NUR accessory demo / sample overview

Tools

- Android Studio Version used is 2.1.1

- The document “AndroidStudio_getting_started.pdf” is a general description of how to set up a project. If BLE is used then the transport layer files need to be replaced accordingly.

Other things to note

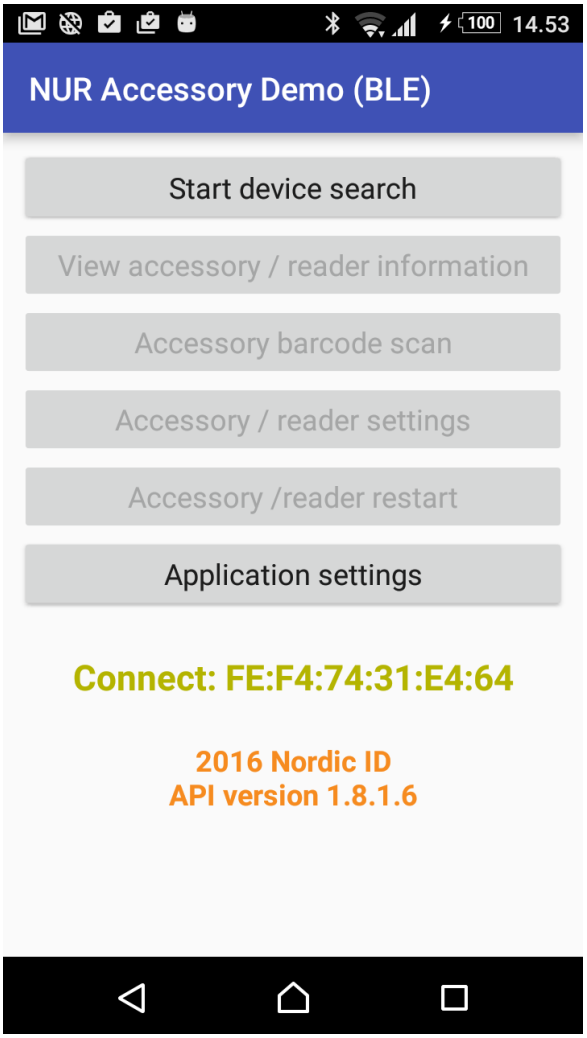
- The sample, by no means, is complete. The development has been made alongside with the development of the reader/accessory unit’s FW development, so the sample is currently likely to contain some anomalies.

- The sample is subject for various feature additions

- Other type of sample implementations will be available

- Final target is to place the sample(s) into GitHub so that the Android Studio users can download them directly from the IDE.

Main view



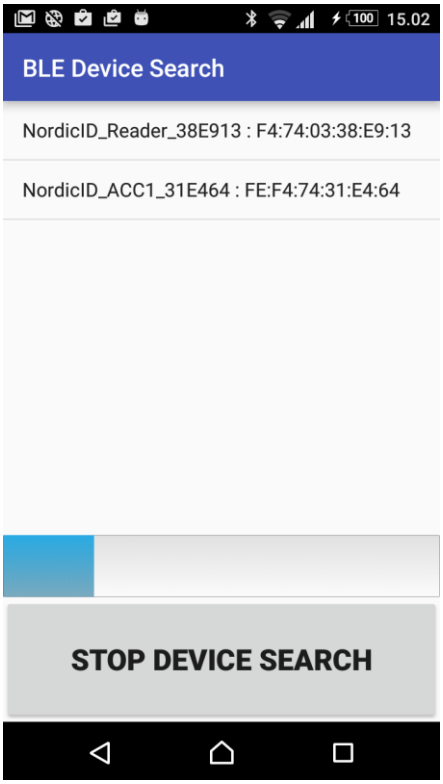
In the main view the basic operations are selected:

- Start device search locates the nearby devices
- View accessory / reader information show basic information such as the NUR module's FW version name and accessory information like battery information
- Accessory barcode scan can be used to scan a single barcode with the imager (may cause "not present" error if no imager is attached)
- Accessory / reader settings allows the NUR module basic settings' change, device name change and barcode / RFID HID enabling / disabling
- from Application settings the device search and barcode scan timeouts can be changed. Also "forgetting" the currently connected device is done here.

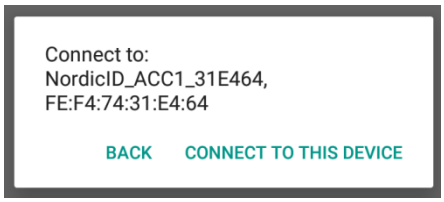
The text view showing status indicates connected, connecting, reconnecting and disconnected states.

Bottom text view is populated with the API and accessory (when connected) FW version.

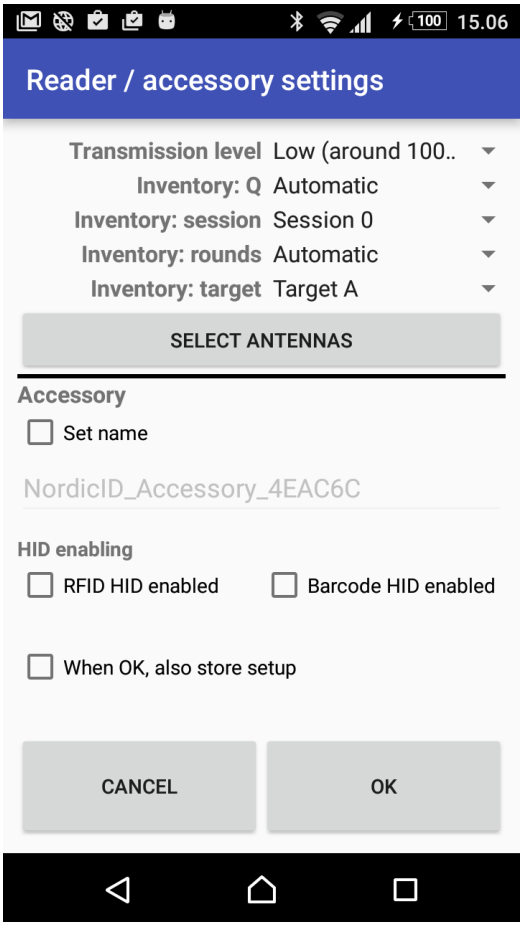
Device search view



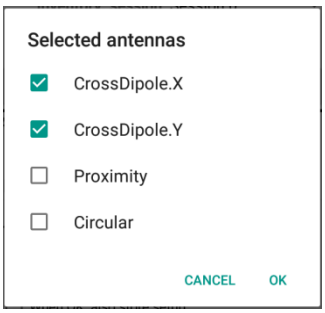
The device search view shows the devices found nearby. Connection is made by selecting a device from the list. A dialog will appear:



Accessory / reader settings



In this view the basic inventory (TBI) setup is configured as well as antenna selection is made, like:

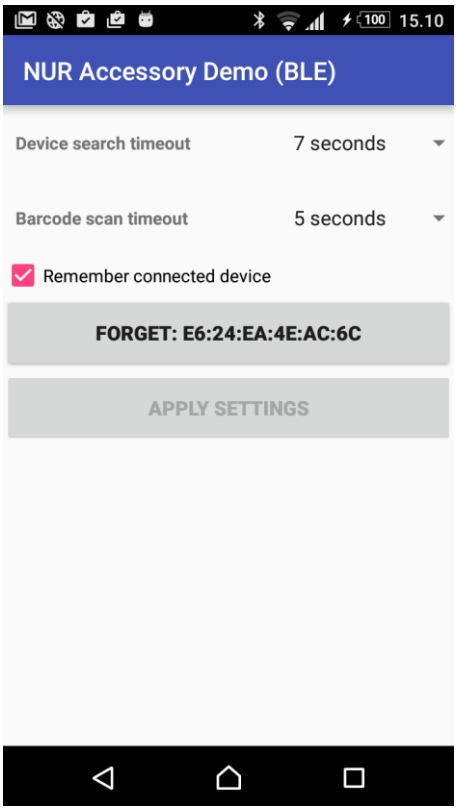


If the "Set name" is selected, new name entered and OK selected then the BLE device is restarted so that the new name will be applied by the BLE accessory's FW.

HID enabling and disabling require the application to be closed in order to make use of them.

Selecting the "When OK, also store setup" makes the inventory and antenna settings/selections permanent i.e. they are stored to the NUR modules non-volatile memory.

Application settings



In this view the timeouts are set.

If the “Remember connected device” is selected then the connected device’s information is stored persistently so that when the application next time starts, the connection sequence will start automatically.

Forget button is used for disconnection. Apply applies changed settings to the saved preferences.