



Willow Sensors Outdoor Ultrasonic Distance Sensor Quick Start Guide

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Overview

The quick start guide explains the steps that should be followed by the user to realize the integration of WS-O-8-AE-UD-1 to Cloudgate and start to use the sensor.





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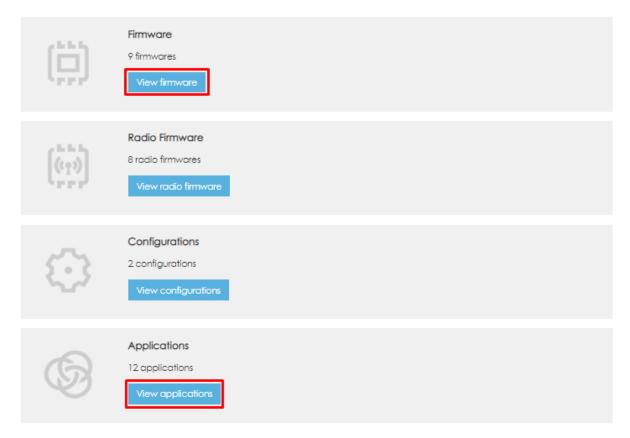
Integration Steps

Cloudgate Configurations

Cloudgate requires one time setup for the LuvitRED installation to enable LoRaWAN functionality. After the one time setup, user can skip Cloudgate Configuration steps.

To realize configurations, go to https://cloudgateuniverse.com/library and download the latest firmware and LuvitRED application. Choose which firmware to download according to your Cloudgate model.

1. View firmware and download it according to your Cloudgate model.



2. View applications and click on Option LuvitRED 2.0

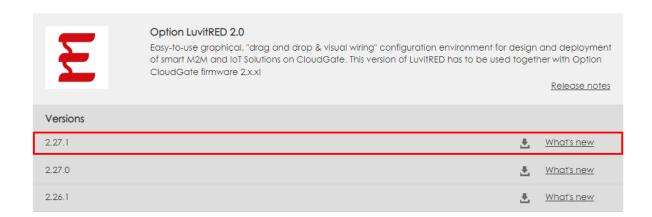




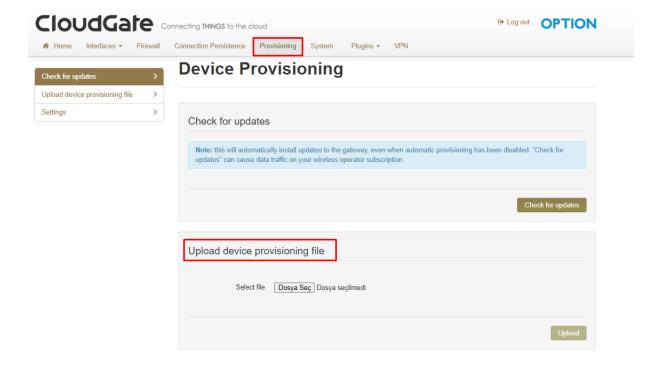
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3. Download the latest version



4. Now we are ready to complete configurations of Cloudgate. Once you open the Home Page of Cloudgate go to Provisioning tab and upload files we have downloaded.



Once the process done, you should be able to see related files on the home page.

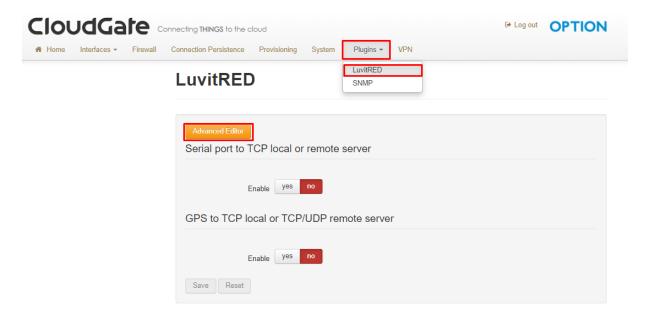
Firmware version: Option mini micro Firmware - 2.98.2
Image version: Option LuvitRED 2.0 - 2.27.0





LoRaWAN Sensor Activation LuvitRED

After completing one time setup, "LuvitRED" option will be shown under the "Plugins" tab. The user can access to LuvitRED by clicking "Plugins -> LuvitRED". A new screen appears after clicking "Plugins -> LuvitRED". Click on the "Advanced Editor" to access LuvitRED.



The following screen will appear after opening LuvitRED.





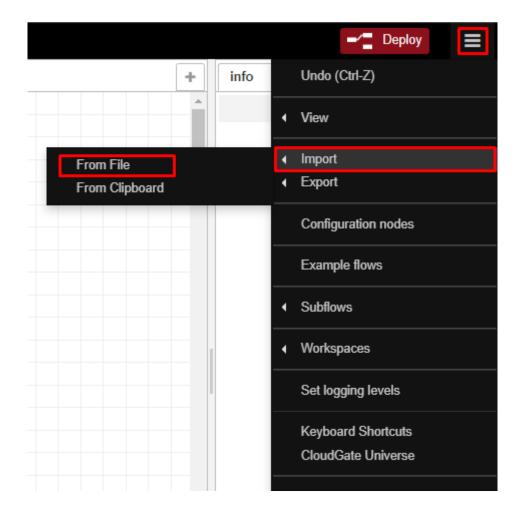


Import the application that we provide you by following the below steps. Download the application from the following link or use the embedded document below.

https://willowsoft.co/product/ultrasonik-mesafe-seviye-sensoru-dis-mekan/



The user can only import JSON files, by clicking menu icon at the top right side and click "Import -> From File" then choose the file we provide you.





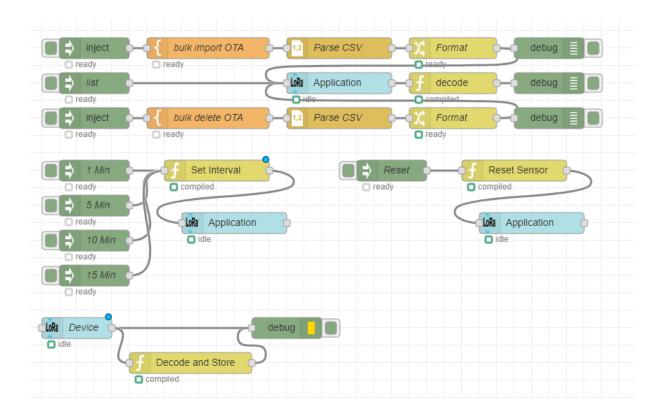




imp	ort nodes		
	Choose a file	Ultrasonic Distance LuvitRED_v2.27.0.jso	
		Close Ok	



Application should look like the following flow.





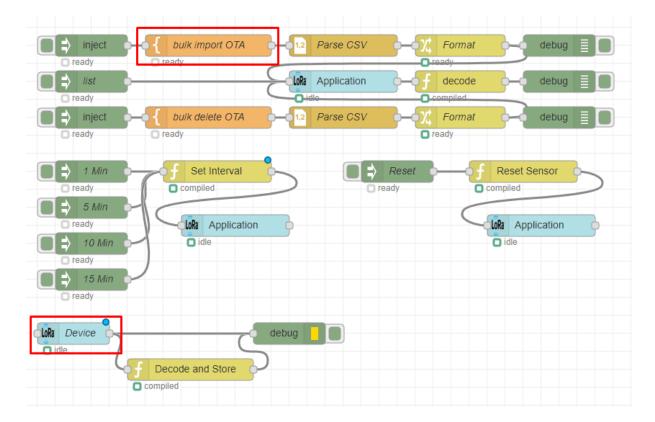
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Flow Configuration

As a next step we will enter "Device EUI" and "App Key" to connect our sensor.

Firstly, double click on "bulk import OTA" node and enter name, device EUI, and application key, as string.

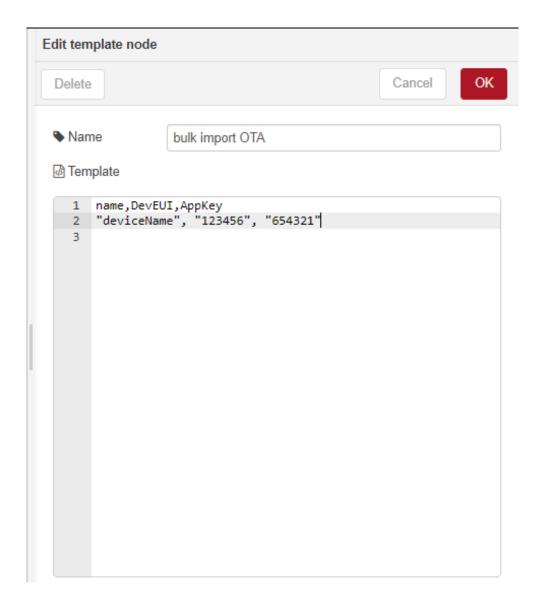




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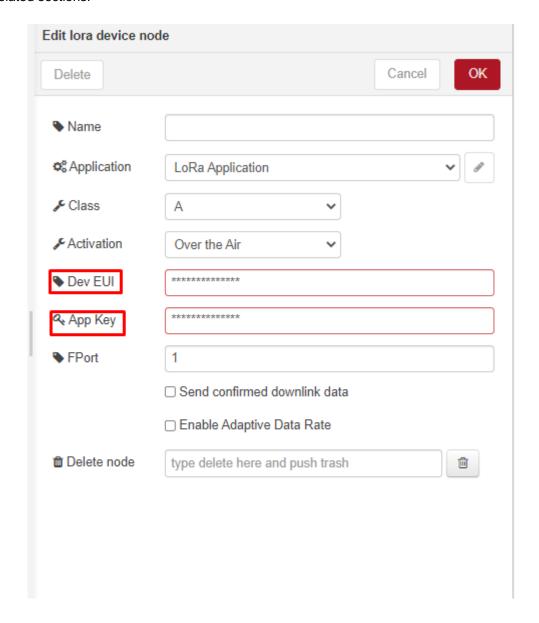
Here is an example





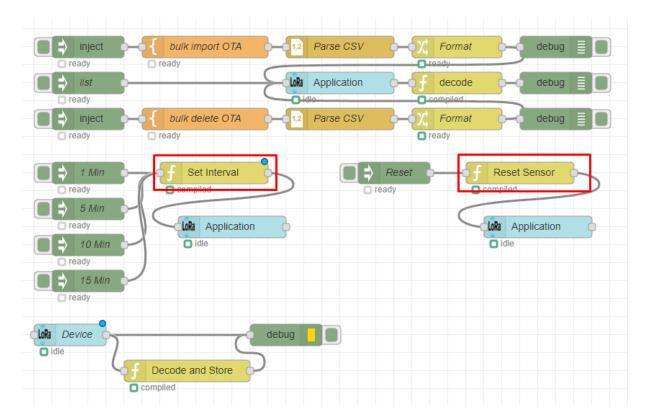


Once it is done click "OK" and double click "Device" node and enter Device EUI and Application Key into related sections.



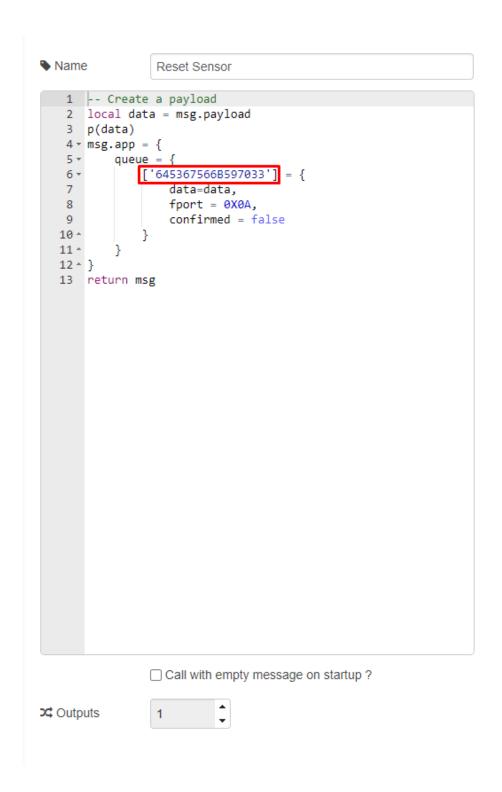


Lastly enter your Device EUI to the following functions.



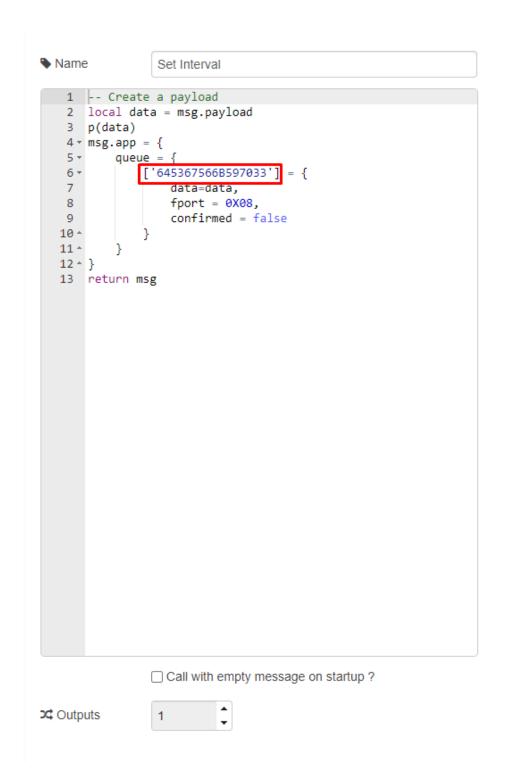


Enter your Device EUI to the following section.





Enter your Device EUI to the following section.





Now you can deploy the application by pressing the "Deploy" button which is located on the top right of the page. Once you activate your sensor, it will join to the network and start to send data.

From now on, user can use debug screen to see payload.

```
29.04.2022 10:43:48 [130038]

"Sensor Battery Level(%): 100"

29.04.2022 10:43:48 [130038]

"Internal Temperature Level(C): 20.5"

29.04.2022 10:43:48 [130038]

"Distance(cm): 113.7"
```