

MANUAL GUIDE

USB Dongle with Nordic nRFconnect for Desktop for BLE

Version 1.0

Revision history

Version	Date	Note	Contributor(s)	Approver
1.0	12 May 2021	Initial version	Nguyen Hoang Hoan	Nguyen Hoang Hoan

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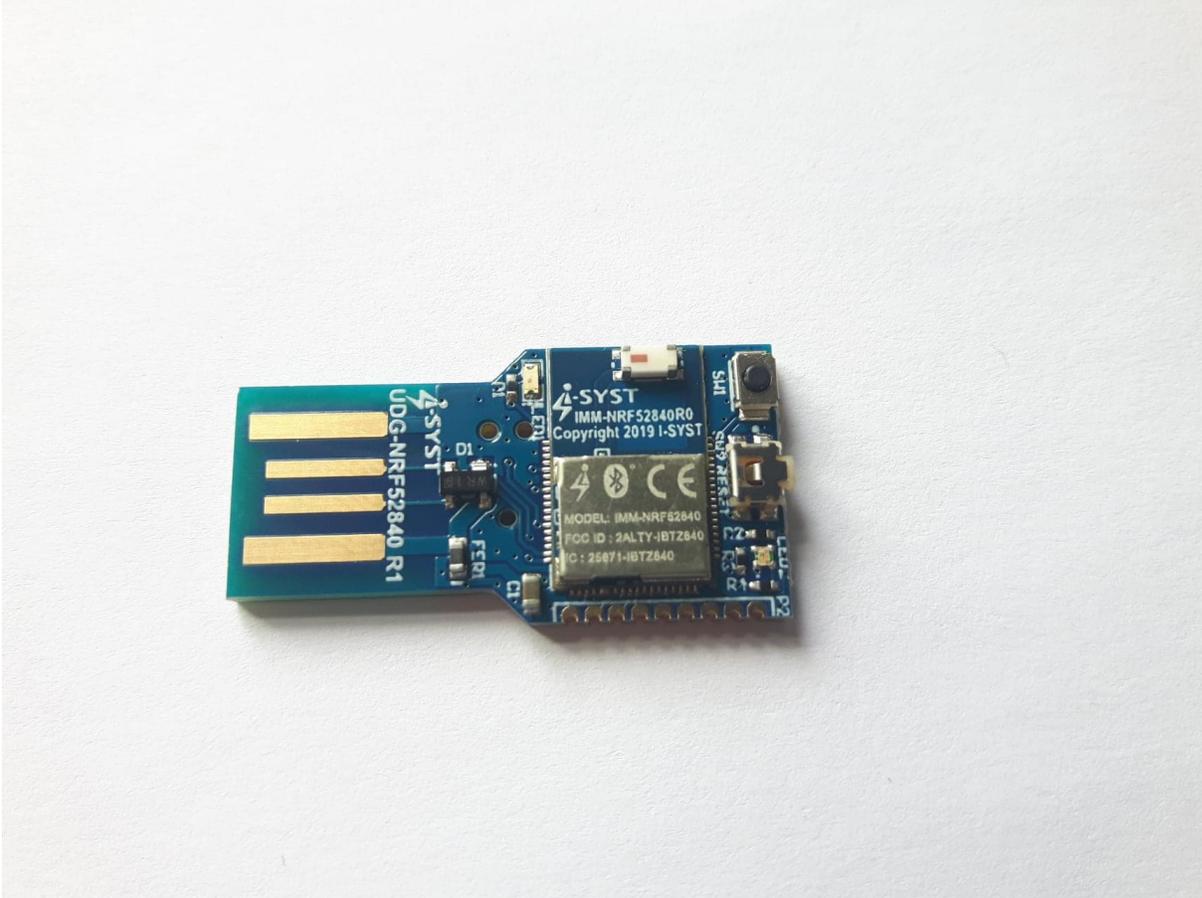
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1. Introduction

This document shows step-by-step how to use USB Dongle with Nordic nRF Connect for desktop as sniffer for Bluetooth Low Energy (BLE).

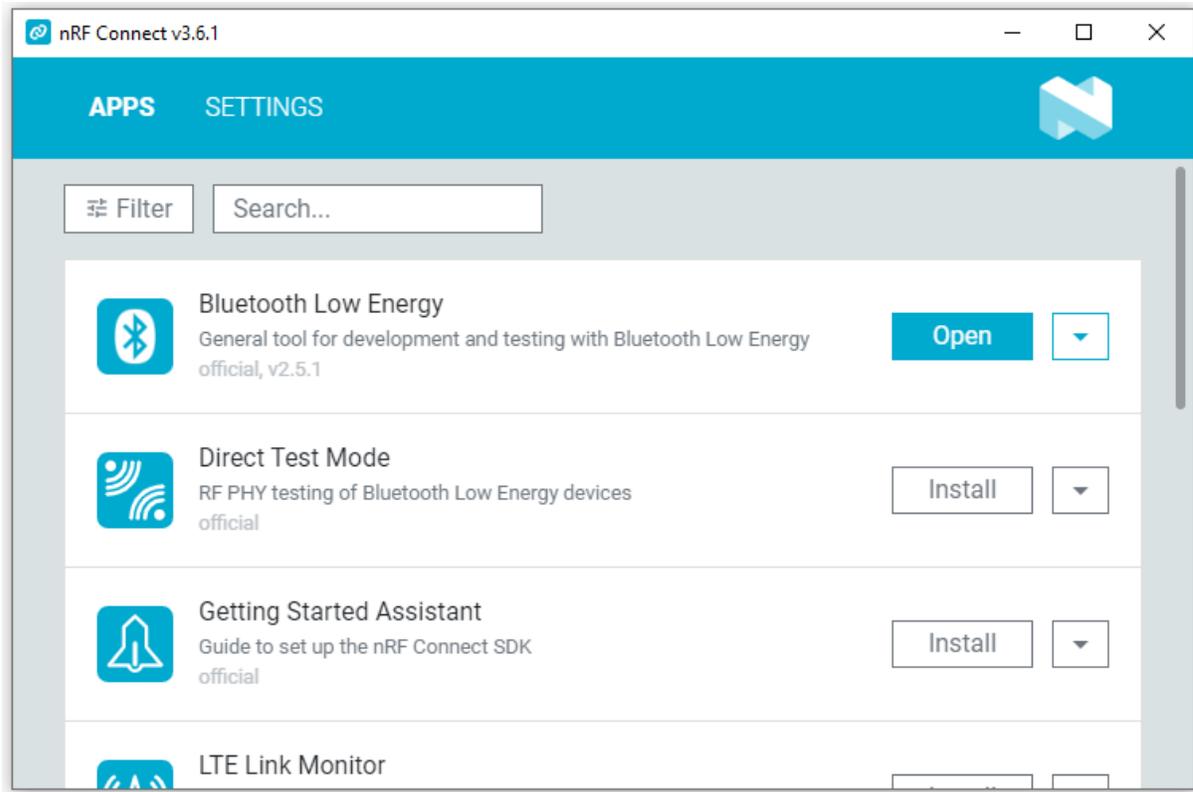
2. USB Dongle with Nordic nRFConnect

Plug in UDG-NRF52840 to your computer

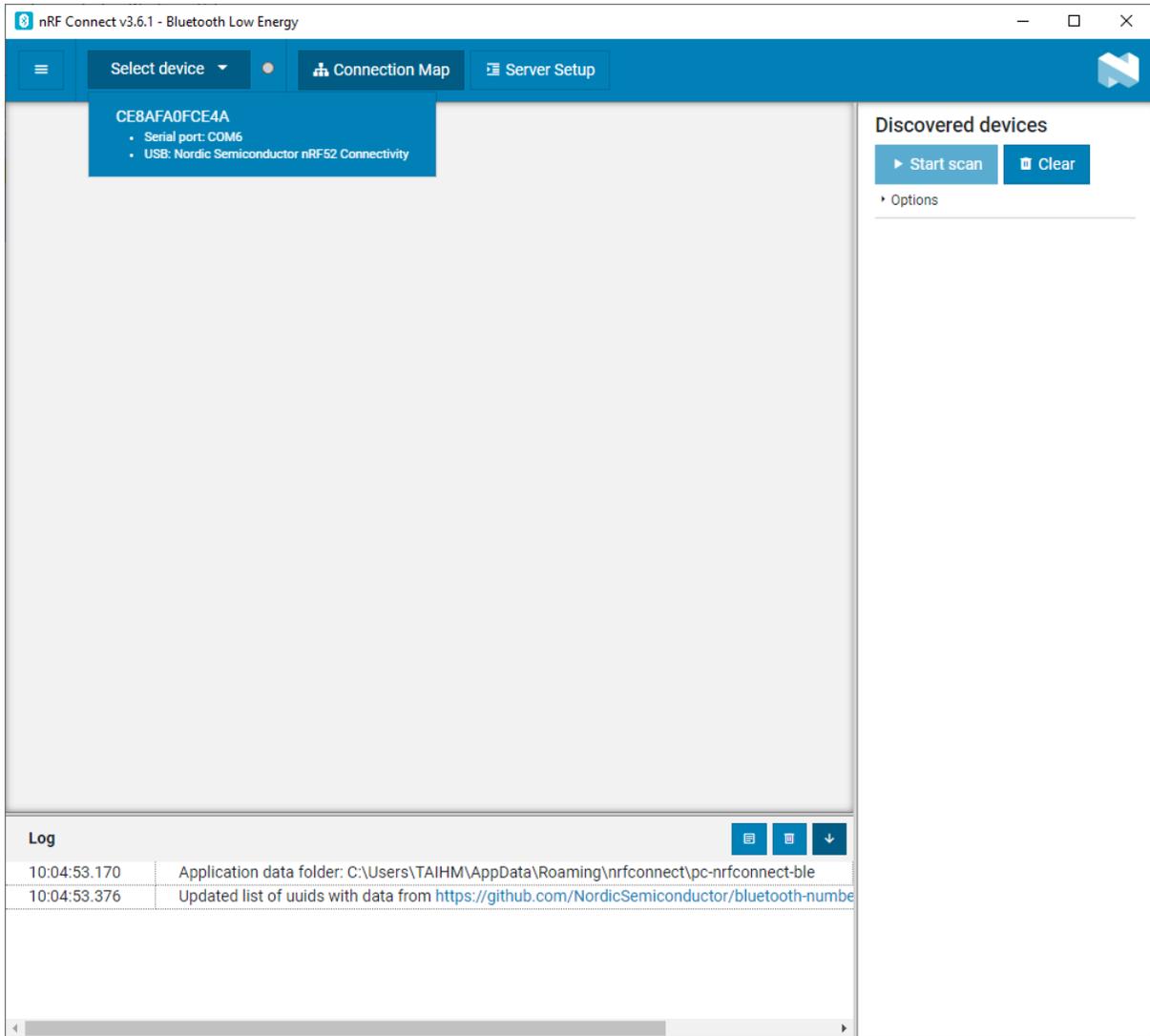


Download Nordic nRF Connect for desktop at <https://www.nordicsemi.com/Software-and-Tools/Development-Tools/nRF-Connect-for-desktop>

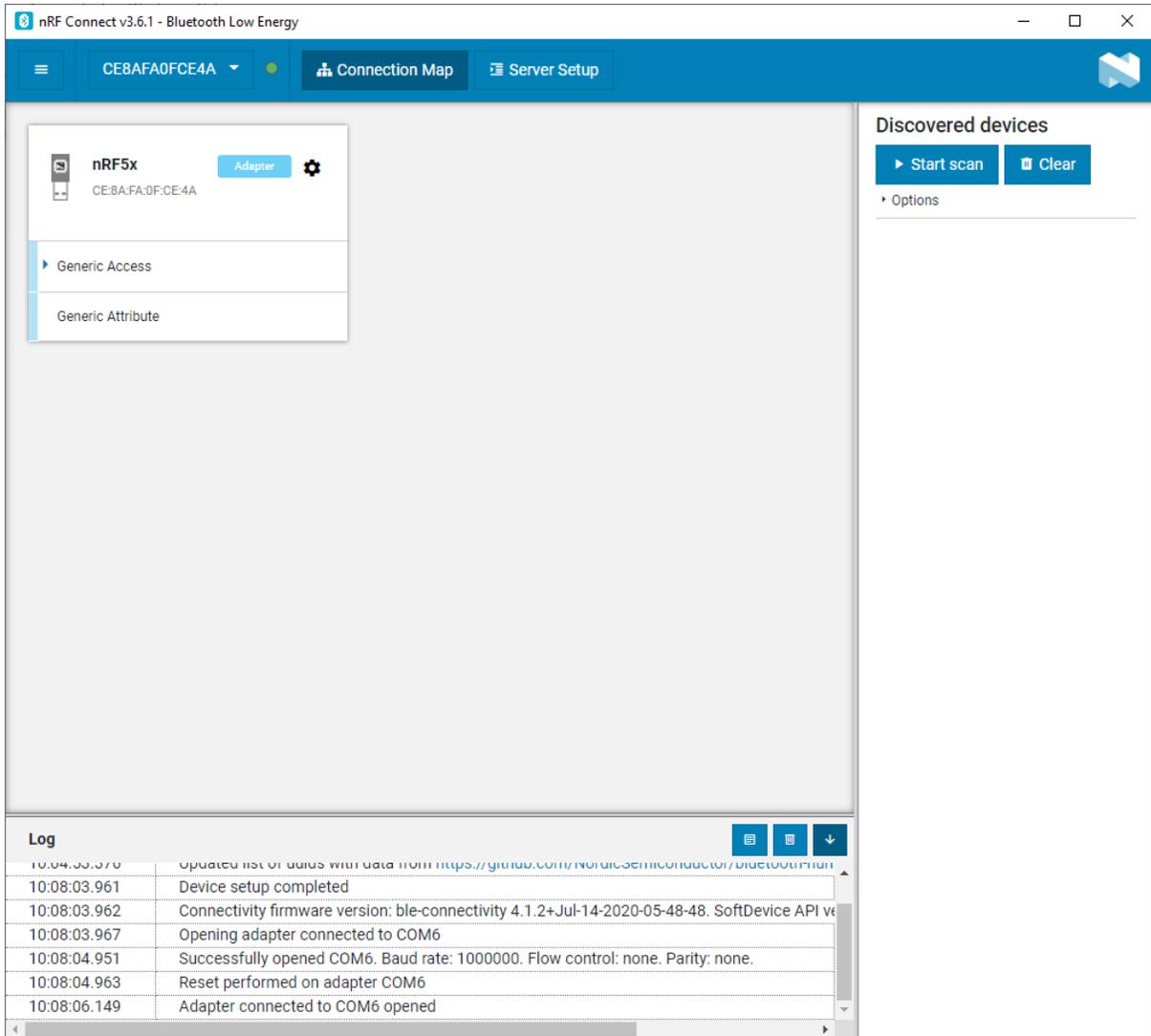
Install Nordic nRF Connect for desktop



Install Bluetooth Low Energy in nRF Connect.
Click Open Bluetooth Low Energy.



Click Select device: select your USB Dongle



The screenshot shows the nRF Connect v3.6.1 - Bluetooth Low Energy application interface. The window title is "nRF Connect v3.6.1 - Bluetooth Low Energy". The interface includes a top navigation bar with a menu icon, a dropdown menu showing "CE8AFA0FCE4A", and buttons for "Connection Map" and "Server Setup".

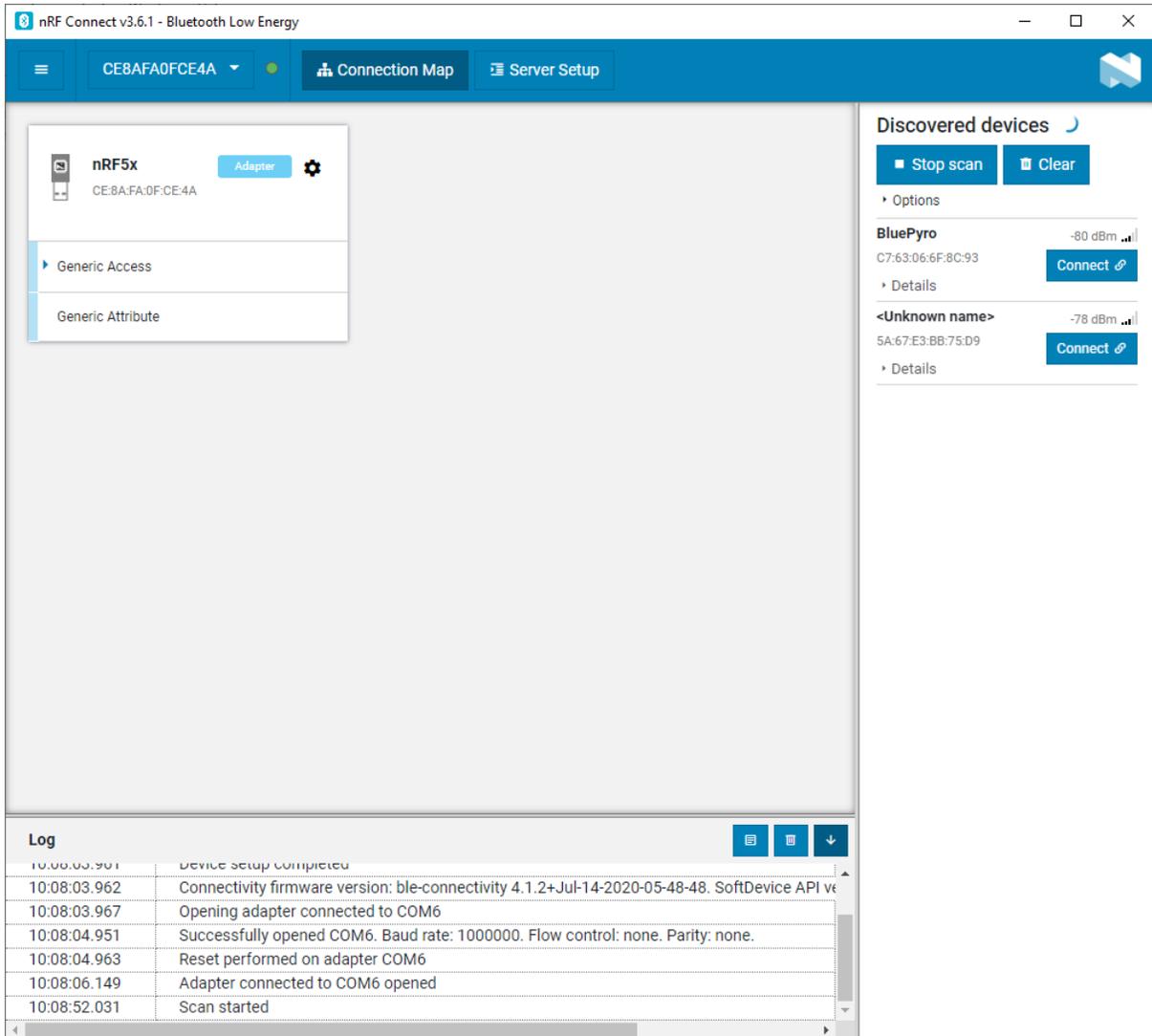
The main content area is divided into two sections:

- Left Panel:** Displays the selected adapter "nRF5x" with MAC address "CE:8A:FA:0F:CE:4A". It includes an "Adapter" button and a settings gear icon. Below this, there are expandable sections for "Generic Access" and "Generic Attribute".
- Right Panel:** Titled "Discovered devices", it contains "Start scan" and "Clear" buttons, and an "Options" dropdown menu.

At the bottom, there is a "Log" section with a scrollable list of system messages:

Time	Message
10:04:33.370	Updated list of UUIDs with data from https://github.com/nordic-semiconductor/bluetooth-uuids
10:08:03.961	Device setup completed
10:08:03.962	Connectivity firmware version: ble-connectivity 4.1.2+Jul-14-2020-05-48-48. SoftDevice API version: 5.10.0
10:08:03.967	Opening adapter connected to COM6
10:08:04.951	Successfully opened COM6. Baud rate: 1000000. Flow control: none. Parity: none.
10:08:04.963	Reset performed on adapter COM6
10:08:06.149	Adapter connected to COM6 opened

Start scan BLE devices



The screenshot shows the nRF Connect v3.6.1 - Bluetooth Low Energy interface. The main window displays the adapter information for nRF5x (CE:8A:FA:0F:CE:4A) and a list of discovered devices. The discovered devices list includes BluePyro (C7:63:06:6F:8C:93) and <Unknown name> (5A:67:E3:BB:75:D9). The log at the bottom shows the device setup process, including connectivity firmware version, adapter connection to COM6, and scan start.

Discovered devices

- BluePyro -80 dBm
C7:63:06:6F:8C:93
Connect
- <Unknown name> -78 dBm
5A:67:E3:BB:75:D9
Connect

Log

Time	Message
10:08:03.901	Device setup completed
10:08:03.962	Connectivity firmware version: ble-connectivity 4.1.2+Jul-14-2020-05-48-48. SoftDevice API v
10:08:03.967	Opening adapter connected to COM6
10:08:04.951	Successfully opened COM6. Baud rate: 1000000. Flow control: none. Parity: none.
10:08:04.963	Reset performed on adapter COM6
10:08:06.149	Adapter connected to COM6 opened
10:08:52.031	Scan started

You can see BLE device in the list on the right hand side.