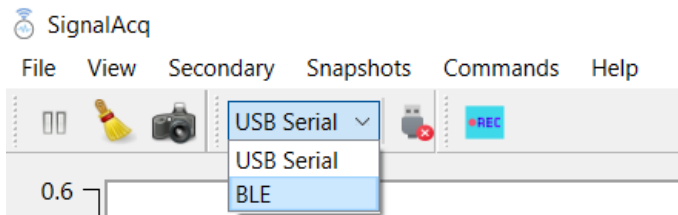


SignalAcq BLE manual

Note: All the app settings are stored automatically on app close. After app opens it loads all the previous settings.

Getting started with BLE

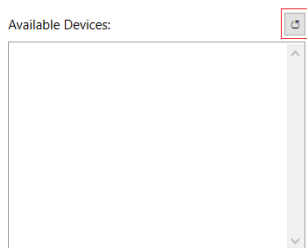
- Select BLE from the drop-down box.



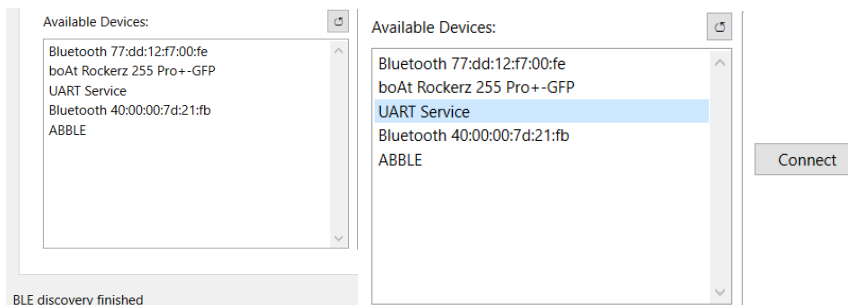
- The BLE tab will open below, which consists of the BLE scanner on the left and discovered characteristics on the right.



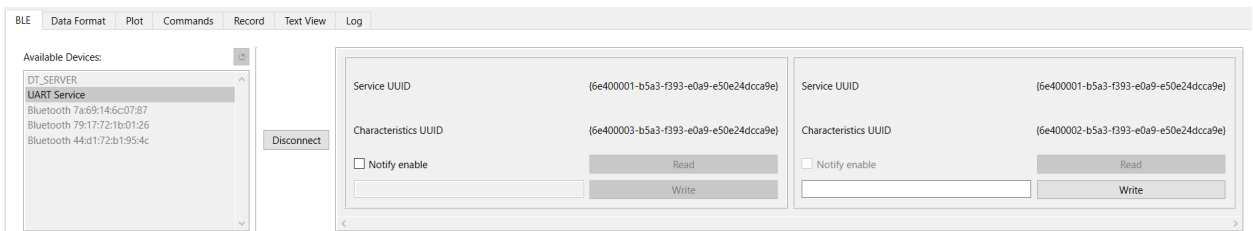
- Click on the scan button (red marked) to scan for BLE devices.



- The scanned devices will appear. Select your device and click on the connect button.



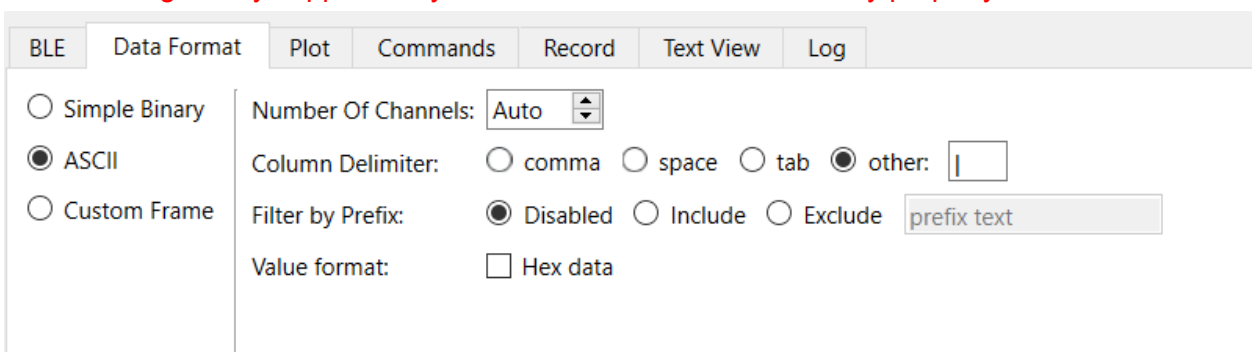
- Discovered characteristics will appear.



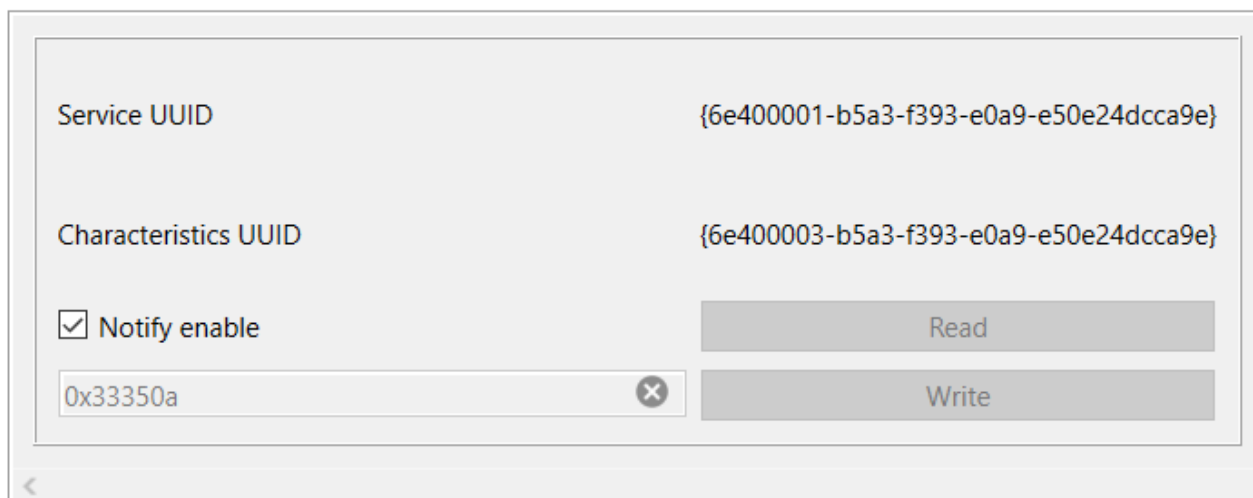
Data acquisition and plotting

- After connecting to the BLE device, open the **Data Format** tab, select between **Simple Binary**, **ASCII** and **Custom Frame** mode and configure the required parameters.

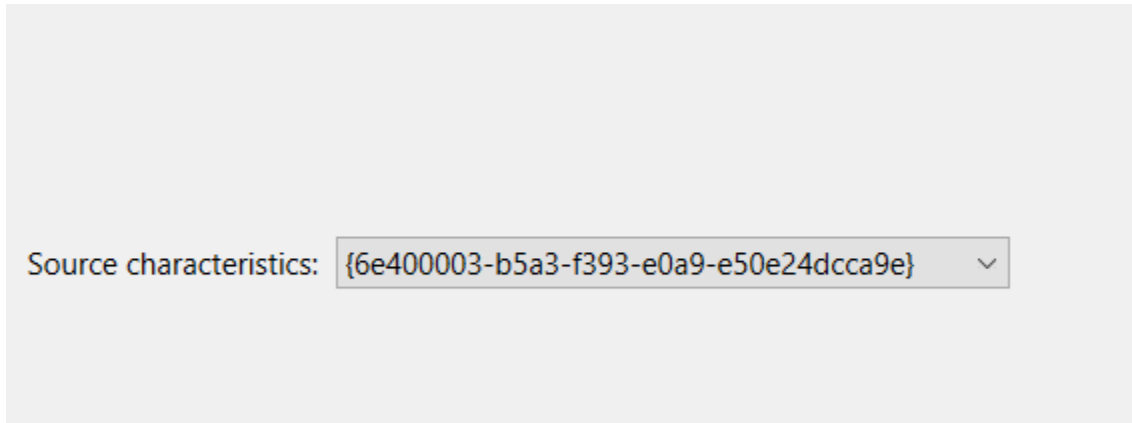
Note: Plotting is only supported by characteristics which has a notify property.



- Enable the notification by clicking the **Notify enable** checkbox for the characteristics which is going to notify the data.



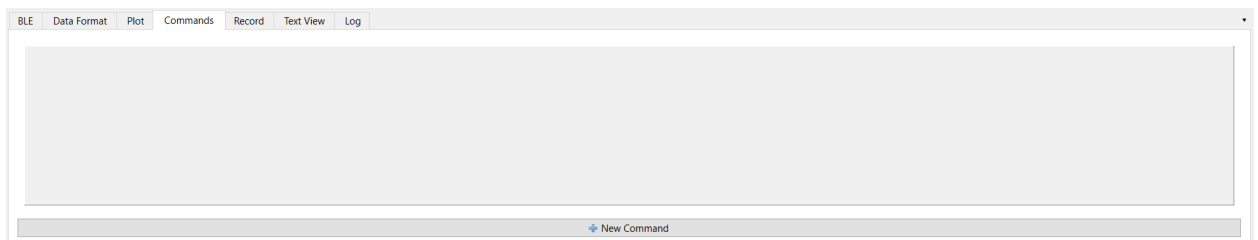
- Go to the **Data Format** Tab and select **Source characteristics** for plotting.



Adding commands

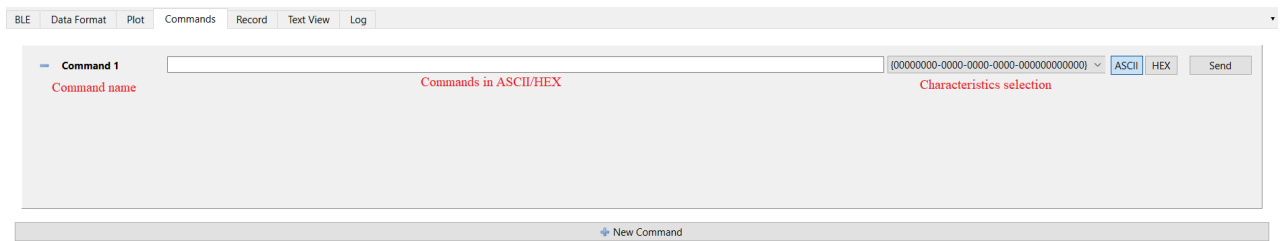
Note: BLE commands and serial port commands are independent of each other.

- Go to the **Commands** tab and click the **New Command** button below.



- Enter the command name and actual command, select the required characteristics, and select the HEX/ASCII mode.

Note: For commands only characteristics with **write no response** property is supported.



Direct reading and writing value on the characteristics

Note: Direct write(supports only ASCII) and command (supports both ASCII and HEX) are independent of each other.

- The read button will be enabled if the characteristics has **read** property, write button and edit option will be enabled if it has a **write no response** property.

The image displays two side-by-side screenshots of a Bluetooth device interface, likely from a mobile application, showing the details of a specific characteristic. Both panels show the same UUIDs: Service UUID (6e400001-b5a3-f393-e0a9-e50e24dcca9e) and Characteristics UUID (6e400003-b5a3-f393-e0a9-e50e24dcca9e). The left panel is labeled "Editing disabled" and shows a disabled "Read" button and a disabled "Write" button. The right panel is labeled "Editing enabled" and shows an enabled "Read" button and an enabled "Write" button. Both panels also have a "Notify enable" checkbox and a text input field.

Panel	Service UUID	Characteristics UUID	Notify enable	Read button	Write button
Editing disabled	(6e400001-b5a3-f393-e0a9-e50e24dcca9e)	(6e400003-b5a3-f393-e0a9-e50e24dcca9e)	<input type="checkbox"/>	Disabled	Disabled
Editing enabled	(6e400001-b5a3-f393-e0a9-e50e24dcca9e)	(6e400002-b5a3-f393-e0a9-e50e24dcca9e)	<input type="checkbox"/>	Enabled	Enabled