



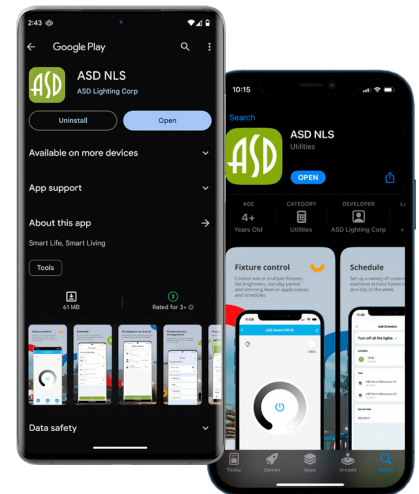
Getting started

Download the latest version of ASD NLS application
from Apple App Store (for IOS) or from Google Play Market (for Android)

Android



IOS



ASD NLS – an application for managing smart devices.
It is designed to configure and control smart sensors
of the ASD NLS series and other supported devices

Project Management – this function is designed to create projects
that are independent of each other and have their own objects,
areas and devices

Area Management – this allows you to create various objects,
zones, levels, floors, and rooms

Device Management – this feature helps you to manage smart devices,
create and manage device groups, and create work scenes for devices

Smart: Cloud intelligence – the function of device management
uses cloud technologies, allowing you to manage a large number
of devices connected to the Internet through the gateway.
This feature allows you to create schedules as well as automated scenarios

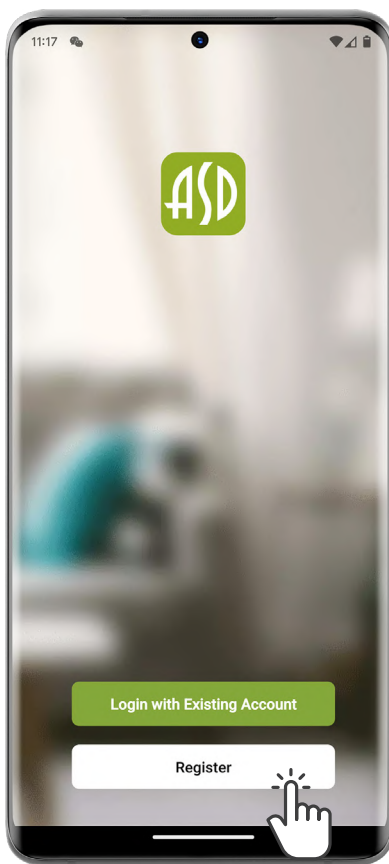
Data – displays the analytical data of the selected project.
Contains information about the number of devices in the project,
and other summary data



Register account

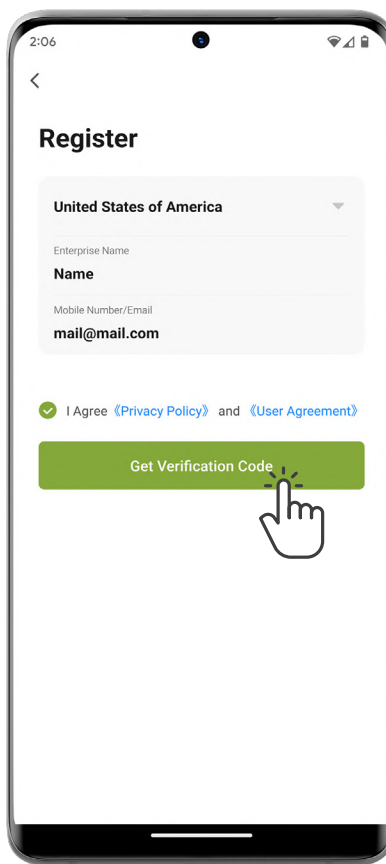
App self-registration allows for 1 project and up to 5 control devices.

If a higher quantity is needed, contact ASD Inside Support at orders@asd-lighting.com

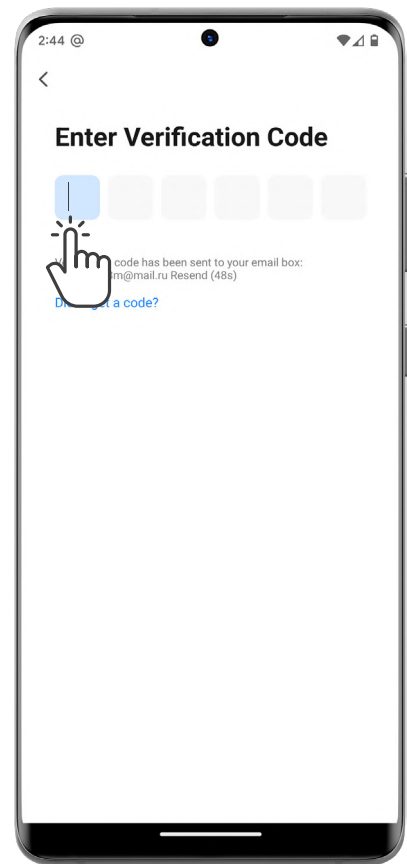


1 Tap **Register**

Login with Existing Account
log in if you already have account
registered in the United States



2 Enter your enterprise name
and your mobile phone or email.
Tap **Get Verification Code**



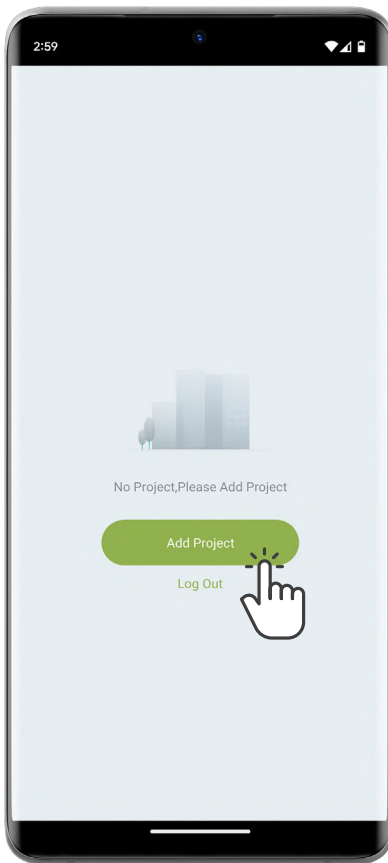
3 Enter the **Verification Code**
sent to your phone or email



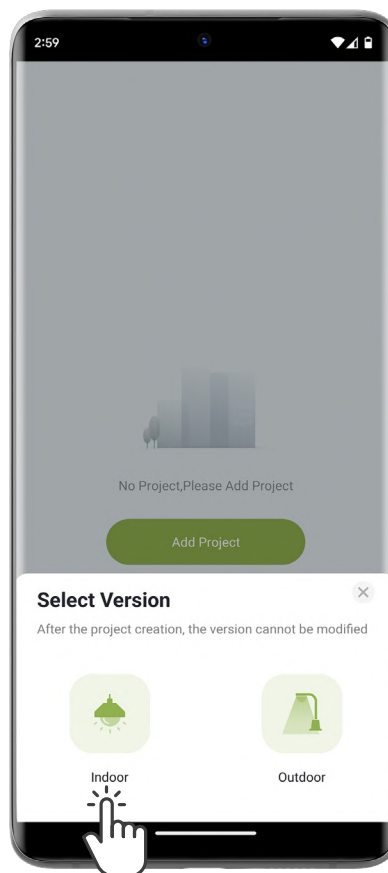
Project Management

Our application is designed specifically for industrial projects, so you will need to start with creating a new project, then add/control smart devices to it.

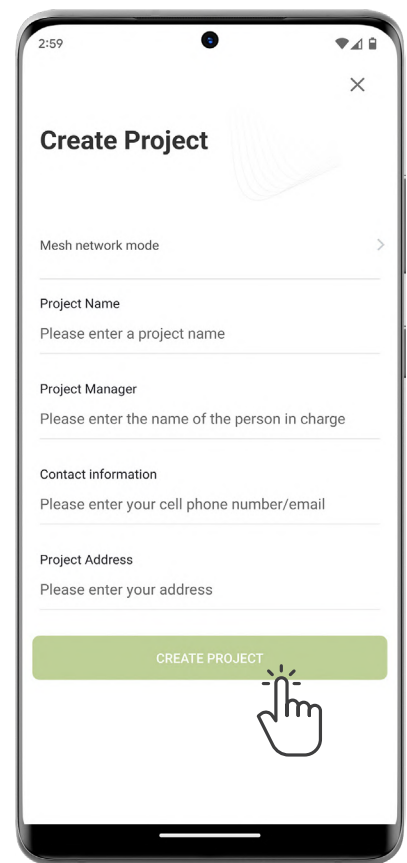
After the first launch, you will automatically be sent to the Project Management page to create a new project



1 Tap **Add Project**



2 Select the required version



3 Fill in all the fields and tap **Create Project**

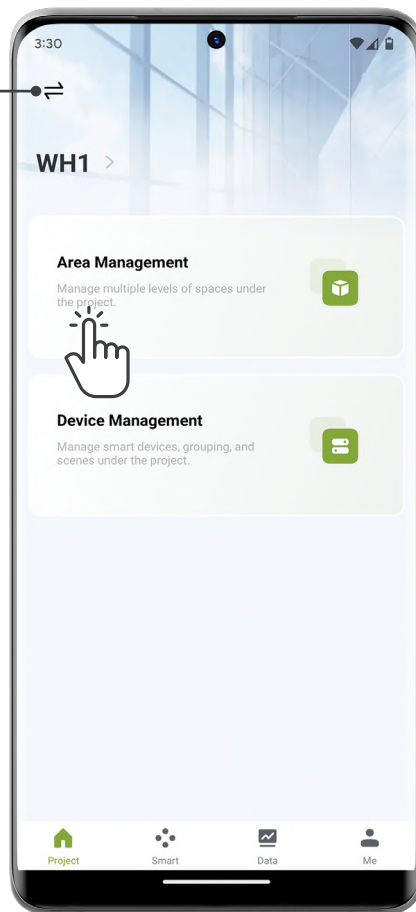


Area Management

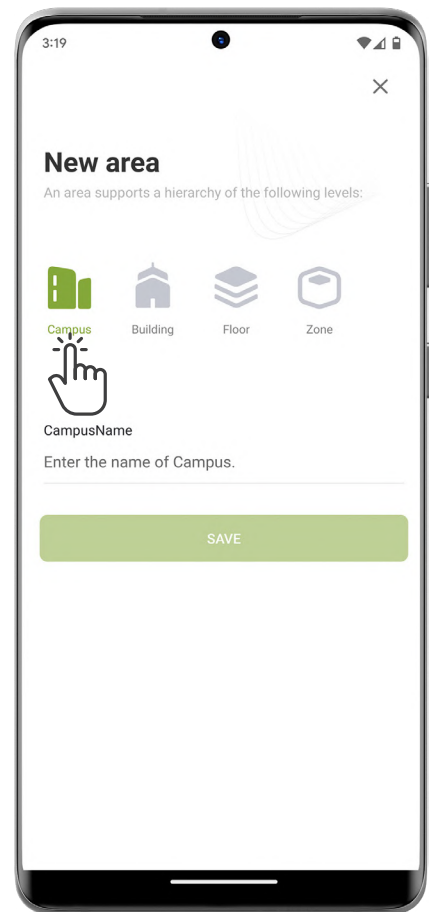
Area management allows you to create different levels and zones for more convenient control of different lighting groups



Tap to switch project or create a new project



1 Tap **Area Management**



2 Choose type of area, enter the name and tap **Save**



Adding a new device

Before you add a new device to the app, make sure it is in pairing mode.
By default, all new devices are in pairing mode.
The light indicator on the device should blink.

If the indicator does not blink, it needs to be put into pairing mode

Instruction for the Smart Sensors ASD-09 gen.

Mount the sensor on the device and apply power.
There are two ways to put your device into pairing mode:

First way

- 1 Turn the power **OFF** and **ON** three times
- 2 When indicator start blinking you can pair your device



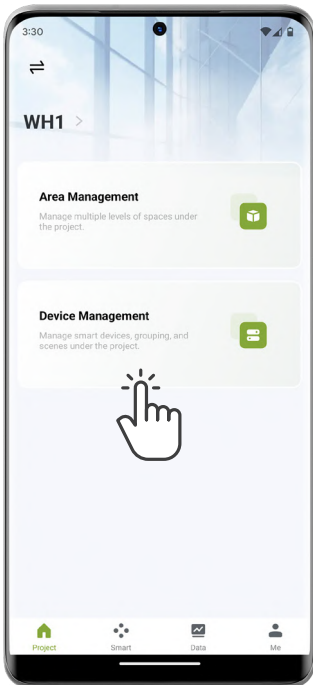
Second way

- 1 Using ASD-06RC remote controller, press the **Scene** button to put the device into pairing mode

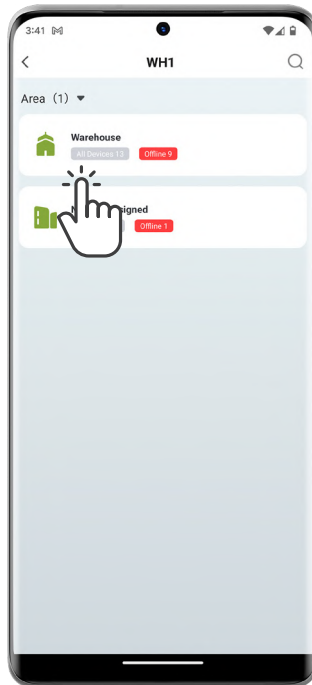
ASD-06RC remote control
sold separately



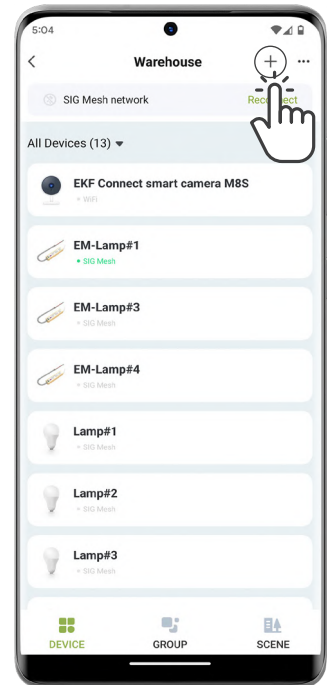
Adding a new device in the App



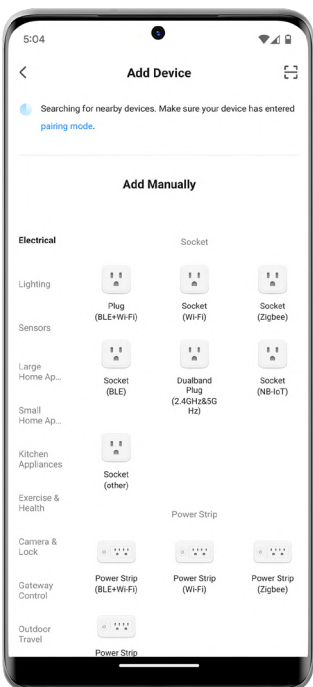
1 Tap **Device Management**



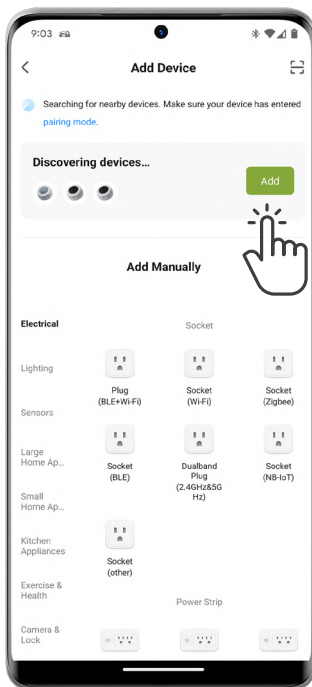
2 Select **Area**



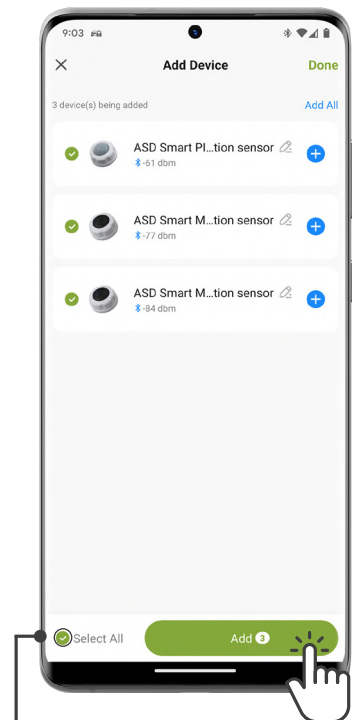
3 Tap + to add new device



4 The system starts an automatic search for devices in pairing mode



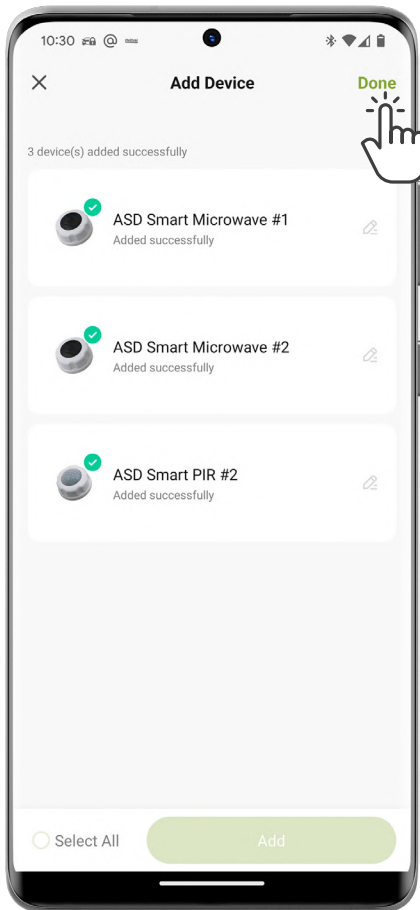
5 Tap **Add** when new devices are found



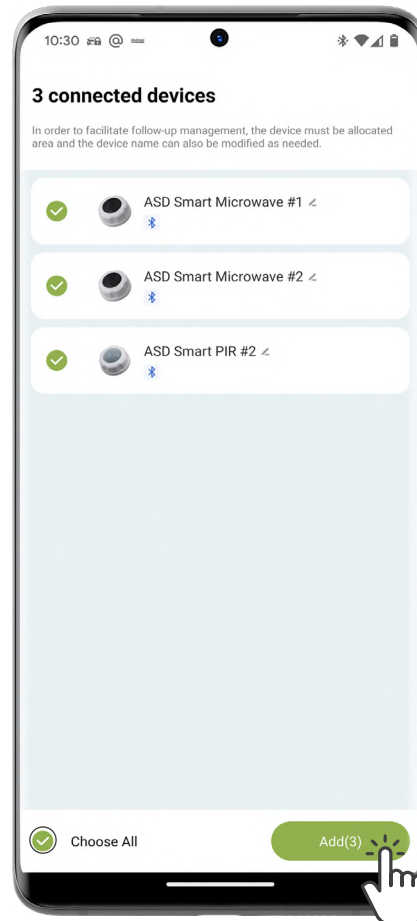
6 Tap **Select All** and then tap **Add**



Adding a new device in the App



7 Tap **Done**



8 Tap **Choose All** and then tap **Add**

Note: in step 7, you can rename the devices before adding them to the system



Using a Gateway

The gateway is necessary for remote control of sensors outside the range of the Bluetooth signal between the Sensors and the mobile phone with ASD NLS App.

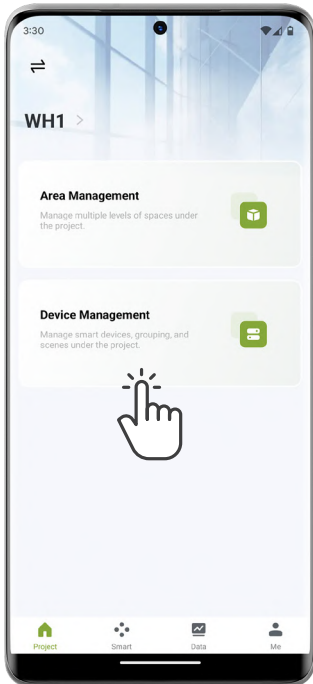
Gateway allows Bluetooth devices connected to your Wi-Fi or Ethernet to get access to the Internet.

This is necessary to control your Bluetooth devices via internet from mobile application on your smartphone or from Web interface using web browser on your PC

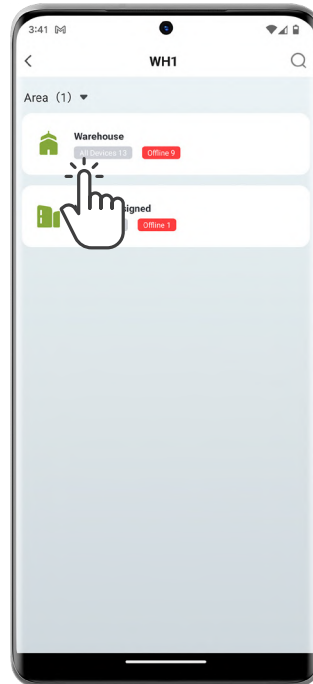
To install gateway:

- 1 Turn on your gateway and wait for the device to start
- 2 Add new device in Application

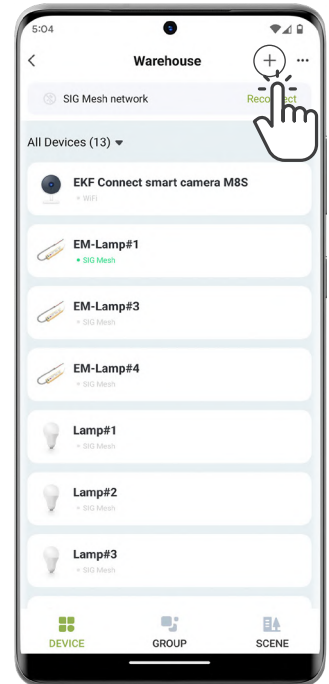
Note: before you add a Gateway to the app, make sure it is in pairing mode. To put device in Pairing mode, hold the «Res» button for 5 seconds



- 1 Tap **Device Management**



- 2 Select **Area**

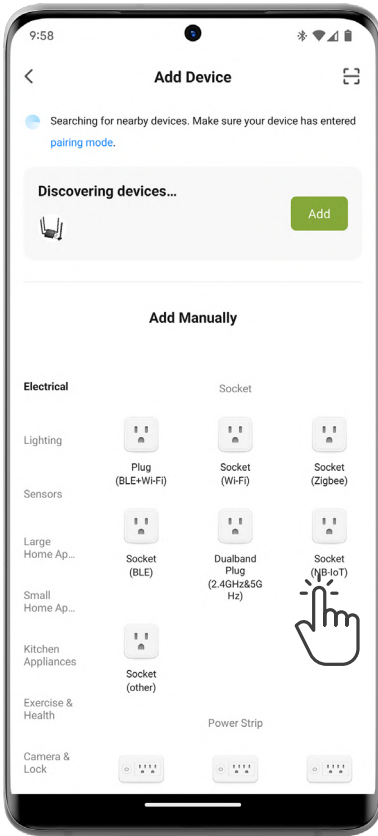


- 3 Tap + to add a new device

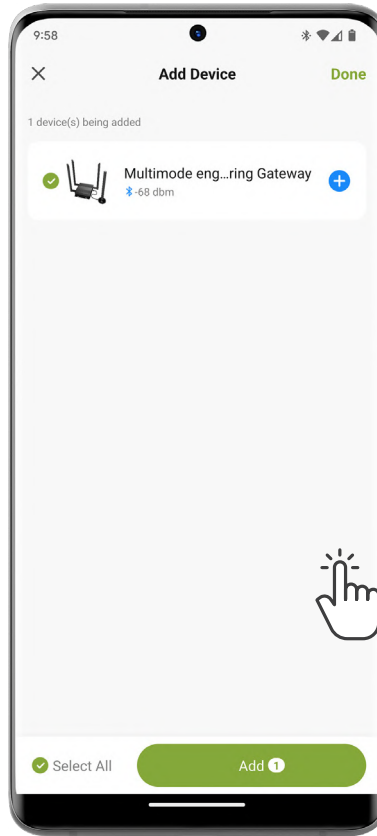


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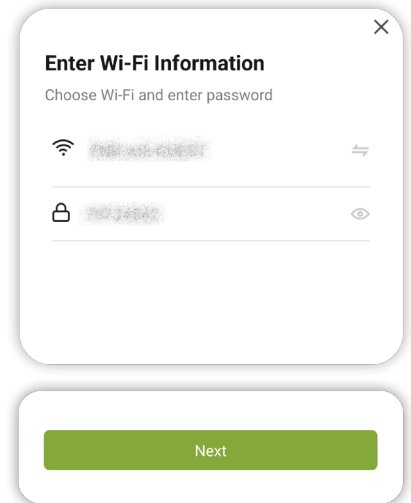
Using a Gateway



- 4 Tap **Add** when new devices are found



- 5 Tap +



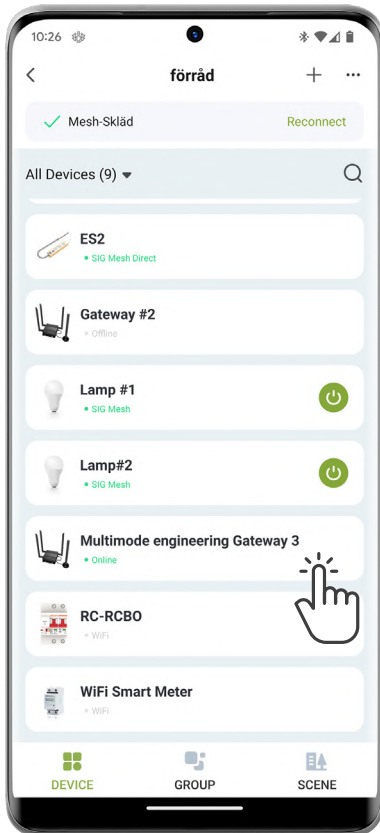
- 6 Enter your current WI-FI network name and password in the Enter Wi-Fi information window. Tap **Next**



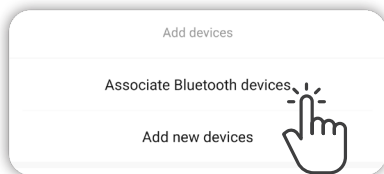
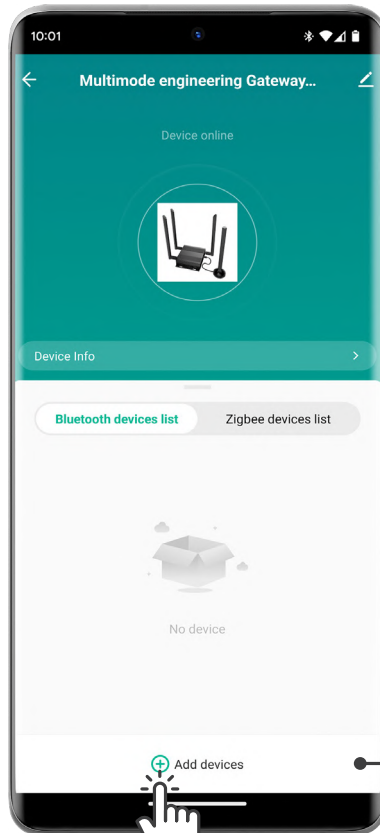
- 7 Select your device and tap **Add**



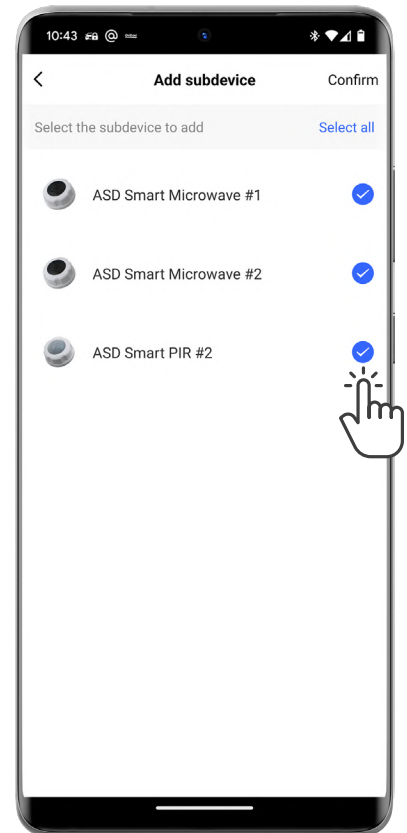
Binding devices to the Gateway



- 1 Find your **Gateway** and tap on it



- 2 Tap **Add device** button and then **Associate Bluetooth devices** button to bind already added devices



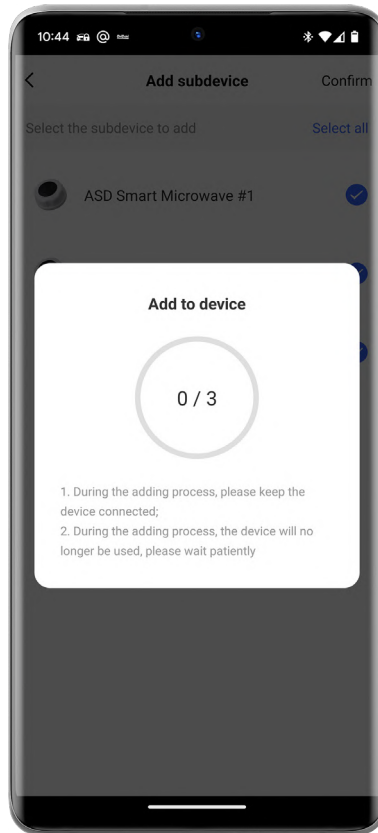
- 3 Select **Devices** to bind



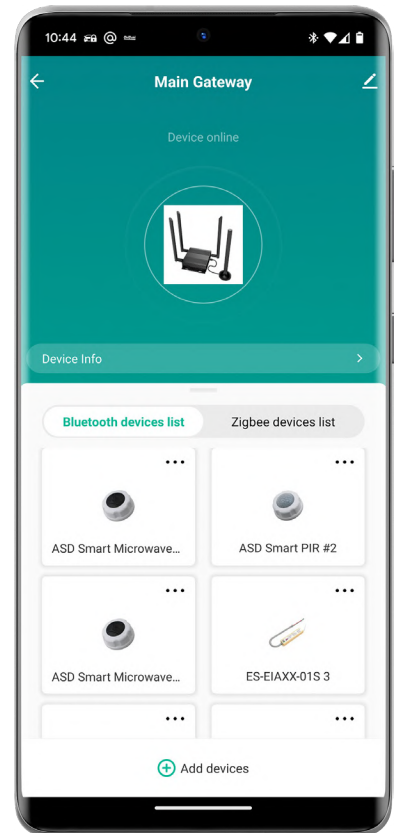
Binding devices to the Gateway



- ④ Check the **No More Notice** box and tap **Immediately Join**



- ⑤ Wait for the operation to complete



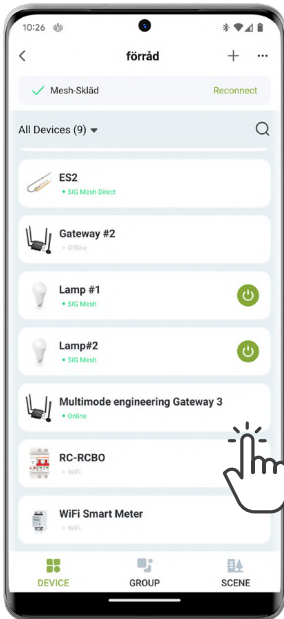
- ⑥ Now devices are bound and available to be controlled via **Gateway**



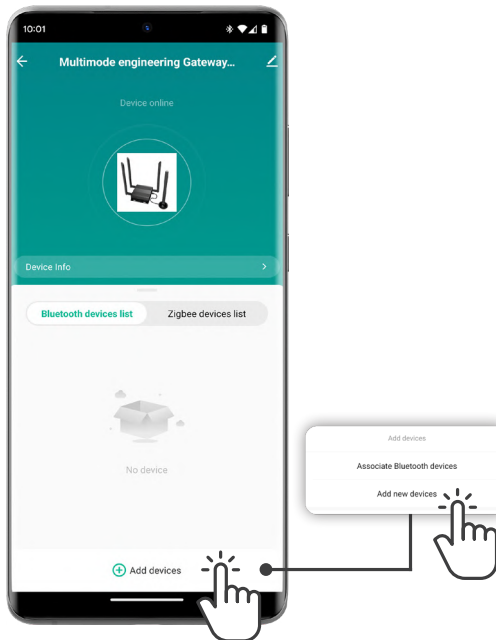
Adding new Bluetooth or Zigbee devices via Gateway

Gateway is also able to search for and add new devices.
Now devices are bound and available to be controlled via Gateway

Note: devices must be in pairing mode



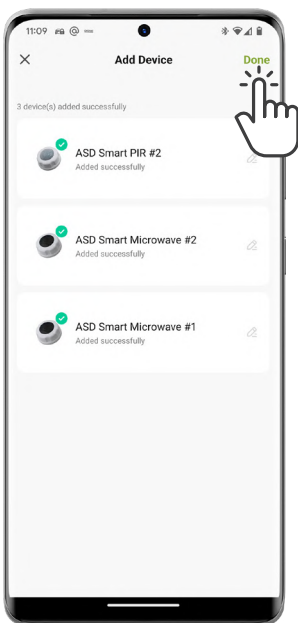
1 Find your **Gateway** and tap it



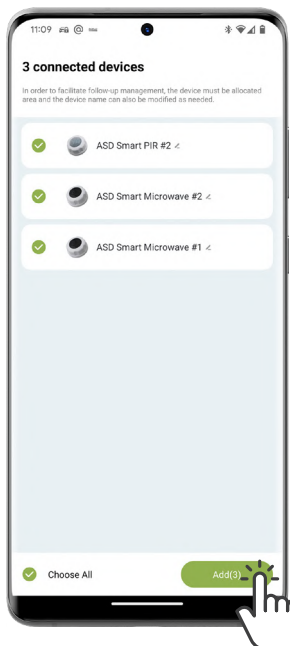
2 Tap **Add device** button and then **Add new devices** button



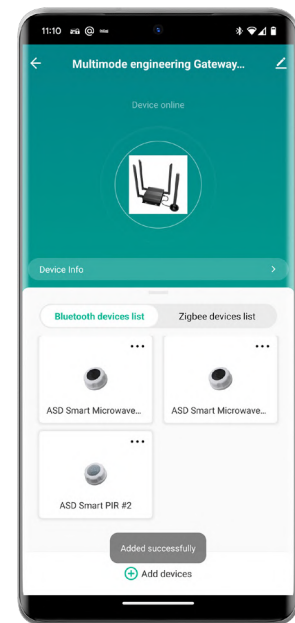
3 Wait until the gateway find all devices. Sometimes it may take some time. Tap **Done** button



4 Tap **Done** button



5 Select all devices and tap **Add** button



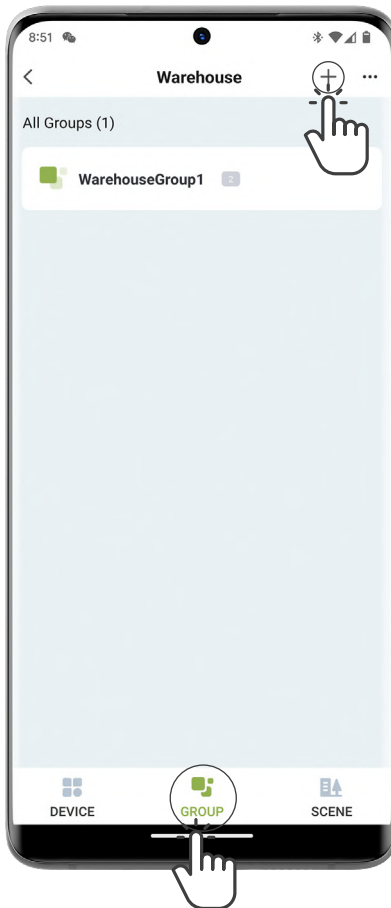
6 Now devices are bound and available to control via **Gateway**



NLS ASD Smart User Manual

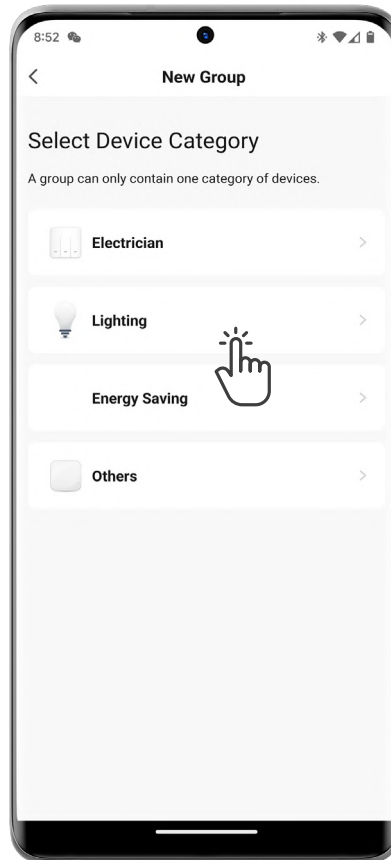
Create a group

Groups are necessary for simultaneous management of several devices at once

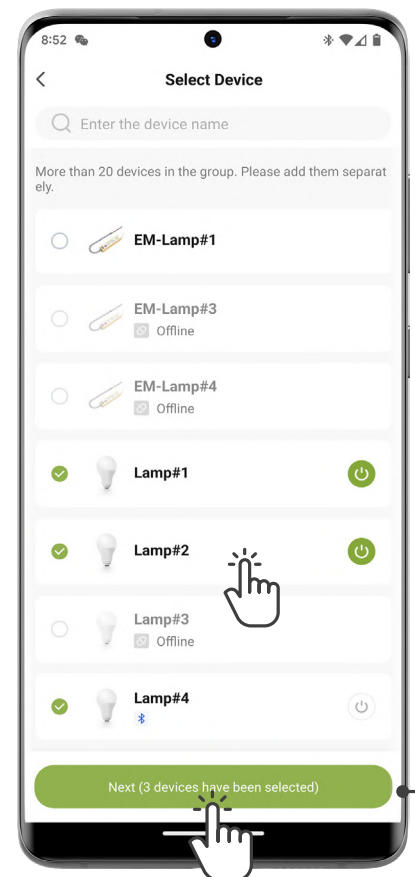


- 1 Tap **Group** icon and then **+** icon

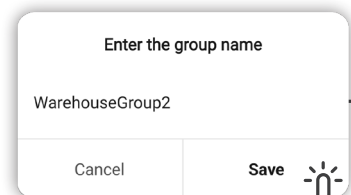
Note: one group can include no more than 80 fixtures. The group should consist only of sensors of the same type



- 2 Select type of devices



- 3 Select necessary devices and tap **Next**

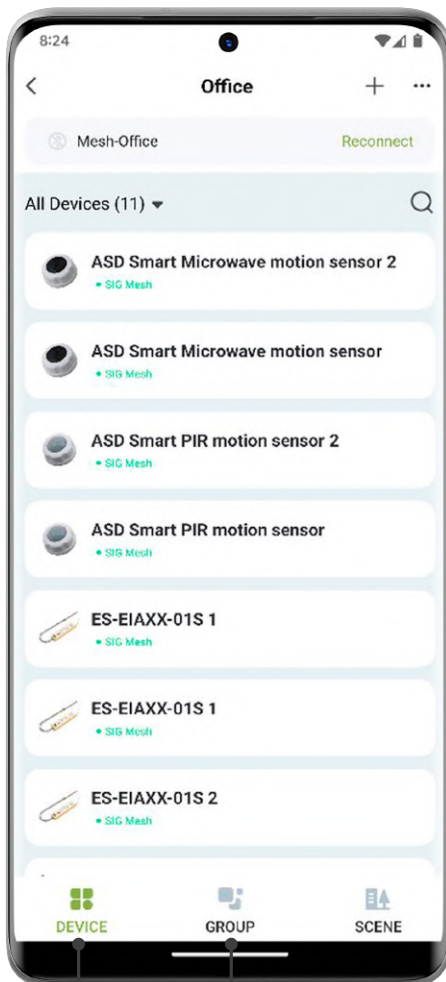


- 4 Enter the group name and tap **Save**



Light controls by the Smart Sensor

Tune and control a single unit or a group of fixtures

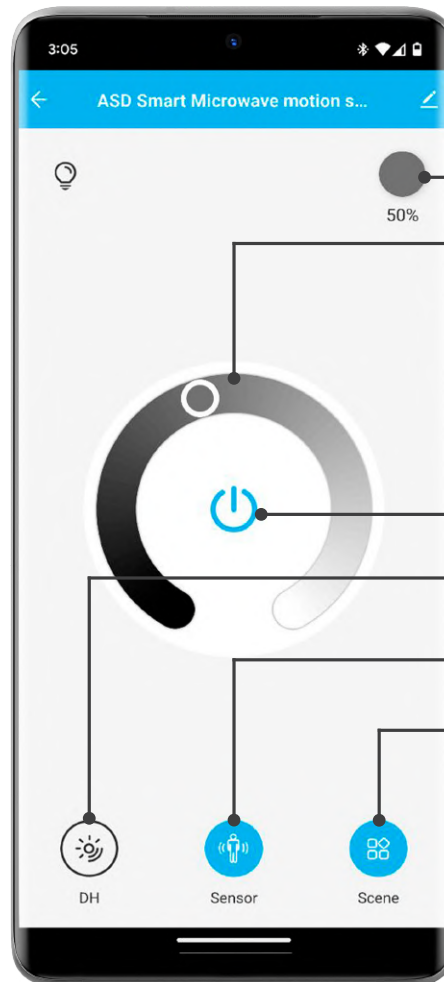


Single device



Group

- 1 Control fixture from the dashboard or enter the sub-menu for advanced control options



2 Brightness Level

3 Brightness Change

4 On / Off button

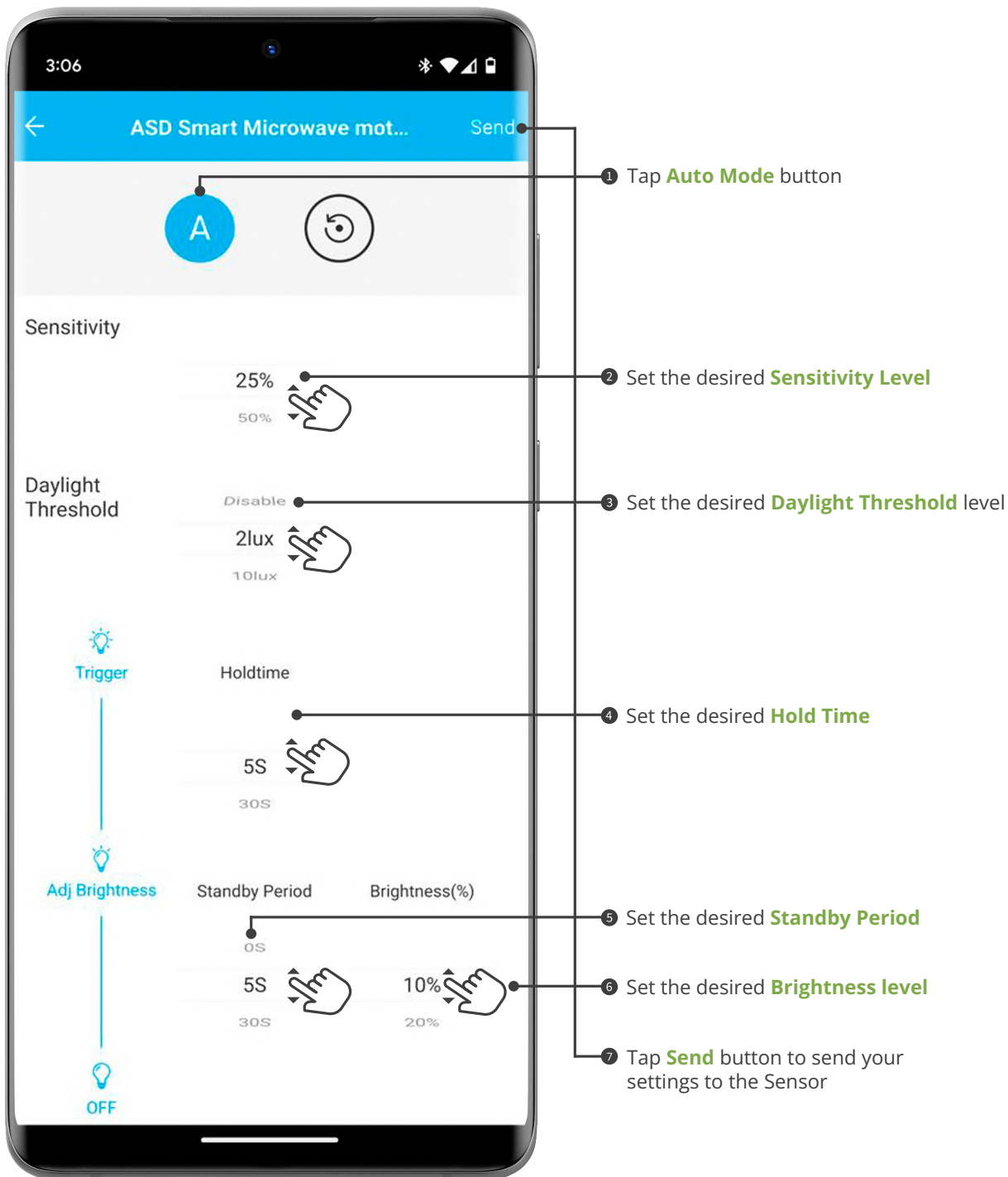
5 Daylight Harvesting On/Off button

6 Sensor Setting button

7 Scene button



Sensor Settings



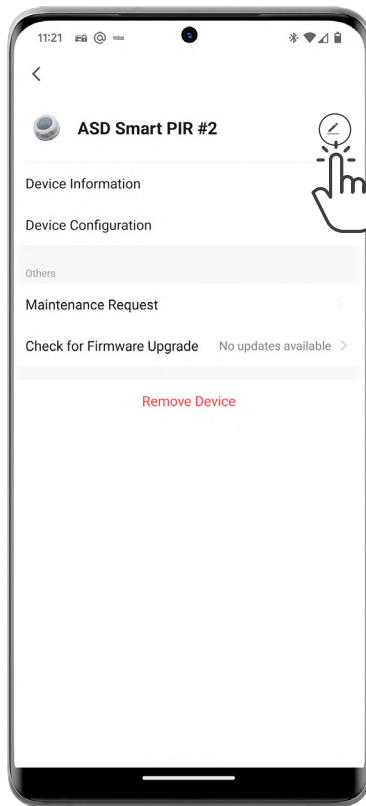


Advanced Device Settings

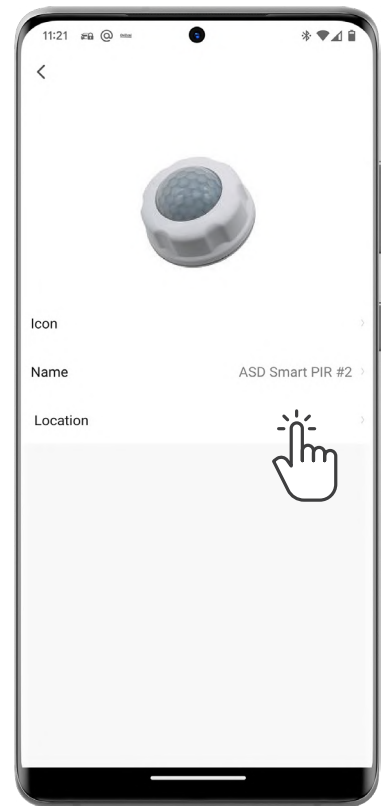


- 1 Tap  to enter the sensor options menu

In this menu you can view the status of the Sensor, as well as change the name, icon or delete the device



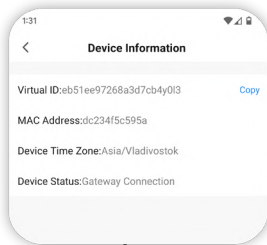
- 2 Tap  to enter the Sensor name and icon settings menu



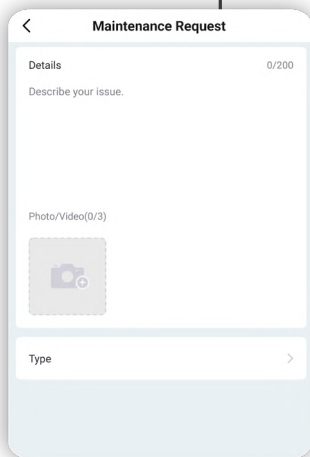
- 3 Tap the button to replace the device picture, rename the device, or change the location of the device in the project



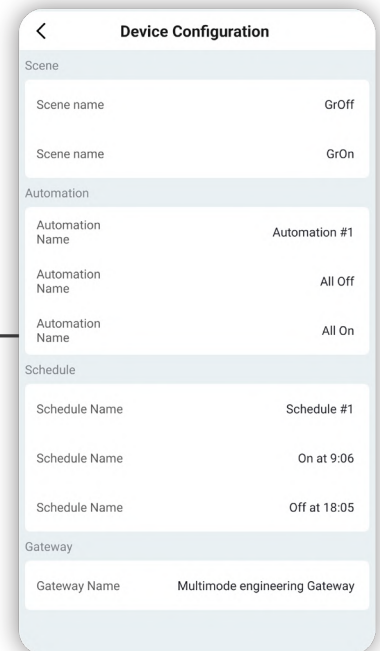
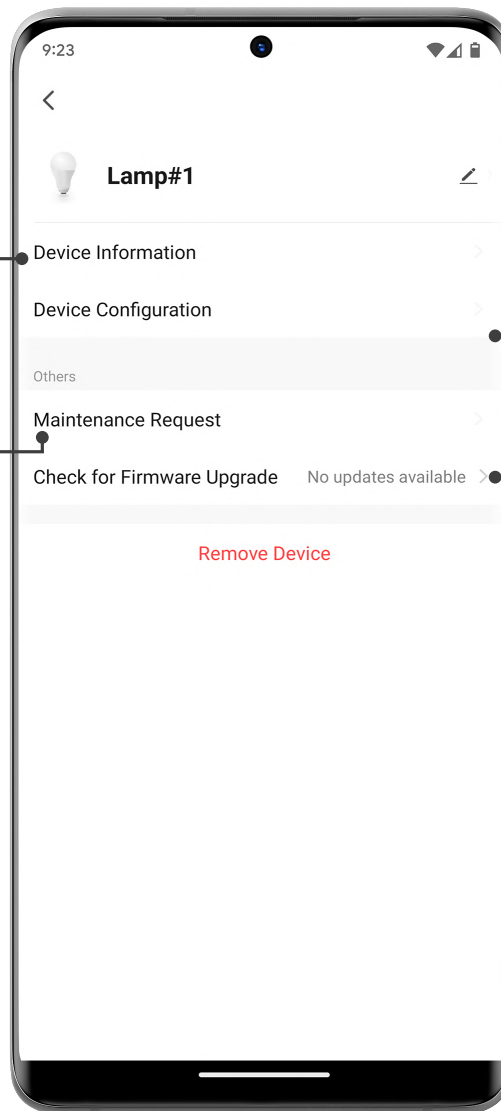
Advanced Device Settings



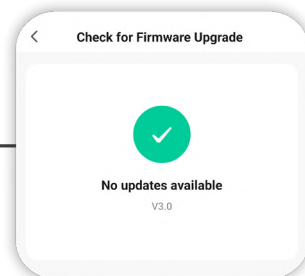
1 **Device Information** section contains information about ID device, MAC address of device, device time zone and type of connection



3 **Maintenance Request** section allows you to create a report about a faulty device



2 **Device Configuration** section contains information about Scenes, Automations, Schedules, and Gateway connected to device



4 **Check for Firmware Upgrade** section allows you to check for the latest updates and update device if necessary



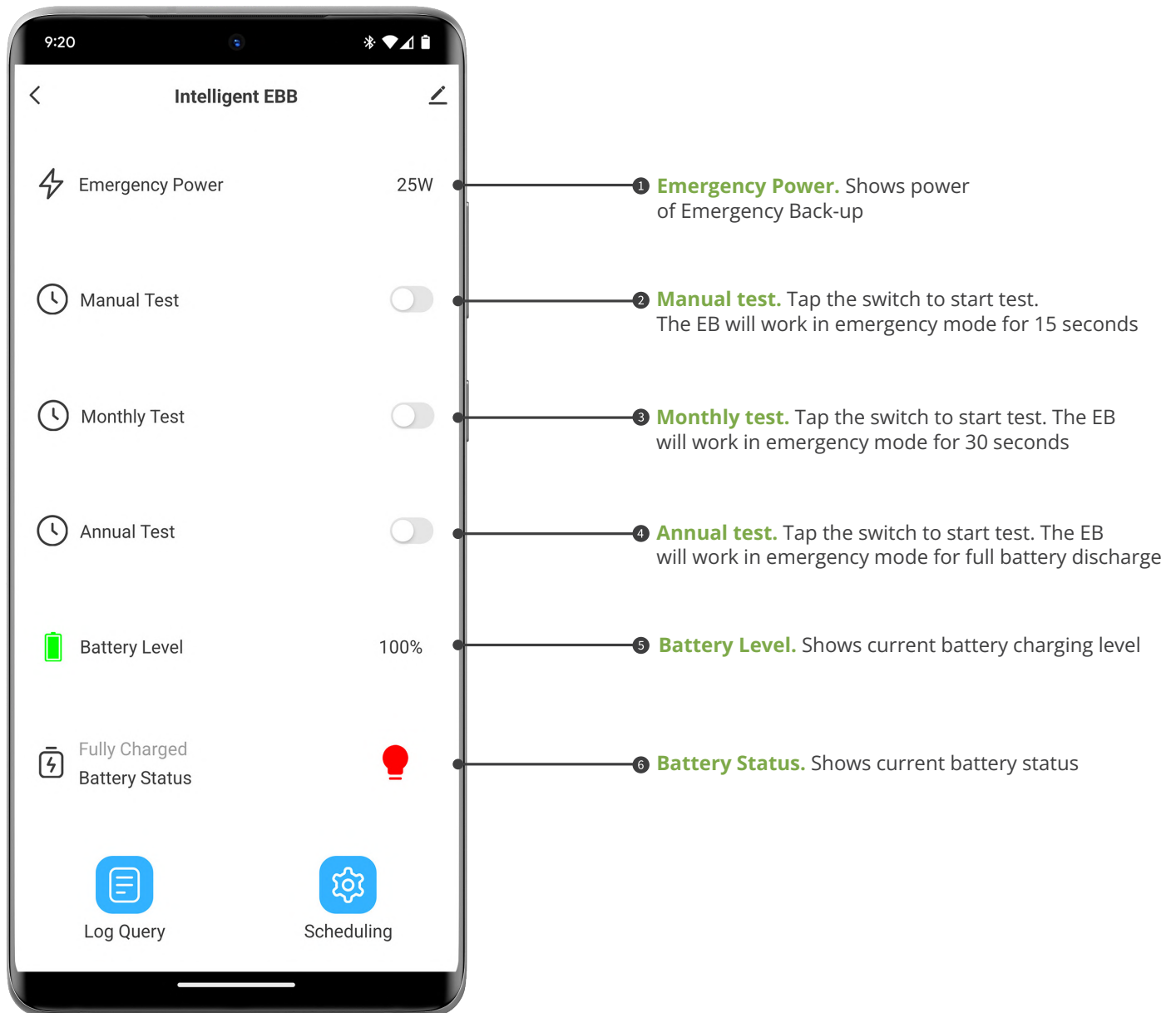
Smart «Emergency Back-up» control

The EB management system allows you to monitor EB status, check operation and failure reports, as well as run manual, monthly, and annual tests

To install EB:

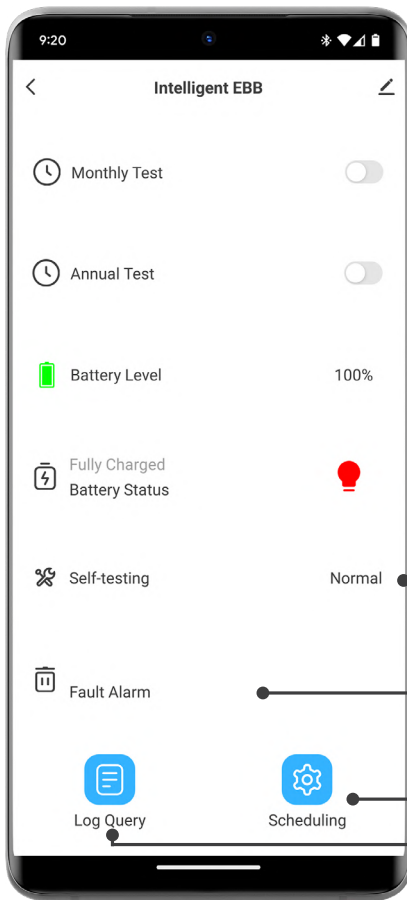
- 1 Turn on your EB and wait for the device to start
- 2 Add new device in Application

Note: before you add an EB to the app, make sure it is in pairing mode. To put device in Pairing mode, press the "Test" button five times





Smart «Emergency Back-up» control

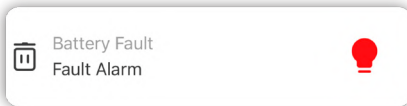


7 **Self-testing.** Shows self-testing status. The EB will self-test every 30 days after the main power is connected

8 **Fault Alarm.** Shows the malfunction mode (Battery fault, load fault), the indicator will be blinking when in malfunction mode, and hidden when no fault

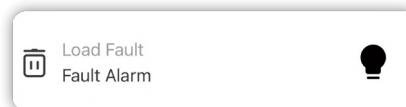
9 **Scheduling.** Allows you to create schedules for tests

10 **Log Query.** Contains the EB test report records



Battery Fault

Shows self-testing status. The EB will self-test every 30 days after the main power is connected

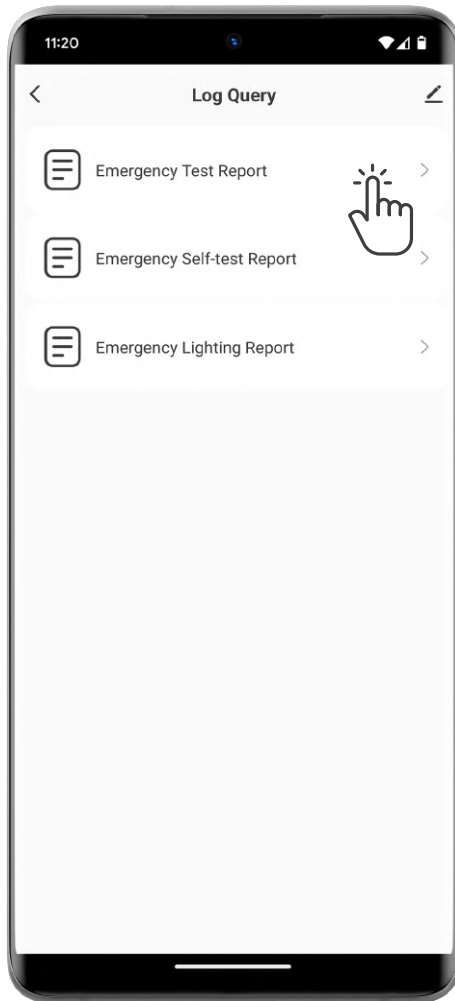


Load Fault

When the EM has a load failure, the fault alarm column will display load fault, and the indicator light will flash red



EB Log Query



Emergency test report.

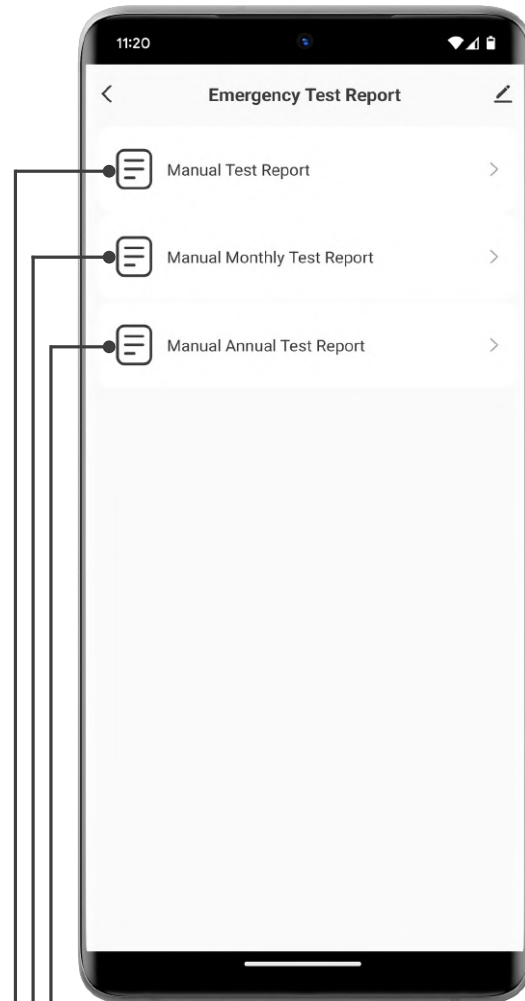
Includes manual test report, monthly test report and annual test report

Emergency self-test report.

The EB will self-test every month and every year after the main power is connected

Emergency mode use report

(When main power fails, the EB will go into emergency mode)



① Tap on **Manual Test reports list**

② Tap on **Monthly Test reports list**

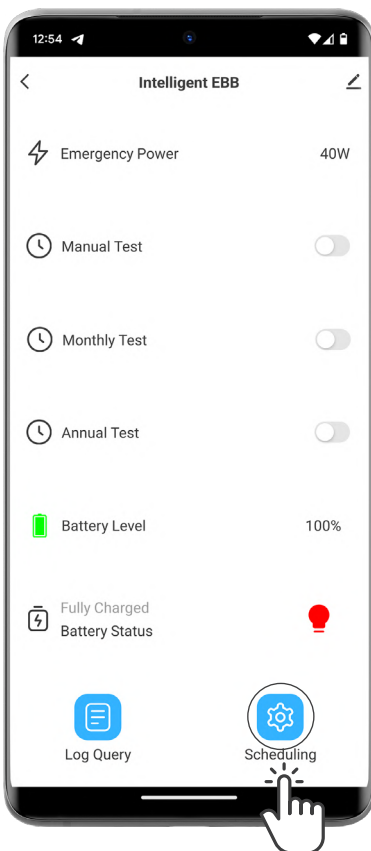
③ Tap on **Annual Test reports list**



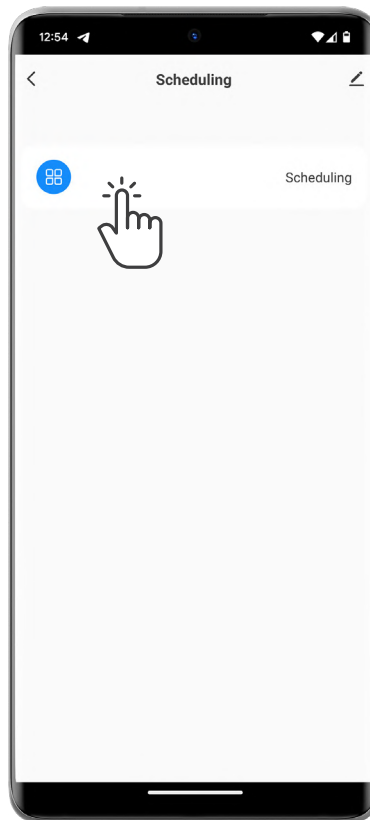
The schedule function allows you to configure the execution of tests at a time of your choice

Note: for this function to work correctly, it is necessary that the EB is bound to the Gateway

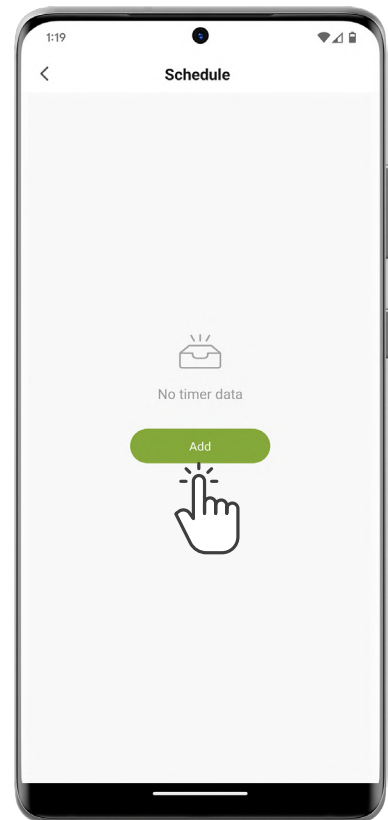
To create schedule:



1 Tap **Scheduling** button



2 Tap **Scheduling** tab



3 Tap **Add** button



NLS ASD Smart User Manual EB Scheduling

12:56

< Add Schedule Save

05 59

06 00

07 01

Repeat Workday >

Note Starting manual testing. >

Notification ☒

Manual Test ON >

Monthly Test OFF >

Annual Test OFF >

4 Set the **Trigger time**

5 Tap **Repeat** to set repeat days

6 Choose repeat days

7 Tap **Note** to add Notification message

8 Type the message and tap **Save** button

9 Turn **On** the notification by tapping the switch

12:54

< Repeat

Execute once by default if you select none

Sun.	☐
Mon.	☒
Tues.	☒
Wed.	☒
Thurs.	☒
Fri.	☒
Sat.	☐

6 Choose repeat days

Note

Starting manual testing.

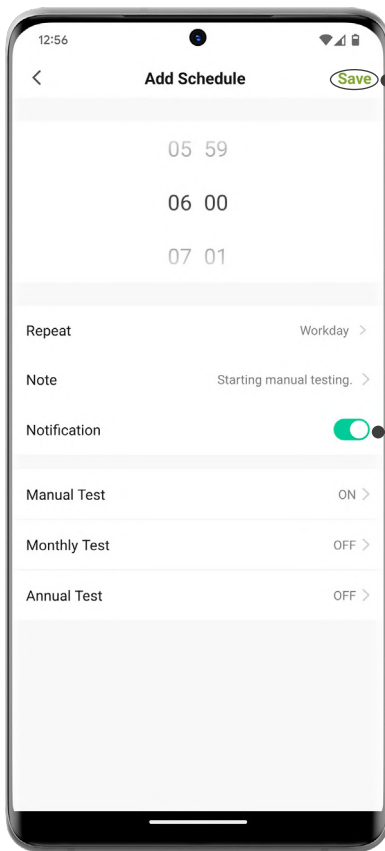
Cancel Save

8 Type the message and tap **Save** button

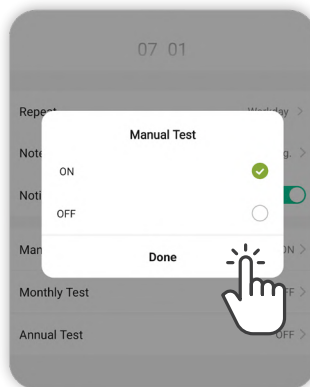
9 Turn **On** the notification by tapping the switch



NLS ASD Smart User Manual EB Scheduling

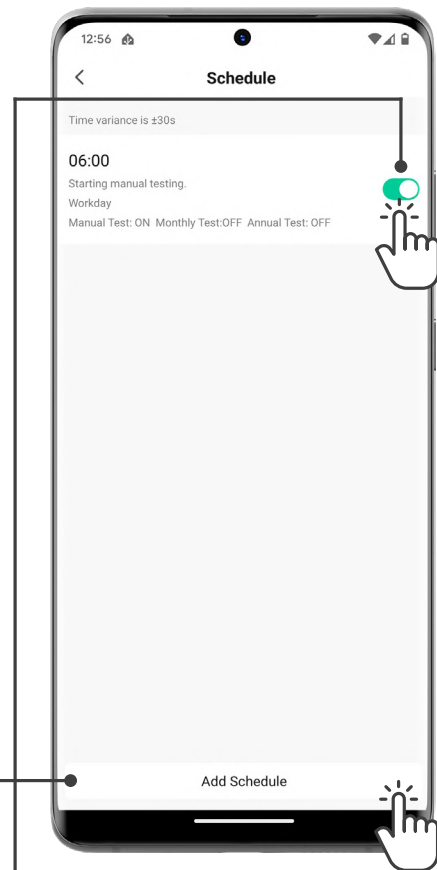


10 Turn **on** or **off** Notification



11 Tap **On** to Enable test / or **Off** to Disable test

12 Tap **Save** button to save all settings



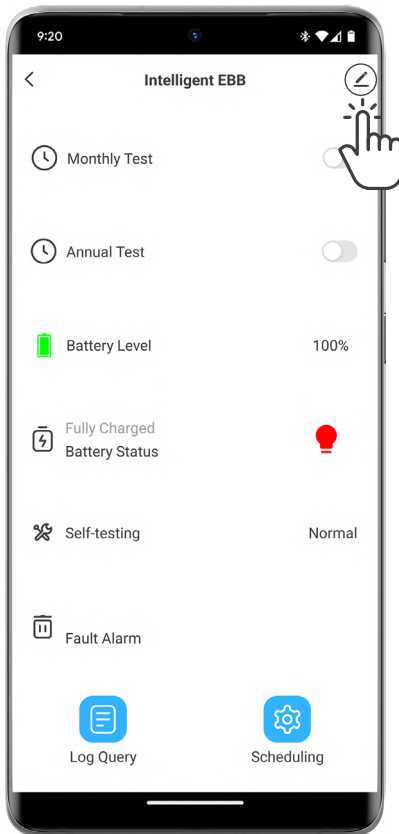
13 **Enable** or **Disable** a test to run on a Schedule

14 To add another schedule just tap **Add Schedule** button

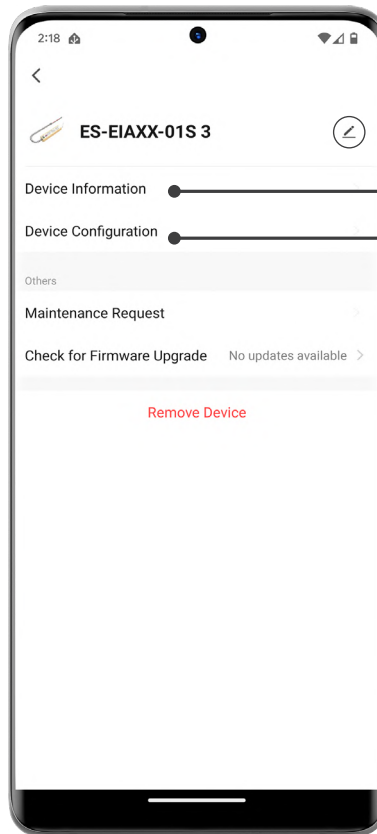


Advanced EB Settings

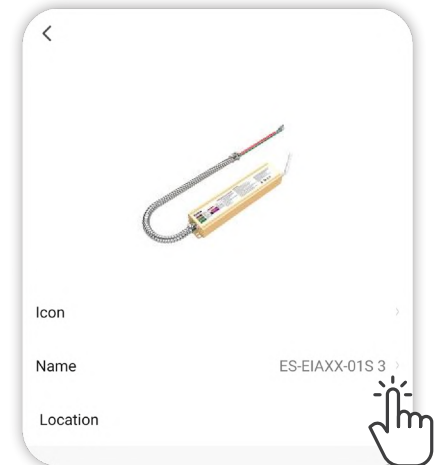
Tap  to enter the Advanced Emergency Backup Settings menu. In this menu you can view the status of the EB, as well as change the name, icon, or delete the device



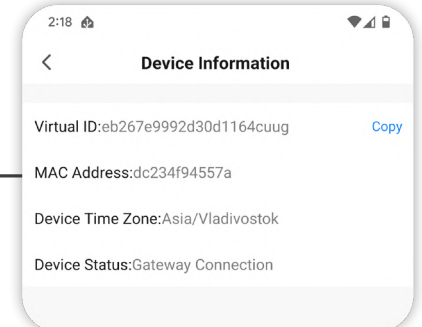
- 1 Tap  to enter the Advanced Emergency Backup Settings menu



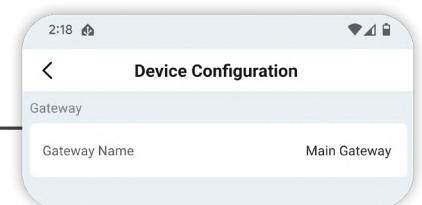
- 2 Tap  to enter the Advanced Emergency Backup Settings menu



- 3 Tap the button to set a new icon, new name, or change location



- 4 **Device Information** section contains information about ID device, MAC address of device, device time zone and type of connection

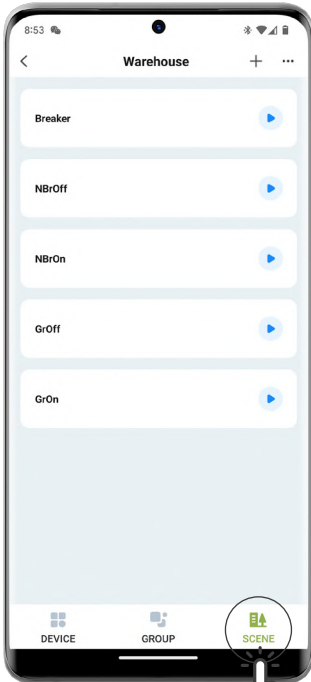


- 5 **Device Configuration** section contains information about Scenes, Automations, Schedules, and Gateway connected to device

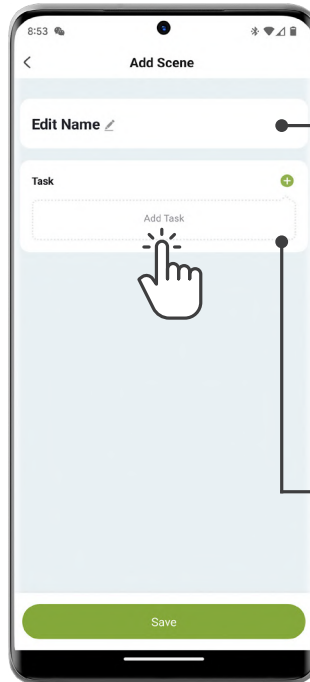


Scene

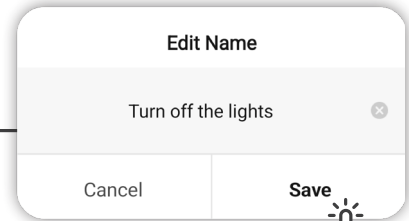
To create your scenes:



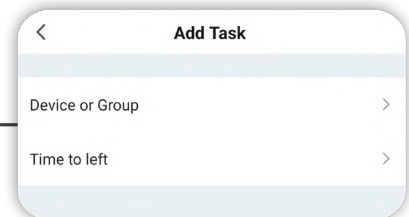
- 1 Tap **Scene** icon and then the + button



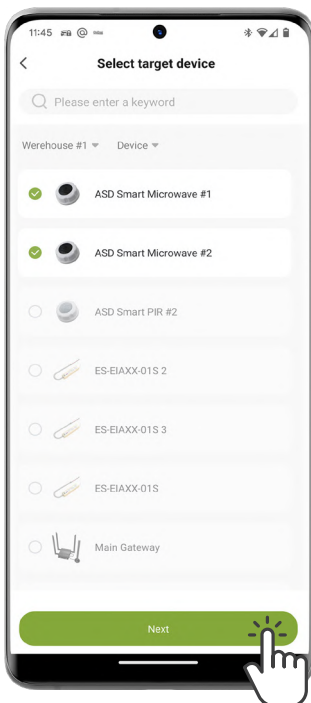
- 2 **Edit Name** and **Add a Task**



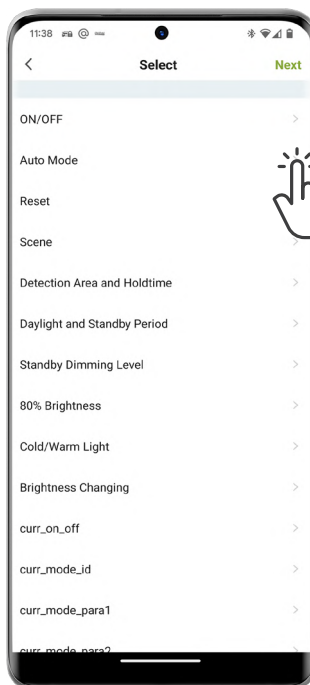
- 3 Enter name of scene and tap **Save**



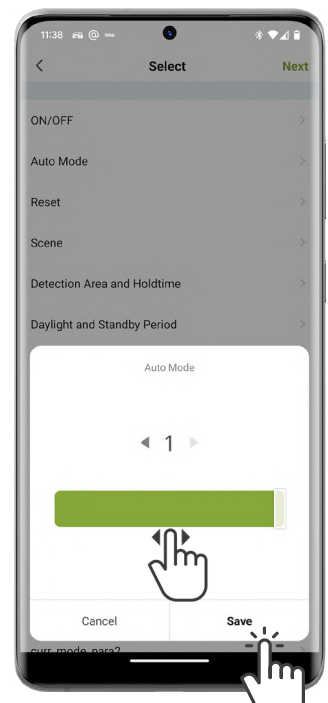
- 4 Select a task for **Device or Group** or add delay before next task



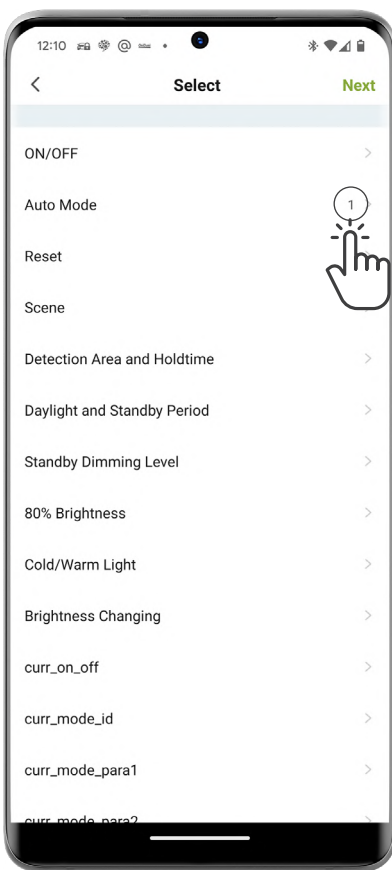
- 5 Select target **Devices** and tap **Next**



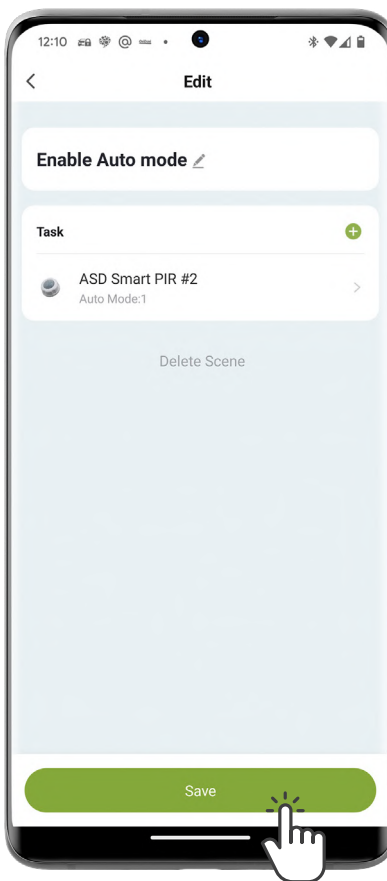
- 6 Select the desired action **Auto Mode** for example



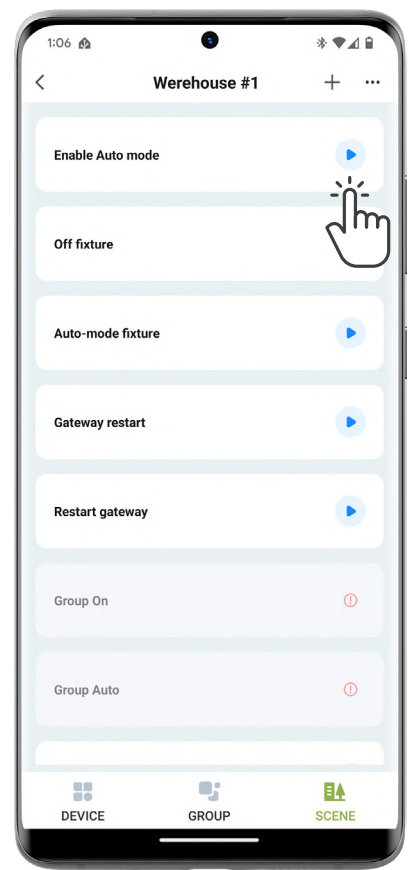
- 7 Set to "1" which means **On**, and tap **Save** button



8 The set value will appear next to the set mode



9 Tap **Save**

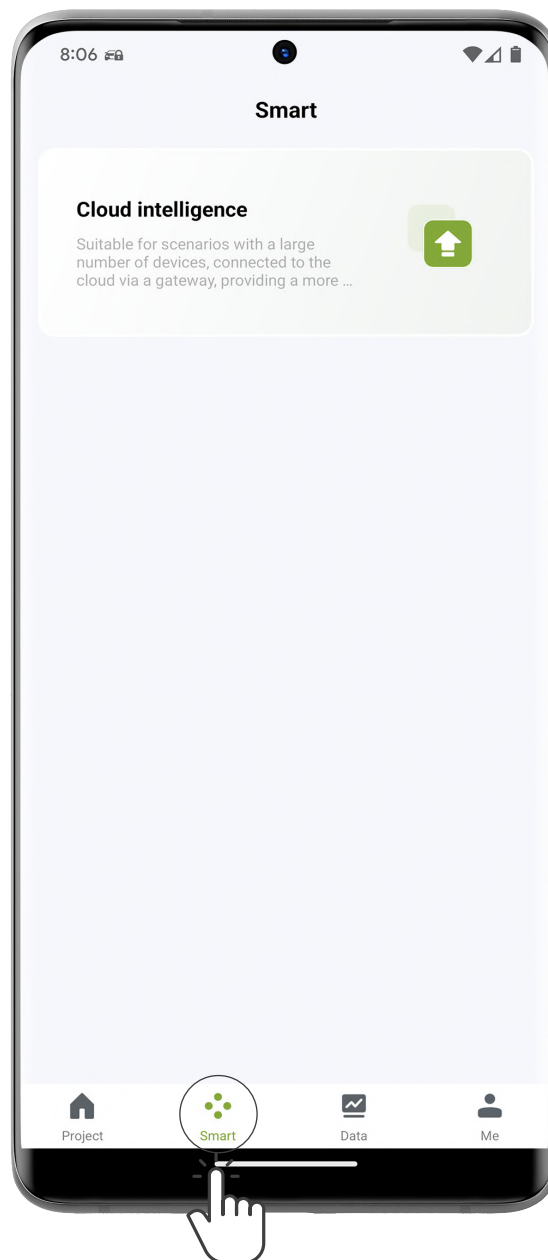


10 Now you can **start the scene** by tapping on the blue arrow



ASD NLS supports device management via cloud technologies.
This makes it possible to manage devices and use different operating scenarios.
It is suitable for scenarios with large numbers of devices, connected to cloud via gateway

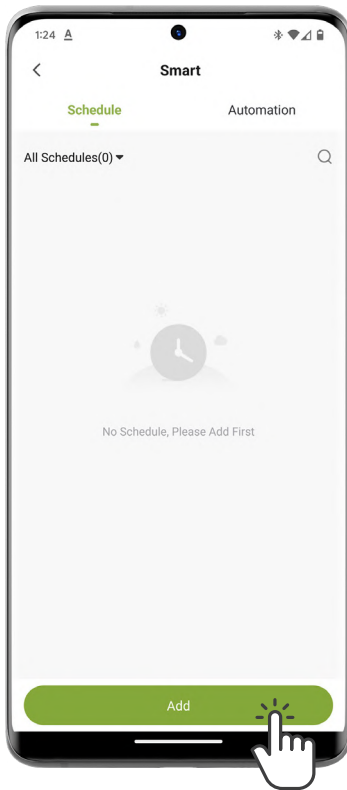
Note: to perform automation for multiple devices at the same time, the devices must be of the same type



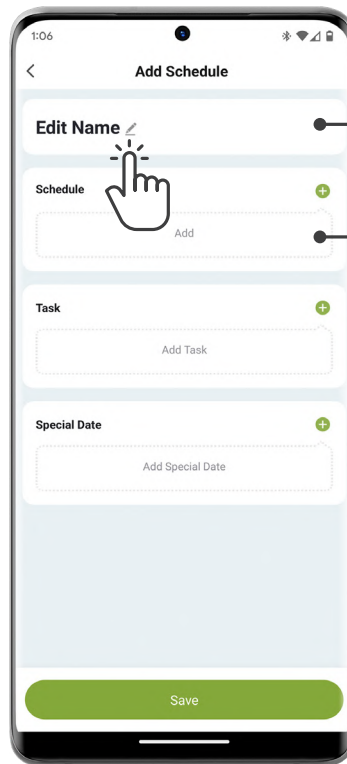


Schedule

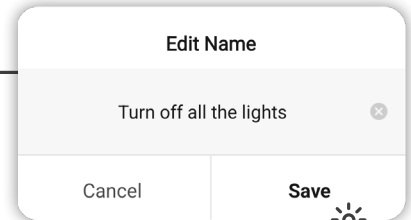
Create schedule for device or group of devices



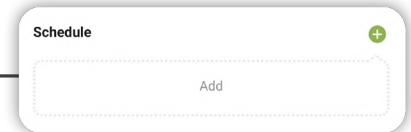
1 Tap **Add** button



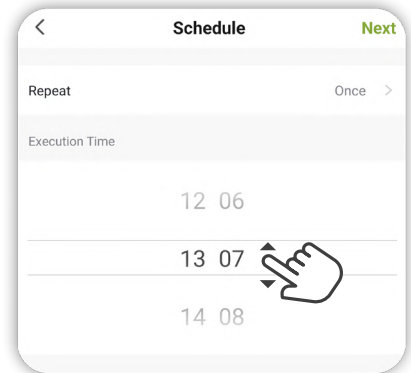
2 Tap **Edit Name**



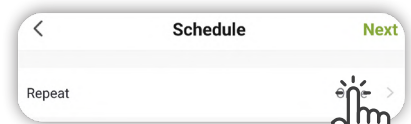
3 Enter name of scene and tap **Save**



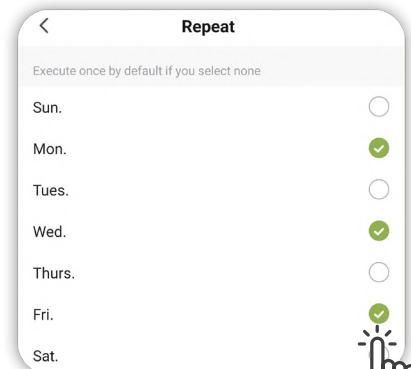
4 Tap **Add** button on Schedule tab



5 Set the **Activation time**



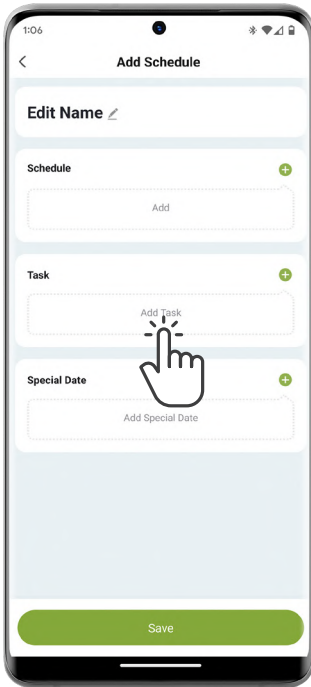
6 Tap **Repeat** tab to set the repeat days



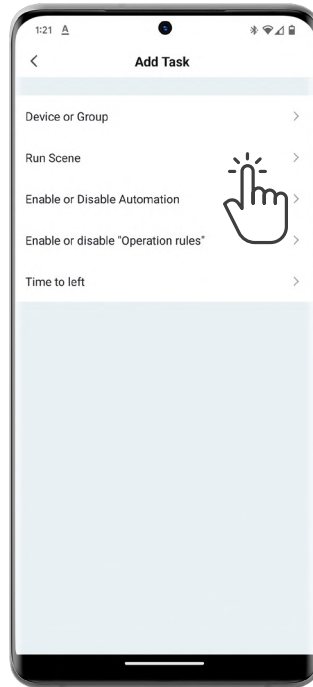
7 Set the **Repeat days**



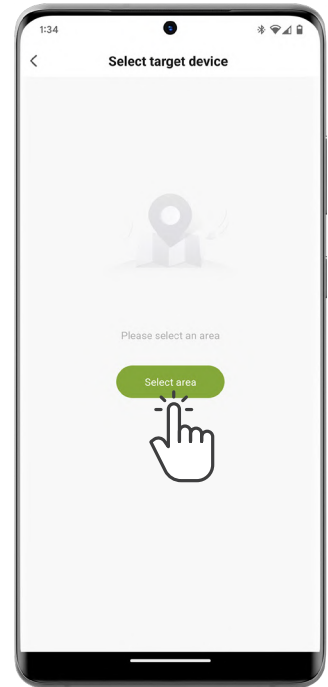
Schedule



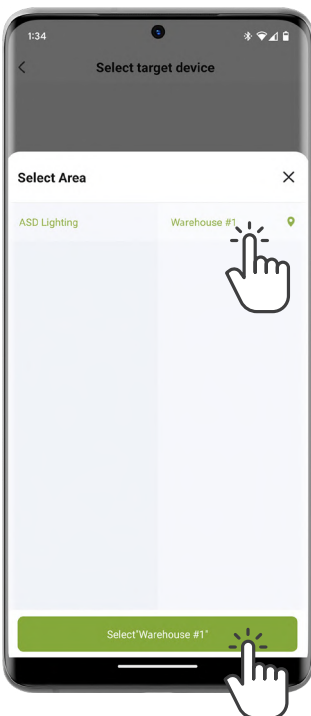
- 8 Tap **Add task** button on Task tab



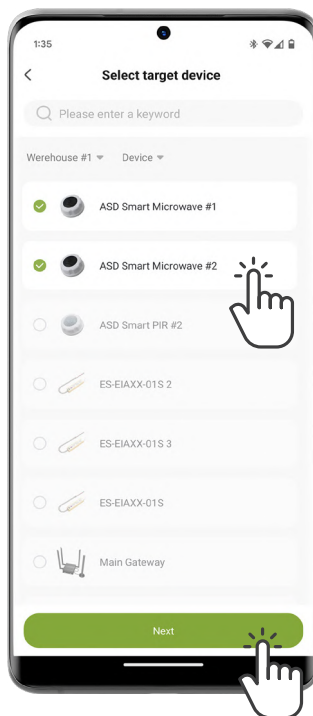
- 9 Choose **Type of task** and tap it



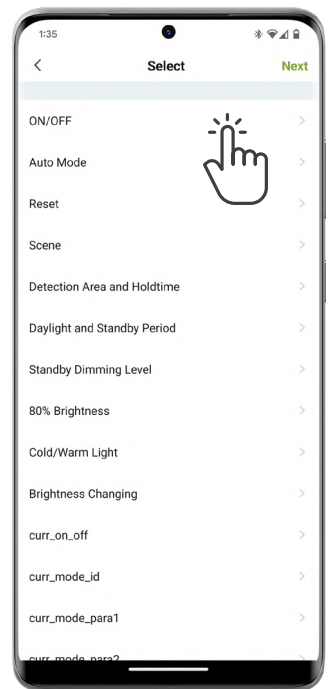
- 10 Tap **Select area** button



- 11 Select the area where your devices are located and tap **Select** button



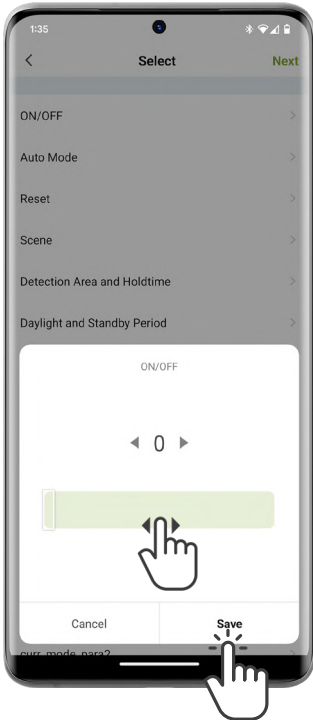
- 12 Select your devices and tap **Next** button



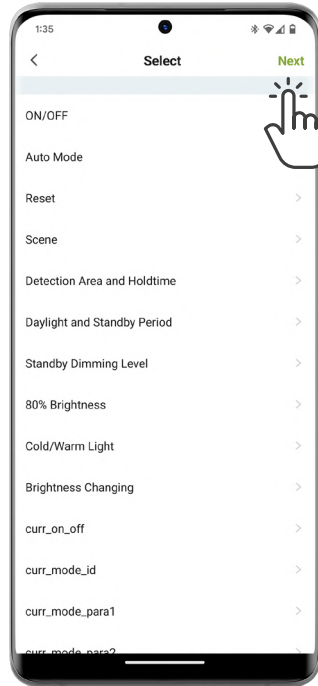
- 13 Select **Action** (Fixture On/Off in this case)



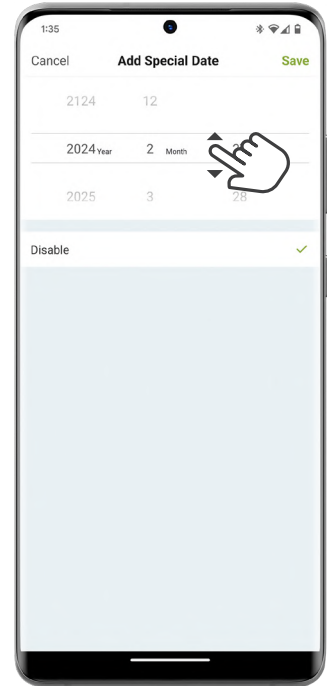
NLS ASD Smart User Manual Schedule



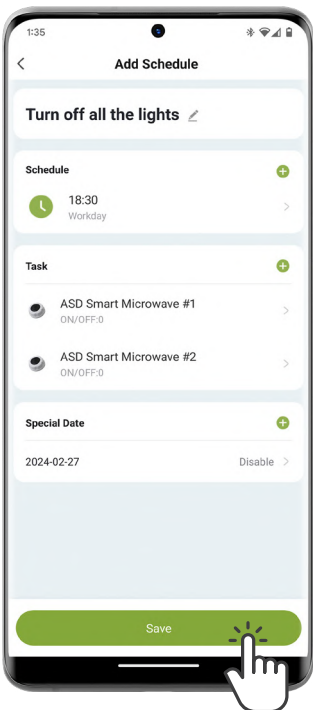
- 14 Select **Options** and tap **Save** button ("0" for **Off** in this case)



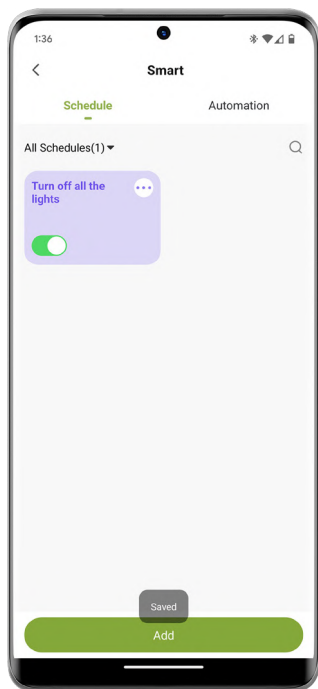
- 15 The set value will appear next to the set mode. Tap **Next** button



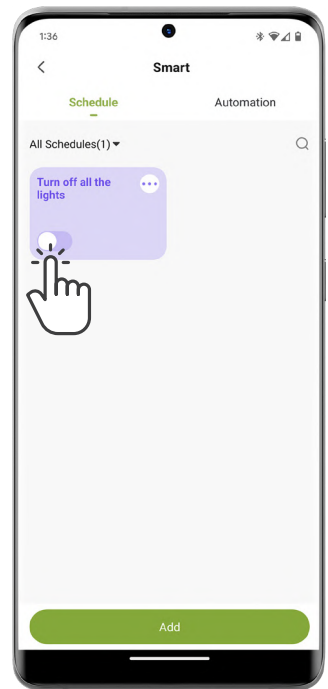
- 16 Tap **Special Date** to prevent triggering on Certain dates. Select **Certain Day**



- 17 The schedule is ready! If everything is OK, then tap **Save** button



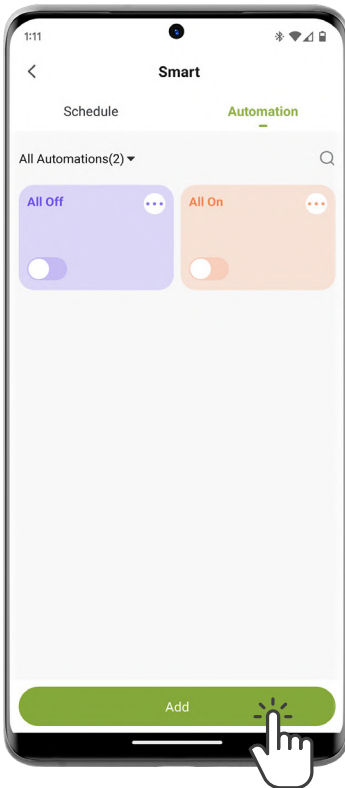
- 18 The Schedule is now displayed in your list



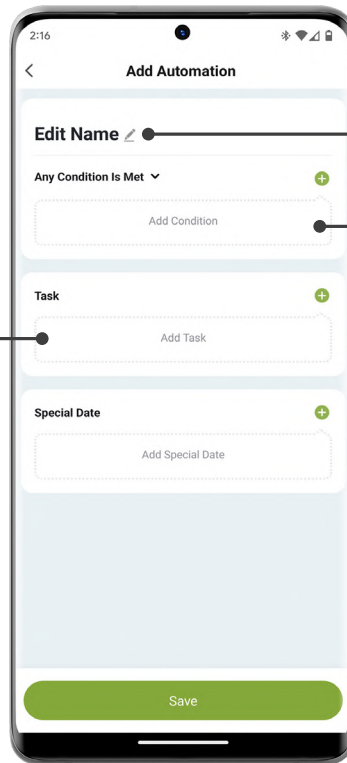
- 19 The Schedule can be disabled using the **Switch**



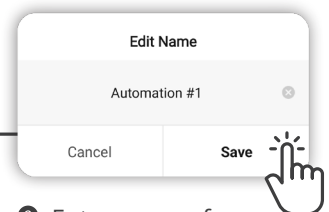
Creating an Automation Script



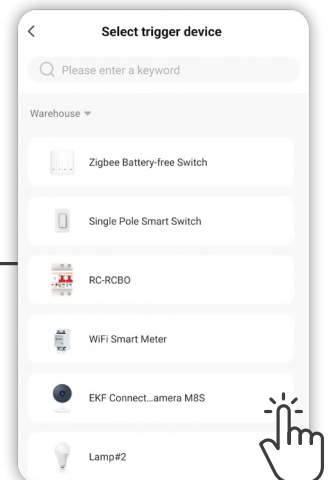
- 1 Tap **Add** to create new **Automation**



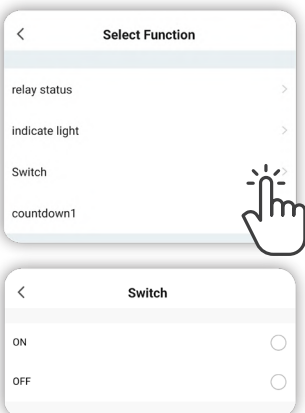
- 2 Add **Condition**



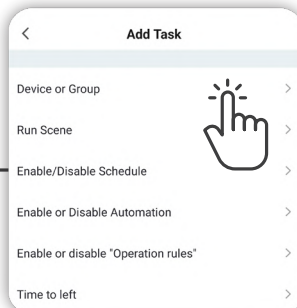
- 3 Enter name of scene and tap **Save**



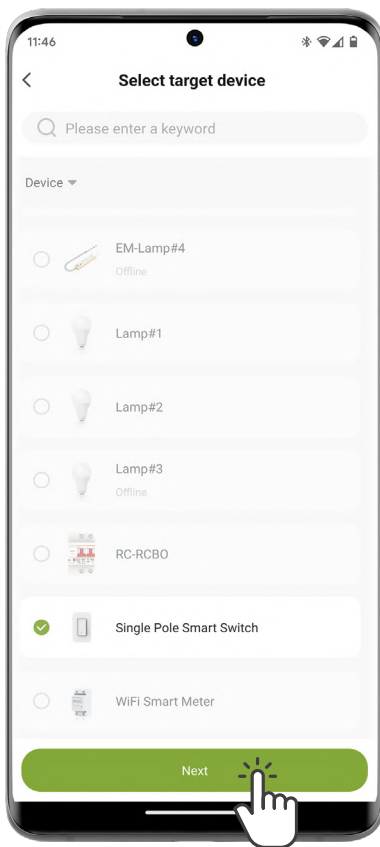
- 4 Select **Trigger device**



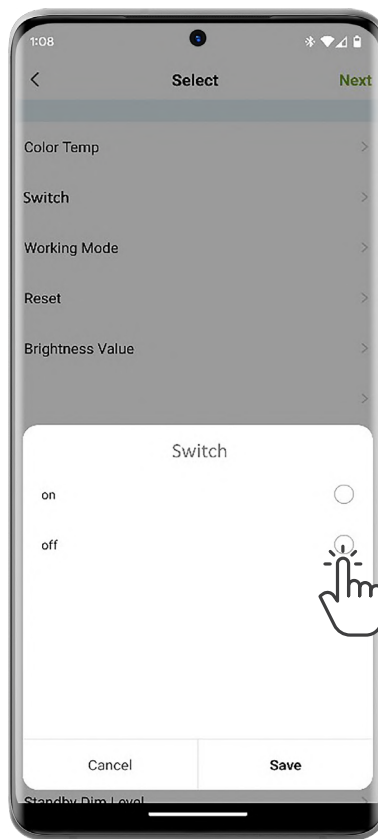
- 5 Select **Device function** state as trigger



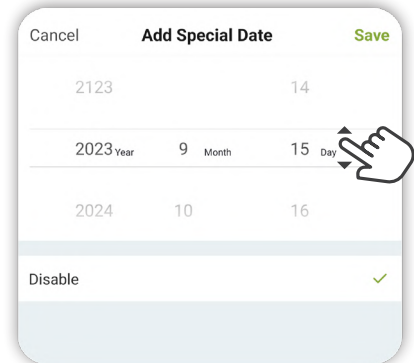
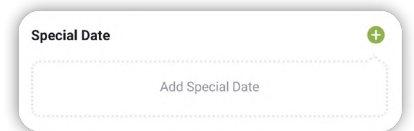
- 6 Create a **Task** that will be executed



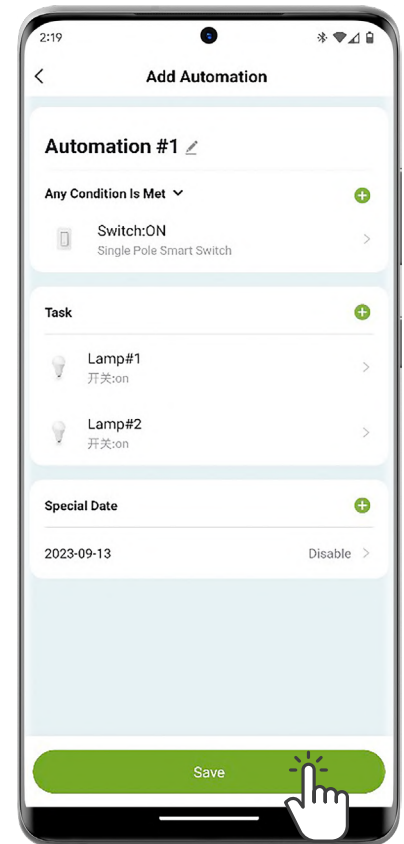
- 7 For example, for device: select necessary devices and tap **Next**



- 8 Select **Action**



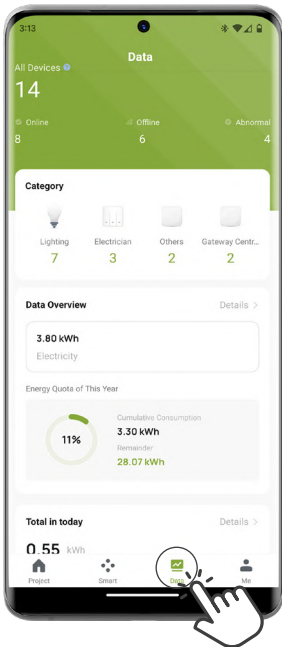
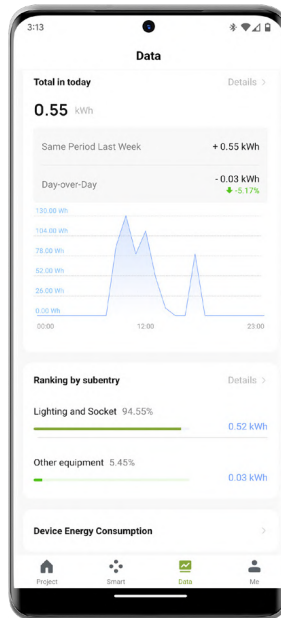
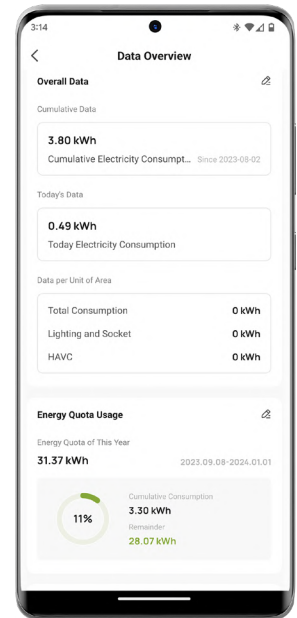
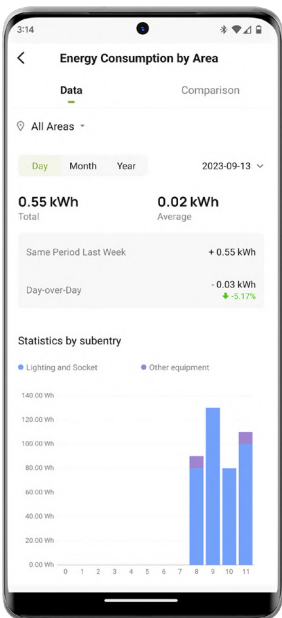
- 9 Add **Special dates** when the schedule is disabled



- 10 Click **Save** after completing the scheduling



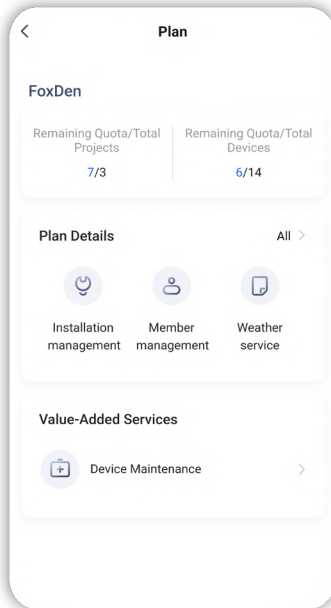
The «Data» tab displays statistics of connected devices.
The ASD NLS application also allows you to keep track of consumed electricity and water.
All information is compiled and provided in the form of convenient graphics

**1** Device statistics**2** Energy statistics**3** Data overview**4** Energy consumption by area**5** Tap **Add** when new devices are found**6** A Smart Energy meter or a smart Circuit Breaker can be used as an energy meter

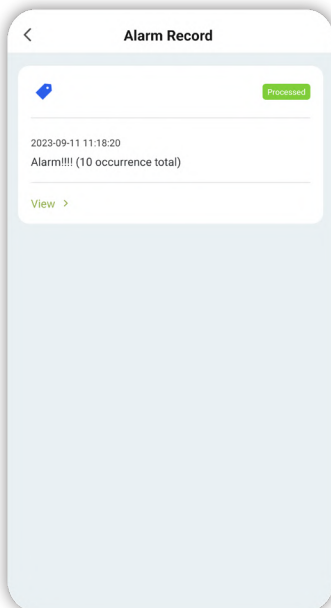


Profile Management

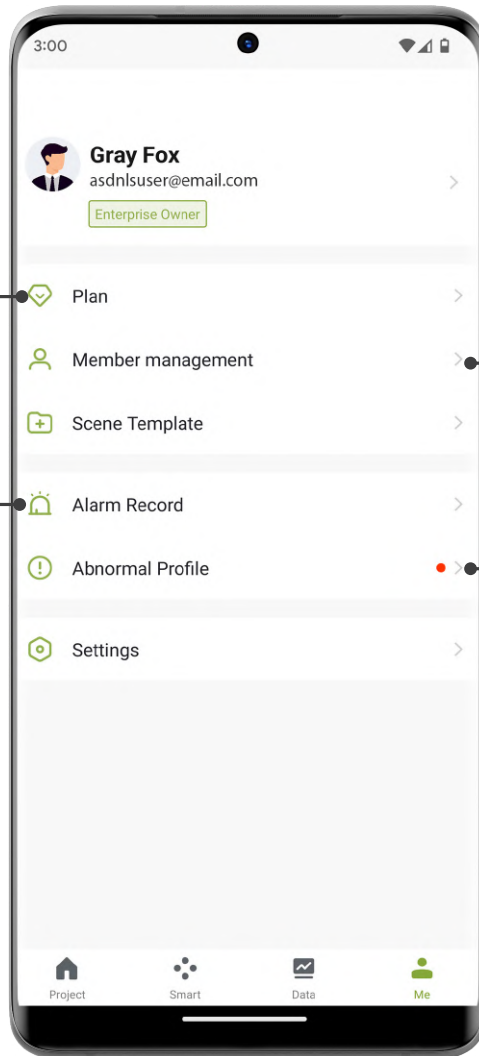
This Tab allows you to edit owner profile, see Plan type, create a new manager, see alarm records and abnormal profiles. Also this tab include Settings menu



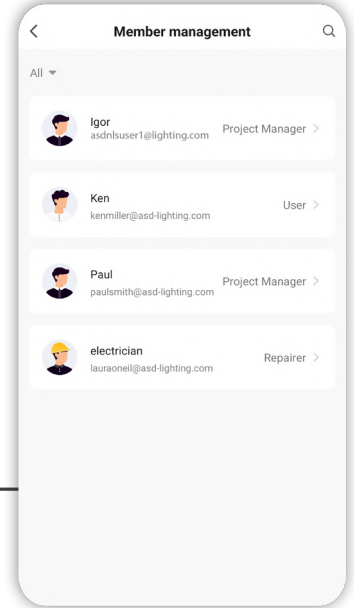
2 This tab contains information about Project and Device quotas, Plan details, and Value-Added Services



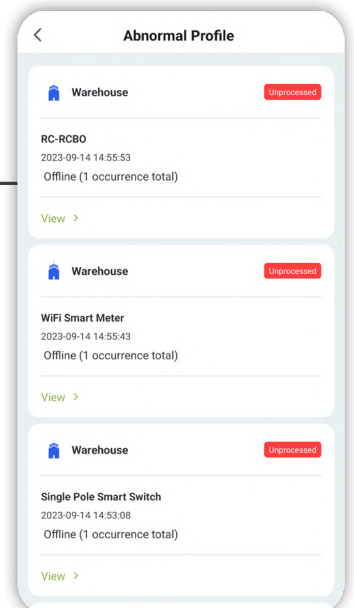
4 This tab contains list of Alarms



1 Me Tab



3 This tab contains list of Members accounts

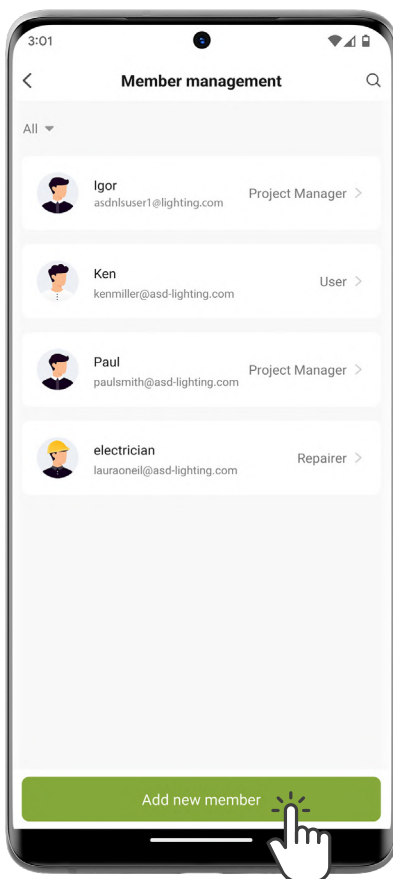


5 This table contains list of Abnormal Profile devices

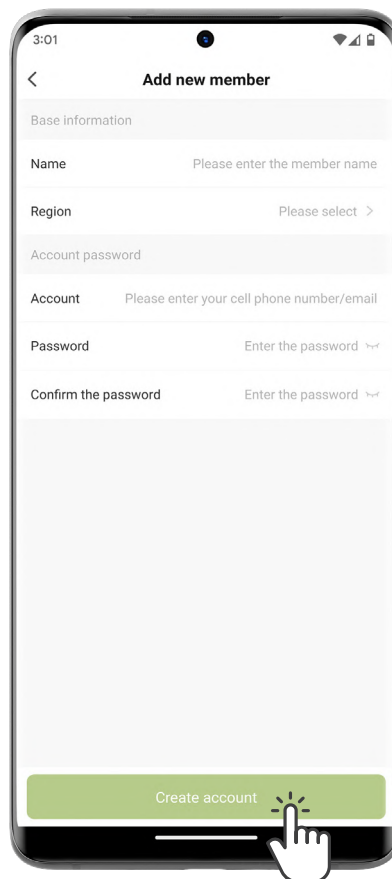


Adding new Manager

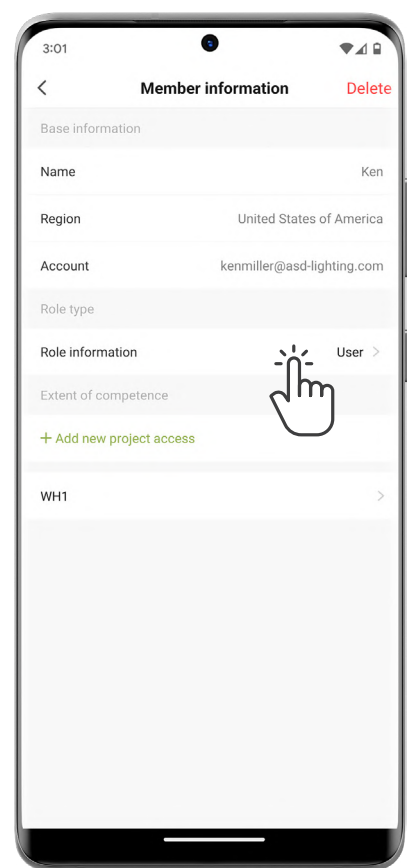
ASD NLS allows you to create new member accounts in your Enterprise and assign them different roles



- 1 To create a new Member, tap **Member management**, and then tap **Add new member** button



- 2 Fill all fields and then tap **Create account** button



- 3 After creating a new account, enter it, and assign **Role** and **Access to Projects**



Annex I: Device Maintenance

Device Maintenance empowers project teams to conduct more efficient O&M. By using the Device Maintenance function, project team members can submit device maintenance requests directly in the app or on the SaaS platform. Administrators then assign maintenance tasks and monitor the maintenance progress

Step I: Adding Repairer personal

Only members with Repairer role can complete Device Maintenance request

1 On the home page click on the **Member Management** button

2 Click on the **Add** button

3 Fill in the **Lines**

4 Select **Repairer Role**

5 Create a **Password** and **Confirm** it

6 Click on **Save** button

The screenshot shows the ASD NLS Client interface. The left sidebar contains a menu with 'Project Management', 'Member Management', 'Template Library', 'VAS', and 'System Settings'. The 'Member Management' page is active, displaying a table of members. A '+ Add' button is visible. An 'Add' form is open, showing fields for Country code, Account, Name, Role, Password, and Password confirmation. The form is filled with the following data:

Field	Value
Country code	+1 United States/Canada
Account	Martin22@asd-lighting.com
Name	Martin
Role	Repairer
Password	VAmMuGCU3VnERKv
Password confirmation	VAmMuGCU3VnERKv

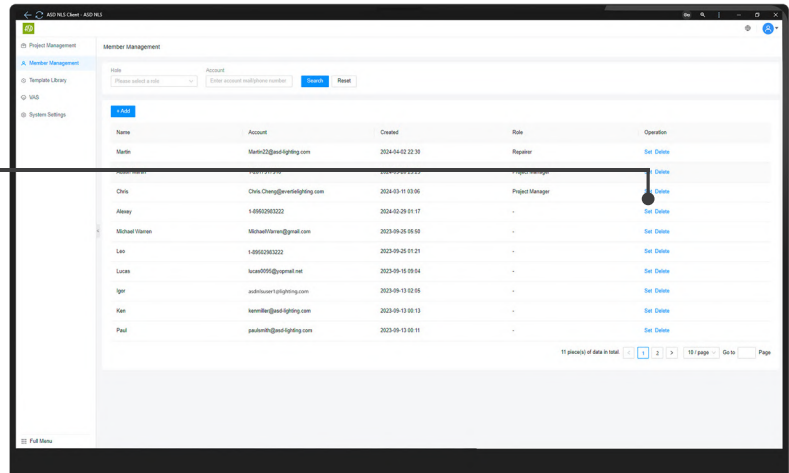


Step I: Adding Repairer personal

A new account with the Repairer role has been created.
Next, you need to assign access zones to it

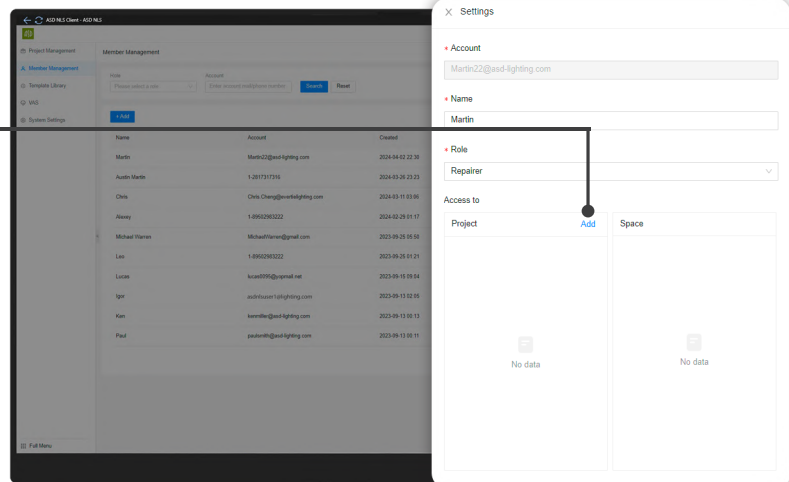
- 7 Click the **Set** button to add access for this account to new project and spaces

Set



- 8 Click the **Add** button to choose project(s)

Add

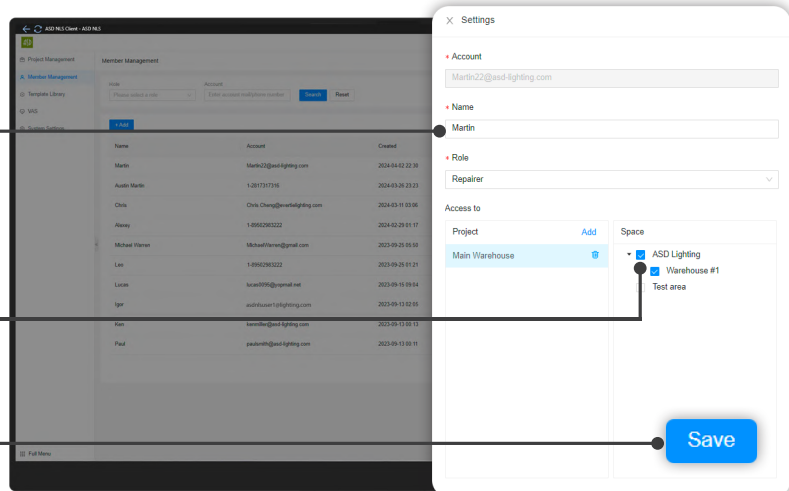


- 9 Click the **Project Name** button to choose project(s)

- 10 Mark **Checkboxes**



- 11 Click the **Save** button

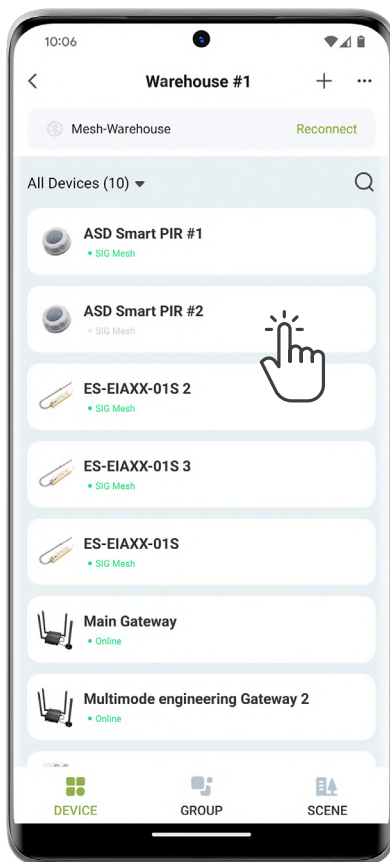




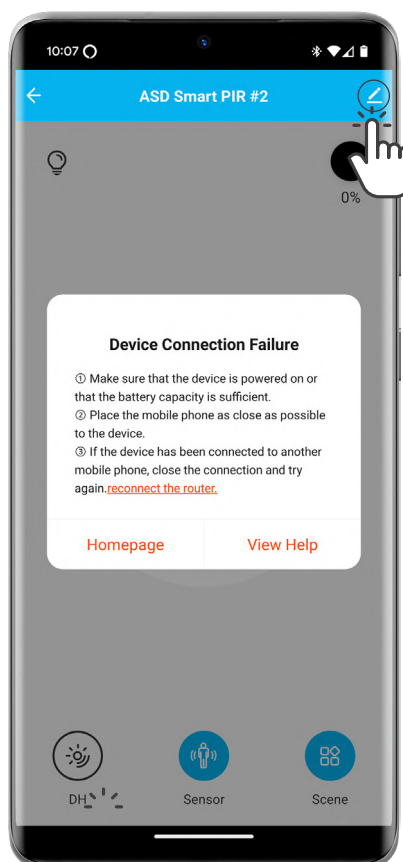
Step II: Create Maintenance Request

Maintenance request can be created in the mobile app only

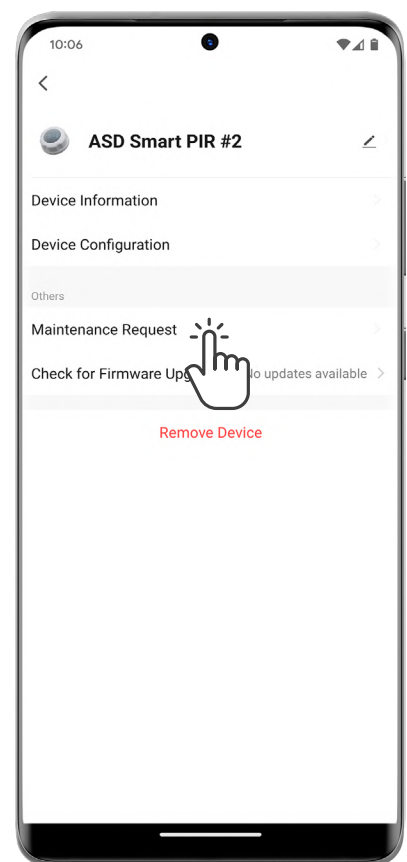
For example, we will consider an «out of control» sensor
This procedure can be performed by any employee
who has a smartphone with the ASD NLS application installed



1 Select the **malfunctioning device** from the list and enter the device control panel



2 Tap on the **⌵** icon



3 Tap on the **Maintenance Request** button



Step II: Create Maintenance Request

The image shows a smartphone screen with the 'Maintenance Request' form. The form has a title bar with a back arrow and the title 'Maintenance Request'. Below the title bar is a 'Details' field with a character count '35/200'. A callout line points to this field with the text '4 Describe problem in the Details field'. Below the 'Details' field is a 'Photo/Video(1/3)' section. It contains a thumbnail of a smart sensor and a dashed box with a camera icon and a plus sign. A callout line points to this section with the text '5 Add a Picture of the problem (if required)'. Below the photo section is a 'Type' field with the text 'Out of Control' and a right-pointing arrow. A callout line points to this field with the text '6 Select the Type of Malfunction'. At the bottom of the form is a green 'Submit' button. A callout line points to this button with the text '7 Tap on the Submit button'.

4 Describe problem in the **Details** field

5 Add a **Picture** of the problem (if required)

6 Select the **Type of Malfunction**

7 Tap on the **Submit** button

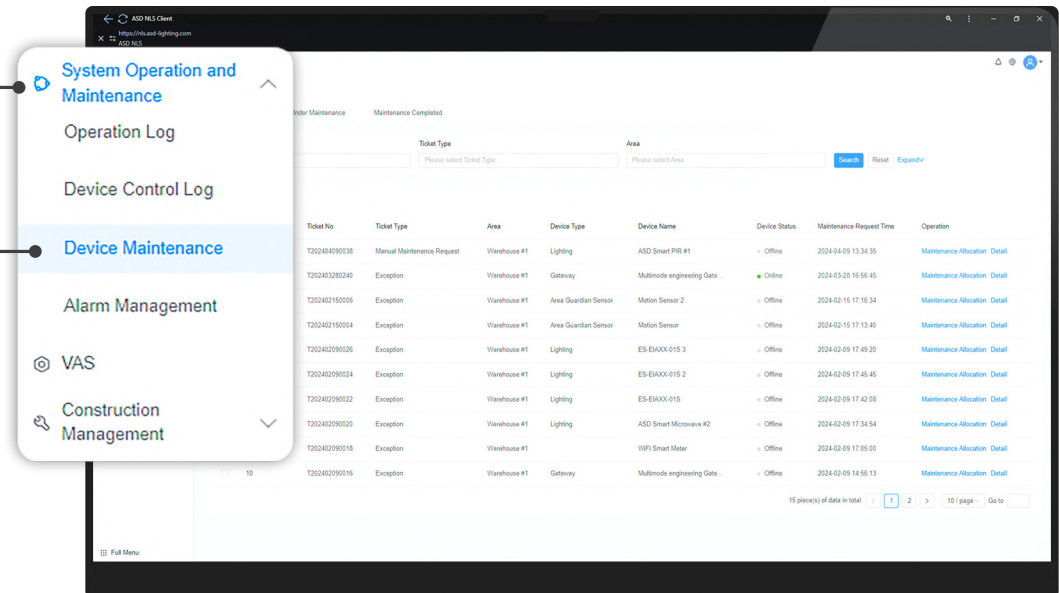
The maintenance request has now been created



Step III: Maintenance Request registration in the system

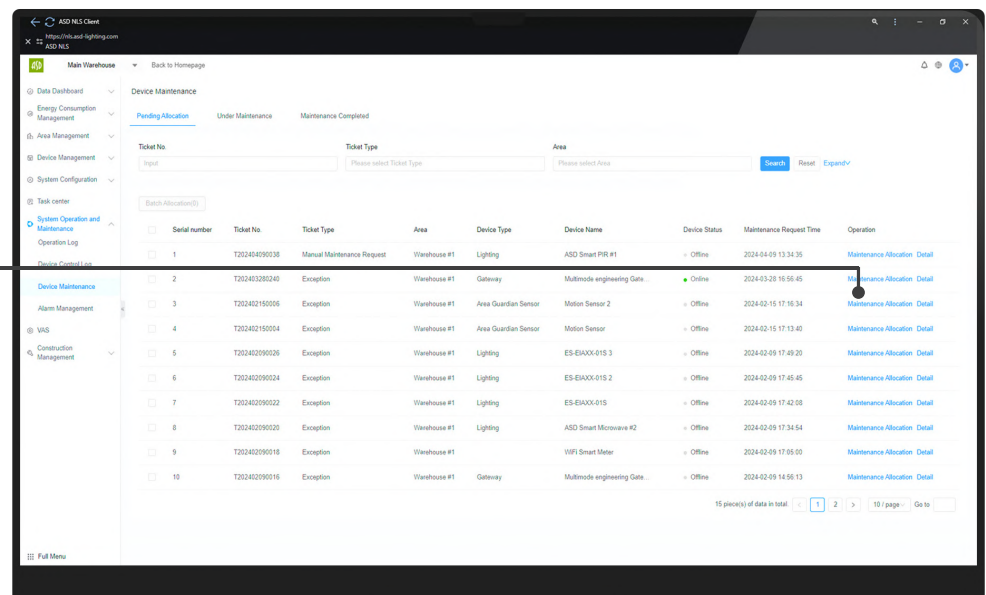
This procedure must be performed by an employee from the Web version of the ASD NLS system, with the «Member Management» role

- 1 Click on the **system operation** tab and then click on **device maintenance** button



- 2 Click on the **Maintenance Allocation** button

Maintenance Allocation





Step III: Maintenance Request registration in the system

3 Assign an **Executor** from among the repairmen

4 Enter **End Date of Maintenance**

5 Input **Remarks**

6 Check list of **Maintenance devices**

7 Click on the **Assignment** button

Maintenance Allocation

* Maintenance Personnel : Leo

* End Date of Maintenance : 2024-04-13

Remarks : Restore functionality as soon as possible.

* Devices for Maintenance (1 Devices Selected): ASD Smart PIR #1

Assignment

Now this request was added to the under-maintenance list

8 Click on the **Detail** link and you will go to the maintenance detail information page

Detail

Serial number	Ticket No.	Maintenance Personnel	Area	Device Type	Device Name	Ticket Status	Repair time	Operation
1	T202404090030	Leo	Warehouse #1	Lighting	ASD Smart PIR #1	Under Maintenance	2024/04/09-2024/04/13	Detail
2	T202404100002	Leo	Warehouse #1	Lighting	ASD Smart PIR #2	Postponed	2024/04/03-2024/04/04	Detail



Step III: Maintenance Request registration in the system

This page contains detailed maintenance information

The screenshot displays the 'Ticket Details' page in the ASD NLS Client. The page is divided into several sections:

- Ticket Details:** Shows Ticket No. T202404090038 and a 'Change Task Allocation' button.
- Maintenance Information:** A table with columns: Maintenance Personnel (Leo), Account Information (77x66289x89G00y4-43x1u), Maintenance Time (2024/04/09-2024/04/13), and Remarks (Restore functionality as soon as possible).
- Maintenance Ticket Information:** A table with columns: Area for Maintenance (ASD Lighting/Warehouse #1), Device for Maintenance (Lighting), and Device Name (ASD Smart PIR #1). A 'Device Details' link is provided.
- Maintenance Content:** Includes Type (Manual Maintenance Request), Source (77x66289x89G00y4-43x1u), Details (Out of Control), and a description (The smart sensor is not responding). A 'Download' button is next to a small image of a sensor.
- Event Log:** A table showing the history of events:

Operator	Account Information	Event	Operation Time
Gray Fox	77x66289x89G00y4-43x1u	Ticket Allocation	2024-04-09 13:36:46
Gray Fox	77x66289x89G00y4-43x1u	Maintenance Request	2024-04-09 13:34:35

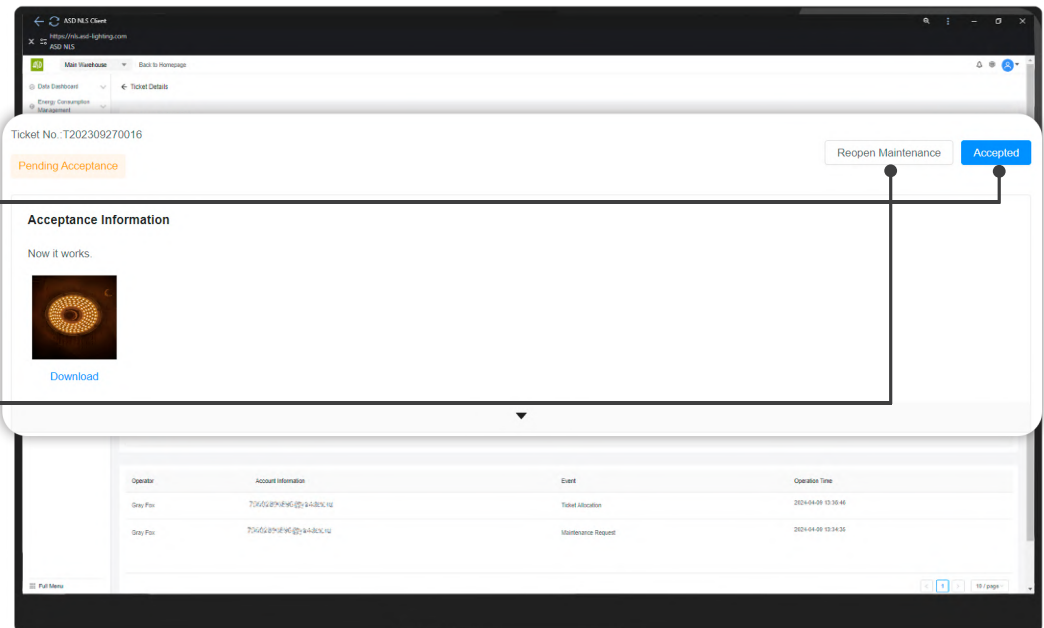


Step III: Maintenance Request registration in the system

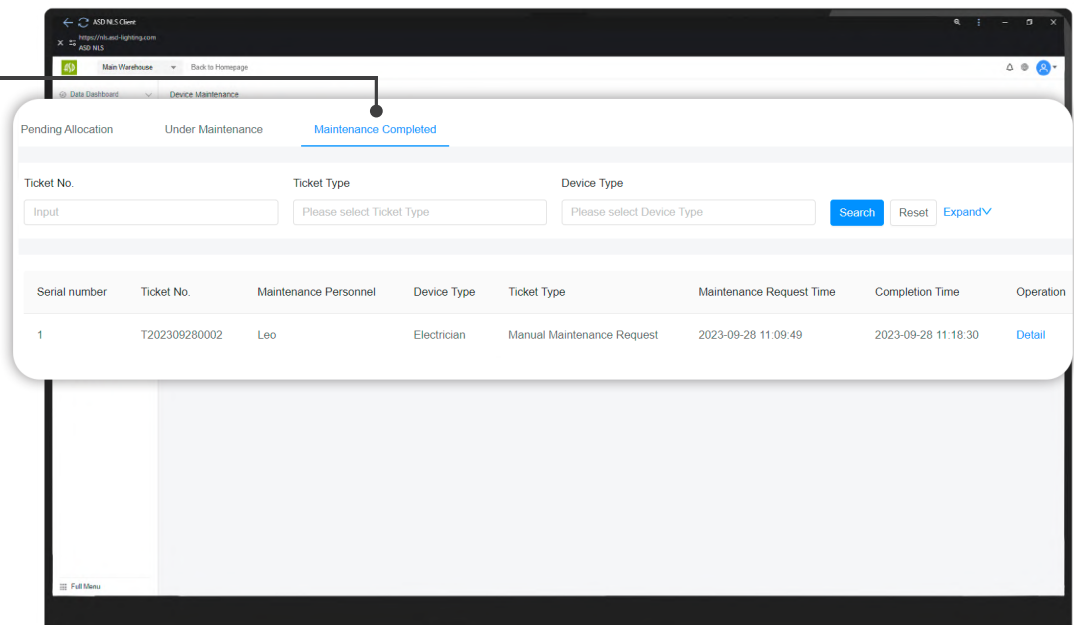
Once maintenance has been completed, acceptance information will populate on the maintenance detail page

9 If the issue has been resolved, click on the **Accepted** button

10 Otherwise reopen maintenance request by clicking on **Reopen Maintenance** button



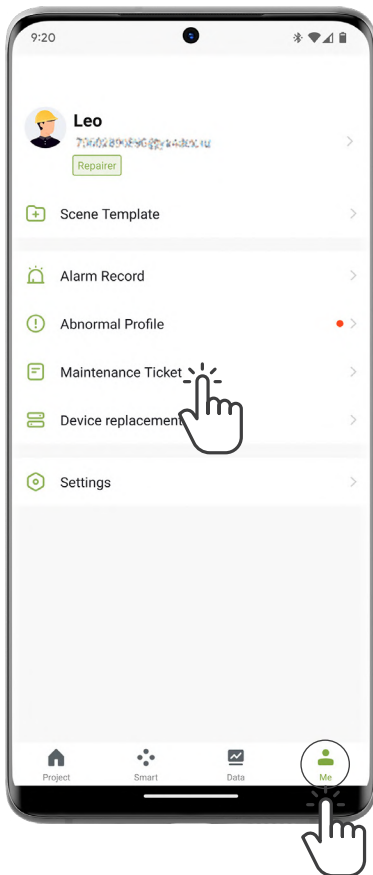
11 After you accept the maintenance, the request goes to the **Maintenance Completed** tab



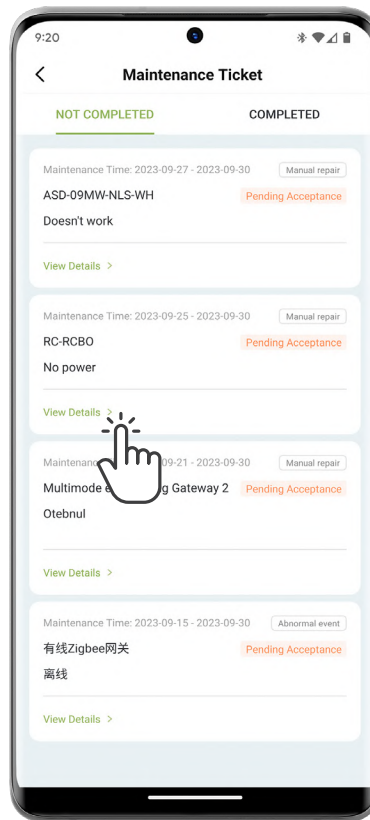


Step IV: Maintenance part in ASD NLS

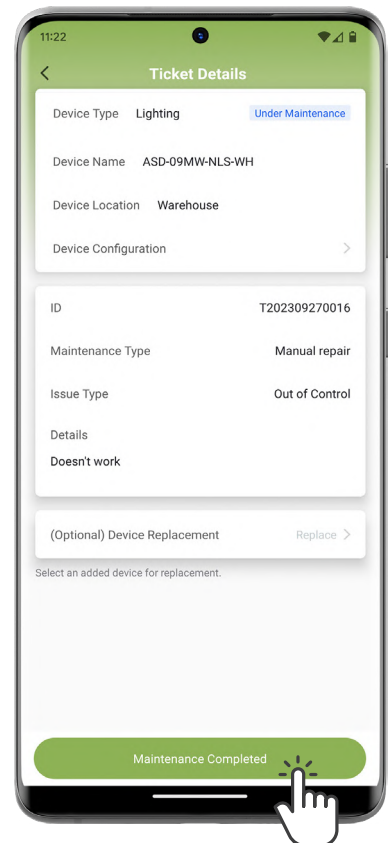
This procedure must be performed by maintenance personnel who have a smartphone with the ASD NLS application installed and an account with the «Repairer» role



- 1 Go to the **Me** tab and then tap on the maintenance button



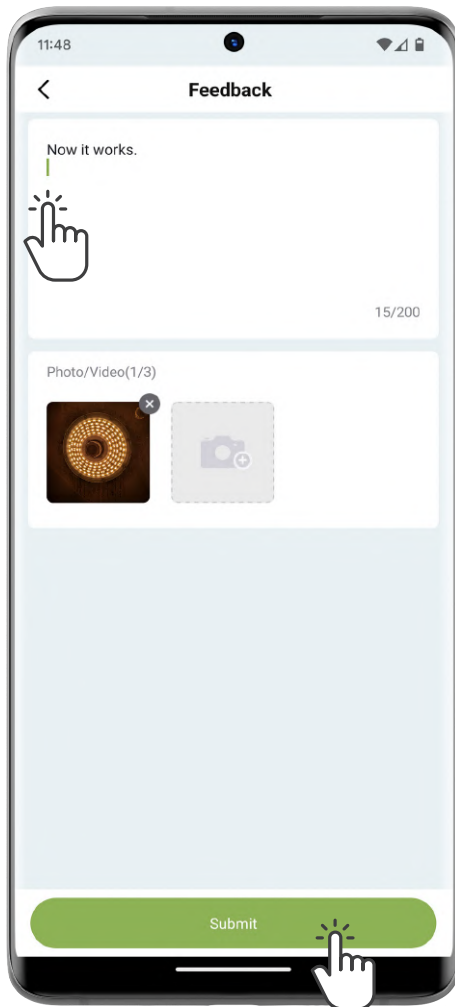
- 2 Find required ticket and tap on the **View Details** button



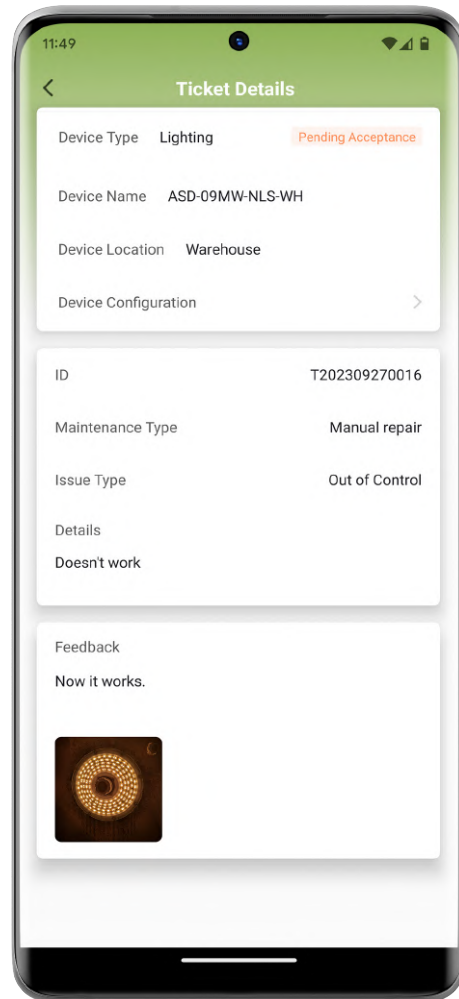
- 3 Once maintenance has been completed, tap on the **Maintenance Completed** button



Step IV: Maintenance part in ASD NLS



- ④ Add notes to the feedback field and a picture of the completed work
- ⑤ Tap on **Submit** button



- ⑥ Now the ticket is **Pending customer acceptance**