

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><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														
Name: Action Description: This characteristic represents the action. Type: action Requirement: 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.

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

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																																												
					<table><tr><th>Key</th><th>Value</th></tr><tr><td>0</td><td>Rotate right side up, clockwise</td></tr><tr><td>1</td><td>Rotate right side up, counterclockwise</td></tr><tr><td>2</td><td>Rotate sideways, clockwise</td></tr><tr><td>3</td><td>Rotate sideways, counterclockwise</td></tr><tr><td>4</td><td>Rotate upside down, clockwise</td></tr><tr><td>5</td><td>Rotate upside down, counterclockwise</td></tr><tr><td>6</td><td>Touchpad, swipe up (South - North)</td></tr><tr><td>7</td><td>Touchpad, swipe down (North - South)</td></tr><tr><td>8</td><td>Touchpad, swipe left (East - West)</td></tr><tr><td>9</td><td>Touchpad, swipe right (West - East)</td></tr><tr><td>10</td><td>Touchpad, press North</td></tr><tr><td>11</td><td>Touchpad, press South</td></tr><tr><td>12</td><td>Touchpad, press East</td></tr><tr><td>13</td><td>Touchpad, press West</td></tr><tr><td>14</td><td>Touchpad, press center</td></tr><tr><td>15</td><td>Touchpad, long press North</td></tr><tr><td>16</td><td>Touchpad, long press South</td></tr><tr><td>17</td><td>Touchpad, long press East</td></tr><tr><td>18</td><td>Touchpad, long press West</td></tr><tr><td>19</td><td>Touchpad, long press center</td></tr><tr><td>20 - 255</td><td>Reserved</td></tr></table>	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
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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.