Name: SPIN Service

Assigned Number: 0x5E5A10D3-6EC7-17AF-D743-3CF1679C1CC7

Abstract:

The SPIN service.

Summary:

This service provides access to SPIN remote SDC-1.

Service Dependencies

This service is not dependent upon any other services.

Error Codes

This service does not define any application error codes that are used in Attribute Protocol.

Service Characteristics

Overview	Properties		Security	Descriptors
Name: Command **Description:** This characteristic represents the command. **Type:** command **Requirement:** Mandatory	<table><tr><td>**Property**</td><td>**Requirement**</td></tr><tr><td>Read</td><td>Excluded</td></tr><tr><td>Write</td><td>Mandatory</td></tr><tr><td>WriteWithoutResponse</td><td>Excluded</td></tr><tr><td>Notify</td><td>Excluded</td></tr><tr><td>Indicate</td><td>Excluded</td></tr></table>		None	None
Name: Action **Description:** This characteristic represents the action. **Type:** action **Requirement:** Mandatory	<table><tr><td>**Property**</td><td>**Requirement**</td></tr><tr><td>Read</td><td>Excluded</td></tr><tr><td>Write</td><td>Excluded</td></tr><tr><td>WriteWithoutResponse</td><td>Excluded</td></tr><tr><td>Notify</td><td>Mandatory</td></tr><tr><td>Indicate</td><td>Excluded</td></tr></table>		None	None

Name: Command Characteristic

Assigned Number: 0x92E92B18-FA20-D486-5E43-099387C61A71

Abstract:

The command.

Value Fields

Names	Field Requirement	Format	Minimum Value	Maximum Value	Additional Information
Command Id	Mandatory	uint8	7	9	Enumerations
					Key / Value
					0 - 6 / Reserved
					7 / Cancel LED override
					8 / Force Action Notification
					9 / Set LED color
					10 - 255 / Reserved
Command Data	Optional	uint8[19]	N/A	N/A	Optional command data

Value Fields: Cancel LED override

Names	Field Requirement	Format	Minimum Value	Maximum Value	Additional Information
Command Id	Mandatory	uint8	N/A	N/A	7

Value Fields: Force Action Notification

Names	Field Requirement	Format	Minimum Value	Maximum Value	Additional Information
Command Id	Mandatory	uint8	N/A	N/A	8
Force	Mandatory	uint8	0	1	Enumerations
					Key / Value
					0 / False
					1 / True
					2 - 255 / Reserved

Value Fields: Set LED color

Names	Field Requirement	Format	Minimum Value	Maximum Value	Additional Information

Command Id	Mandatory	uint8	N/A	N/A	9
Color Red	Mandatory	uint8	0	255	Red color component
Color Green	Mandatory	uint8	0	255	Green color component
Color Blue	Mandatory	uint8	0	255	Blue color component

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Name: Action Characteristic

Assigned Number: 0x182BEC1F-51A4-458E-4B48-C431EA701A3B

Abstract:

The action.

Value Fields

Names	Field Requirement	Format	Minimum Value	Maximum Value	Additional Information
Action	Mandatory	uint8	0	19	Enumerations **Key** / **Value** 0 — Rotate right side up, clockwise 1 — Rotate right side up, counterclockwise 2 — Rotate sideways, clockwise 3 — Rotate sideways, counterclockwise 4 — Rotate upside down, clockwise 5 — Rotate upside down, counterclockwise 6 — Touchpad, swipe up (South - North) 7 — Touchpad, swipe down (North - South) 8 — Touchpad, swipe left (East - West) 9 — Touchpad, swipe right (West - East) 10 — Touchpad, press North 11 — Touchpad, press South 12 — Touchpad, press East 13 — Touchpad, press West 14 — Touchpad, press center 15 — Touchpad, long press North 16 — Touchpad, long press South 17 — Touchpad, long press East 18 — Touchpad, long press West 19 — Touchpad, long press center 20 - 255 — Reserved

FAQ

An answer to frequently asked questions.

How can I receive the Action Notification?

1. Enable Notifications on the Action Characteristic
2. Write 0x0801 to the Command Characteristic
    a. This will set "Force Action notification" to True
    b. Command Id = 0x08 (8)
    c. Command Data = 0x01 (1)

How can I set the LED color to red?

1. Write 0x09FF0000 to the Command Characteristic
    a. This will set "Set LED color" to 0xFF0000
    b. Command Id = 0x09 (9)
    c. Command Data = 0xFF0000 (red)

Document History

Date	Version	Description
27-01-2017	1.0	Initial version.