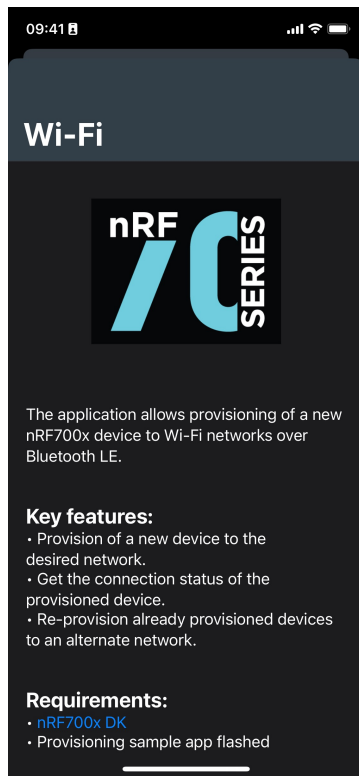


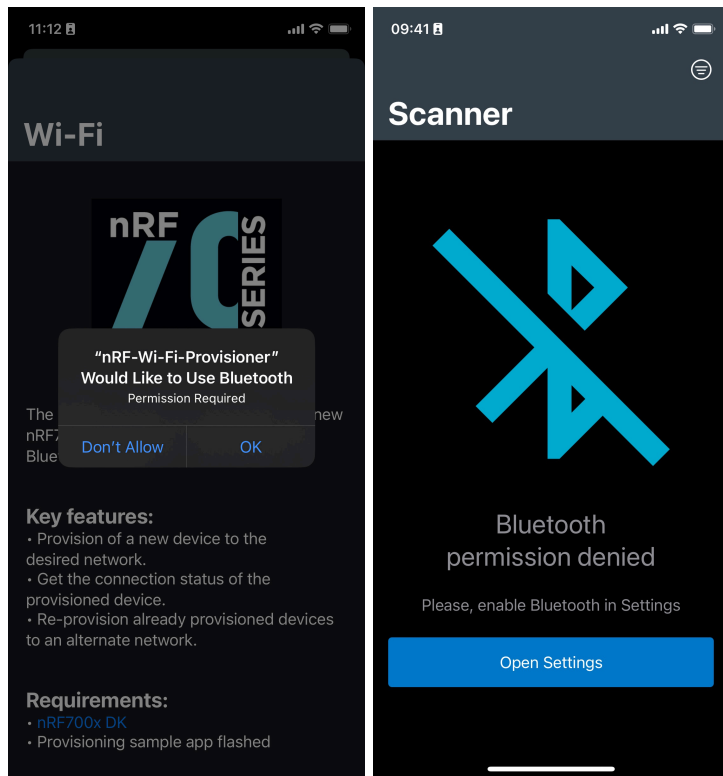
# Wi-Fi Provisioning via Bluetooth LE



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 essential operation is as described below –

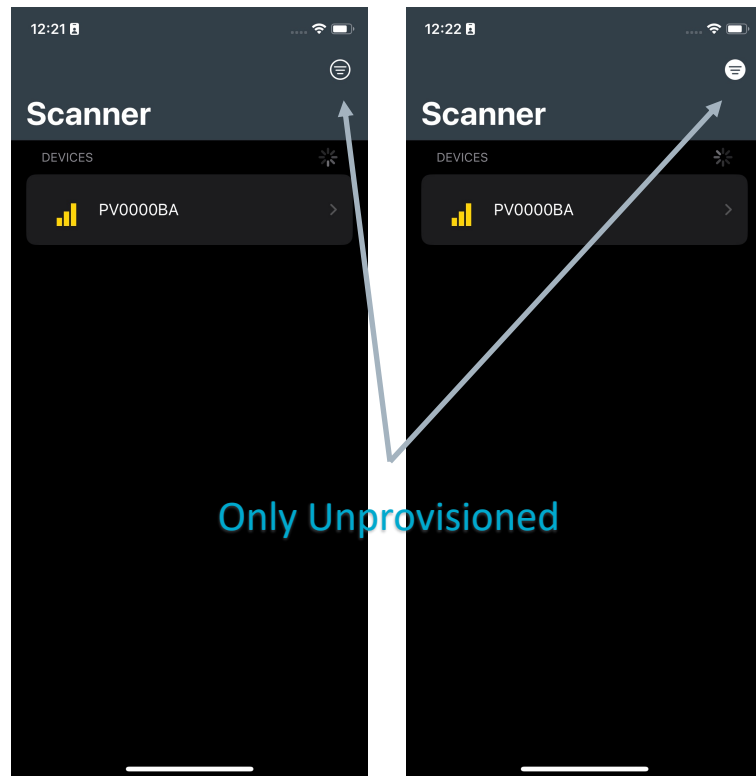
1. The device advertises its presence and a unique UUID via BLE adv channels
2. Provisioner scans for this UUID, pairs with the device, and establishes a LE Secure channel which will be used from hereon to exchange information
3. Provisioner asks the device to scan its surroundings for Wi-Fi Access-Points/Routers 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 re-provision a device to move it to a different network
6. Provisioner can get the status of already provisioned devices

# Permissions please...



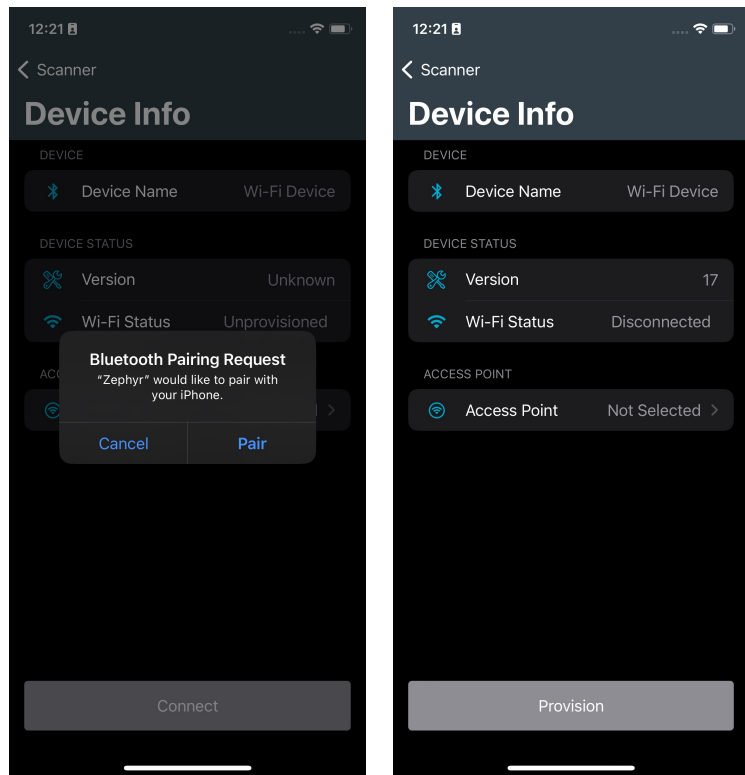
- To discover and connect the devices, you have to give Bluetooth permission.
- The permission dialog will appear on the first launch
- To start scanning and for Bluetooth devices, just press “OK”
- If you don’t allow permission, you can always do that in the settings.

# 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.
- Click on the device to proceed to provisioning (or on a provisioned device for more information)
- In the upper right corner, you can enable/disable “Only Unprovisioned” filter. If it is enabled on unprovisioned devices will be displayed.

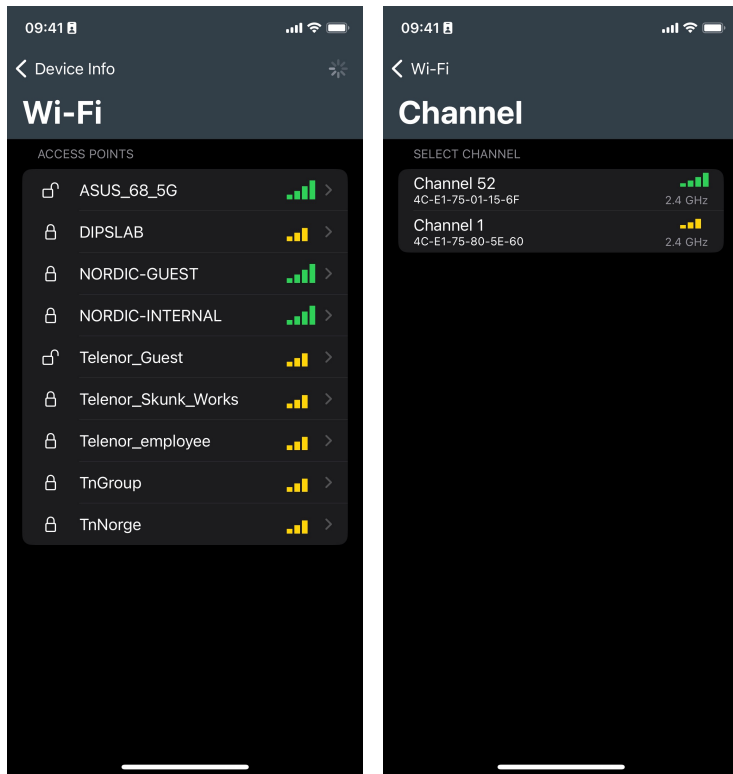
# Selected Device details



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

- You need to accept the pairing request first.
- Here you can see the device name, version and current device status
- Clicking 'Access Point' field lead you to the next screen where you can

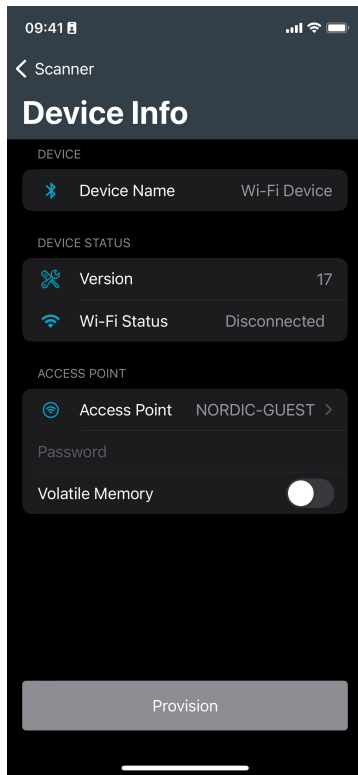
# Device Scan results display & selection



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

- First screen displays list of scanned access points.
- Once you select access point screen with available channels will be displayed.
- This screen displays list of available channels for selected access point as well as BSSID, band and RSSI

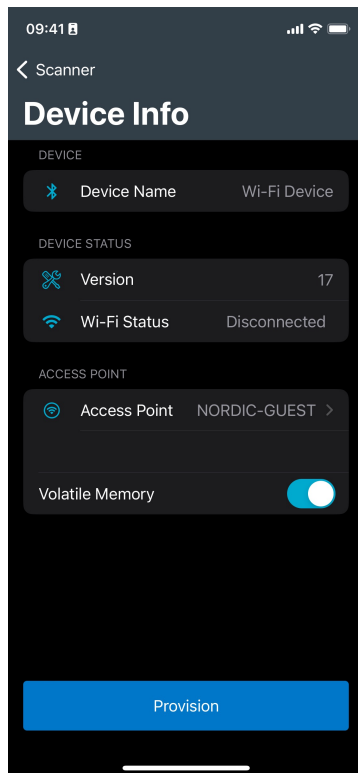
# Password please.....



Once you select channel the device info screen will be opened again.

- If the AP is not open password field will appear and you will have to enter the password.

# All set, review & GO....

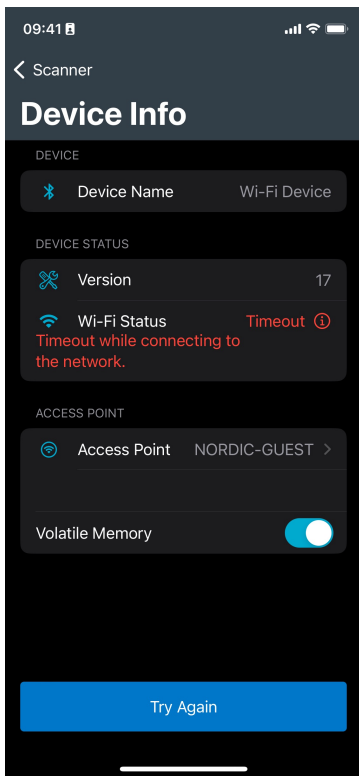
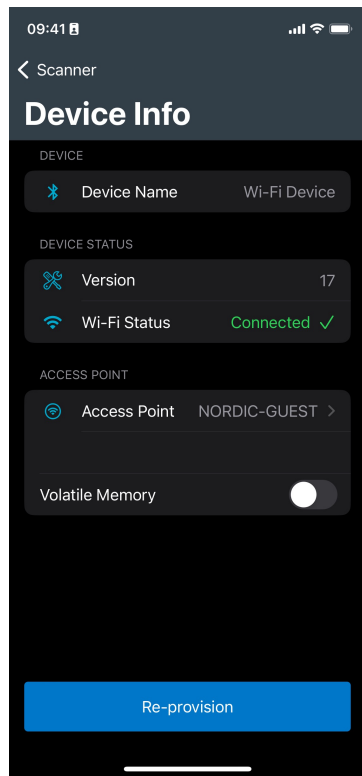


This screen gives you the final configuration to be reviewed before triggering provisioning. You have options to change –

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.

Go ahead and click “Provision”

# All Done ??



- Successful provisioning is shown in the first screen.
  - You can also Re-Provision device with another network after that.
- The second screen shows un-successful provisioning. You can try change the parameters and re-try provisioning.