

Nuve Wireless Sensors

Installation & User Guide

May 2026

Sensor Types

Nuve Wireless Sensors are available in two types:

- ◆ **THS – Temperature & Humidity Sensor**

Measures ambient temperature and humidity to improve comfort accuracy.

- ◆ **WLS – Water Leakage Sensor**

Detects water presence and triggers alerts to prevent damage.



System Overview

- Up to **16 sensors** can be paired to one thermostat.
- Each sensor has a **unique serial number (S/N)** for identification.
- Sensors communicate via **915 MHz secure low-power radio (not Wi-Fi)**.
- Range: Up to **45 feet** (14 meters) (may vary due to walls or interference).

Adding a Sensor (Pairing Process)

Step 1 - Battery Installation

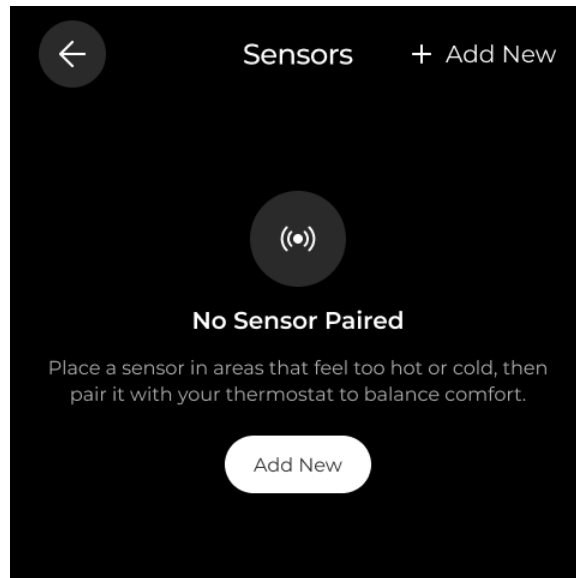
1. Unscrew and open the back cover.
2. Insert **1 AAA Alkaline battery** (available in the box)

Do not close the cover yet — you need to pair the sensor first.



Step 2 – On the Thermostat

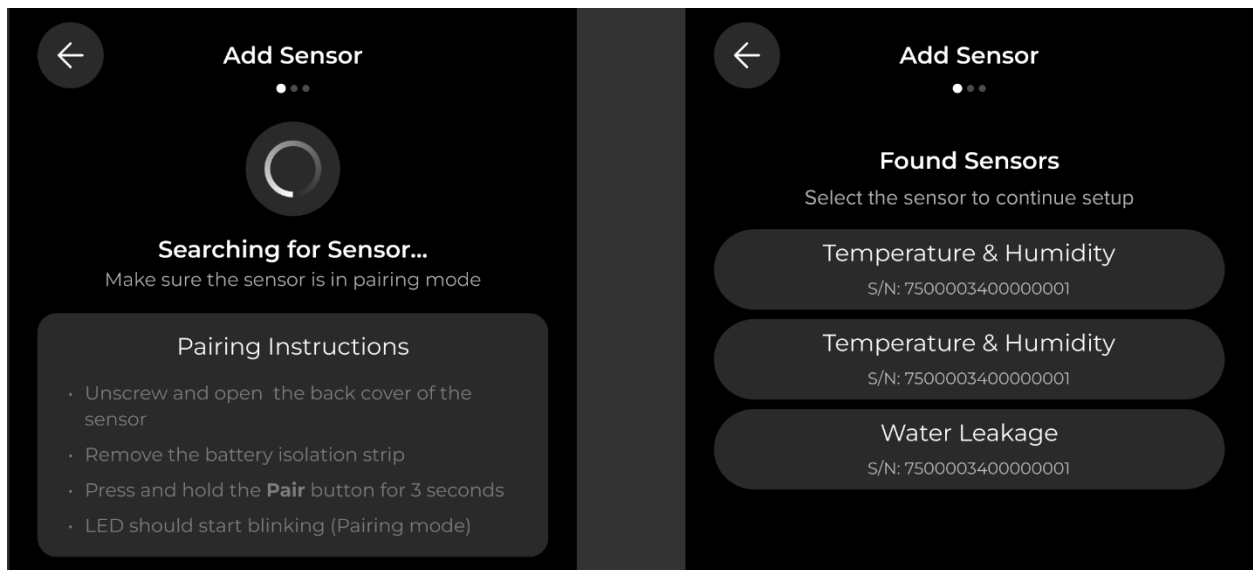
1. Open **Menu on the Thermostat**,
2. Tap **Sensors**, Tap **Add**
3. Follow on-screen instructions



Step 3 – Activate Pairing Mode

1. Press and hold the **Pair button for 3 seconds**.
2. Blue LED on the Front side of the Sensor will start **long flashing** (Listening Mode).

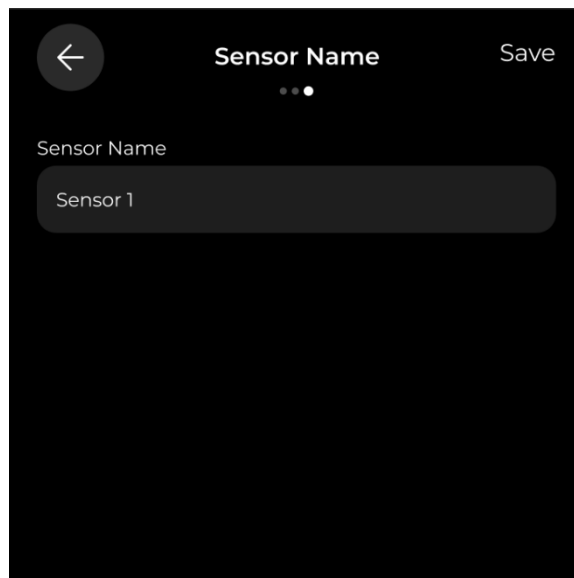
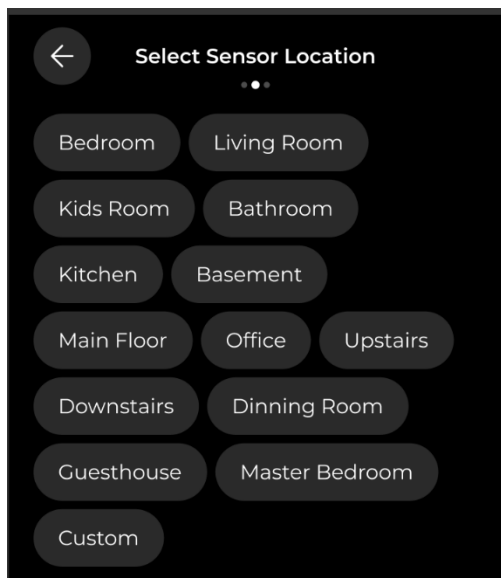
Pairing mode remains active for **5 minutes**.



Step 4 – Sensor Found

When detected:

- Sensor type (THS or WLS) + S/N appears on screen.
- Select the sensor.
- Assign a **Name** and **Location**.



Sensor LED Status Guide

LED Behavior	Meaning
 Long Flashing	Pairing / Listening Mode
 Steady Blue	Successfully Paired (turns off after 30 sec)
 Quick Flashing	Not Communicating

Placement Guidelines

DO

- Place THS approx. **5 ft (1.5m)** above floor.
- Place WLS near water sources (sink, heater, HVAC pan).

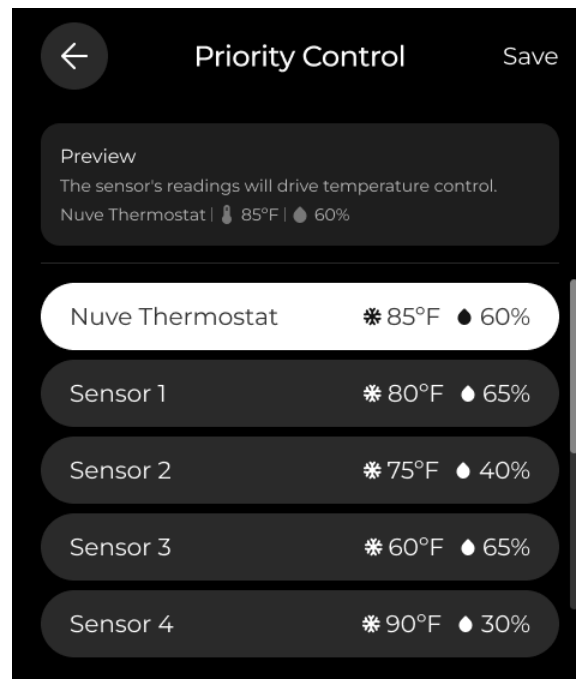
DON'T

- Don't place behind furniture.
- Don't expose the sensor to direct sunlight.
- Don't place above the vents.
- Don't place this product near a heat source.
- Don't place it in an enclosure unless there is normal ventilation.

Data Reading Priority (Temperature & Humidity)

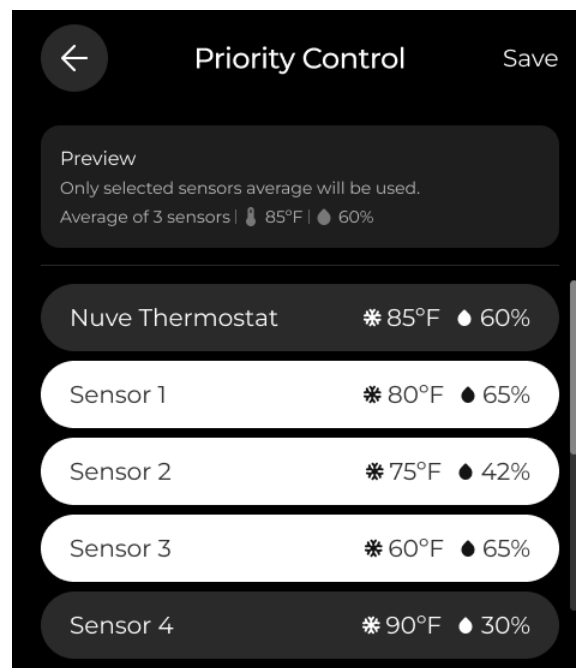
One Sensor Selected

System uses readings from that sensor only.



Multiple Sensors Selected

System averages only selected sensors.



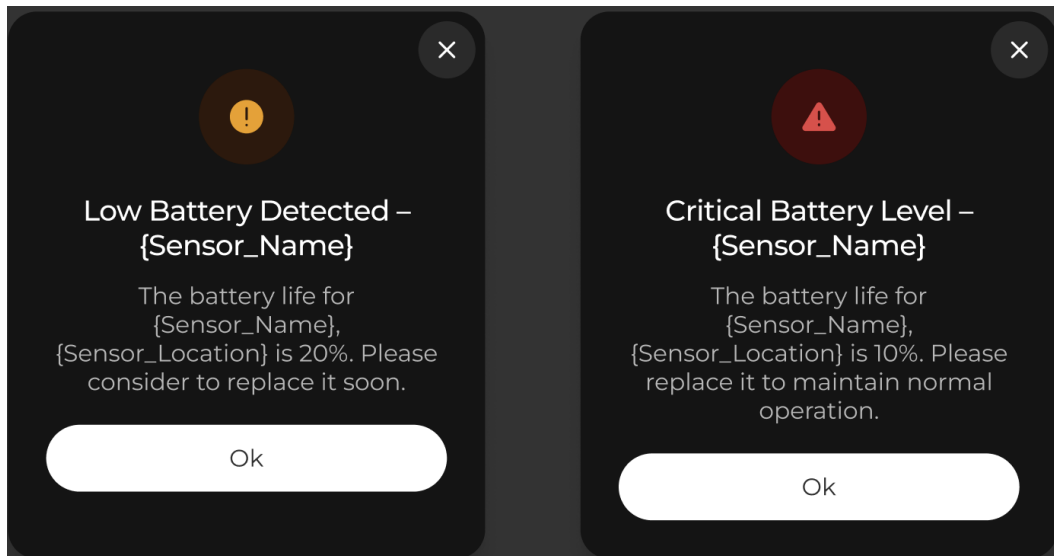
If Selected Sensor Disconnects

- System falls back to built-in thermostat sensors.

Alerts on the Thermostat

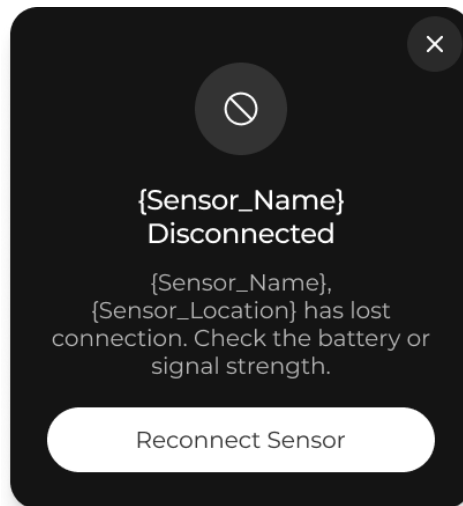
Low Battery

- 20% → Orange indicator
- 10% → Red indicator



Sensor Disconnected

Displayed if sensor loses communication.



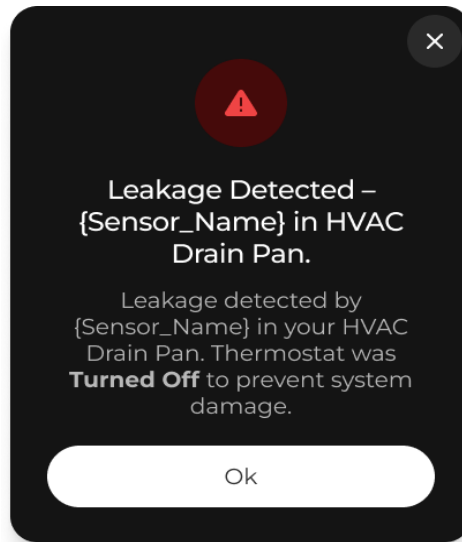
Water Leakage Detected (WLS)

Immediate pop-up alert on screen.

If location is **HVAC Drain Pan**:

- Thermostat automatically switches to **OFF**

- Preventing HVAC system damage



Water Leakage Notifications

Customer Receives:

- Thermostat alert
- Push notification
- Email notification

HVAC Drain Pan Case:

- Thermostat turns OFF automatically
- Email sent to Customer
- Escalation possible to Contractor

Escalation Rule

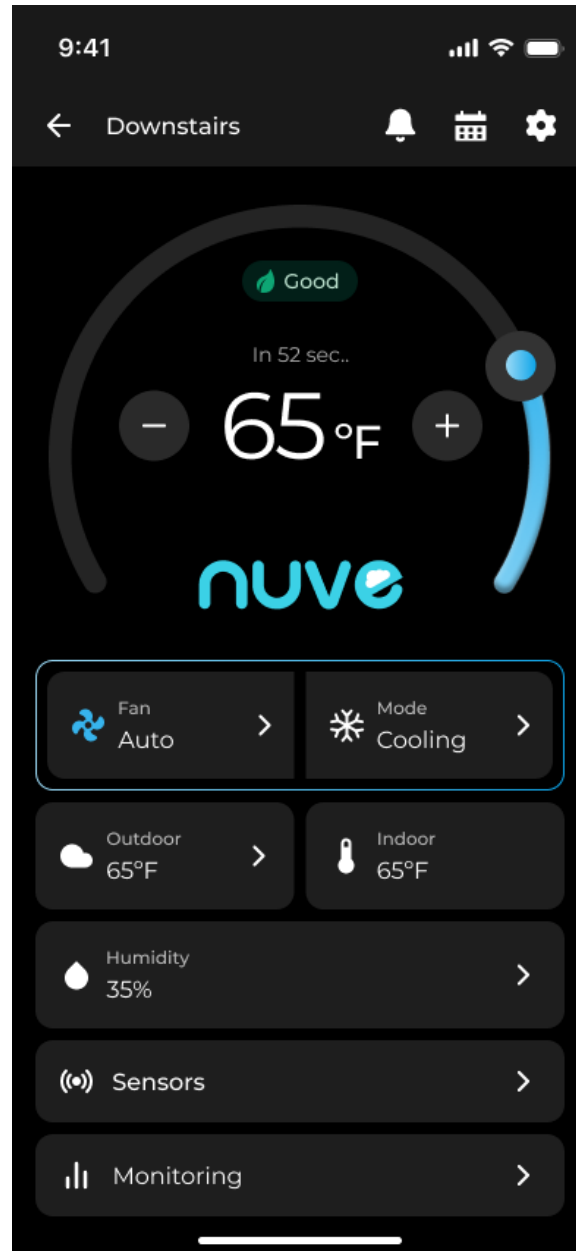
If alert remains active for **2 hours**:

- Alert escalates to Contractor Dashboard
- Contractor email sent

On the Mobile App

After pairing on the thermostat:

- Sensors appear automatically in the Mobile App.
- Adding sensors via app is **not supported**.
- Only Account Owner can change priority.
- Shared users have **view-only access**.



Sensors in Schedule

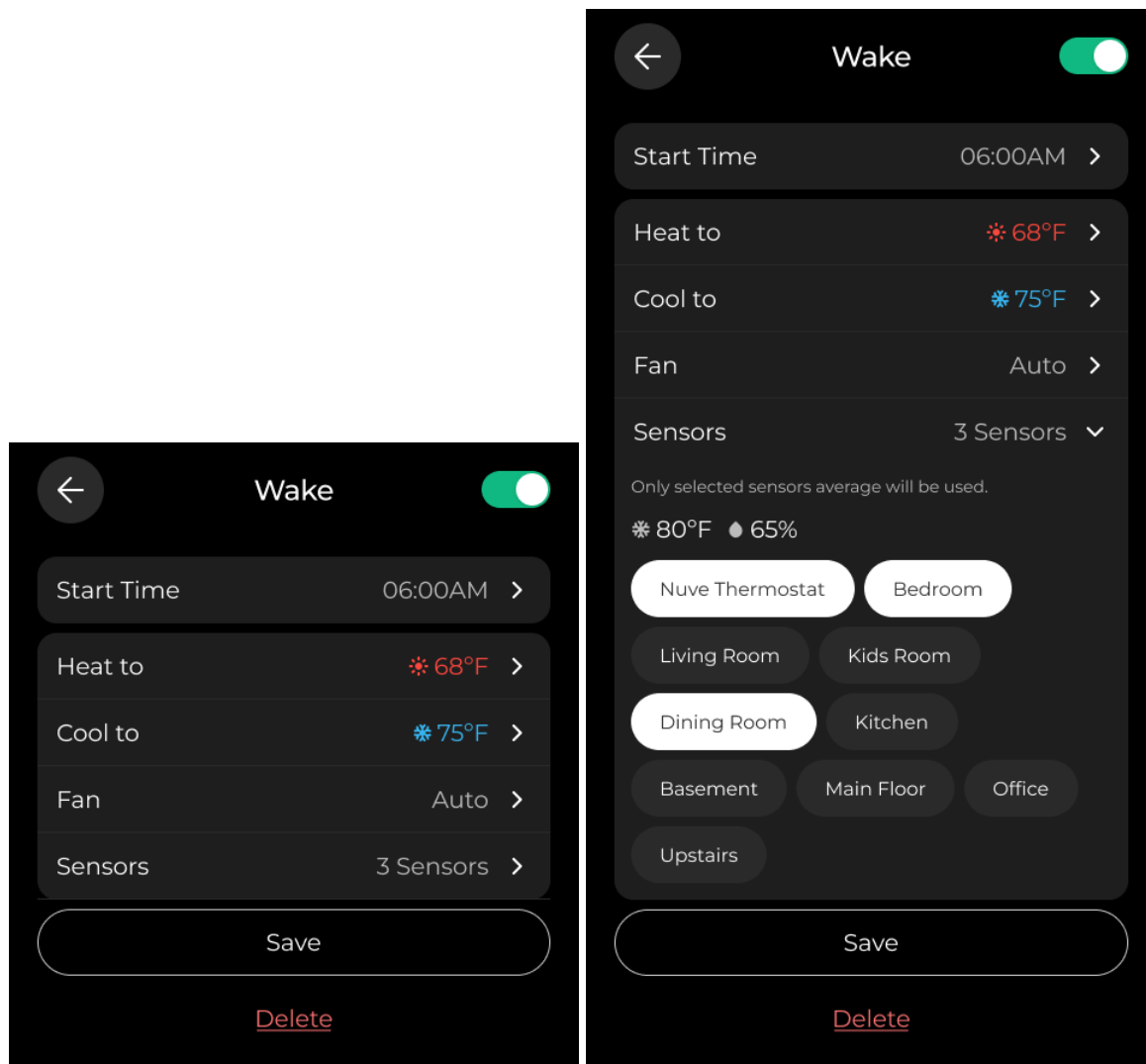
Sensors can participate in specific Activities.

Example:

- Bedroom sensor active only during **Sleep**

- Excluded during daytime

Note: The Sensors section appears only if sensors are paired.



Troubleshooting

Sensor Won't Pair

- Ensure within 45 ft
- Confirm pairing mode active
- Replace battery if needed

If no sensor is found within 3 minutes:

"No pairing sensor found. Please make sure the sensor is in Pairing Mode and within the connection range (up to 45 feet)."

Message displays for 15 seconds, then returns to previous screen.

Maximum Sensors Reached (16)

“Add Sensor” button becomes disabled.

Message:

“You have reached the maximum number of paired sensors (16). To add a new one, please remove an existing paired sensor.”

Sensor Moved Out of Range

- Sensor LED: Quick Flashing
- Thermostat: Shows Disconnected icon

Technical Specifications

Communication:

915 MHz secure radio (non-Wi-Fi)

Range:

Up to 45 ft (15m) -obstacles may reduce range

Battery:

1 AAA Alkaline (~1 year lifespan)

Extreme temperatures may reduce battery life.

Warnings

- This product is NOT a toy. Please keep children away from this product.
- This product is designed for indoor use only. Do NOT use in humid environments or outdoors.
- Do NOT attempt to repair this product by yourself. All repairs should be performed by an authorized professional.
- This product is only suitable for improving the entertainment and convenience of your home life. If a user violates the product use instructions, the manufacturer will NOT be liable for any risks and property losses.

CAUTION

- Risk of explosion if the battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.
- Do not ingest battery, Chemical Burn Hazard.
- Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

FCC ID

Federal Communications Commission (FCC) compliance statement:

1. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference, and
 - (2) this device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

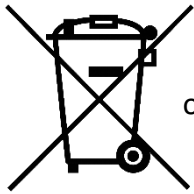
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

RF Exposure statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction.



WEEE Disposal and Recycling

Products bearing the WEEE symbol (Directive 2012/19/EU) should not be disposed of with unsorted household waste. These items should be taken to designated collection points for the recycling of waste electrical and electronic equipment.

Waste Disposal: Do not treat this product as household waste. Instead, hand it over to a designated collection point for recycling waste electrical and electronic equipment. Correct disposal helps prevent negative consequences to the environment and human health. Contact your installer or local authorities for more information on collection points.