

NiLib Modification Guide for the TDAi BLE reader

1. For developers who have already developed applications for Thai ID card reading with TDAi NiOS Lib V 0.3x and want to use the Bluetooth 4.0 BLE readers instead of USB, Lightning, Bluetooth 3.
2. The NiBLE SDK 4.x is designed for BLE reader (TDAi301BL and TDAi301BLM) only. If you want to use the TDAi301U8A, TDAi301VC or TDAi301BT readers please use the NiOS Lib V0.3x instead.
3. Modification has 3 steps.
 - 3.1 Let's study the example of the new source code of NiBLE Sample first. The points to look at are:
 - Assigning the reader type to BLE (with the command **setReaderTypeNi**).
 - BLE reader scanning (**scanReaderListBleNi** command)
 - Creating a pop-up window to display a list of discovered readers , in the file `scanBleViewCtrl.swift`
 - 3.2 Modify the original source code by copying the new library file (NiLib.a version 0.40 or above) that supports BLE from the new SDK to replace the original NiOSLib.a in the project, then modify the following points.
 - Assign reader type by calling **setReaderTypeNi (READERTYPE_BLE)** to define the type of BLE reader to work with NiLib.
 - Add a program in the BLE reader scanning section into the source code (command **scanReaderListBleNi**).
 - Create a pop-up window to get Notification from **scanReaderListBleNi** command for displaying a list of discovered readers and let the user choose one. It may follow the example class: **scanBleViewCtrl** in the `scanBleViewCtrl.swift` file.
 - Use the reader name from the pop-up screen with the command **selectReaderNi** to set the reader to be used to read Thai ID card.
 - 3.3 Try to build and test.

Notes

- The BLE reader can be used immediately after it is turned on. No need to pair in the iOS/iPadOS system anymore.