

## 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												
<b>Name:</b> Command <b>Description:</b> This characteristic represents the command. <b>Type:</b> command <b>Requirement:</b> Mandatory	<table><tr><th>Property</th><th>Requirement</th></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>	Property	Requirement	Read	Excluded	Write	Mandatory	WriteWithoutResponse	Excluded	Notify	Excluded	Indicate	Excluded	None	None
Property	Requirement														
Read	Excluded														
Write	Mandatory														
WriteWithoutResponse	Excluded														
Notify	Excluded														
Indicate	Excluded														
<b>Name:</b> Action <b>Description:</b> This characteristic represents the action. <b>Type:</b> action <b>Requirement:</b> Mandatory	<table><tr><th>Property</th><th>Requirement</th></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>	Property	Requirement	Read	Excluded	Write	Excluded	WriteWithoutResponse	Excluded	Notify	Mandatory	Indicate	Excluded	None	None
Property	Requirement														
Read	Excluded														
Write	Excluded														
WriteWithoutResponse	Excluded														
Notify	Mandatory														
Indicate	Excluded														

**Name: Command Characteristic**

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

**Abstract:**

The command.

**Type:**

Write

**Value Fields**

Names	Field Requirement	Format	Minimum Value	Maximum Value	Additional Information	
Command Id	Mandatory	uint8	0	9	Enumerations	
					Key	Value
					0	Record Infrared Command
					1	Play Infrared Command
					2	Abort Infrared Command
					3	Format Storage Manager
					4	Disable Sleep Manager
					5	Enter Bootloader
					6	Switch Profile
					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

**Name: Action Characteristic**

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

**Abstract:**

The action.

**Type:**

Notify

**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	Touchpad, scroll clockwise
					21	Touchpad, scroll counterclockwise
					24	Spin, wake up

					<table><tr><td>25</td><td rowspan="3">Reserved</td></tr><tr><td>-</td></tr><tr><td>255</td></tr></table>	25	Reserved	-	255
25	Reserved								
-									
255									

**Name: Record Result Characteristic**

Assigned Number: 0x227A7AA2-7393-6180-DC45-1D0970B5C68E

**Abstract:**

The result of recording.

**Type:**

Notify

**Name: Orientation Quaternion Characteristic**

Assigned Number: 0x64DB9A27-FCD4-CFBC-5B48-DF01CF240F18

**Abstract:**

The orientation.

**Type:**

Notify

## Name: Profile Id Characteristic

Assigned Number: 0x703FE135-0056-7398-1C4F-42E1636C2FD8

### Abstract:

The profile id.

### Type:

Notify / read / write

### Value Fields:

Names	Field Requirement	Format	Minimum Value	Maximum Value	Additional Information
Profile Id	Mandatory	uint8	0	7	N/A



**Name: Database Command Characteristic**

Assigned Number: 0xE4ED5371-870B-6C88-1347-2C8B789A64AC

**Abstract:**

The database command.

**Type:**

Write

**Name: Database Data Characteristic**

Assigned Number: 0x2CDBCC81-B066-7886-4644-D3E2B235193E

**Abstract:**

The database data.

**Type:**

Notify / write / no response

**Name: Database Result Characteristic**

Assigned Number: 0xC221D500-D006-7DA3-634B-95CCD8172F2B

**Abstract:**

The database result.

**Type:**

Notify

## 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.
21-02-2017	1.0.1	Added some more attributes
22-02-2017	1.0.2	Added some more characteristics