

User Manual for Aligarh smart city UI application

Last updated by | Ankit Shukla | Jan 27, 2023 at 3:38 PM GMT+5:30

[User Manual for Aligarh smart city UI application - Overview.pdf](#)

User Manual for Aligarh Smart City UI Application

History

No	Version	Description	Date	Prepared By
1	1.0	Aligarh user manual	27/01/2023	Ankit Shukla

Contents:-

1. Register.....01

2. Login Page.....01

3. Admin.....02

3.1 Device disjoining.....02

3.2 Send custom command02

3.3 Internet connection02

3.4 Date time configuration.....02

3.5 Gateway configuration.....03

4. Test.....04

4.1 Test individual light.....04

4.2 Test group controls.....04

4.3 Test system ports.....05

5. Manual commissioning..... 05

6. Auto commissioning.....06

1. Register

- This phase is under development.

2. Login Page

- This phase is also under development.

3. Admin

- Administrators support the smooth running of offices by carrying out clerical tasks and projects. As an administrator in the construction industry, you could be organizing project meetings. You'd be typing up documents, responding to business enquiries, drawing up contracts and providing customer service. In admin panel, there are 5 functionalities are described-

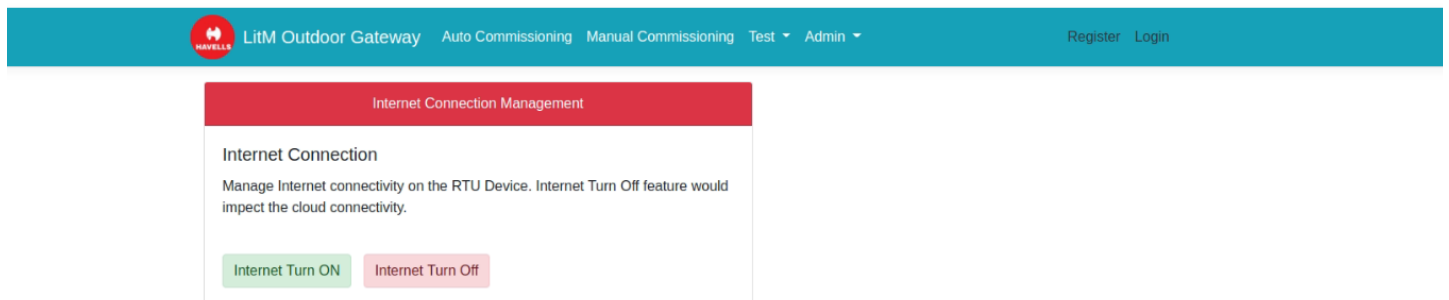
- 3.1 Device disjoining
- 3.2 Send custom Command
- 3.3 Internet connection
- 3.4 Date and time configuration
- 3.5 Gateway configuration

- **3.1 Device disjoining-**

- **3.2 send custom command-**

- **3.3 Internet connection-**

Manage Internet connectivity on the RTU Device. Internet Turn Off feature would impact the cloud connectivity.



3.4 To check RTC:

- Open local RTU application at localhost: 5000 go to admin and then Date Time Configuration



Error.

An error occurred while processing your request.

Request ID: |75b87bcf-49b9d692e2b10233.

Development Mode

Swapping to the **Development** environment displays detailed information about the error that occurred.

The **Development** environment shouldn't be enabled for deployed applications. It can result in displaying sensitive information from exceptions to end users. For local debugging, enable the **Development** environment by setting the **ASPNETCORE_ENVIRONMENT** environment variable to **Development** and restarting the app.

- After opening this page it should prompt for entering of date and time if you receive error it means RTC is not properly working,


The screenshot shows a web browser window with the address bar displaying "192.168.5.1:5000/Configuration/RtcTimeConfiguration". The page title is "EdgeGateway". The navigation menu includes "Home", "Test", "Device Management", "Demo", and "Admin". The main heading is "System DateTime Configuration". Below the heading, there is a section titled "Set DateTime" with a date and time input field showing "07/20/2021 12:34 PM" and a calendar icon. Below the input field are two buttons: "Save" (blue) and "Re-Start" (red). At the bottom, there is a link "Back to Home" in blue.

- Note: also remove dongle and then restart RTU after 10 mins to check whether RTC is functioning properly or not.

3.5 Gateway configuration


The gateway configuration file that is used for connection to ThingsBoard platform instance and enable/disable connectors. This configuration points to ThingsBoard instance thingsboard.cloud and uses memory file storage configured to store maximum of 100,000 records. There are 4 different

connectors active. If you like to use only one of them - just remove all other connectors.

<div>  LitM Outdoor Gateway Auto Commissioning Manual Commissioning Test ▾ Admin ▾ </div> <div> Register Login </div>			
<h2>Index</h2> Create New			
No.	Parameter Name	Value	
1	ReceiverFrequency	865900000	Edit Details Delete
2	TransmitterFrequency	865100000	Edit Details Delete
3	BroadcastId	0000	Edit Details Delete
4	JoiningFrequency	866550000	Edit Details Delete
5	DeviceId	0001	Edit Details Delete
6	DeviceGroupId	0001	Edit Details Delete
7	EnableSchedulerService	Yes	Edit Details Delete
8	JoiningSf	sf11	Edit Details Delete
9	ReceiverSf	sf12	Edit Details Delete
10	TransmitterSf	sf12	Edit Details Delete
11	NetworkId	0011	Edit Details Delete
12	DeviceName	GW BR2-113	Edit Details Delete
13	EnablePoolingService	No	Edit Details Delete

4.1 Test individual light-

- Here we will perform execution (operation) on a particular (single) light.

<div>  LitM Outdoor Gateway Auto Commissioning Manual Commissioning Test ▾ Admin ▾ </div> <div> Register Login </div>					
<h2>Individual Light Control</h2>					
<div>Poll For All Lights</div>					
<div>Radio Module ID : <input type="text"/> Filter/Search</div>					
No.	Node Id	Device Id	Device Name	Serial No	CCT/Intensity %
1	SHUKLA	02		1234567890123456	<div> <div>0 ▾</div> <div> <div>ON</div> <div>OFF</div> <div>CCT</div> <div>Intensity</div> <div>GetStatus</div> </div> </div>

4.2 Test group control-

- In group Control, we will divide lights in to different groups. Here, we will perform operations in to group of lights with the help of Single input.

Group Controls Test

Group ON/OFF

Group ON
Group OFF

Change CCT (All Lights) [50]


Change CCT

Change Intensity (All Lights) [50]

Change Intensity

4.3 To check System ports:

- open below page and click on read status it will tell the connectivity Status of all the system ports required.


LitM Outdoor Gateway
Auto Commissioning
Manual Commissioning
Test ▾
Admin ▾

Register
Login

System Ports Controlls

Read Status


Test Individual Light
Test Group Controls
Test System Ports

No.	Port Name	Description	Connected
1	/dev/ttyACM0	[USB] Transmitter Module Port	
2	/dev/ttyACM1	[USB] Receiver Module Port	
3	/dev/ttyACM2	[USB] Joining Module Port	
4	/dev/ttyUSB0	[USB] Internet Dongle Module Port	

5. Manual commissioning:

- In the lighting industry, the term “commissioning” is often applied to lighting control system activation, or factory start up, in which a manufacturer representative calibrates installed controls as a service.

- It may also be used to describe functional testing. Here commissioning perform manually.


LitM Outdoor Gateway
Auto Commissioning
Manual Commissioning
Test ▾
Admin ▾
Register
Login

Manual Device Commissioning

Upload file to Commission Multiple Devices [Download Template](#)

No file chosen


MAC Address :

No.	MACAddress	Radiold	Tested	Accepted	Ack	Status	DateTime			
1	4273ED25514E5454		Yes	No	No	T	1/24/2023 4:58:24 PM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>
2	4A4A097251524752		No	No	No	N	1/24/2023 5:07:20 PM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>
3	B1ABEC2551514635		No	No	No	N	1/25/2023 10:23:25 AM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>
4	4479304D51523134		No	No	No	N	1/25/2023 10:25:31 AM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>
5	F195033551523134		No	No	No	N	1/25/2023 10:25:41 AM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>
6	ANKIT	SHUKLA	Yes	Yes	Yes	J	1/25/2023 12:07:55 PM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>
7	8E6D700E51523134	04DA	Yes	Yes	No	A	1/25/2023 10:25:44 AM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>
8	E8A12EECE1E23134		No	No	No	N	1/25/2023 12:52:22 PM	<input type="button" value="Edit"/>	<input type="button" value="Details"/>	<input type="button" value="Delete"/>

6. Automatic Commissioning-

- The primary goal of commissioning is to ensure a building and its systems meet the owner's project requirements.
- This includes, but is not limited to, the following commissioning goals: To deliver a building or facility that performs according to its design intent and meets the owner's project requirements.

- This type of commissioning perform automatically.

 LitM Outdoor Gateway

Auto CommissioningManual CommissioningTestAdmin

RegisterLogin

Radio Join Requests

New 6Accepted 1Joined 1All Devices 8

MAC Address : Filter/Search

No.	MACAddress	NetworkId	Radioid	Tested	Accepted	Ack	Status	DateTime	
1	E8013EFF51523134			No	No	No	N	1/25/2023 12:52:32 PM	<div><div>Test</div><div>Accept</div><div>Reject</div><div>ForceJoin</div></div>
2	F195033551523134			No	No	No	N	1/25/2023 10:25:41 AM	<div><div>Test</div><div>Accept</div><div>Reject</div><div>ForceJoin</div></div>
3	4479304D51523134			No	No	No	N	1/25/2023 10:25:31 AM	<div><div>Test</div><div>Accept</div><div>Reject</div><div>ForceJoin</div></div>
4	B1ABEC2551514635			No	No	No	N	1/25/2023 10:23:25 AM	<div><div>Test</div><div>Accept</div><div>Reject</div><div>ForceJoin</div></div>
5	4A4A097251524752			No	No	No	N	1/24/2023 5:07:20 PM	<div><div>Test</div><div>Accept</div><div>Reject</div><div>ForceJoin</div></div>
6	4273ED25514E5454			Yes	No	No	T	1/24/2023 4:58:24 PM	<div><div>Test</div><div>Accept</div><div>Reject</div><div>ForceJoin</div></div>