

Bluegiga Forums / Community Forums / Bluetooth Smart

Know properties of a slave characteristic

Answered



Javier Siscart

asked this on March 25, 2014, 18:40

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Hi all,

Is there any way to know (from the master) if a slave characteristic is readable, writable, notifiable or indicable? I mean, if it has enabled notify, indicate, etc properties on the gatt.xml file.

More in detail, I connect to a slave and perform a service, characteristic and descriptor discover. Then I see my characteristic and its "client characteristic configuration", where I can write 1 to notify or 2 to indicate this characteristic. But how to know I can subscribe to that characteristic, without knowing the profile inside the slave?

thanks in advance

0 people would like this to be answered.

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Comments



Javier Siscart

Any news on this?

maybe with the find information command?

April 1, 2014, 12:07



Philipp Richter

Maybe you could try to read the Characteristics Properties bit field as specified in the Bluetooth Specification 4.0 [Vol 3] page 537/538 ?

April 1, 2014, 14:30



Javier Siscart

Thanks Phillipp,

That is just what I want, but with the BGAPI protocol I think this is not possible.

When you read an attribute with `ble_cmd_attclient_read_by_handle`, the information you receive is:

- connection
- handle
- **type** = what is this? it is always 0, no matter characteristic properties.
- value

and if you try to read the client characteristic configuration attribute of that characteristic, it says type 0 too, and value 0 by default, no matter characteristic properties too.

So maybe the BGAPI does not give this information?

April 1, 2014, 14:59



Hi Javier,

I just tried to read the Characteristic Properties with BLEGUI. There it is included in the first octet of the 'GATT Characteristic Declaration' of your

Support Philipp Richter

characteristic.

GATT Characteristic Declaration consists of:

- Char. Properties (1 octet)
- Char. Attribute Handle (2 octets)
- Char. UUID (2 to 16 octets)

The Char. Declarations handle is (attribute handle - 1)

April 1, 2014, 15:29



Philipp Richter

Have also a look at the 'read by type' BLEAPI command.

April 1, 2014, 15:39

Answer

Javier Siscart

Completely true. I was blind.

I tried read by type also to read uuid 2803 attributes and found all the properties i want. Even I saw attribute type is 3. thanks!

One curious thing is that If I use read type to read local database, and try to read GATT characteristic declaration, only UUID is reported. seems obvious because you already know your own characteristics...

thanks for your quick answers

April 1, 2014, 16:03

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