Health

Health Sensor Service - Command Set

Version 0.61

Revision History

Version	Date	Description
0.1	10/15/2013	First Draft
0.2	11/02/2013	Unsupported command deleted
0.3	11/20/2013	Command changed as API
0.4	12/06/2013	Command set response bundle updated
0.5	12/30/2013	Document format changed
0.6	01/02/2014	Mandatory filed designation in Set time
0.61	01/08/2014	Terms changed from SDK to Package

Table of Contents

1. Introduction

You can use the Health package and the methods it provides to control the basic behavior of sensor devices. The Health package also provides the `request()` method to send commands to devices. The `request()` method allows you to control special functions that some sensor devices offer in addition to basic behavior. You can call the `request()` method by passing the required command. This document describes the command set and explains how to use it.

Any communication through the sensor framework uses a command and response. This design provides a uniform interface for applications to interact with many sensor devices. For example, if your application wants to get the time from a device, you can send the “get time” command. The framework gets the time for the devices and sends the response through the callback with the device time information.

You can pass extra parameters with the command. The extra parameters are passed with a Bundle object as key, value parameters. The response from the framework also has a command and the data comes as a Bundle.

2. Commands and Responses

The command and response IDs and parameters are listed in the following sections.

2.1. Johnson & Johnson Ultra Mini USB Blood Glucose Meter

2.1.1. CMD_SET_TIME

Set the device time.

Command parameters (Bundle)

Parameter	Value	Data type	Mandatory	Default value
PARAM_TIME	Time in milliseconds	long	YES	None

Response ID

RES_SET_TIME

Response parameters (Bundle)

None

2.1.2. CMD_GET_TIME

Get the device time.

Command parameters (Bundle)

None

Response ID

RES_GET_TIME

Response parameters (Bundle)

Parameter	Value	Data type
PARAM_TIME	Device time in milliseconds	long

2.1.3. CMD_CLEAR_DATA

Clear the data.

Command parameters (Bundle)

None

Response ID

RES_CLEAR_DATA

Response parameters (Bundle)

None

2.2. Infopia Healthpro USB Blood Glucose Meter

2.2.1. CMD_SET_TIME

Set the device time.

Command parameters (Bundle)

Parameter	Value	Data type	Mandatory	Default value
PARAM_TIME	Time in milliseconds	long	YES	None

Response ID

RES_SET_TIME

Response parameters (Bundle)

None

2.2.2. CMD_GET_TIME

Get the device time.

Command parameters (Bundle)

None

Response ID

RES_GET_TIME

Response parameters (Bundle)

Parameter	Value	Data type
PARAM_TIME	Device time in milliseconds	long

2.2.3. CMD_CLEAR_DATA

Clear the data.

Command parameters (Bundle)

None

Response ID

RES_CLEAR_DATA

Response parameters (Bundle)

None

2.3. i-Sens Bluetooth Blood Glucose Meter

2.3.1. CMD_SET_TIME

Set the device time.

Command parameters (Bundle)

Parameter	Value	Data type	Mandatory	Default value
PARAM_TIME	Time in milliseconds	long	YES	None

Response ID

RES_SET_TIME

Response parameters (Bundle)

None

2.3.2. CMD_GET_TIME

Get the device time.

Command parameters (Bundle)

None

Response ID

RES_GET_TIME

Response parameters (Bundle)

Parameter	Value	Data type
PARAM_TIME	Device time in milliseconds	long

2.3.3. CMD_CLEAR_DATA

Clear the data.

Command parameters (Bundle)

None

Response ID

RES_CLEAR_DATA

Response parameters (Bundle)

None

2.3.4. CMD_POWER_OFF

Power off the device.

Command parameters (Bundle)

None

Response ID

RES_POWER_OFF

Response parameters (Bundle)

None

2.4. ANT Weight Scale

2.4.1. CMD_REQUEST_BASIC

Request the basic weight measurement from the scale.

Command parameters (Bundle)

None

Response ID

RES_REQUEST_BASIC

Response parameters (Bundle)

None

2.4.2. CMD_REQUEST_ADV

Request the advanced weight measurements for the given user from the scale. The advanced measurements are only calculated when a valid user profile is available to the weight scale. This means that the scale must support device profiles, and a user profile must either be provided in this function or be already 'selected' in the scale.

Command parameters (Bundle)

None

Response ID

RES_REQUEST_ADV

Response parameters (Bundle)

None

2.4.3. CMD_REQUEST_CAP

Request the capabilities of the weight scale and the identifier of the currently 'selected' user profile, if any, from the scale.

Command parameters (Bundle)

None

Response ID

RES_REQUEST_CAP

Response parameters (Bundle)

None

2.4.4. CMD_REQUEST_HISTORY

Request a download of all the history data from the scale.

Command parameters (Bundle)

None

Response ID

RES_REQUEST_HISTORY

Response parameters (Bundle)

None

2.5. ANT Bicycle Power

2.5.1. CMD_REQ_CRANK

Get the crank parameters from the power meter.

Command parameters (Bundle)

None

Response ID

RES_REQ_CRANK

Response parameters (Bundle)

None

2.5.2. CMD_REQ_MANUAL

Perform a manual calibration of the power meter. CTF meters typically require a daily calibration.

Command parameters (Bundle)

None

Response ID

RES_REQ_MANUAL

Response parameters (Bundle)

None

2.5.3. CMD_REQ_CUSTOM

Get the custom calibration parameters from the power meter.

Command parameters (Bundle)

None

Response ID

RES_REQ_CUSTOM

Response parameters (Bundle)

None

2.5.4. CMD_SET_CUSTOM

Set the custom calibration parameters in the power meter.

Command parameters (Bundle)

Parameter	Value	Data type	Mandatory	Default value
PARAM_CUSTOM_CAL	Six manufacturer-specific bytes to be sent to the power meter	byte	YES	None

Response ID

RES_SET_CUSTOM

Response parameters (Bundle)

None

2.5.5. CMD_SET_CRANK

Set the crank parameters in the power meter.

Command parameters (Bundle)

Parameter	Value	Data type	Mandatory	Default value
PARAM_CRANK_AUTO	Set the power meter to automatically determine the crank length, or set the power meter crank length manually.	int	YES	None
PARAM_CRANK_LEN	Valid crank length to set to the power meter. If you want the power meter to determine the value automatically, set the value to NULL.	String	YES	None

Response ID

RES_SET_CRANK

Response parameters (Bundle)

None

2.5.6. CMD_SET_AUTO

Configure the auto-zero calibration in the power meter.

Command parameters (Bundle)

Parameter	Value	Data type	Mandatory	Default value
PARAM_AUTO_ZERO	Enable or disable the auto-zero calibration on the power meter.	Boolean	YES	None

Response ID

RES_SET_AUTO

Response parameters (Bundle)

None

2.5.7. CMD_SET_CTF

Configure the slope in the CTF power meter.

Command parameters (Bundle)

Parameter	Value	Data type	Mandatory	Default value
PARAM_CTF_SLOPE	Slope value to configure to the CTF power meter.	int	YES	None

Response ID

RES_SET_CTF

Response parameters (Bundle)

None

2.6. GPS

2.6.1. CMD_REQ_GPS_ENABLE

Enable or disable GPS.

Command parameters (Bundle)

None

Response ID

RES_REQ_GPS_ENABLE

Response parameters (Bundle)

None

2.6.2. CMD_REQ_LASTLOCATION

Get the last known location data.

Command parameters (Bundle)

None

Response ID

RES_REQ_LASTLOCTION

Response parameters (Bundle)

None

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