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## READ ME

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The README file contains information about the following files:

- (1) test.bat
- (2) sample\_test\_hrm.xml
- (3) sample\_text\_scanning.xml

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### Automated testing (beta)

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Starting from version 2.1 the nRF Connect (previously nRF Master Control Panel) may be used to perform automated tests on Bluetooth Low Energy devices. Currently only BAT script has been created as the project is in BETA stage.

An Android phone or a tablet, that will be used to perform tests, must be connected with a USB cable to the PC and drivers must be installed. The location of ADB must be in the global PATH variable. USB debugging must be enabled in Android settings.

To start automatic test a test suite must be created. A sample has been created and copied to Nordic Semiconductor folder on your phone. The sample is compatible with the new nRF51 DK (<http://www.nordicsemi.com/eng/Products/nRF51-DK/%28language%29/eng-GB>).

Steps to start the test:

1. Program Soft Device version 8.0 onto your DK.
2. Program Bootloader from SDK 9.0+.
3. Copy the test.bat, sample\_test\_hrm.xml, sample\_test\_scanning.xml to the PC.
4. Modify the XML script first, if required (the default implementation will flash the HRM onto the device and perform some basic tests).
5. Run test using the following command:

```
test.bat -E EXTRA_ADDRESS [your device address, f.e. 00:11:22:33:44:55:66]
sample_test_hrm.xml
```

6. The test.bat script will copy the XML on your connected device. If more than one Android device is connected specify

its ID with -D device\_id. You may obtain device ID using the following command:

```
adb devices
```

7. When test completed a 'sample\_test\_hrm\_result.txt' file will be created.

If nRF Logger application is installed on the device you may track the current test state.

Test syntax errors are also being logged there if an error while parsing occurs.

Download the nRF Logger app from the Google Play store:

<https://play.google.com/store/apps/details?id=no.nordicsemi.android.log>

### NOT WORKING?

If you have "Waiting for result..." for a long time, and no notification on the phone, rename "Nordic Semiconductor" to

"NordicSemiconductor" in the test.bat (remove the space). All occurrences. And then try again.

Read more about automated tests project or submit an issue on our GitHub page:  
<https://github.com/NordicSemiconductor/nRF-Master-Control-Panel>

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## Files

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### 1. TEST.BAT

The script that initializes the test service. It copies the test suite XML file onto Android device and starts the test.

Execute test -? in the command line for usage.

Android 4.3+ device nRF Connect (previously nRF Master Control Panel) (2.1.0+) is required.  
The script runs on Windows OS.

### 2. SAMPLE\_TEST\_HRM.XML

A sample test suite with the full documentation included as comments. It contains almost all features of the test engine.

### 3. SAMPLE\_TEST\_SCANNING.XML

A sample test suite with the full documentation included as comments. It contains the rest of all features of the test engine.

Both sample XMLs contains the full features explained.

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## Change log

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nRF MCP 2.0 - The beta version released

nRF Connect 4.3 - <scan> and <scan-for> commands added, logging time and device information

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## Development kit

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Go to <http://www.nordicsemi.com/eng/Products/nRF51-DK/%28language%29/eng-GB> for more information about the Development Kit.