



BTLE

Interface Manual

June 23, 2017

PREFACE

VERSION CONTROL

Version	Date	Author	Description
1.0.1	7-July-2017	Arpi Derm	Core Bluetooth Framework to communication with Bluetooth devices.

CONFIGURATION PARAMS

Parameter Name	Default Value
DEBUG_MODE	True

FUNCTIONS

Initialization:

Function Name	InitializeCoreBTLib
----------------------	---------------------

Input/s	Characteristic: Peripheral Device Characteristic UUID where data transmission will happen	Type	String
Outputs/s	NA	Type	NA

Description	Initialized the BTBLE framework and starts discovery process of Bluetooth devices
--------------------	---

Get Connection State:

Function Name	GetCoreBTState
----------------------	----------------

Input/s	NA	Type	NA
Outputs/s	Current Core Bluetooth State	Type	CORE_BT_STATE

Description	Get current state of Core Bluetooth. This returns a structure with connection status of Peripheral devices, current state of central device Bluetooth and RSSI signal information
--------------------	---

Get Discovered Device Names:

Function Name	GetDeviceNames
----------------------	----------------

Input/s	NA	Type	NA
Outputs/s	Array of device names	Type	[String]

Description	It returns the device names for each Bluetooth device discovered by central device
--------------------	--

Connect to Peripheral Device:

Function Name	ConnectToDevice
----------------------	-----------------

Input/s	Device Name	Type	String
Outputs/s	NA	Type	NA

Description	Establishes connection between central and peripheral device
--------------------	--

Transmit Data:

Function Name	ConnectToDevice
----------------------	-----------------

Input/s	Device Name	Type	String
Outputs/s	NA	Type	NA

Description	Establishes connection between central and peripheral device
--------------------	--

Transmit Data:

Function Name	CloseBTConnection
----------------------	-------------------

Input/s	Device Name	Type	String
Outputs/s	NA	Type	NA

Description	Disconnects from currently connected Peripheral Device.
--------------------	---