

User Manual DA16200 Provisioning the Mobile App for Android/iOS UM-WI-042

Abstract

This document describes the use of Dialog's Wi-Fi provisioning mobile app for Android/iOS.



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1 Terms and Definitions

TCP Transmission Control Protocol
TLS Transport Layer Security

AP Access Point

IDE Integrated Development Environment

SDK Software Development Kit



2 Overview

This document describes how to configure the DA16200 Wi-Fi profile information using by Dialog's Wi-Fi provisioning mobile app for Android/iOS.

3 System Requirement

3.1 Android

• Android OS Version: 5.0 (Lollipop) and higher

IDE: Android Studio 4.1.2Compile SDK Version: 30

Language: JavaGradle Version: 4.0.0

3.2 iOS

Deployment Version: iOS 12.0 and higher

IDE: Xcode 12.4

• Swift Language Version: Swift 5



4 Sequence Diagram for Wi-Fi Provisioning

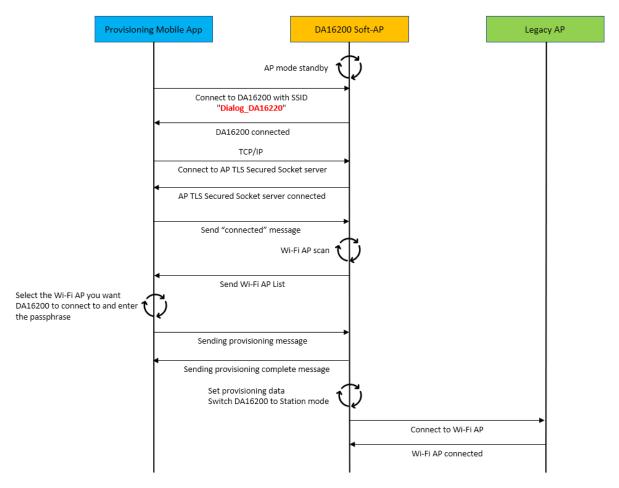


Figure 1: System Diagram for Wi-Fi Provisioning



5 How to Test Provisioning

Use the Factory Reset or Switch button (depends on the device option) to switch the DA16200 to AP Mode.

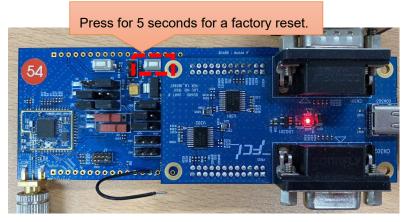
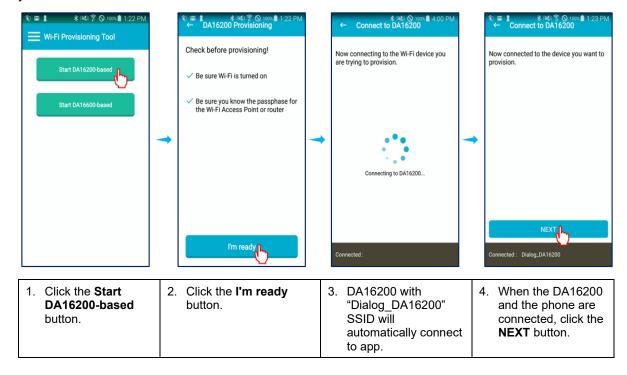


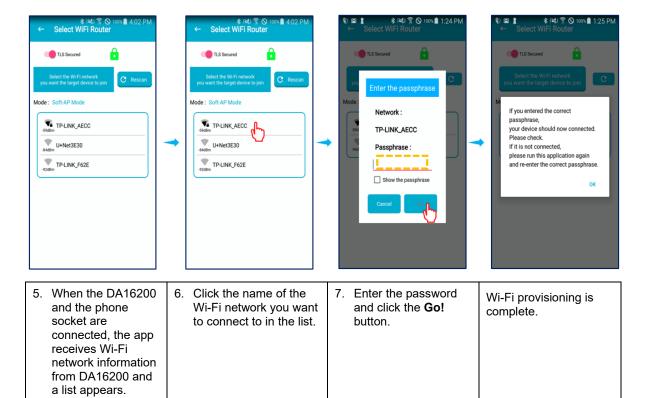
Figure 2: DA16200 Factory Reset or Switch button

5.1 Test Provisioning on Android Phone

Start the Dialog Provisioning Tool for Android and find DA16200, and then do the following steps on your Android device:



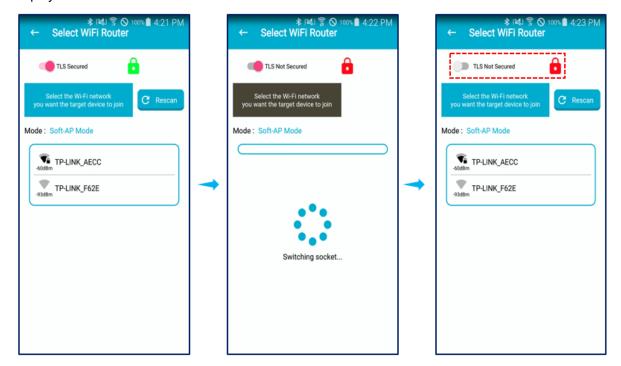




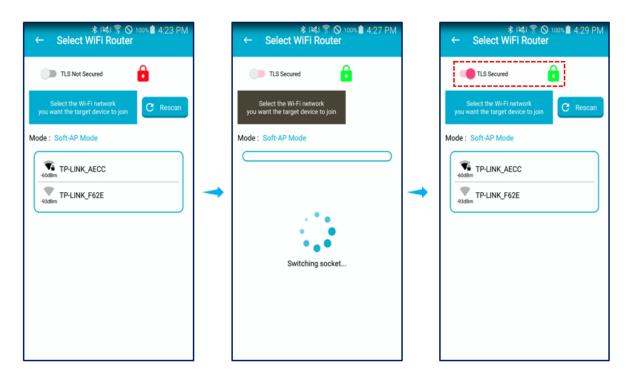
Socket switching

You can switch between TLS secured socket and unsecured socket.

A green lock icon will be displayed when a secure connection is established; and a red lock will be displayed if the connection is not secure.





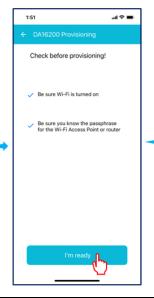




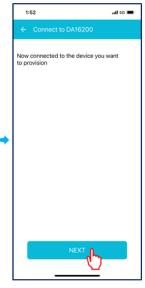
5.2 Test Provisioning on iPhone

Start the Dialog Provisioning Tool for iOS and find DA16200, and then do the following steps on your iPhone:





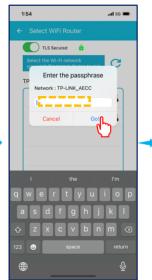




- Click the Start DA16200-based button.
- 2. Click the **I'm ready** button.
- Click the Join button to connect to DA16200 with "Dialog_DA16200" SSID.
- 4. When the DA16200 and the phone are connected, click the **NEXT** button.









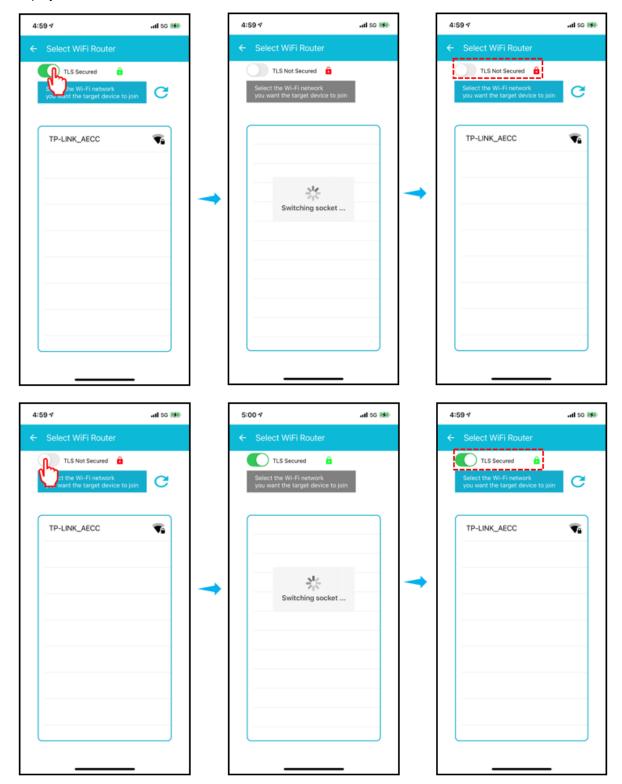
- 5. When the DA16200 and the phone socket are connected, the app receives Wi-Fi network information from DA16200 and a list appears.
- Click the name of the Wi-Fi network you want to connect to in the list.
- 7. Enter the password and click the **Go!** button.
- Wi-Fi provisioning is complete.



Socket switching

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A green lock icon will be displayed when a secure connection is established; and a red lock will be displayed if the connection is not secure.





Revision History

Revision	Date	Description
1.2	05-Apr-2021	Changed UI according to operation scenario change.
1.1	24-Mar-2021	Changed UI text.
1.0	05-Mar-2021	First Release.



Status Definitions

Status	Definition
DRAFT	The content of this document is under review and subject to formal approval, which may result in modifications or additions.
APPROVED or unmarked	The content of this document has been approved for publication.

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