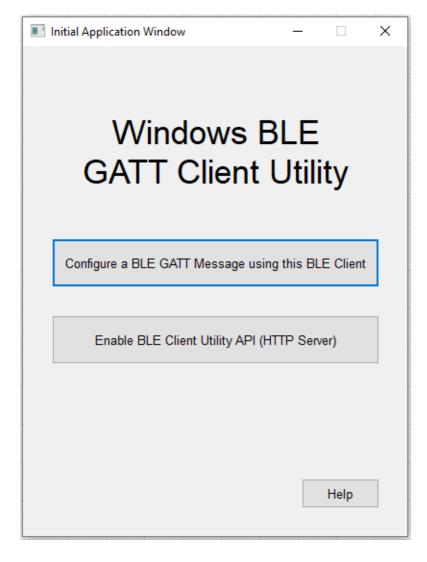
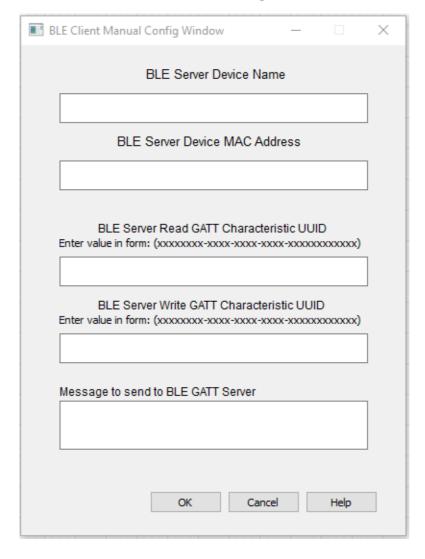
Initial App Screen



Screen for Manually Configuring a BLE Message



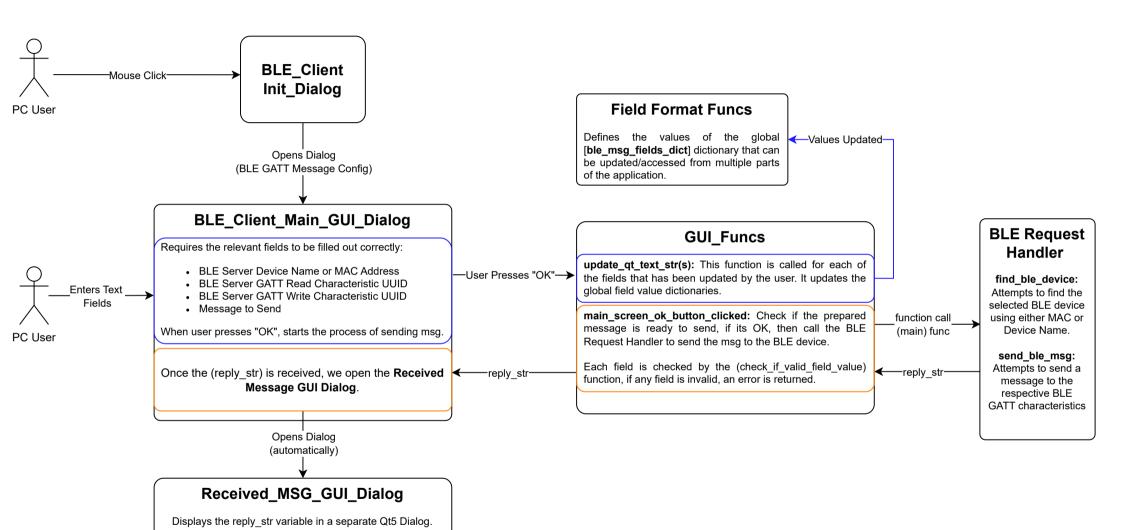
Note: This app assumes that the BLE-capable server has a BLE GATT Characteristic which is dedicated to sending replies back (like an ACK signal or a reply string). That is the role of the BLE Server Write Characteristic UUID (because it will write a reply back to us).

Screen when the User Chooses to Use this app in API Mode

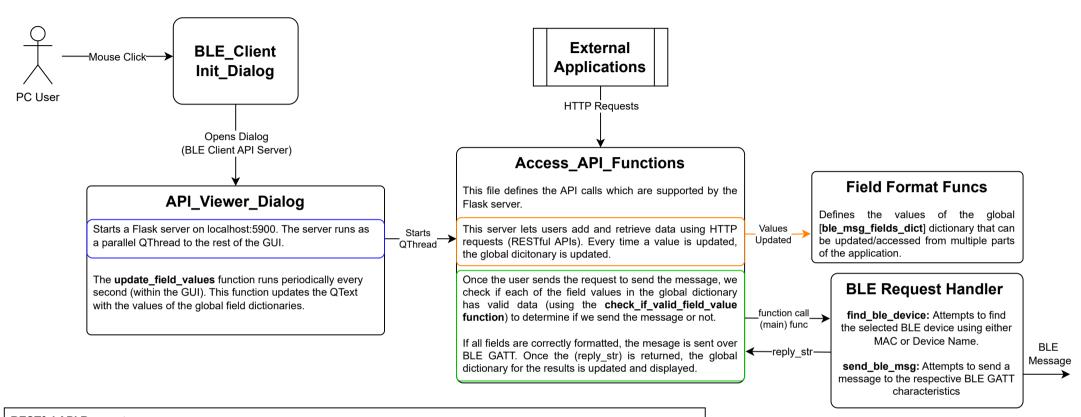
BLE Clier	nt API (Mos	t Recent Va	lues)	_		×
Updated	I values are	shown he	ere based	on API fun	ction cal	ls
BLE De	vice Name	(Most Re	cent)			
		(,			
Accesse	ed by: PUT h	ttp://127.0.0	.1:5900/de	vice/name/<	name>	
BLE De	vice Addre	ss (Most l	Recent)			
Accesse	ed by: PUT h	ttp://127.0.0	.1:5900/de	vice/addres	s/ <addre< td=""><td>ss></td></addre<>	ss>
BLE GA	ATT Write U	JUID (Mos	t Recent)		
Accesse	ed by: PUT h	ttp://127.0.0	.1:5900/ga	tt/write/ <uui< td=""><td>id></td><td></td></uui<>	id>	
BLE GA	ATT Read U	JUID (Mos	t Recent)		
Accesse	ed by: PUT h	ttp://127.0.0	.1:5900/ga	tt/read/ <uuik< td=""><td>d></td><td></td></uuik<>	d>	
Messag	e to Send	(Most Red	cent)			
						^
Accesse	ed by: PUT h	ttp://127.0.0	.1:5900/ms	sg/ <messag< td=""><td>e></td><td><u> </u></td></messag<>	e>	<u> </u>
Reply fr	om BLE G	ATT Serve	r (Most F	Recent)		
						^
Access	ad bur OFT h	#n://127.0.0	1-5000/	oult ota		~
Accesse	ed by: GET h	iiip://127.0.0	. 1.5900/re	suit_str		

Note: This app assumes that the BLE-capable server has a BLE GATT Characteristic which is dedicated to sending replies back (like an ACK signal or a reply string). That is the role of the BLE Server Write Characteristic UUID (because it will write a reply back to us).

Manually Configuring a BLE GATT message



Starting RESTful server to configure BLE GATT message through API calls



RESTful API Requests

The following HTTP requests show examples on how to configure the necessary parameters to communicate with a BLE Server using BLE GATT.

Setting up the GATT Read/Write Characteristic UUIDs to use for this message:

- http://127.0.0.1:5900/gatt/write/0000XXXX-0000-1000-8000-00805f9b34fb
- http://127.0.0.1:5900/gatt/read/0000XXXX-0000-1000-8000-00805f9b34fb

Setting up the BLE Device by using the Device Name or MAC Address:

- http://127.0.0.1:5900/device/address/aa:bb:cc:dd:ee:ff

To configure the actual message (string) to send to the BLE Server, use the following request:

Once the user has defined all the necessary fields to send a message over BLE, we can send the message using the following request:

http://127.0.0.1:5900/send msg

String Encoding:

This application checks the formatting of each of the following fields (and returns an error message instead of updating the values if certain conditions aren't met):

- · GATT Read and Write Characteristic UUIDs
- · Device Name
- MAC Address

When updating the actual message field, ensure that you take into consideration factors like URL encoded versions of strings, as this app will not automatically convert strings into URL-compatible strings.