Feature Bits

When the Client Characteristic Configuration descriptor is configured for indications and the supported features of the Server have changed, the Weight Scale Feature characteristic shall be indicated to any bonded Collectors after reconnection.



When the Server supports a feature, the associated bit of the Weight Scale Feature characteristic shall be set to 1 (Feature supported), otherwise, the associated bit shall be set to 0 (Feature not supported). The feature bits are defined in [23].

Field Code Changed

If the Height field of the Weight Measurement characteristic is not supported, then the corresponding resolution bits shall be set to 0.

3.2 Weight Measurement

The Weight Measurement characteristic is used to send weight-related data to the Client. Included in the characteristic value are a Flags field (for showing the presence of optional fields and measurement units), a Weight field, and depending upon the contents of the Flags field, may include one or more optional fields defined in [3].

3.2.1 Characteristic Behavior

When the Weight Measurement characteristic is configured for indications via the *Client Characteristic Configuration* descriptor the following applies:

If a connection to a Client is not established and a new value for the Weight Measurement characteristic becomes available for this Client, the Server shall become connectable to allow the Client to create a link. Once connected, the Server shall indicate this characteristic and other unsent stored characteristic values to the Client.

If a connection to a Client is established and a new value for the Weight Measurement characteristic becomes available for this Client, the Server shall indicate this characteristic to the Client.

Once transfer of a measurement is successful, the measurement shall not be retransmitted. As such, the design of this Service is only suited to sending indications to a single Client for a given user.

The Weight Measurement characteristic contains time-sensitive data, thus the requirements for time-sensitive data and data storage defined in Section 3.3 apply.

3.2.1.1 Flags Field

The Flags field shall be included in the Weight Measurement characteristic.

Reserved for Future Use (RFU) bits in the Flags fields shall be set to 0.

The bits of the Flags field, their function, and relationship to bits in the Weight Scale Feature characteristic are shown in Table 3.3.

Flags Bit Name	When Set to 0	When Set to 1	Corresponding Weight Scale Feature Support bit (see Section 3.1)
Measurement Units (bit 0), see Sections 3.2.1.2 and 3.2.1.5	SI (Weight and Mass in units of kilogram (kg) and Height in units of meter)	Imperial (Weight and Mass in units of pound (lb) and Height in units of inch (in))	Weight Measurement Resolution bits (bits 3-6) and Height Measurement Resolution bits (bits 7-9)
Time Stamp Present (bit 1), see Section 3.2.1.3	Corresponding field not present	Corresponding field present	Time Stamp Supported (bit 0)



Flags Bit Name	When Set to 0	When Set to 1	Corresponding Weight Scale Feature Support bit (see Section 3.1)
User ID Present (bit 2), see Section 3.2.1.4	Corresponding field not present	Corresponding field present	Multiple Users Supported (bit 1)
BMI and Height Present (bit 3), see Section 3.2.1.5	Corresponding field pair not present	Corresponding field pair present	BMI Supported (bit 2)

Table 3.3: Bit Definitions for the Weight Measurement Characteristic

The BMI and Height Present bit in the table above may change during a connection if the corresponding support bit in the Weight Scale Feature characteristic is set to 1, indicating that the feature is supported. However, if the corresponding Weight Scale Feature support bit is set to 0, then the corresponding Flags bit shall also be set to 0 since the feature is not supported.

The Weight Measurement Resolution bits and Height Measurement Resolution bits are only for the purpose of allowing the Client to determine the resolution of the Weight and Height measurements respectively. The use of these bits may be required by some Clients that need to know the approximate precision of the data. Note that the value of these bits has no impact on the value of 1 bit of the Weight and Height fields.

3.2.1.2 Weight Field

The Weight field shall be included in the Weight Measurement characteristic.

See Table 3.3 for details on the relation between the unit of weight, and bit 0 of the Flags field.

The special value of 0xFFFF can be used to indicate 'Measurement Unsuccessful' to the Client. If this is used, all optional fields other than the Time Stamp field and the User ID field shall be disabled.

3.2.1.3 Time Stamp Field

The Time Stamp field is optional, but shall be included in the Weight Measurement characteristic if the Server supports the Time Stamp feature (see Table 3.3). The Time Stamp feature shall be supported if the device supports the storing of data.

The Time Stamp field is defined to use the same format as the Date Time characteristic defined in [3]. However, a value of 0 for the year, month or day fields (meaning unknown) shall not be used for this service. It is left to the implementation to ensure the user sets the correct date and time before the Server is used.

The value of the Time Stamp field is derived from a source of date and time within the device at the time of measurement. If the Time Stamp feature is supported, a source of date and time is mandatory. The date and time of the device may be updated by various means such as via a simple user interface on the device, via the Current Time Service [3] or other method. Regardless of the method of updating the date and time, a method should be provided to allow the Client to verify the accuracy of the time base in the Server. This is a requirement for implementations needing to be compliant with guidelines set forth by the Continua Health Alliance (and hence those needing data to be transcoded to a format compliant with IEEE 11073-10415 [4]).



3.2.1.4 User ID Field

The User ID field shall be included in the Weight Measurement characteristic if the device supports the Multiple Users feature (see Table 3.3). This field shall not be included if the Multiple Users feature is not supported.

The values used for User ID shall be unique per Server, but are otherwise left to the implementation. For example, if the Server supports two User IDs to distinguish between two users, the Server may use User ID 1 and 2 or User ID 35 and 97 or other unique combinations.

A special User ID value of 0xFF represents "unknown user". This can be used for cases where a Weight Scale can be used for Guests.

3.2.1.5 BMI and Height Field Pair

The BMI and Height field pair may be included in the Weight Measurement characteristic if the device supports the BMI feature (see Table 3.3). When present, these fields shall always be present as a pair.

See Table 3.3 for details on the relation between the units of weight and height, and bit 0 of the Flags field.

BMI or Body Mass Index is calculated as Weight in kilograms divided by the square of Height in meters. When only imperial values of weight and height are available, BMI can be calculated by dividing the Weight in pounds by the square of the Height in inches and multiplying this by a factor of approximately 703.07. For Servers that support BMI, this calculation requires the Server to know the height of the user. This information may be entered locally at the Server user interface or by other means and is beyond the scope of this service.

Commented [SIG4]: E19079

3.3 Requirements for Time-Sensitive Data

The Weight Measurement characteristic contains time-sensitive data (i.e., the Weight value) and is considered a time-sensitive characteristic, thus the following requirements apply:

If the Time Stamp feature *is not* supported:

- The value of a time-sensitive characteristic shall be discarded either if the connection does not get established or if the indication is not successfully acknowledged by the Client in a timely manner as decided by the implementation (e.g., if the Server cannot send the data within 5 minutes of taking the measurement).

If the Time Stamp feature *is* supported:

- It is recommended that the value of a time-sensitive characteristic be stored if either the connection does not get established or if the indication is not successfully acknowledged by the Client during the connection.
- For basic scenarios, the Server should be able to store at least 25 data measurements (i.e., Weight values). Multi-user devices should be able to store that number of measurements per supported user.
- If the maximum storage capacity in the Server is reached, the Server should overwrite the oldest measurement data first when acquiring new measurement data and should inform the user (e.g., via



the UI of the device). For multi-user devices, the Server should purge the oldest data for a given user to make room for the most recent data for that user.

- When transmitting stored data, the oldest data shall be sent first followed by the next oldest data (in FIFO order) until all stored data (as controlled by the Client) has been transferred.



4 SDP Interoperability

If this service is exposed over BR/EDR then it shall have the following SDP record.

Item	Definition	Type	Value	Status
Service Class ID List				M
Service Class #0		UUID	«Weight Scale»	M
Protocol Descriptor List				M
Protocol #0		UUID	L2CAP	M
Parameter #0 for Protocol #0	PSM	Uint16	PSM = ATT	M
Protocol #1		UUID	ATT	M
Parameter #0 for Protocol #1	GATT Start Handle	Uint16	First handle of this service in the GATT database	M
Parameter #1 for Protocol #1	GATT End Handle	Uint16	Last handle of this service in the GATT database	M
BrowseGroupList			PublicBrowseRoot*	M

Table 4.1: SDP Record

* PublicBrowseRoot shall be present; however, other browse UUIDs may also be included in the list.



5 Acronyms and Abbreviations

Acronyms and Abbreviations	Meaning
AMP	Alternate MAC/PHY
BR/EDR	Basic Rate / Enhanced Data Rate
GAP	Generic Access Profile
GATT	Generic Attribute Profile
LE	Low Energy
RFU	Reserved for Future Use
SDP	Service Discovery Protocol
WS	Weight Scale
UUID	Universally Unique Identifier

Table 5.1: Acronyms and Abbreviations



6 References

- [1] Bluetooth Core Specification v4.0~~2~~ or later ~~version of the Core Specification.~~
- [2] ~~Characteristic and Descriptor descriptions are accessible via the:~~
- [3][2] Bluetooth Assigned Numbers. <https://www.bluetooth.com/specifications/assigned-numbers/>
- [4][3] Current Time Service Specification v1.1 or later
- [5][4] IEEE 11073-10415 - 2008 (Health informatics—Personal health device communication - Part 10415: Device specialization— Weighing Scale)

Commented [SIG5]: E19079

