



DELICIA COLD STORAGE MONITORING SYSTEM MANUAL

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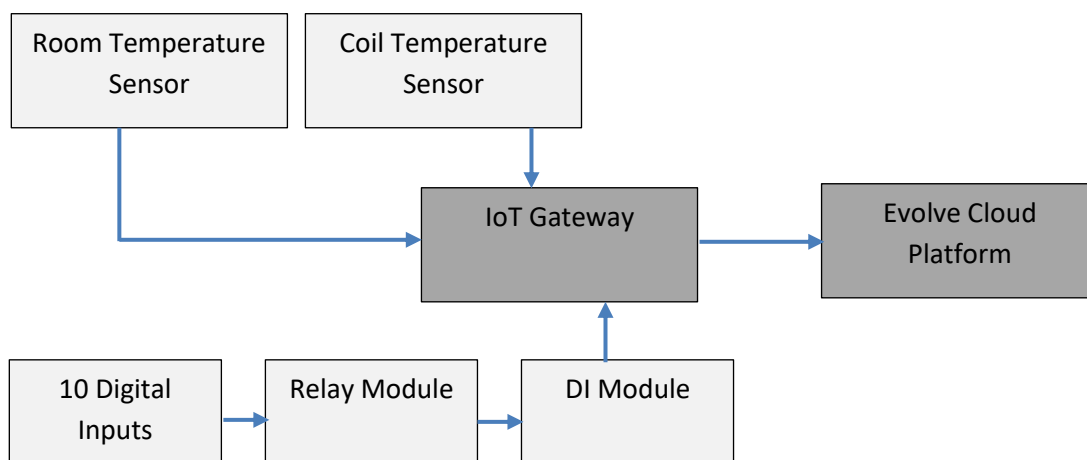
Introduction:

IoT Gateway is used to Monitor the temperature of cold storage.

There are 2 storage areas i.e Cold room and Dispatch area.

- Cold room has 2 Cooling units each has 2 temperature sensors and 10 digital indicators
- Dispatch area has 4 Cooling units each has 2 temperature sensors and 10 digital indicators
- There will be total 6 panels. One panel per unit.

Block Diagram:-



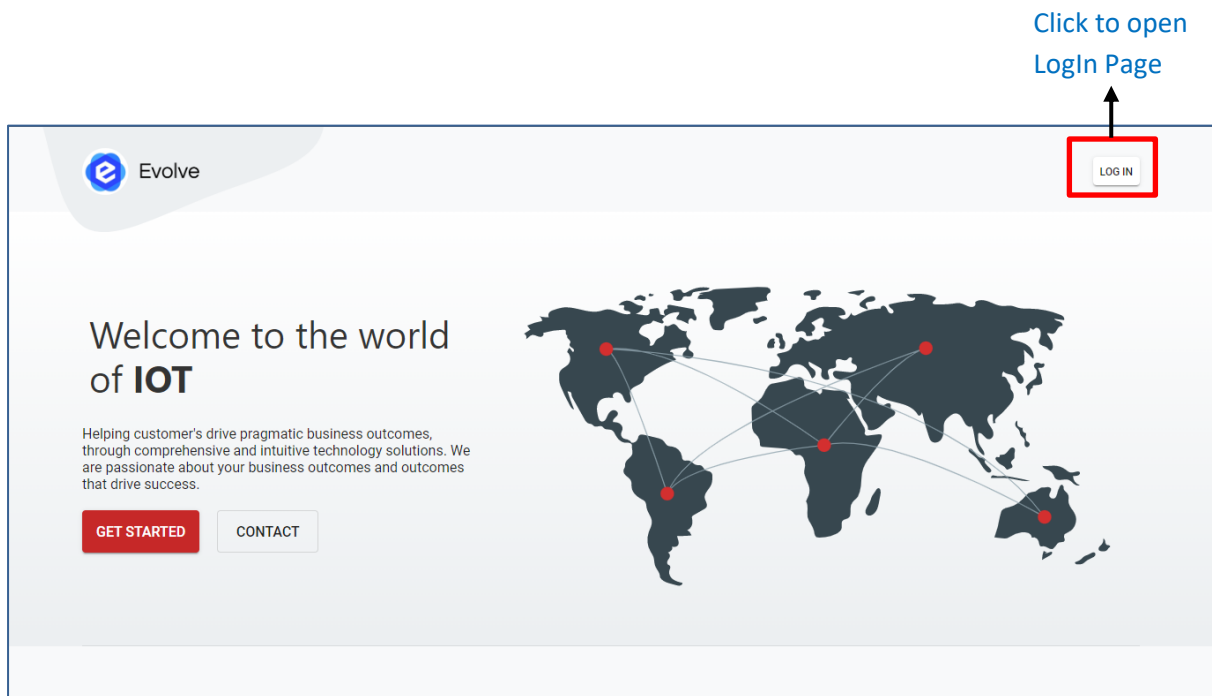
Connection Diagrams

Indicator input sequence

Indicator sequence	Indicator Name
1	HP
2	Line Heater
3	Heater
4	Compressor Off
5	Compressor Trip
6	Outdoor Fan
7	Indoor Fan
8	Oil Pressure
9	Control on/Off
10	LP

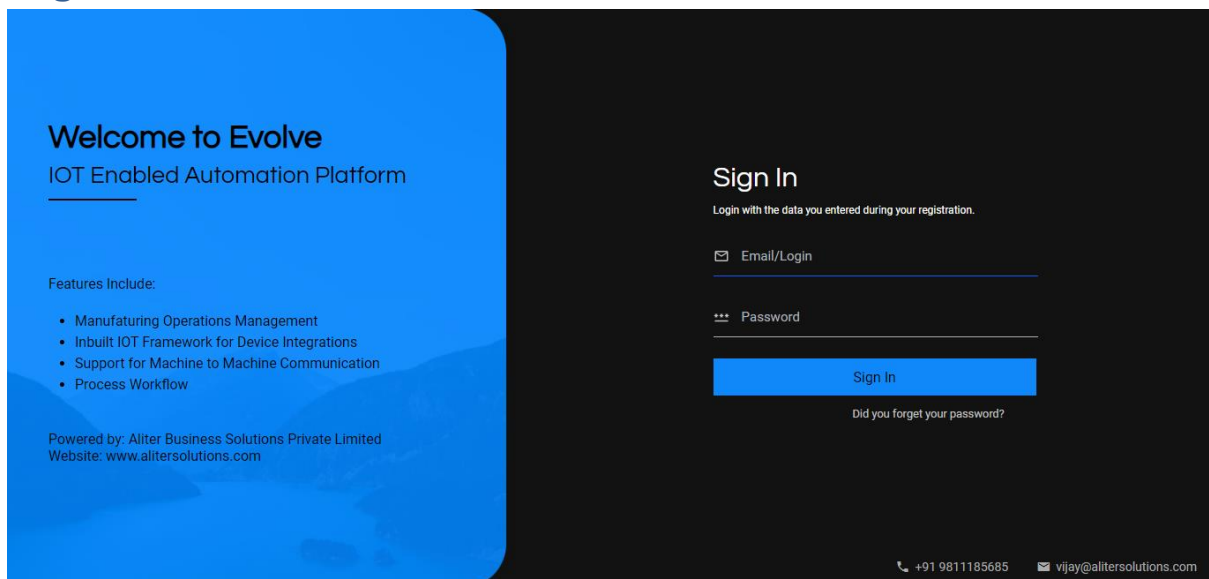


Evolve Main Page

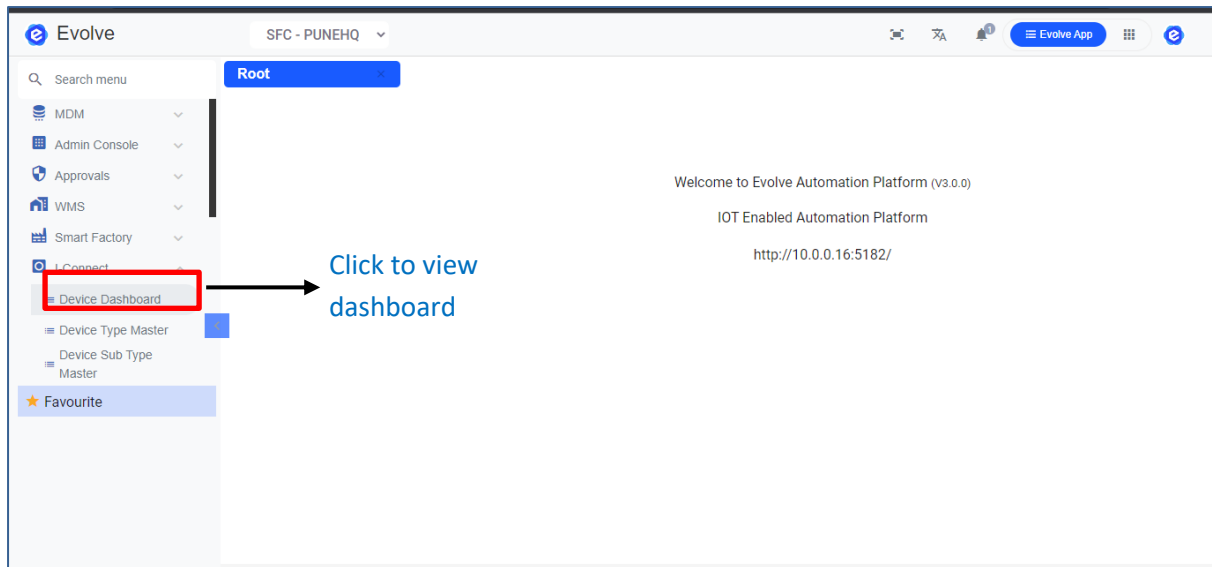


- Click log in to open below given Login Page

Login Screen:



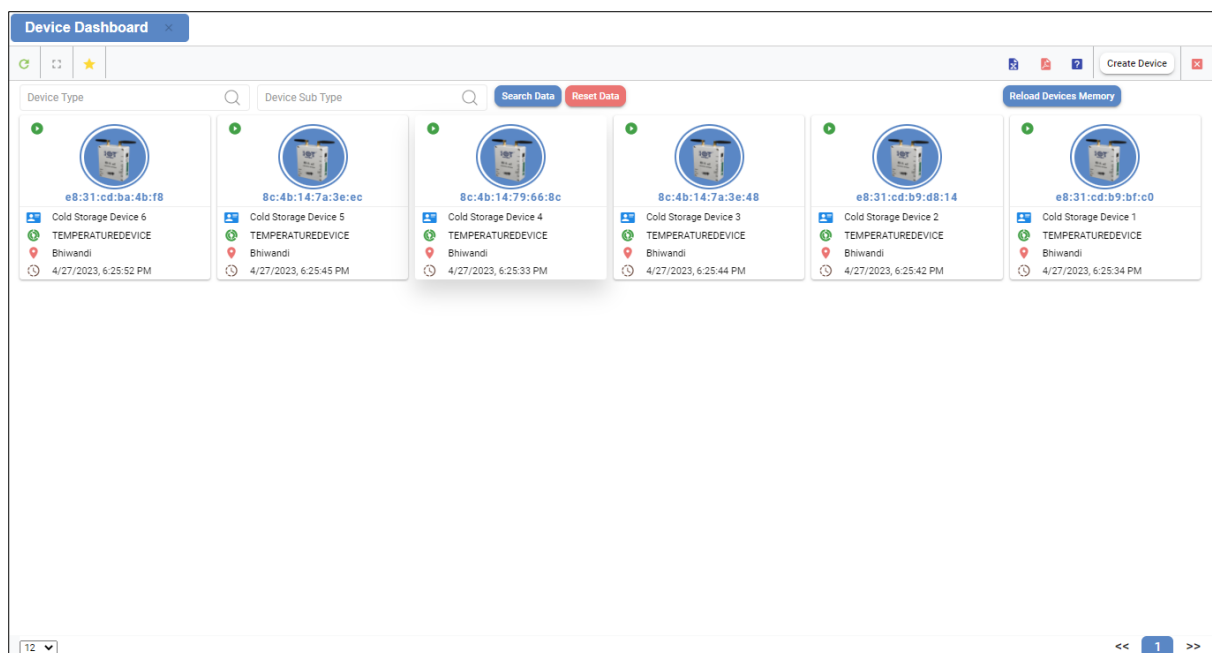
- Enter Login ID and password
- After Login is done following screen will appear.



- After selecting 'Device Dashboard' the following dashboard screen will appear

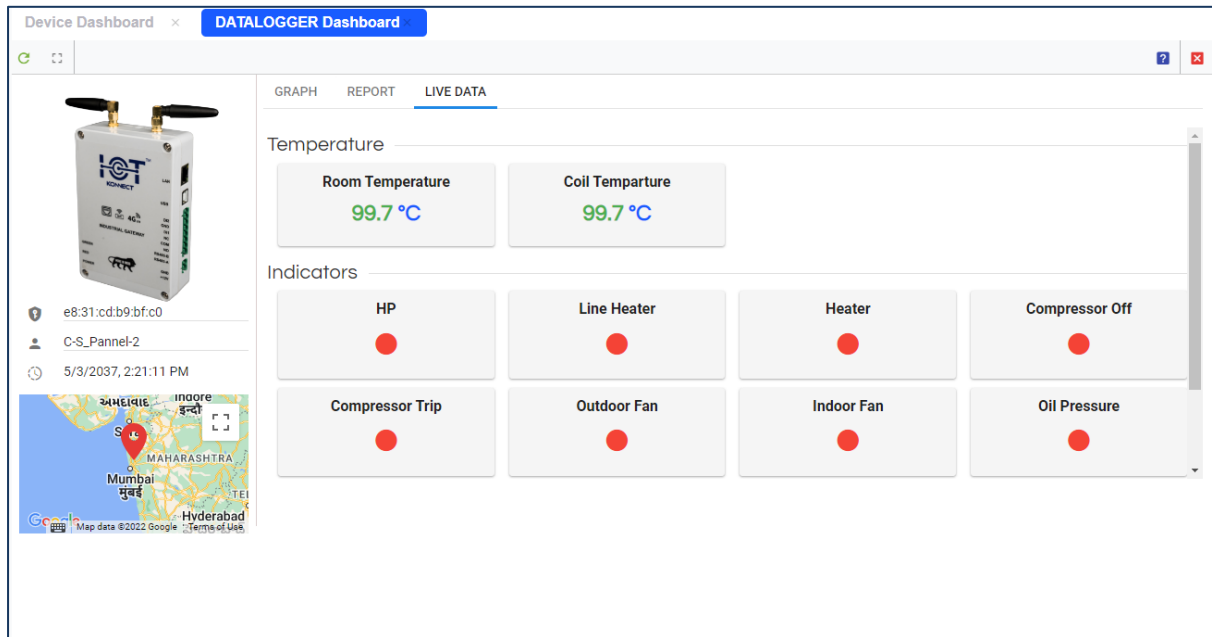
IoT Device List Screen

- Users can view the number of devices subscribed by them.
- Select the Device to view the data



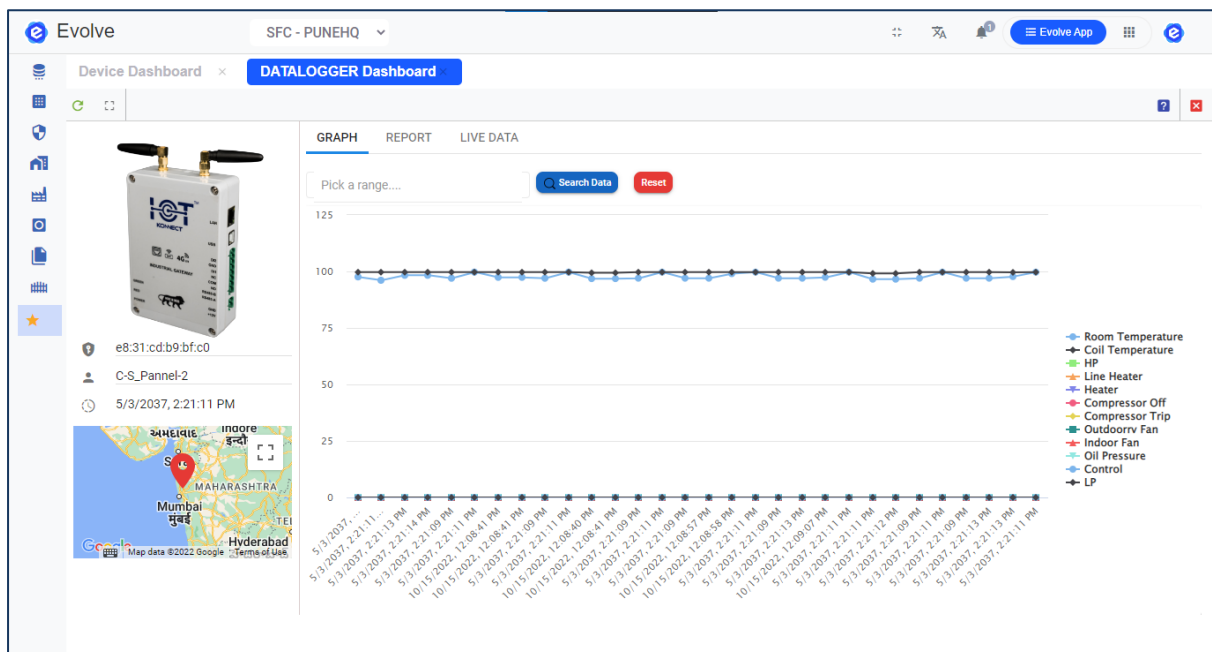
Device Dashboard Screen

- After selecting the device following screen will appear
- It will show all temperature and Indicators.



Graph Screen

- After selecting the Graph following screen will appear.
- It will show the graphs of all the parameters. User can select the parameters from the list given on the right-side



Report screen

- After selecting the Report following screen will appear.
- User can download the report by click on CSV. Report will be downloaded in csv format.

The screenshot shows the 'Evolve' DATALOGGER Dashboard. The 'REPORT' tab is selected, displaying a table of data points. The table has columns for various parameters: Room Temperature, Coil Temperature, HP, Line Heater, Heater, Compressor Off, Compressor Trip, Outdoor Fan, Indoor Fan, Oil Pressure, Control, and LP. The data is filtered by a range of 10 to 3158. A map on the left shows the location of the device in Mumbai, India.

Room Temperature	Coil Temperature	HP	Line Heater	Heater	Compressor Off	Compressor Trip	Outdoor Fan	Indoor Fan	Oil Pressure	Control	LP
14.1	11.6	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
14.6	12.1	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
15.6	15	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
15.6	15	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON
15.8	13.7	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON

User can pick the range to view the data as shown below.

The screenshot shows the 'Evolve' DATALOGGER Dashboard. The 'REPORT' tab is selected, displaying a date range picker. The date range is set from October 14, 2022, to November 14, 2022. The data table shows columns for Current, Frequency, R-phase Active Power, R-phase PF, and R-Y phase Voltage.

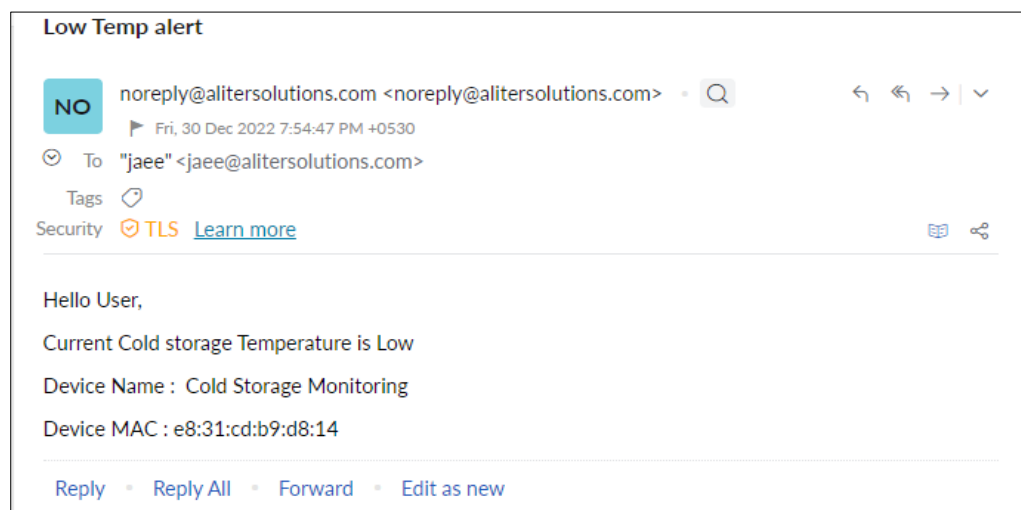
Current	Frequency	R-phase Active Power	R-phase PF	R-Y phase Voltage
49.92	45764.99	0.83	423.99	
49.93	45780.12	0.83	423.63	
49.92	45461.78	0.83	423.54	
49.94	43399.9	0.82	424.61	
49.96	43385.36	0.82	425.59	
49.97	43366.78	0.82	424.79	

Trigger Settings

User can set the triggers for High temperature, Low temperature in the system

Trigger Name	Trigger Code	IO Template	Trigger MatchType	Trigger Value	Trigger timeout	Trigger Option	Trigger Option Data	Trigger Unit	Trigger Status	Action
Low Temp	L_temp	COLDSTORAGE LT	0	120	ALLTIME	ALLTIME	PUNEHQ	ACTIVE		
High Temperature	HT	COLDSTORAGE GT	5	120	ALLTIME	ALLTIME	PUNEHQ	ACTIVE		

Depending on the set Trigger user will receive the email-notification as follows:



If the device goes offline due to any reason, user will receive the offline notification as follows:

