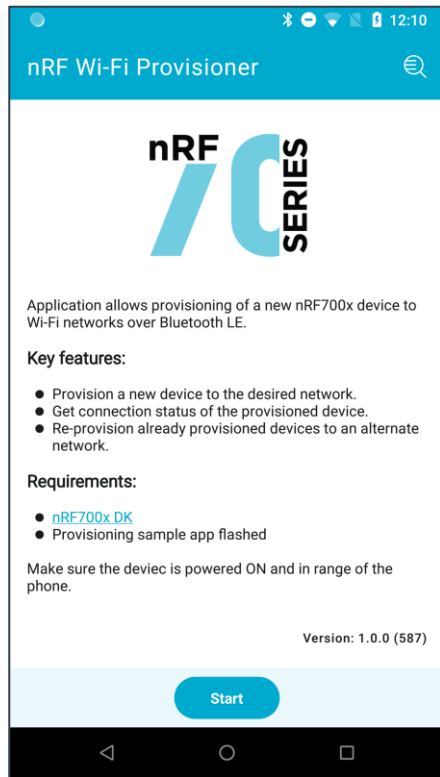


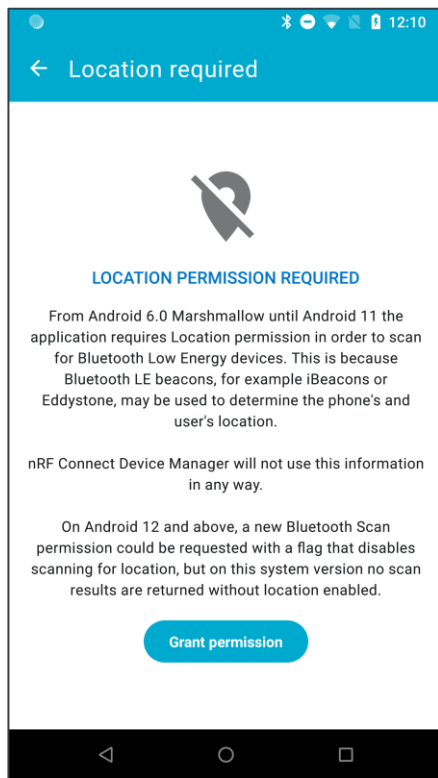
# Wi-Fi Provisioning via Bluetooth LE





The provisioning App (Provisioner) works with Nordic nRF700x Wi-Fi devices (Device) and helps them to connect to the desired Network selected from this App via Bluetooth LE. The basic operation is as described below –

1. Device advertises its presence and a unique UUID via BLE adv channels
2. Provisioner scans for this UUID and pairs with the device and establishes a LE Secure channel
3. Provisioner asks the device to scan its surroundings for Wi-Fi Access-Points/Routers and send the results.
4. Provisioner selects the Wi-Fi network and sends the provisioning data for that network to the device which then uses that data and connects to that network
5. Provisioner can un-provision a device in order to move it to a different network
6. Provisioner can get status of already provisioned devices

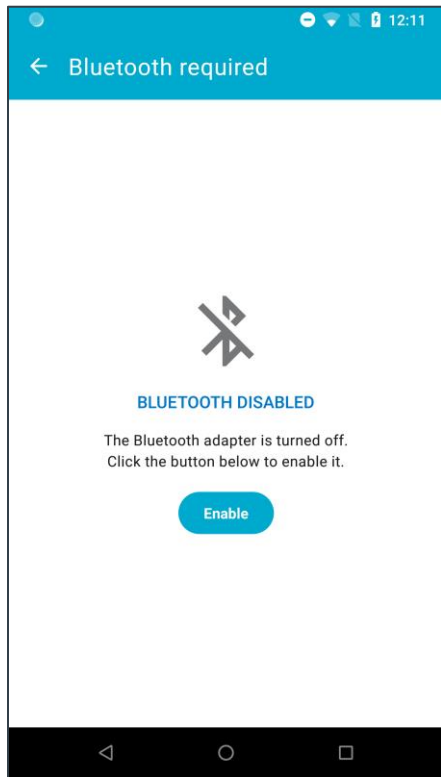
# Permissions please...



This screen needs the user to grant the required permissions on the provisioning Android device.

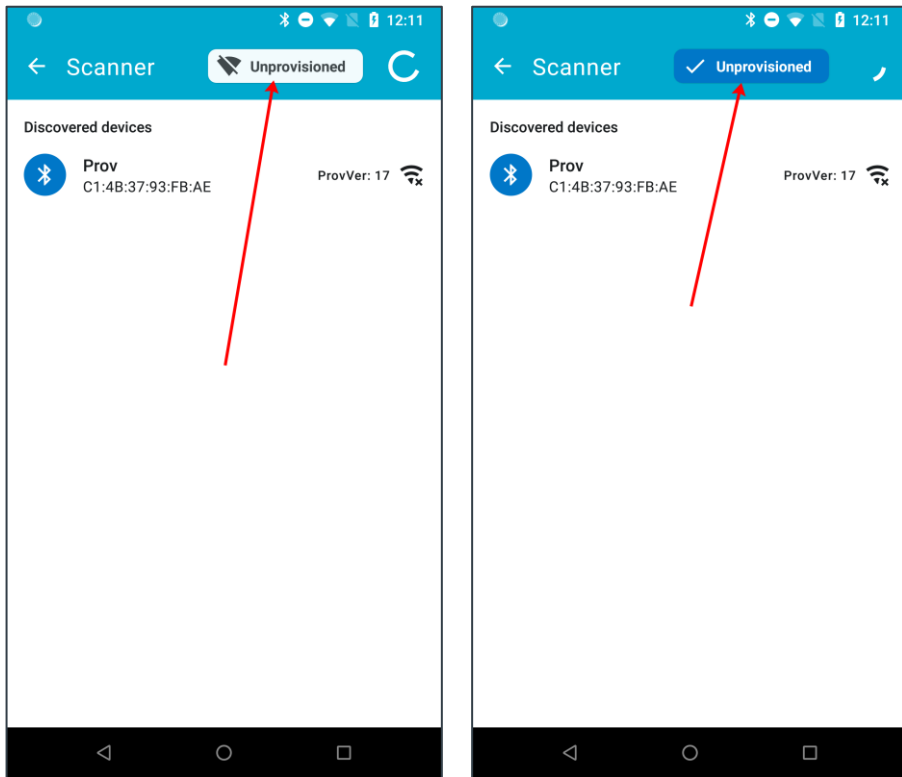
- Click on  to proceed to the next screen
- Click on  to go back to the main screen


# Hmm... Bluetooth turned ON?




If you end up on this screen, you have not turned ON your Bluetooth adaptor.  
Please turn it ON and proceed to the next screen

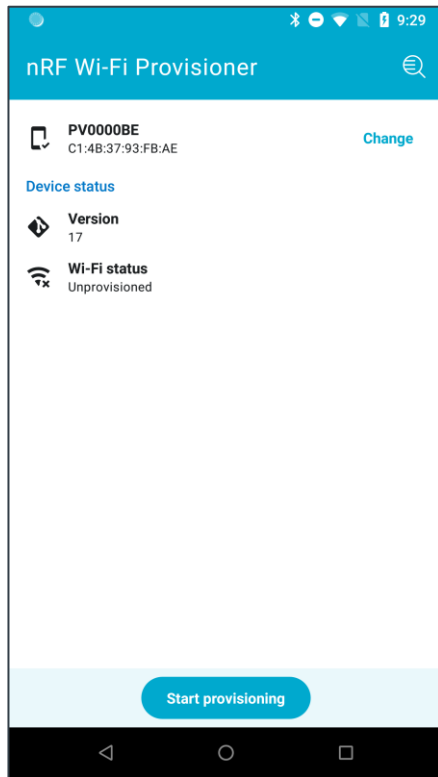
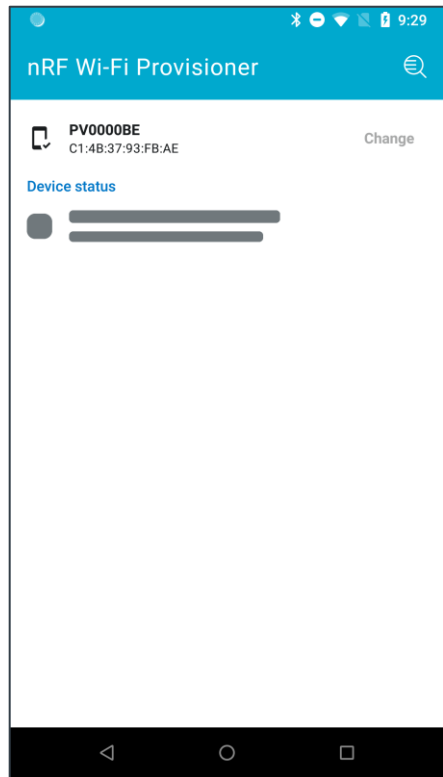
# BLE Scan of Devices




Once here, the App starts scanning for Nordic Wi-Fi devices. It scans and displays all provisioned and un-provisioned devices here with a filter  to allow seeing only un-provisioned devices.


- Each device displays information on provisioning software version and status (un-provisioned or provisioned with RSSI)
- Click on the device  to proceed to provisioning (or on a provisioned device for more information)

# Selected Device details

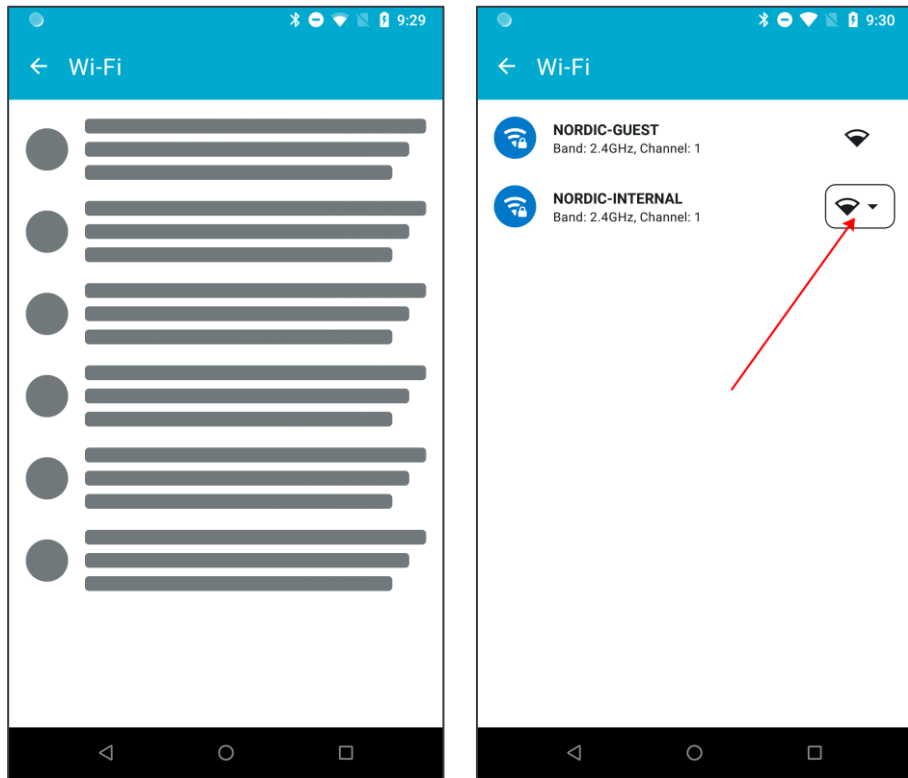


Once we select the Wi-Fi device to be provisioned, you come to this screen


Here we have selected  **PV0000BE** C1:4B:37:93:FB:AE as our device to be provisioned and the device status will be displayed.

- Click  to start provisioning this device. This will request the un-provisioned Wi-Fi device to do a scan and send the details of all AccessPoints/Routers it can scan and send back those results to the App.
- If you have accidentally selected another device, you can select **Change** icon to go back and select the right one.

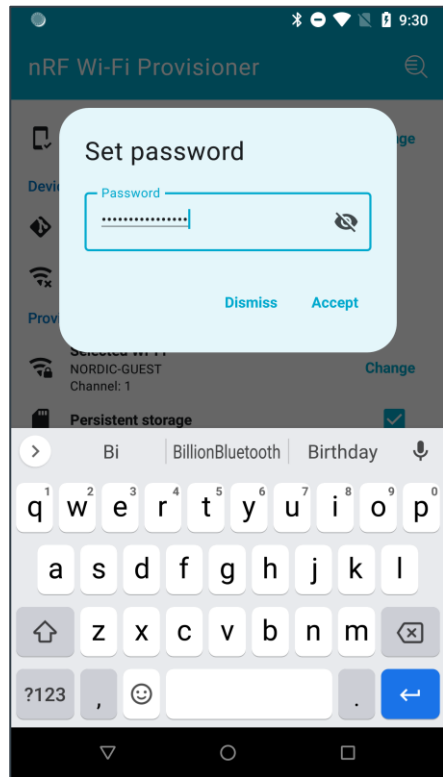
# Device Scan results display & selection



The scan results received from the un-provisioned Wi-Fi device are displayed here.

- From this list, select the Access Point that you need the Wi-Fi device to be provisioned to.
- If there are multiple Access Points with the same SSID and different channels, please select the channel on which you want the provisioning to be done via 

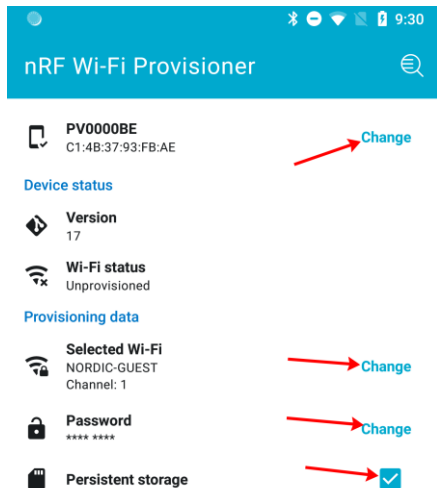
# Password please.....



Once you Click on the selected SSID, a Password window pops up where you punch in the password of that Access-Point and click Accept.

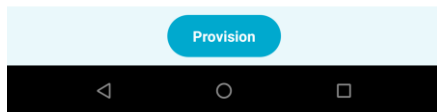
- Note, if the Access-Point is in Open security mode (no password), then we proceed to provisioning directly without prompting the user for a password.

# All set, review & GO....



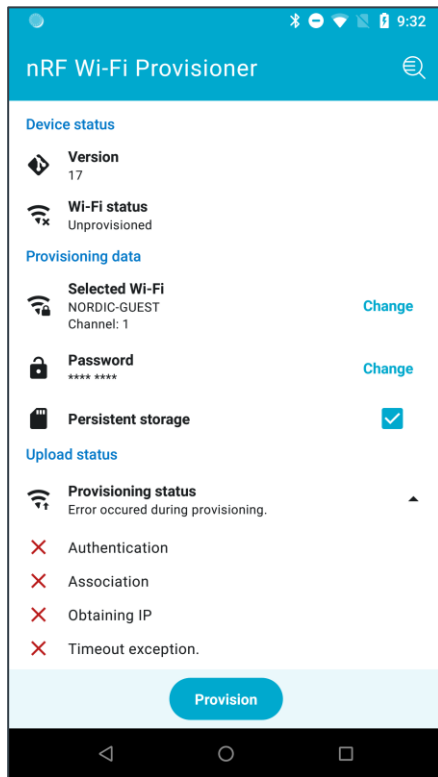
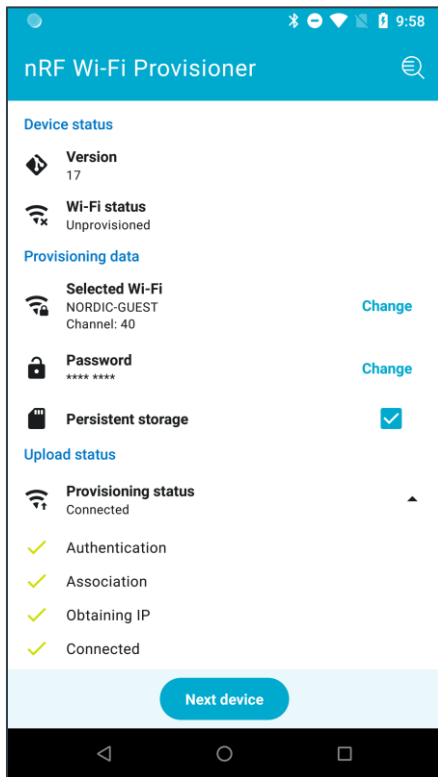
This screen gives you the final configuration to be reviewed before triggering provisioning. You have options to change –

1. Device for provisioning
2. Different channel with the selected SSID
3. Password of the selected Access-Point
4. Where the provisioning data is stored on the Wi-Fi device – Flash (default) or RAM when ☒ is un-checked.



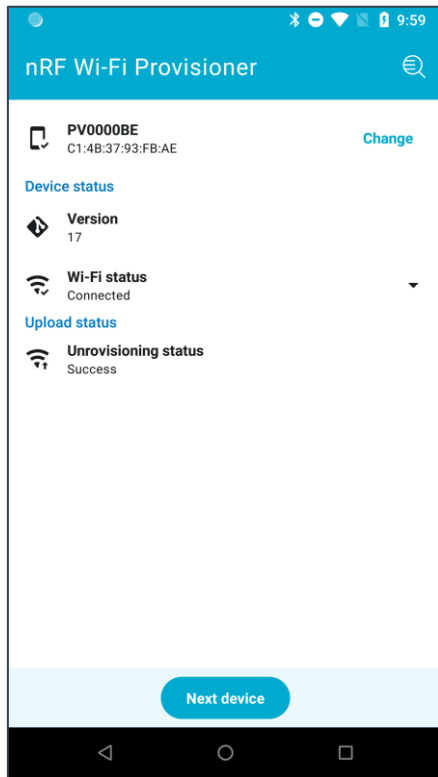
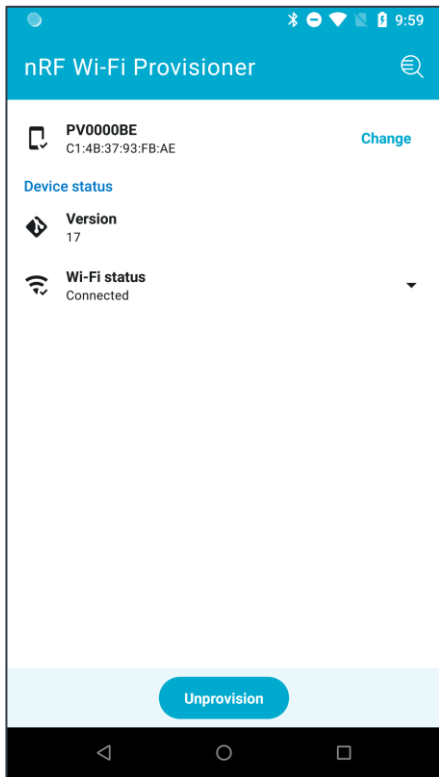


# All Done ??



- A successful provisioning is shown in the first screen. After this, you can proceed to provisioning another device
- The second screen shows an unsuccessful provisioning. You can try change the parameters and re-try provisioning by selecting the **Provision** button

# Done! But, I want to change device to another network...



- If you re-start, you should now see the device as connected
- If you want to re-provision this device, click the **Unprovision** icon. Once done, you notice that un-provisioning is successful. This device will now be treated as un-provisioned device and can be provisioned as earlier.