

# User Manual

## DA16600 Provisioning the Mobile App for Android/iOS

### UM-WI-044

#### **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

AP	Access Point
IDE	Integrated Development Environment
SDK	Software Development Kit
UUID	Universally Unique Identifier

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**DA16600 Provisioning the Mobile App for Android/iOS****2 Overview**

This document describes how to configure the DA16600 Wi-Fi profile information used by Dialog's Wi-Fi provisioning mobile app for Android/iOS.

**3 System Requirements****3.1 Android**

- Android OS Version: 5.0 (Lollipop) and higher
- IDE: Android Studio 4.1.2
- Compile SDK Version: 30
- Language: Java
- Gradle Version: 4.0.0

**3.2 iOS**

- Deployment Version: iOS 12.0 and higher
- IDE: Xcode 12.4
- Swift Language Version: Swift 5

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4 Sequence Diagram for Wi-Fi Provisioning

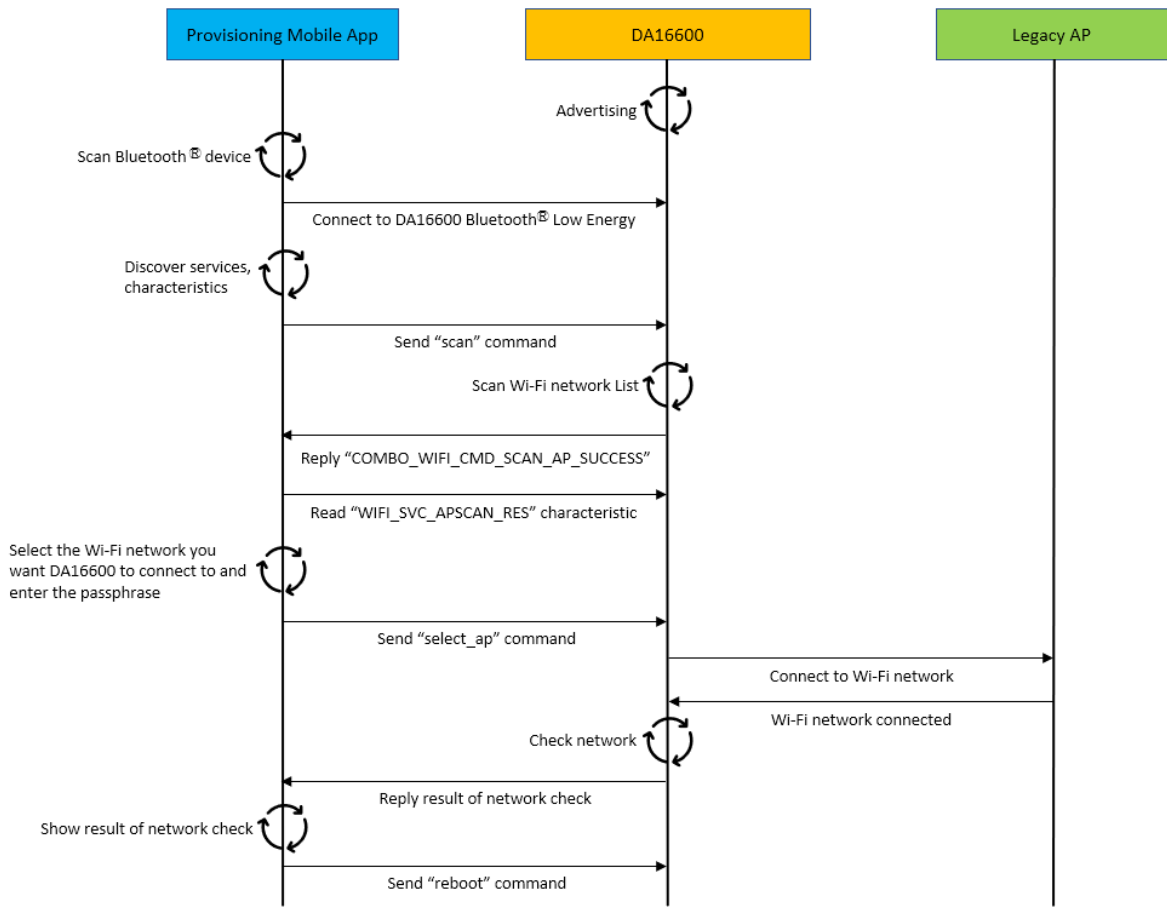


Figure 1: System Diagram for Wi-Fi Provisioning

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5 How to Test Provisioning

Use the Factory Reset or Switch button (depends on the device option) to switch the DA16600 to advertising Mode of Bluetooth® Low Energy.

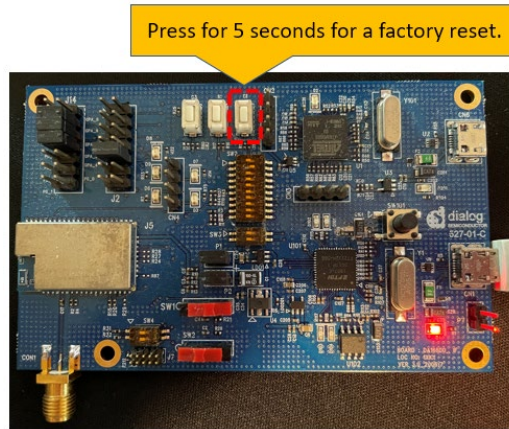


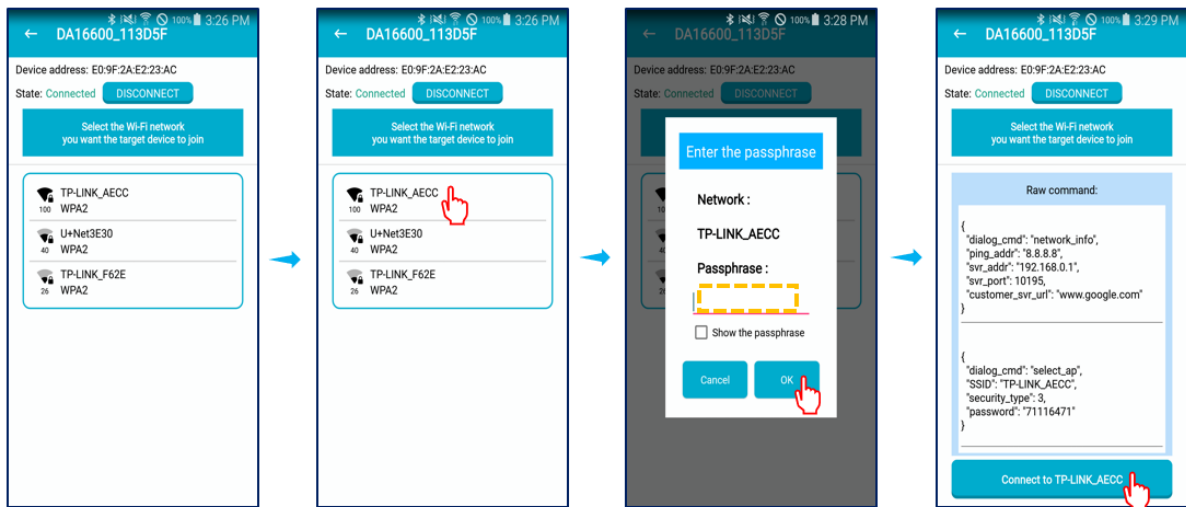
Figure 2: DA16600 Factory Reset or Switch Button

5.1 Test Provisioning on Android Phone

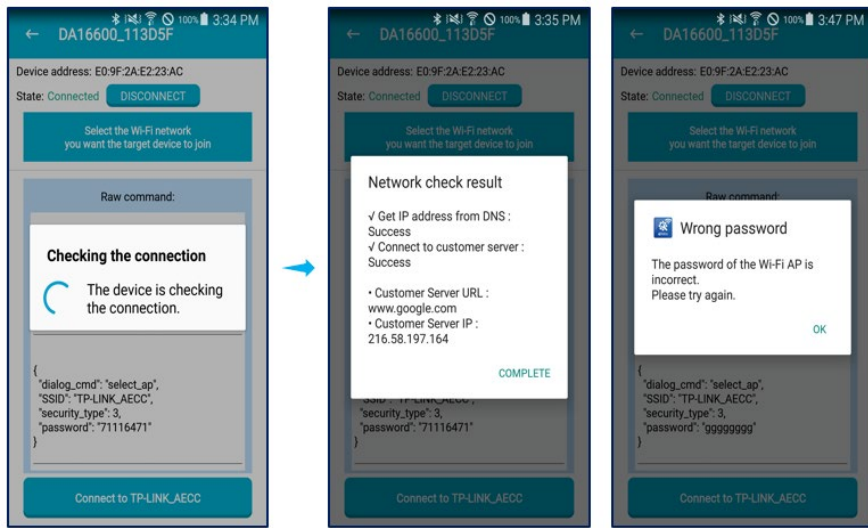
Start the Dialog Provisioning Tool for Android and find DA16600, and do the following on your Android device:

<p>1. Click the <b>Start DA16600-based</b> button.</p>	<p>2. Click the <b>Start</b> button.</p>	<p>3. Scanning Bluetooth® Low Energy devices.</p>	<p>4. Click the Bluetooth® Low Energy device name of DA16600.</p>
--------------------------------------------------------	------------------------------------------	---------------------------------------------------	-------------------------------------------------------------------

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- |                                                                                                                                                                            |                                                                                   |                                                                |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| <p>5. After discovering the services and characteristics of DA16600 Bluetooth® Low Energy, the app receives Wi-Fi network information from DA16600 and a list appears.</p> | <p>6. Click the name of the Wi-Fi network you want to connect to in the list.</p> | <p>7. Enter the passphrase and click the <b>OK</b> button.</p> | <p>8. Click the <b>Connect to (Wi-Fi network name)</b> button.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|

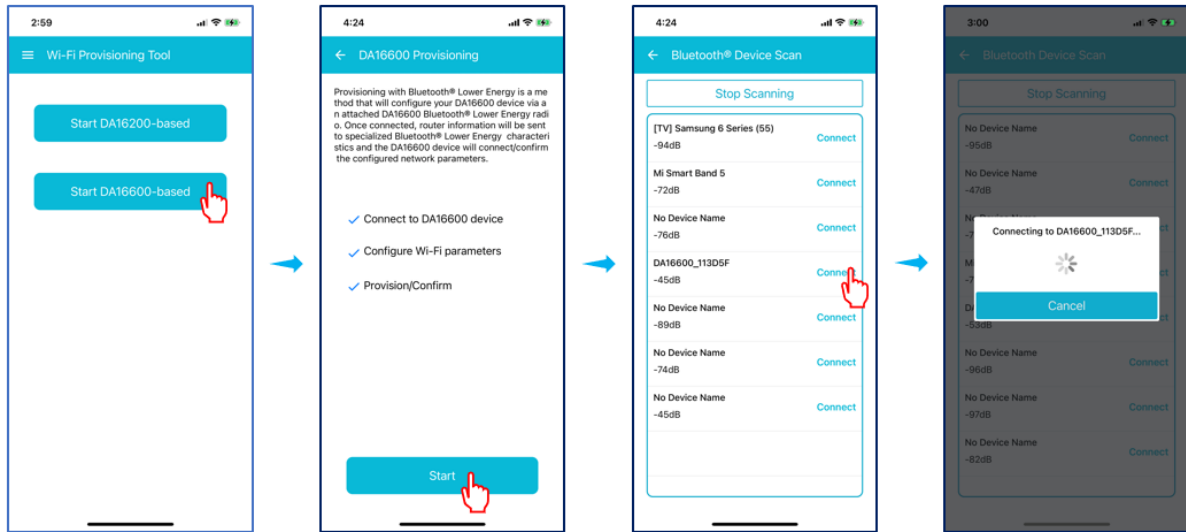


- |                                        |                                                       |                                         |
|----------------------------------------|-------------------------------------------------------|-----------------------------------------|
| <p>9. DA16600 is checking network.</p> | <p>10-1. The provisioning has ended successfully.</p> | <p>10-2. The password is incorrect.</p> |
|----------------------------------------|-------------------------------------------------------|-----------------------------------------|

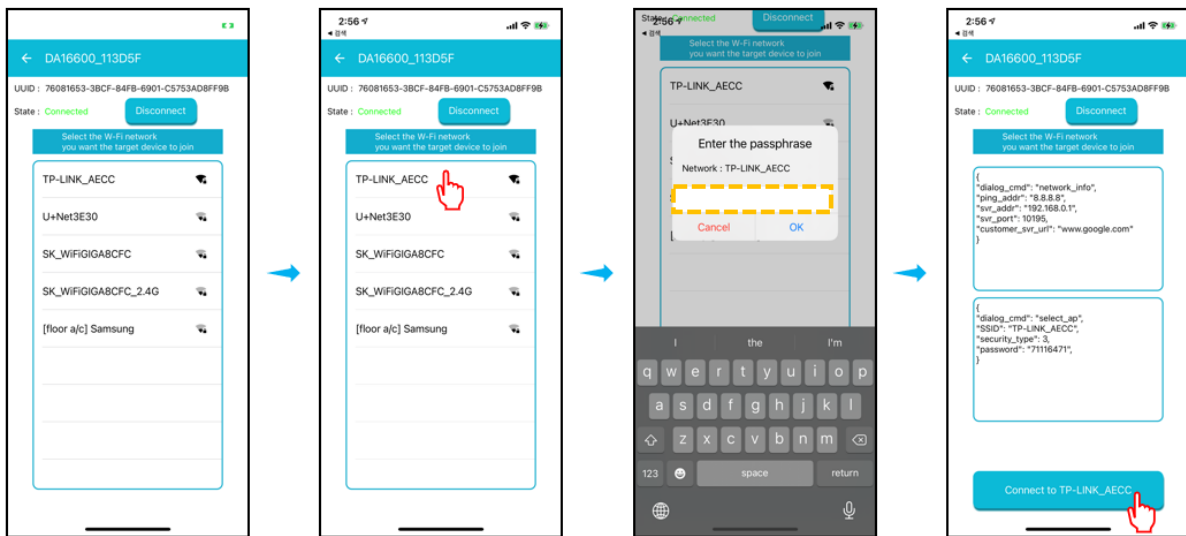
## DA16600 Provisioning the Mobile App for Android/iOS

### 5.2 Test Provisioning on iPhone

Start the Dialog Provisioning Tool for iOS and find DA16600, then do the following on your iPhone:



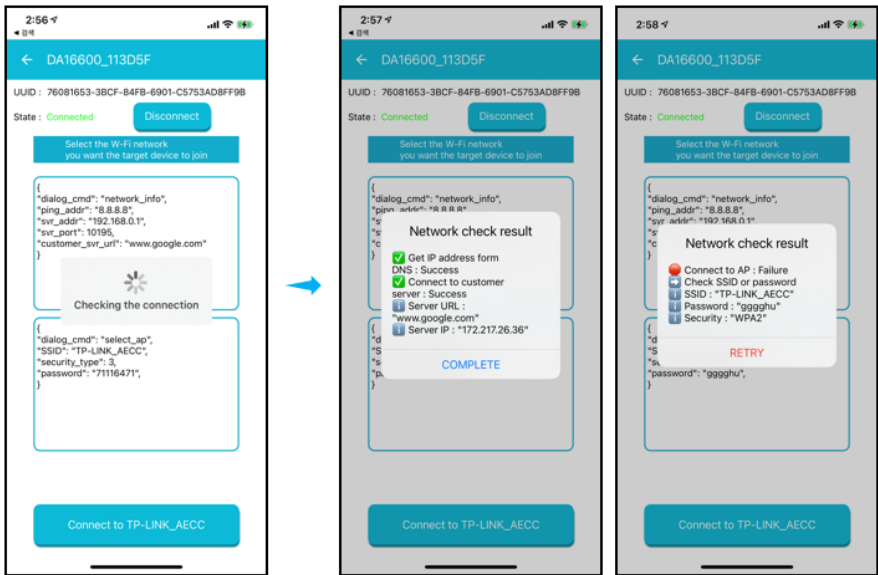
- |                                                        |                                          |                                                                                        |                                                                                     |
|--------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>1. Click the <b>Start DA16600-based</b> button.</p> | <p>2. Click the <b>Start</b> button.</p> | <p>3. Click the <b>Connect</b> button to connect to DA16600 Bluetooth® Low Energy.</p> | <p>4. Dialog showing that phone is connecting to DA16600 Bluetooth® Low Energy.</p> |
|--------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|



- |                                                                                                                                                                            |                                                                                   |                                                                |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| <p>5. After discovering the services and characteristics of DA16600 Bluetooth® Low Energy, the app receives Wi-Fi network information from DA16600 and a list appears.</p> | <p>6. Click the name of the Wi-Fi network you want to connect to in the list.</p> | <p>7. Enter the passphrase and click the <b>OK</b> button.</p> | <p>8. Click the <b>Connect to (Wi-Fi network name)</b> button.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|



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<p>9. DA16600 is checking the network.</p>	<p>10-1. The provisioning has ended successfully.</p>	<p>10-2. The entered password is incorrect.</p>
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## Revision History

Revision	Date	Description
1.1	05-Apr-2021	Changed UI according to operation scenario change.
1.0	25-Mar-2021	First Release.

## DA16600 Provisioning the Mobile App for Android/iOS

### 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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