

**Goodman®**

Air Conditioning & Heating



# Goodman GTST Connected Thermostat Cloud Commissioning & Quality Install

 **DAIKIN**

# Disclaimers

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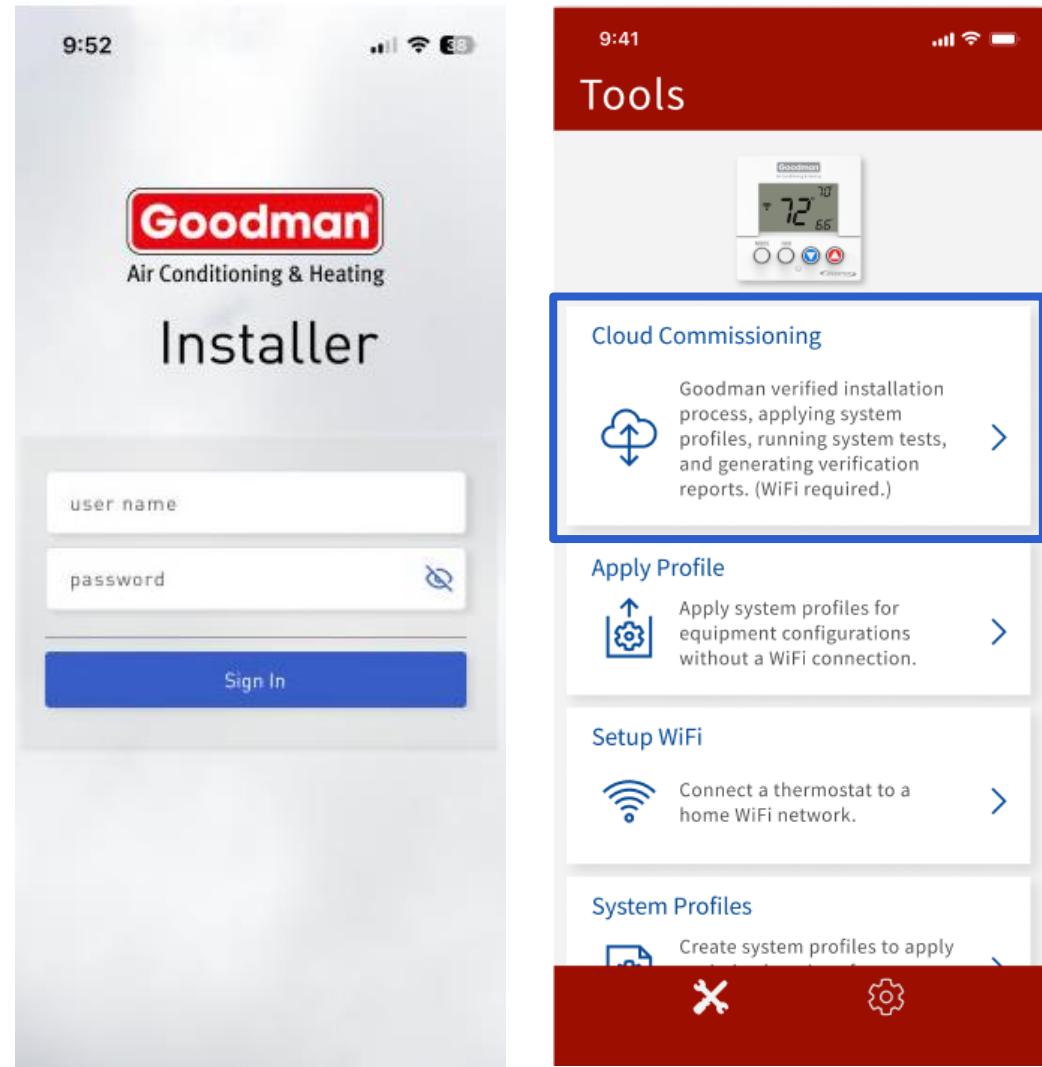
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# Cloud Commissioning (Wi-Fi)

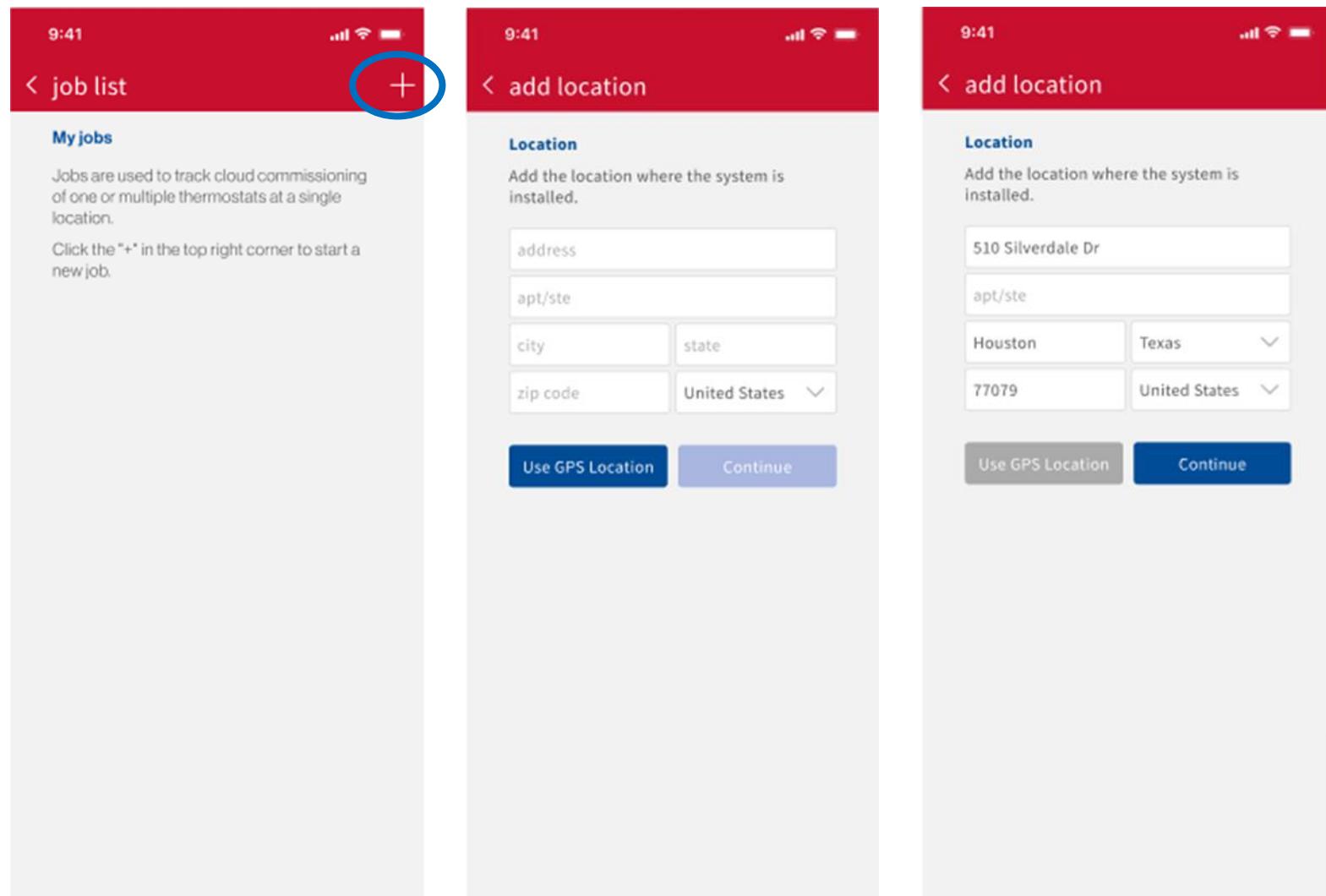


- Download the Goodman Installer app. from your respective app. store.
- You do not need to create an account to log in
  - User ID and password (case sensitive):
    - User = Goodman
    - Password = Dealer
- System profiles enable the technician to modify settings from the app. and upload those settings to the thermostat.



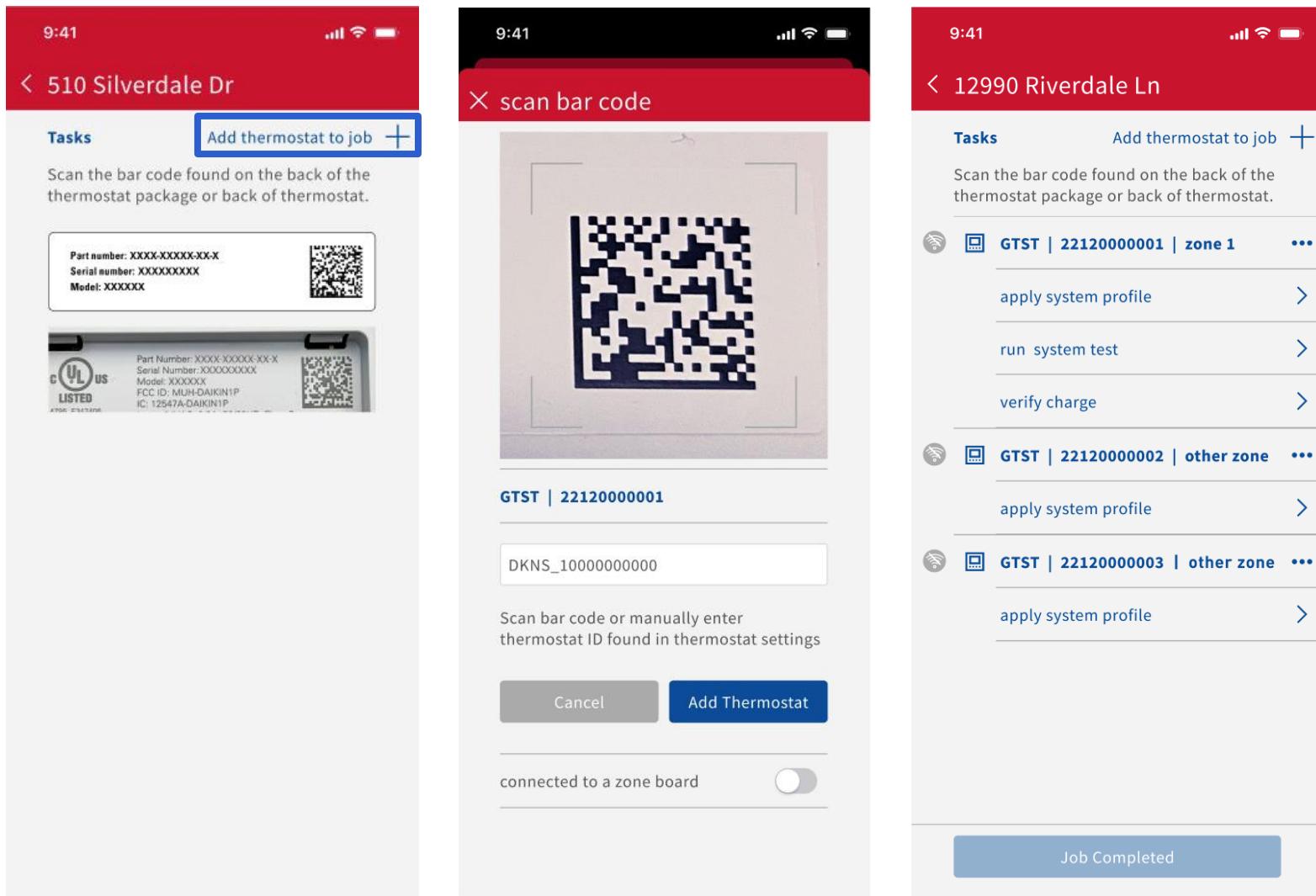
# Create A Job Based On Location

- Every job needs the location details.
- Click on the “+” sign to add location details and continue.
  - The user can use their GPS location to automatically fill in the address.



# Add Thermostat To Job And Configure For Zoning If Needed

- Add thermostat by tapping on + in top right corner then scanning the 2D bar code or entering thermostat DKNS # manually.
  - The 2D bar code is found on the terminal subbase.
  - DKN # is found by navigating through the thermostat menus.
- Zone board configuration can be seen by sliding the toggle button to the right.
  - If a thermostat is connected to a zone board and not zone one, then equipment info will not be available.





# Connect To The Thermostat Using AP Mode

- On selection of any task, internet connection will need to be verified before the user can continue setup.
  - If the Wi-Fi icon is grey, the system is not connected to Wi-Fi.
- To connect to Wi-Fi, first click on “apply system profile”
- On the thermostat, press and hold the fan button for 5 seconds.
  - Release the fan button and press the down button to continue.
  - Approximately 10 seconds to enter AP mode.
    - AP mode must be active before tapping discover device.
  - When connecting to the thermostat's access point, the mobile device MUST be within two feet.

The screenshots show the following steps:

- Step 1: Selecting "apply system profile".** The screen shows a list of tasks under a job titled "GTST | 2212000001 | zone 1". The "apply system profile" option is highlighted with a blue box and circled in blue. The text "Scan the bar code found on the back of the thermostat package or back of thermostat." is displayed above the list.
- Step 2: Preparing the thermostat.** The screen displays instructions: "For best connection to thermostat" and "Keep your mobile phone within 2 feet from the thermostat to insure a good connection to the WiFi access point." It includes an illustration of a smartphone and a Goodman thermostat with a signal icon between them, labeled "2 feet". A blue "OK" button is at the bottom.
- Step 3: Connecting to the thermostat.** The screen shows the thermostat display with "WIRELESS" and "AP MODE ACTIVE" messages. The text "1. Press the fan button for 5 seconds." is above the thermostat image. Below the thermostat, a blue "Discover Device" button is shown, and a note says "Thermostat will display CONNECTED when connected to this app."

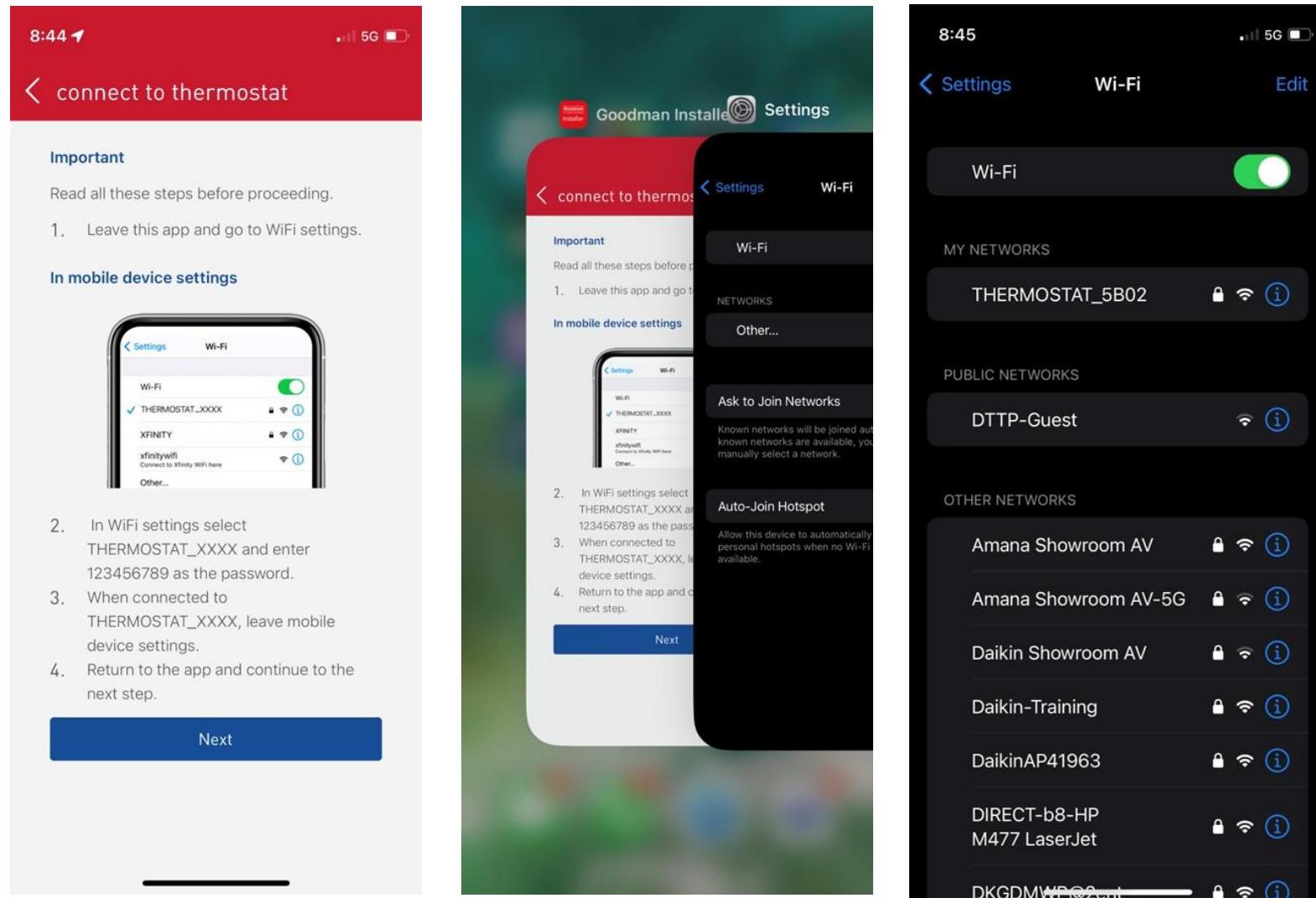


# Connect To The Thermostat Using AP Mode

- The user will be prompted to open the mobile device's Wi-Fi settings and connect to the thermostat Wi-Fi.
  - Password: 123456789

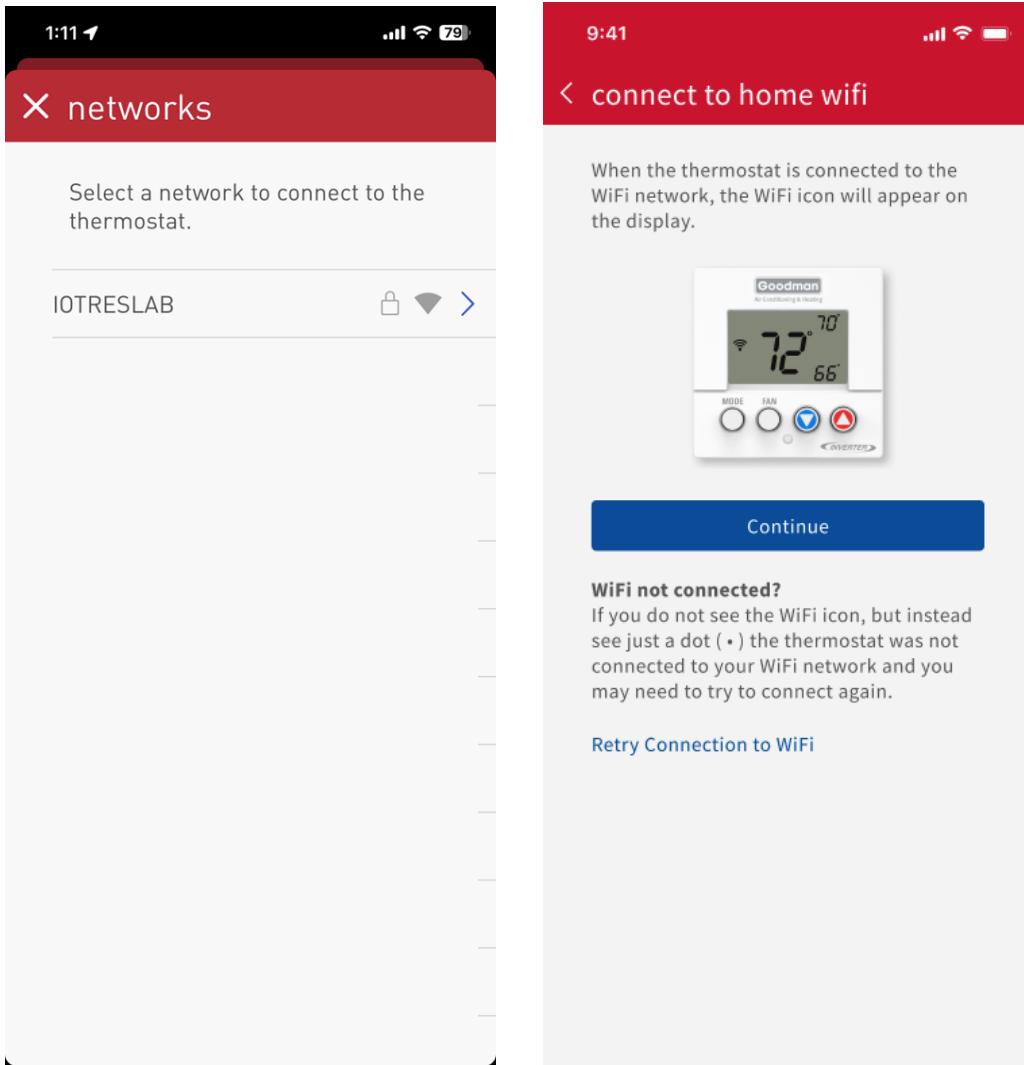
**NOTE:** The Goodman installer app. must remain open while accessing the mobile device's Wi-Fi settings.

- A message will appear at the top of the thermostat's UI informing the user that their mobile device is connected to the access point.



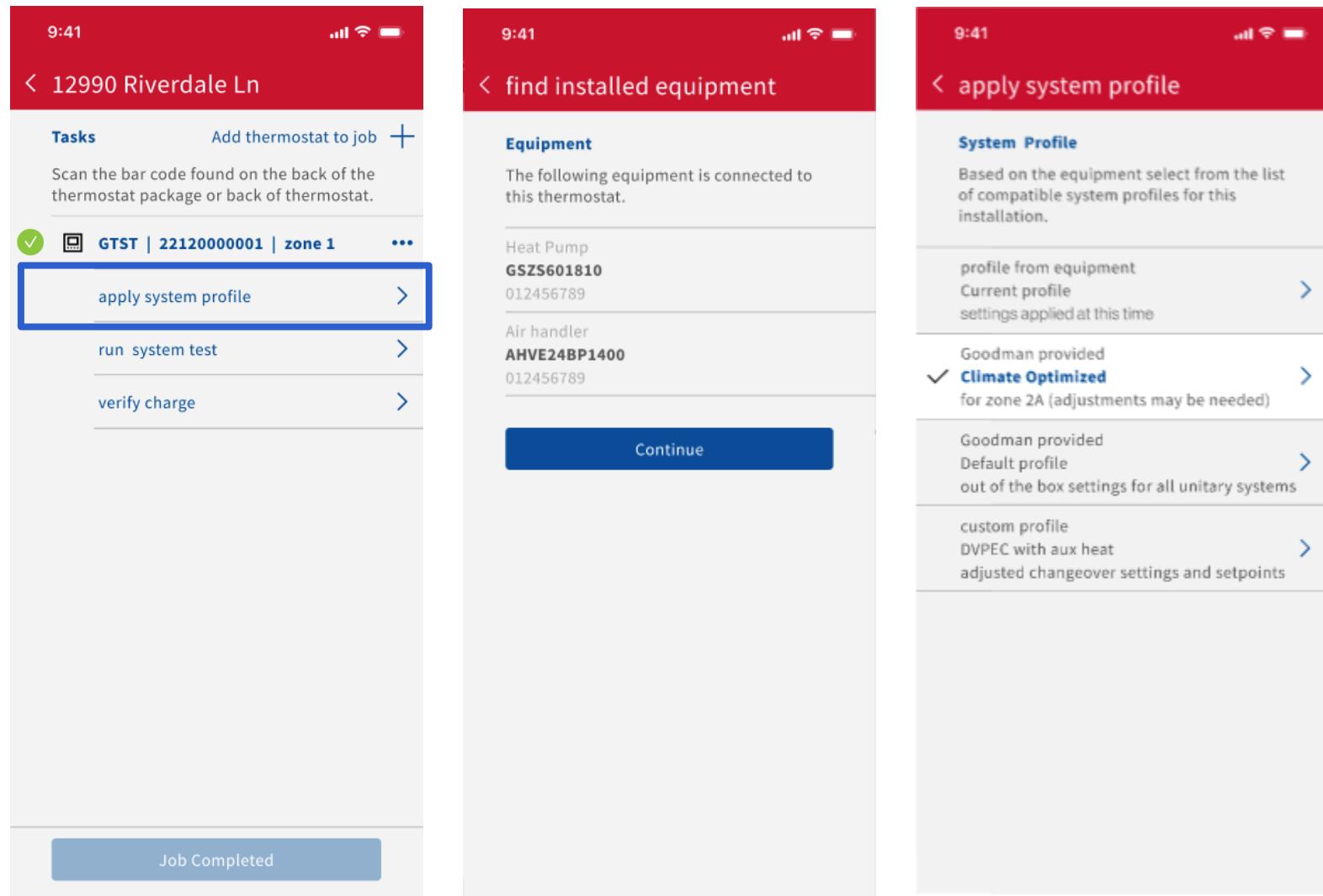
# Connect To Home Wi-Fi

- Once connected to the thermostat, following the “Cloud Commissioning” process, the user can connect to a local Wi-Fi network and no longer need to maintain a 2ft. distance from the controller.
  - Must be password protected.



# Apply System Profile

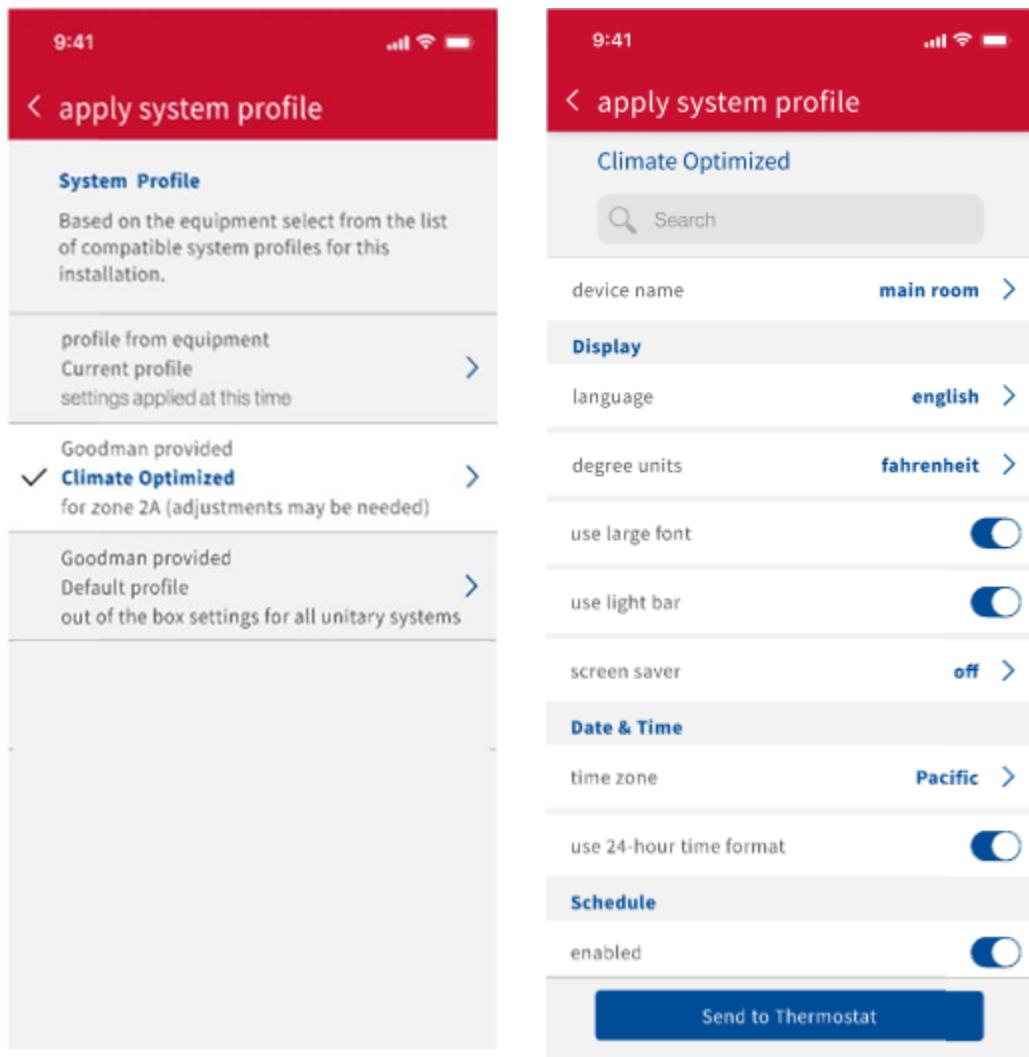
- A list of the connected equipment will be populated once connected to Wi-Fi.
  - Verify equipment, then continue to view thermostat profile options.
  - Once connected to Wi-Fi, the green  icon will be displayed. If access is expired, then the user will see the no access icon .



# Apply System Profile (continued)

- You can select and or modify any profile to send to the thermostat.
  - Make edits as needed, then tap “Send to Thermostat”

**NOTE:** Modifying the profile does not affect the default profile



# Run System Test

- Running system test will prompt the user to calculate the charge before running the test.
  - Measure total line set length, then select liquid and suction line diameter before calculating required trim charge.
  - Input the actual charge weighed in.

The screenshots illustrate the sequence of steps in the Goodman mobile application:

- Step 1: Job Overview**

Shows a job at "510 Silverdale Dr" with tasks: "Add thermostat to job", "run system test", and "verify charge". A "Job Completed" button is at the bottom.
- Step 2: System Test Initiation**

Shows the "system test" screen with a note about charge by line set length. It includes a "Calculate" button and a note about the Goodman cloud commissioning support.
- Step 3: Charge Calculation**

Shows the "calculate charge" screen with a diagram of a system. It asks for total line set length and liquid/suction line diameters. The "total line set length" input field is highlighted with a red box.
- Step 4: Actual Charge Input**

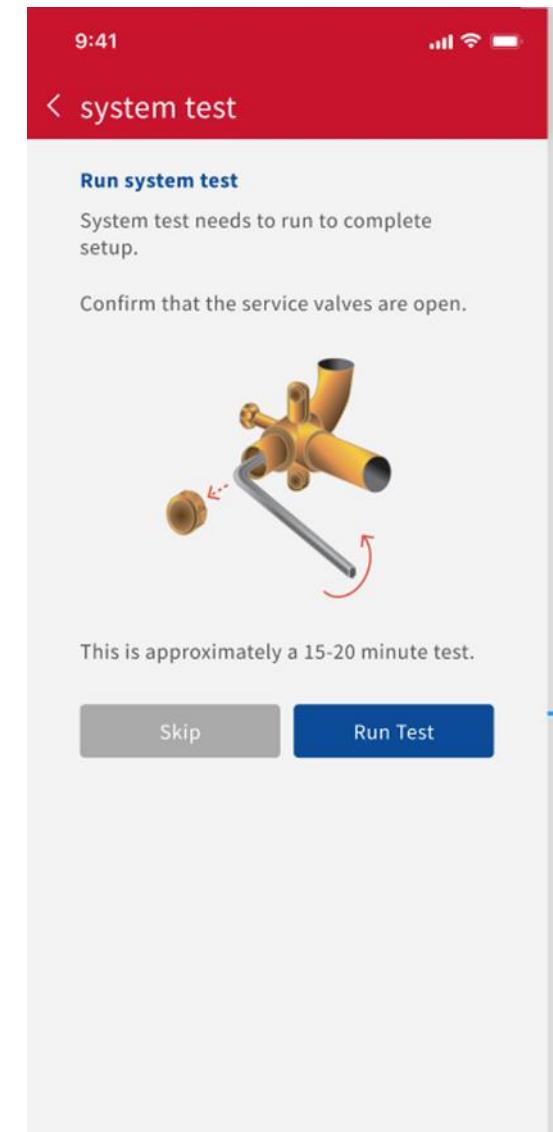
Shows the "system test" screen again, now prompting for the actual weight added. The "weight" input field is highlighted with a red box.



# Run System Test

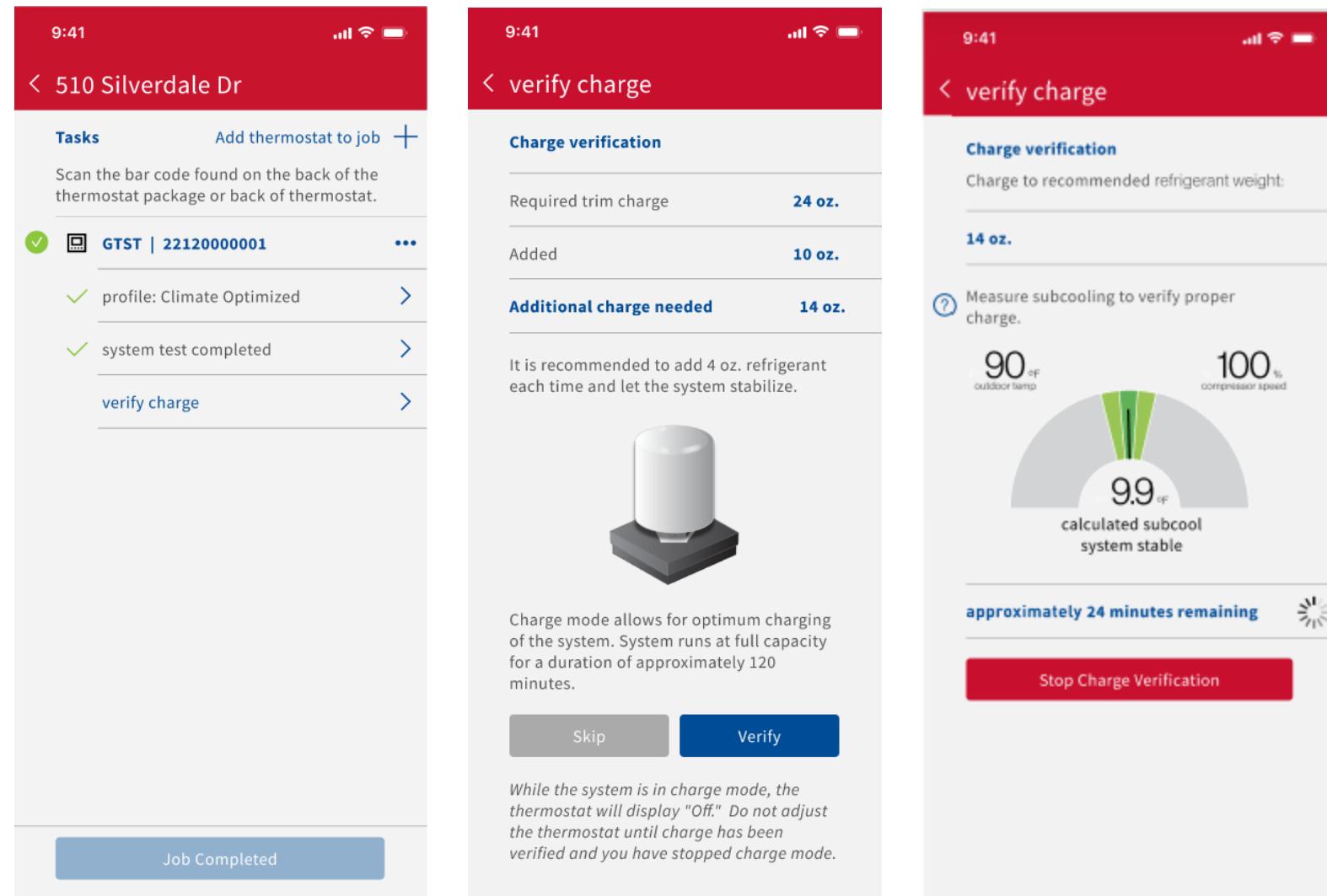


- Verify service valves are open.
  - Tap “Run Test.”
  - Users can leave the screen while the test is running and return as needed.
  - System test is required for inverter systems.
    - If the test has not been completed an error code "11" will be generated.
    - Error code "11" will clear once the test is complete.



# Run System Charge Verification

- Recommended charge to be added to meet required charge displayed.
- Measure subcooling and verify proper specifications are met utilizing the charging chart in the IOM.
- Once system stabilizes and is running at full speed, the calculated sub-cool will be displayed.
  - Allow up to 5 min delay between gauge reading and app. verification.
  - Stopping the verification will generate a report.



# Complete Setup

- After all steps are complete, the user will be able to share a commissioning report before completing the job.

The image displays two side-by-side screenshots of a mobile application interface, likely for a smartphone or tablet.

**Left Screenshot:** The top status bar shows the time as 9:41 and battery level. Below it, a header bar indicates the location as "510 Silverdale Dr". The main content area has a title "Tasks" and a sub-section "Add to委任". A list of tasks is shown, each with a green checkmark and a blue "Edit" icon:

- Scan the bar code found on the thermostat package or back
- GTST | 22120000001
- profile: Climate Optimized
- system test completed
- charge verified

A message below the tasks states: "A report has been generated." followed by a "View report" link.

**Bottom Bar:** A large blue button at the bottom says "Job Completed".

**Right Screenshot:** The top status bar shows the time as 9:41 and battery level. The header bar has an "X" icon and the text "commissioning report". Below the header is a message: "Select a report to view:" followed by two buttons: "Dealer" (blue) and "Homeowner" (grey).

The main content area is titled "Dealer Commissioning Report" and features the "Goodman" logo. It includes the following details:

- Created by: Mark McDonald
- Date: Feb 21, 2023
- Job ID: 22120000001
- Location: Sugar Land, TX 77479

A note states: "The attached report captures system settings and configurations for the selected system. It is intended for the review and analysis of system performance and input performance and efficiency of installed equipment. It should always be confirmed by qualified and licensed HVAC professionals. Safety requirements, including a Dealer Commissioning Report at the completion of every system installation. Descriptions are provided for reference but should NOT be used in place of installation instructions. For technical support and troubleshooting questions contact your local Goodman distributor."

The report is organized into several sections:

- Setup:** Includes fields for Operator Type (Dakota One Cloud), Home WiFi, Large Font, Language (English), Device Name (Goodman), and Degree Units (Fahrenheit).
- Tests Plan:** Shows the following tests:
  - Refrigerant: Optimized (selected)
  - Filters: Cleaning (selected)
  - Charging: Free (selected)
  - Heat Pump: Heat Pump Defrost (selected)
  - Gas: Gas Free (selected)
- Thermostat:** Details for the "GTST4000LA-10-A" Dakota One Smart Thermostat:
  - Serial #: 123456789
  - Thermostat ID: DOL123456789
  - Programmable: Yes
  - Temperature Range: 23.7
  - Previous adjustments: NO-NOPP (Upper and lower thermostat set-point limits, deadbands)
  - Deadbands: Separation between heat and cool setpoints (HPT & CPT mode)
  - Comments: Adds cooling beyond setpoint for better dehumidification. The overcool values are multiplied on the deadbands, increasing the range to 100HPT & 100CPT (maximum deadband differential of at least 2°).

At the bottom of the right screenshot, there is a navigation bar with arrows and the text "1 of 6", and a blue "Share Report" button.





**Thank goodness for Goodman.**

