

Sollatek Phone App User Manual V1.0



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1 PURPOSE

To understand operation and basic functionality of Sollatek Devices using sollatek android phone application.

2 SCOPE

Useful for tester and final user.



3 DEFINATION(S) AND ABBREVIATION(S)

NAME	ABBREVIATION
DFU	Direct Firmware Upgrade
BLE	Bluetooth Low Energy

4 REFERENCE(S)

DOCUMENT NO	TITLE

5 DOCUMENT HISTORY

Version	Date completed	Written by	Reviewed by	Approved by
1.0	9 th December, 2019	Nirali Solanki	Bipin Patel	
	Initial Version			
	\blacktriangleright			



6 INTRODUCTION

1) Sollatek devices are BLE enabled and connected to controller module to see instantaneous real time data on phone screen as well as it logs temperature, voltage, power events, operation status change, relay status.



7 INSTALLATION AND LOGIN TOPHONE APP



1) Install App and click on "Sollatek" application icon to launch application.

If user is login first time then it will ask for Email (User id), Password and Server. Use valid credential for login and appropriate server and click on LOGIN button.
 <u>Note:</u> Please ensure Bluetooth & Internet connection (via Mobile Wi-Fi or Mobile Data) must be enabled in Phone otherwise login will be failed.

Soliatek			Sollatek:
Gateway Mac : 20:a6:0c:fa:dd:72		Sele	ect Server!
		0	Select Server
		۲	ATOS Codex
EMAIL	EŃ	0	Vision lot
PASSWORD	Pa	0	QA
		0	Dev
Select Server	A	0	Frigoglass China
Remember Me		0	Atos Test
LOGIN		0	Atos Retail
Privacy Policy			



8 SCANNING SCREEN OF PHONE APP

- 1) After successful login, application will direct to BLE scanning screen as shown below.
- Scanning screen will show available sollatek device list. User can identify particular device by its MAC address, Serial number or Cooler ID if Cooler ID is stored into device otherwise it will show "NA" for Cooler ID.



P1: Device Type

- P2: Device MAC Address
- P3: To make connection with device
- P4: Cooler ID. If it shows "NA" then it means no Cooler ID entered into Device.
- P5: Device Serial#
- P6: Last Seen: When phone app seen device at last
- P7: Status of device which include following
 - Power Status: Mains/Battery
 - UART Communication with Controller: OK/Not OK (App will show the Message "No Communication" when user try to read controller parameters)
 - Standby Mode: ON/OFF (When it is ON, device will not communicate with controller and so no event logging occurs)

P8: To expand parameters screen. Parameter screen will not expand if device is in following state.

(Battery mode)/ (communication is not OK)/ (Standby is ON).

P9: It Shows the Last Activity of GPRS as well as GPRS Status also.



NOTE: Standby mode functionality only supported for GBR-1, GBR-3, GBR-4, FFM-B, JEA and FCA3BB devices.

- 3) After expansion of screen, different screen will appear for different device type.
- 4) FFMB/GBR3/JEA/FFM2BB/GMC4/FFX:





P1: Total Number of Alarm(s) reported by controller

P2: Operation Status reported by controller

P3: Regulation Probe Temperature. If Regulation probe is faulty then it will show "Faulty". If Regulation Probe is not configured then we show "NA" there.

P4: Defrost Probe Temperature. If Defrost probe is faulty then it will show "Faulty". If Defrost Probe is not configured then we show "NA" there.

P5: Ambient Probe Temperature. If ambient probe is faulty then it will show "Faulty". If Ambient Probe is not configured then we show "NA" there.

P6: Condenser Probe Temperature. If Condenser probe is faulty then it will show "Faulty". If Condenser Probe is not configured then we show "NA" there. If Condenser Temperature is high then it will show "High" with temperature value. If Condenser Temperature is low then we show "Low" with temperature value.

P7: Door Status (Open/Close). If Door Alarm is high then It will show "Alarm" also. If Door Malfunction is high then It will show "Malfunction" also.

P8: Average Input voltage. It will also show "High" or "Low" with value of voltage according to High or Low voltage condition.

P9: Compressor Status

P10: Evaporator Fan Status

P11: Heater Status

P12: Light Status



5) GBR1/GBR4/FCAx3-BB/FDE:



- P1: Total Number of Alarm(s) reported by controller
- P2: Operation Status reported by controller
- P3: Regulation Probe Temperature. If Regulation probe is faulty then it will show "Faulty". If
- Regulation Probe is not configured then we show "NA" there.
- P4: Defrost Probe Temperature. If Defrost probe is faulty then it will show "Faulty". If
- Defrost Probe is not configured then we show "NA" there.
- P5: Door Status (Open/Close). If Door Alarm is high then It will show "Alarm" also. If Door Malfunction is high then It will show "Malfunction" also.
- Malfunction is high then It will show "Malfunction" also.
- P6: Voltage if provided by controller
- P7: Compressor Status
- <mark>P8:</mark> Fan Status
- P9: Heater Status
- P10: Light Status



9 COOLER LIVE IMAGE

- 1) On scanning window, there is button on left side of MAC address as shown in figure. By clicking on it, User can see a live cooler Image.
- 2) This live image contains Cooler Sr#, Ambient temperature, Evaporator temperature, Cooler air temperature, condenser temperature, Heater status, Evaporator Fan status, Light status, Door status, Power Status with Voltage.

NOTE: Cooler Image functionality is not available for Sollatek GBR4 and FCA×3BB as of now.







10 DEVICE CONFIGURATION PARAMETERS

1) After connection with device, following screen appears first which shows configuration parameter of device.

Tab, user can set following parameters.

=	1C:CA:E3:2 Sollatek FFM-B	0:B5:32 Sr# : 136386	<u>,</u>
BLE Device	8LUETOOTH	Controller	CLOUD
FIRMWARE	VERSION		2.25
CURRENT TIM	E BLE Device PHONE	30/08/2018 (30/08/2018 (04:08:26 PI
Current E	vent Index	1236	5
Last Even	it Index	1181	12
Enable M	ultipassword		ENABLE
Set He	alth Event Int	erval	SAVE
Health Eve	nt Interval(In		60
Minutes)		<u> </u>	
Minutes) Set Enviro	onment Event	Interval	SAVE

- 2) After connection, under
 - 1) Set Date Time
 - 2) Enable/disable Multilevel password
 - 3) Set Health Event Interval
 - 4) Set Environment Event Interval
 - 5) Set Advertisement Interval
 - 6) Set Tx Power
 - 7) Set Energy Saving Advertisement Interval and Tx Power
 - 8) Diagnostic event interval
 - 9) Battery mode timeout interval
 - 10) Standby Mode ON/OFF
 - 11) Restart Device
 - 12) Factory Reset Device
 - 13) Stop Advertisement
 - 14) Set SH APN
 - 15) Set SH URL
 - 16) Set Mains Power Task Interval
 - 17) Set Battery Power Task
 - 18) Cooler Lock Days



10.1 SET DATE TIME

> Click on symbol shown in figure by yellow arrow to set current date time.



10.2 ENABLE/ DISABLE MULTILEVEL PASSWORD

> Click on button as shown in figure for enable/disable multilevel password





10.3 SET HEALTH EVENT INTERVAL

- 1) User can set Health event Interval in range of 1 to 240 minutes.
- 2) Health event logs Regulation temperature, Defrost temperature and Condenser temperature of cooler.
- 3) After changing value, click on save button to save it.





10.4 SET ENVIRONMENT EVENT INTERVAL

- 1) User can set Environment event Interval in range of 1 to 240 minutes.
- 2) Environment event logs ambient temperature and cooler Voltage.
- 3) After changing value, click on save button to save it.

≡	1C:CA:E3: Sollatek FFM-E	20:85:32 Sr# : 136386	圓
BLE Device	BLUETOOTH	Controller	CLOUD
Set H	ealth Event In	terval	SAVE
Health Eve Minutes)	ent Interval(In		60
Set Envir	onment Even	t Interval	SAVE
Environme Minutes)	ent Event Interv	al(In	60
s	et Advertisen	nent Interval	SAVE
Advertise Interval(M	ment lilliseconds)		100
	Diagnostic Ev	ent Interval	SAVE
Diagnostio Minutes)	c Event Interval	(in	2

NOTE: Environment event interval is applicable to FFM-B, GBR-3, FFX, GMC-4, FFM-2BB and JEA.



10.5 SET ADVERTISEMENT INTERVAL OF MAIN ADVERTISEMENT FRAME

- 1) User can set BLE Advertisement Interval in range of 20 to 10000 millisecond.
- 2) After changing value, click on save button to save it.

≡	1C:CA:E3: Sollatek FFM-E	20:B5:32 Sr# : 136386	(E)
BLE Device	BLUETOOTH	Controller	CLOUD
Set F	lealth Event In	terval	SAVE
Health Ev Minutes)	vent Interval(In		60
Set Envi	ronment Even	t Interval	SAVE
Environm Minutes)	ent Event Interv	al(In	60
	Set Advertisen	nent Interva	I SAVE
Advertise Interval(N	ement Ailliseconds)		100
	Diagnostic Ev	ent Interval	SAVE
Diagnost Minutes)	c Event Interval	(in	2



10.6 SET TX POWER OF MAIN ADVERTISEMENT FRAME

- 1) User can select BLE Tx power for Normal advertisement with option of -20, -16, -12, -8, -4, 0 and 4 dBm.
- 2) After changing value, click on save button to save it.





10.7 SET ENERGY SAVING ADVERTISEMENT INTERVAL AND TX POWER OF MAIN ADVERTISEMENT FRAME

- 1) BLE Main frame advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 2) Range for advertisement interval is from 20 to 10000 millisecond.
- 3) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 4) Please press on SAVE button after setting.

≡	1C:CA:E3:20:0 Sr#: 00	091997	王	≡	1C:CA:E3:20:0 Sr#: 00	07:CD - FFM-B 091997) (月)	≡	1C:CA:E3:20: Sr#: 0	07:CD - FFM-B 0091997	(里)
BLE Device	BLUETOOTH	Controller	CL000	BLE Device	BLUETOOTH	Controller	CL000	BLE Device	BLUETOOTH	Controller	CLOUD
Minutes)	н суен, плегуац		60	Factor	at Funct Internal	0m		Minutes)	IL EVEN, III.EFFA	(m	60
	Set Advertiser	ment interval	SAVE	Minutes)	nt event interval	un	-20		Set Advertise	ment Interval	SAVE
Advertisem	ent Interval(Milli	iseconds)	2000		Set Advertiser	ment interva	-16 SAVE	Advertisen	ient Interval(Mil	liseconds)	2000
_	Enorgy Souin	a Paramator	SAVE	Advertisem	tent Interval(Mill	iseconds)	-8		Energy Savir	ig Parameter	SAVE
Advertices	energy savin	(perconde)	5000		Energy Savin	g Parameter	-4 SAVE	Advertiser	nent Interval(mi	lliseconds)	5000
TX Dever			5000	Advertisen	nent Interval(mil	liseconds)	0	TX Power(ibm)		0 -
TX Power(c	10(11)			TX Power(c	dbm)		0 -		Diagnostic E	vent Interval	SAVE
	Diagnostic Ev	ent Interval	SAVE		Diagnostic E	vent Interval	SAVE	Diagnostic	Event Interval(ir	Minutes)	0
Diagnostic	Event Interval(in	Minutes)	0	Diagnostic	Event Interval(in	Minutes)	0		Operation 0	hange Log	SAVE
	Operation Cl	hange Log	SAVE		Operation C	hange Log	SAVE	Operation	Change Log		
Operation 0	Change Log		1.2			• •			-	• •	

NOTE: Energy saving functionality is applicable to FFM-B, GBR1, GBR3, GBR4, JEA and FCA×3BB.



10.8 SET DIAGNOSTIC EVENT INTERVAL

- 1) User can set Diagnostic event Interval in range of 0 to 240 minutes.
- 2) Diagnostic event logs FFA module activities.
- 3) After changing value, click on save button to save it.

≡	1C:CA:E3: Sollatek FFM-B	20:B5:32 Sr# : 136386	圕
BLE Device	BLUETOOTH	Controller	CLOUD
Set H	ealth Event In	terval	SAVE
Health Eve Minutes)	ent Interval(In		60
Set Envir	onment Event	t Interval	SAVE
Environme Minutes)	ent Event Interv	al(In	60
S	et Advertisen	nent Interval	SAVE
Advertiser Interval(M	ment lilliseconds)		100
	Diagnostic Ev	ent Interval	SAVE
Diagnostio Minutes)	c Event Interval	in	2

NOTE: Diagnostic event interval is applicable for FFM-B, FFM-2BB, and GMC-4.



10.9 SET BATTERY TIMEOUT MODE INTERVAL

- 1) User can select the battery time out mode in 0 to 1440 minutes.
- 2) Battery time out mode is used for Device Advertisement time in Battery mode.
- 3) If User set the 2min in battery timeout mode then Device advertises 2min in Battery mode

	1CCAE3 Sollatek GBR	1	
BLE Device	BLUETOOTH	Controller	CLOUD
s	et Advertisen	nent Interval	SAVE
Advertise Interval(N	ment Iilliseconds)	1	000
	Set Tx F	ower	SAVE
Tx Power	(dBm)	4	•
	Set Battery Mo	ode Timeout	SAVE
Battery M minutes)	ode Timeout (Ir		30
	Set Stand	by Mode	
Standby S	status	OFF	

NOTE: Battery timeout mode functionality is applicable to GBR1, GBR3, GBR4, JEA and FCAx3-BB.



10.10 CONTROL STAND BY MODE

Device can be operated into standby mode or normal mode.

To Enable/Disable Standby mode

- 1) User can ON/OFF standby mode here
- 2) If standby mode is ON then it will stop event logging in memory and also don't communicate with FFA module.
- 3) If standby mode is OFF then it will start event logging and communicate with controller again. This is a Normal mode.

≡	1C:CA:E3: Sollatek FFM-E	20:B5:32 Sr# : 136386	圓
BLE Device	BLUETOOTH	Controller	CLOUD
S Advertise Interval(M	et Advertisen ment lilliseconds)	nent Interval	SAVE 00
	Diagnostic Ev	ent Interval	SAVE
Diagnostio Minutes)	c Event Interval	(in	2
	Set Tx F	Power	SAVE
Tx Power(dBm)	-12	.
	Set Stand	by Mode	
Standby S	itatus	OFF	

NOTE: Standby mode functionality is supported for FFM-B, GBR1, GBR3, GBR4, JEA and FCAx3-BB.



10.11 RESTART DEVICE

≣←,	1C:CA:E3: Sollatek FFM-E	20:85:32 Sr# : 136386	圕	READ EVENT DATA	1
BLE Device	BLUETOOTH	Controller	CLOUD	READ UNREAD EVENT(S)	CLOUD
FIRMWARE V	/ERSION		0.05	CHANGE SERIAL NUMBER	2.25
			2.25	RESTART	2.20
URRENT TIME	BLE Device PHONE	30/08/2018 04 30/08/2018 04	4:00:10 Pl 4:00:11 Pl	FACTORY RESET	03:07 Pl 03:07 Pl
Current Ev	ent Index	1234	5	STOP ADVERTISEMENT	
Last Event	Index	1181	2		
Enable Mu	ltipassword		ENABLE		NABLE
Set Hea	alth Event In	terval	SAVE		SAVE
Health Even Minutes)	t Interval(In		60		50
Set Enviror	nment Even	Interval	SAVE		SAVE
Environmen	t Event Interv	al(In			

1) User can restart (power cycle) the device by clicking on following sequence.



10.12 FACTORY RESET DEVICE

- 1) User can restore all settings to factory default by clicking on following sequence.
- 2) By factory reset, all logged event data will be erased and device will start event logging from Initial.





10.13 STOP ADVERTISEMENT

- 1) User can stop advertisement of the device by clicking on following sequence.
- 2) Advertisement can be started again automatically when Mains supply given to the device again.

1C:CA:E3:20:B5:32 Sollatek FFM-B Sr# : 136386	READ EVENT DATA
BLE Device BLUETOOTH Controller CLOUD	READ UNREAD EVENT(S)
FIRMWARE VERSION 2.25	CHANGE SERIAL NUMBER
	RESTART
CURRENT TIME BLE Device 30/08/2018 04:00:10 PI PHONE 30/08/2018 04:00:11 PI	FACTORY RESET
Current Event Index 12345	STOP ADVERTISEMENT
Last Event Index 11812	
Enable Multipassword ENABLE	NABLE
Set Health Event Interval SAVE	SAVE
Health Event Interval(In Kinutes)	50
Set Environment Event Interval SAVE	SAVE
Environment Event Interval(In	



10.14 SET SH APN

- 1) User can change the APN by using the "SET SH APN" Command
- 2) Please press on SET button after setting





10.15 SET SH URL

- 1) User Can Change the Server by using the "SET SH URL".
- 2) Please press on SET button after setting

<u>NOTE:</u> The Command needs the 100% Accuracy, If the user makes any error when set the command then the device got default Device SR#(1138575) then Device does not longer to connect with the Server or connect using App.

= - 1C:CA:E3:20:0D:4C - FDE E	READ UNREAD EVENT(S)	<u>ال</u>	≡			
BLE Device BLUETOOTH EMD CLOUD	RESTART	CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD
BLE FW Version 6.09	FACTORY RESET	6.09	BLE FW Ver	sion		7.08
	STOP ADVERTISEMENT			_	_	_
CURRENT TIME BLE Device 11/12/2019 04:52:31 PM PHONE 11/12/2019 04:52:29 PM O	SET SH APN	04:52:31 PM 04:52:29 PM	CURRENT TIN	ME BLE Device PHONE	12/12/2019 11: 12/12/2019 11:	52.37 AM 52.34 AM
Current Event Index 24386	SET SH URL	386	Set 9			-
Last Event Index 24385	SET MAINS POWER TASK INTERVAL	385	URL	IT ONE		
Enable Multipassword DISABLE	SET BATTERY POWER TASK	DISABLE				
Set Health Event Interval SAVE		SAVE			CANCEL	SET
Health Event Interval(In Minutes) 10		10	Health Eve	nt Interval(In Mii	nutes)	10
Set & dvertisement interval			Set Env	vironment Ever	nt Interval	SAVE
Advertisement Interval(Milliseconds) 1000		1000	Environme Minutes)	nt Event Interval	(In	60
				Diagnostic P	vent Interval	SAVE
Set Ty Power SAVE		041/5				



10.16 SET MAINS POWER TASK INTERVAL

- 1) User can Update the GPRS and Wi-Fi Interval Using this Command Menu>>Set Mains Power task Interval.
- 2) If User Need to Change the Interval of Device Communication with the server or get Wi-Fi Location time then Use same Command.
- 3) Please press on SET button after setting





10.17 SET BATTERY POWER TASK

- 1) User can Update the GPRS or Wi-Fi Interval without Motion Using this Command
- 2) User can Change GPRS or Wi-Fi interval with Motion Interval and Motion Stop Interval using this Command, Menu>>Set Battery Power task Interval.
- 3) Please press on SET button after setting

=	1C:CA:E3:20: Sr#: 000	0D:4C - FDE 193404	(.	READ UNREAD EVENT(S)	(E)	Ξ	1C:CA:E3:24:F Sr#: 00	1:64 - FFM2BB 1413940	Æ
BLE Device	BLUETOOTH	EMD	CLOUD	RESTART	CLOUD	BLE Device	* BELIETOOTH	Controller	CLOUD
BLE FW Versio	n (6.09	FACTORY RESET	6.09	BLE FW Ver	slon	_	7.08
CURRENT TIME	BLE Device PHONE	11/12/2019 04.5 11/12/2019 04.5	2.31 PM 52.29 PM	SET SH APN	14:52:31 PM	CURRENT TIM	E BLE Device PHONE	12/12/2019 11 12/12/2019 11	52.37 AM
Current Even Last Event I	nt Index ndex	2438 2438	6 5	SET SH URL	386 385	Set B	attery Power	Task Interv	al
Enable Mult	ipassword		DISABLE	SET BATTERY POWER TASK	DISABLE	Wifi With	ut Motion Motion	_	
Set He	alth Event Int	erval	SAVE		SAVE	Motion Ev	ent Stop Interva	CANCEL	SET
Health Event	Interval(In Min	utes)	10		10	Health Ever	nt Interval(In Mir	nutes)	10
S	et Advertisen	nent Interval	SAVE		SAVE	Set Env	ironment Ever	it Interval	SAVE
Advertisemer	nt Interval(Millie	seconds)	1000		1000	Environmer Minutes)	nt Event Interval	(in	60
	Set Ty Power		SAVE		SAVE				SAVE



10.18 SET COOLER LOCK DAYS

- 1) User can set Cooler Lock days in range of 0 to 365 Days.
- 2) After changing value, click on save button to save it.



NOTE: This parameter is supported by JEA and FFX.



11 DIFFERENT BLUETOOTH FRAMES AND CONFIGURATION

11.1 IBEACON FRAME CONFIGURATION

11.1.1 ENABLE/DISABLE IBEACON FRAME

- 1) iBeacon frame can be enabled/disabled as per shown in figure.
- 2) Please press on SAVE button after setting.





11.1.2 SET UUID

- 1) iBeacon UUID can be modified by clicking on UUID raw as per shown in figure.
- 2) UUID should be 16 byte long.
- 3) Please press on SAVE button after setting.





11.1.3 SET MAJOR, MINOR AND RSSI

Enable

- 1) iBeacon Major, Minor and RSSI can be modified by clicking on respective raw as per shown in figure.
- 2) Range for Major and Minor is from 1 to 65535.
- 3) Range for RSSI is from -128 to 127 dbm.
- 4) Please press on SAVE button after setting



Enable



11.1.4 SET ADVERTISEMENT INTERVAL AND TX POWER

- 1) iBeacon advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 2) Range for advertisement interval is from 20 to 10000 millisecond.
- 3) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 4) Please press on SAVE button after setting.





11.1.5 SET ADVERTISEMENT INTERVAL AND TX POWER FOR ENERGY SAVING MODE

- 1) In Energy saving mode, User can select high advertisement period and low Tx power to save energy of device mainly during on battery mode.
- 2) Advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 3) Range for advertisement interval is from 20 to 10000 millisecond.
- 4) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 5) Please press on SAVE button after setting.



NOTE: After modification of settings, Click on SAVE button is compulsory to save modified parameters in device.



11.2 EDDYSTONE UID CONFIGURATION

11.2.1 ENABLE/DISABLE UID FRAME

- 1) Eddystone UID frame can be enabled/disabled as per shown in figure.
- 2) Please press on SAVE button after setting.





11.2.2 SET UID NAMESPACE AND INSTANCE

- 1) Eddystone UID Namespace and Instance can be modified by clicking on respective raw as per shown in figure.
- 2) Namespace should be 10 byte long and Instance should be 6 byte long.
- 3) Please press on SAVE button after setting.

=	1C:CA:E3:20:B Sollatek FFM-B Sr#	5:32 : 136386	<u>.</u>	≡	1C:CA:E3 Sollatek FFM-I	:20:85:32 8 Sr# : 136386			1C:CA:E3 Sollatek FFM-	:20:85:32 8 Sr# : 136386	
BLE Device	BLUETOOTH CO	ontroller	CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD	HILE Device	BLUETOOTH	Controller	CLOUD
Eddystor	e UID Configura	ation	SAVE	Eddystor	ne UID Confi	guration	SAVE	Eddystor			SAVE
Enable				Enable				Enable			
UID Name UID Instar	ispace 636f6	5b6563406 10000	0500005	UID Name UUD UID I 630	Aspace Namespace 5f6b6563400	636 <u>f66656340</u> 63656575	63656575	UID Name U UID 100	espace Instance 0000500005	636f6b65634	063656575
Advertisir Energy Sa	ig Interval(millisecon	nds) m)	0 1450 0	A Energy Sa	CANCEL aving Power (Tx	SET		A Energy St	CANCEL	SET	
Energy Sa	ving Interval(millise	conds)	1580	Energy Sa	aving Interval(m	illiseconds)		Energy Sa	eving Interval(m	nilliseconds)	1580
Eddystor	e URL Configur	ation	SAVE				SAVE	Eddystor	e URL Conf	iguration	SAVE
Enable				Enable				Enable			
URL http:	s://eiot.co/136386	ŀ	RESET URL	URL http	s://eiot.co/136	386	RESET URL	URL http	s://elot.co/136	386	RESET URL
Broadcas	t(Tx) Power(dBm)		4	Broadcas	t(Tx) Power(dB	m)	4	Broadcas	t(Tx) Power(dB	im)	4



11.2.3 SET ADVERTISEMENT INTERVAL AND TX POWER

- 1) Advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 2) Range for advertisement interval is from 20 to 10000 millisecond.
- 3) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 4) Please press on SAVE button after setting.





11.2.4 SET ADVERTISEMENT INTERVAL AND TX POWER FOR ENERGY SAVING MODE

- 1) In Energy saving mode, User can select high advertisement period and low Tx power to save energy of device mainly during on battery mode.
- 2) Advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 3) Range for advertisement interval is from 20 to 10000 millisecond.
- 4) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 5) Please press on SAVE button after setting.



NOTE: After modification of settings, Click on SAVE button is compulsory to save modified parameters in device.



11.3 EDDYSTONE URL CONFIGURATION

11.3.1 ENABLE/DISABLE URL FRAME

- 1) Eddystone URL frame can be enabled/disabled as per shown in figure.
- 2) Please press on SAVE button after setting.

≡	1C:CA:E3 Sollatek FFM-I	:20:85:32 8 Sr# : 13638	, E
BLE Device	BLUETOOTH	Controller	CLOUD
Eddyston	e URL Conf	iguration	SAVE
Enable			
Tap he enable frame	ere for e/disable	86	RESET URL
		h)	4
Advertisin	g Interval(milli	seconds)	1330
Energy Sa	ving Power (Tx)(dBm)	0
Energy Sa	ving Interval(m	illiseconds)	1250
Eddyston	e TLM Cont	figuration	SAVE
Enable			
Broadcast	(Tx) Power(dB	m)	0
Advertisin	g Interval(milli	seconds)	1450
Enerov Sa	vina Power (Tx)(dBm)	0



11.3.2 SET URL

- 1) Eddystone URL can be can be modified by clicking on respective raw as per shown in figure.
- 2) Please press on SAVE button after setting.





11.3.3 RESET URL

- 1) User can set URL to default factory setting by clicking on "RESET URL" button as shown in figure.
- 2) Default URL format is (https://eiot.com/serialnumber)





11.3.4 SET ADVERTISEMENT INTERVAL AND TX POWER

- 1) Advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 2) Range for advertisement interval is from 20 to 10000 millisecond.
- 3) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 4) Please press on SAVE button after setting.

=	1C:CA:E3:20 Sollatek FFM-B S):B5:32 ir# : 136386		≡	1C:CA:E3 Sollatek FFM-	:20:B5:32 B Sr# : 136386	E	=	1C:CA:E3 Sollatek FFM-	:20:85:32 3 Sr# : 136386	1
BLE Device	BLUETOOTH	Controller	CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD
Eddystor	ne URL Config	uration	SAVE	Eddystor	ne URL Conf	iguration	SAVE	Eddystor	ie URL Conf	iguration	SAVE
Enable				Enable				Enable			
URL http	os://eiot.co/13638	6	RESET URL	U Eddy	rstone URL		RL	Broadca	ast(Tx) Power	-	
Broadcas	t(Tx) Power(dBm)		4	B	^{bo}		- 4		-20		-
Advertisin	ng Interval(millise	conds)	1330	A Min va	alue:20	Max Value	:10000 <mark>10</mark>		-16		
Energy Sa	aving Power (Tx)(iBm)	0	E	CANCEL	SET	o		-12		
Energy Sa	aving Interval(mill	seconds)	1250	Energy Sa	aving Interval(m	nilliseconds)	1250	Ene	12		1250
Eddystor	ne TLM Confid	uration	SAVE	Eddystor	ne TLM Com	figuration	SAVE	Edd	-8		SAVE
									-4		
Enable				Enable				Enz	0		
Broadcas	t(Tx) Power(dBm)		0	Broadcas	t(Tx) Power(dB	m)	0	Brc			0
Advertisin	ng Interval(millise	conds)	1450	Advertisi	ng Interval(milli	seconds)	1450	Advertion	4 19 III.ci vai(iIIIII	accontra)	1450
Enerov Sa	avina Power (Tx)(dBm)	0	Enerav Sa	ivina Power (T)	()(dBm)	0	Enerav Sa	avina Power (Ta)(dBm)	0



11.3.5 SET ADVERTISEMENT INTERVAL AND TX POWER FOR ENERGY SAVING MODE

- 1) In Energy saving mode, User can select high advertisement period and low Tx power to save energy of device mainly during on battery mode.
- 2) Advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 3) Range for advertisement interval is from 20 to 10000 millisecond.
- 4) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 5) Please press on SAVE button after setting



NOTE: After modification of settings, Click on SAVE button is compulsory to save modified parameters in device



11.4 EDDYSTONE TLM CONFIGURATION

11.4.1 ENABLE/DISABLETLM FRAME

- 1) Eddystone TLM frame can be enabled/disabled as per shown in figure.
- 2) Please press on SAVE button after setting.





11.4.2 SET ADVERTISEMENT INTERVAL AND TX POWER

- 1) Advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 2) Range for advertisement interval is from 20 to 10000 millisecond.
- 3) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 4) Please press on SAVE button after setting.





11.4.3 SET ADVERTISEMENT INTERVAL AND TX POWER FOR ENERGY SAVING MODE

- 1) In Energy saving mode, User can select high advertisement period and low Tx power to save energy of device mainly during on battery mode.
- 2) Advertisement interval and Tx power can be modified by clicking on respective raw as per shown in figure.
- 3) Range for advertisement interval is from 20 to 10000 millisecond.
- 4) Available settings for Tx power are -20, -16, -12, -8, -4, 0 and 4 dBm.
- 5) Please press on SAVE button after setting.



NOTE: After modification of settings, Click on SAVE button is compulsory to save modified parameters in device



12 LOGGED EVENT TYPES

Device can store up to 13056 events in memory. After that it will over write on old event space. Device logs following events.

12.1 HEALTH EVENT

- Health event contains Regulation temperature, Defrost temperature and Condenser temperature at predefined interval for FFM-B/GBR3/JEA/FFM-2BB/FFX/GMC-4.
- Health event contains Regulation temperature and Defrost temperature at predefined interval for GBR1/GBR4/FCAx3-BB/FDE device.

12.2 ENVIRONMENT EVENT

Environment event contains ambient temperature and cooler Voltage at predefined interval. Available in FFM-B/GBR3/JEA/FFX/GMC-4/FM-2BB only.

12.3 POWER EVENT

Power event logged with data time when switching occur from Mains power to battery and vice versa.

12.4 DOOR EVENT

- > Door Event logged when door open and close sense.
- > Door Event also contains Door timeout event if door remain open for more than 2 minutes

12.5 ALARM LOG EVENT

> This event logged when any change occurs in Alarm, Operational status and Relay Status.

12.6 ERROR LOG EVENT

This event logged when communication failure occurs between controller and sollatek devices.

12.7 GPS Event

Device takes GPS coordinate DATA of its position at every regular defined interval. It also takes GPS event after device Movement Event logged. Available in FFX/GMC-4/FM-2BB/FDE only.



12.8 Movement Event

This event is logged when device sense any motion in any direction. This Event is logged in both mode Mains and Battery. Available in FFX/GMC-4/FM-2BB/FDE only.

12.9 GPRS Event

GPRS event logged when device GPRS connection fail. Available in FFX/GMC-4/FM-2BB/FDE only.

12.10 DIAGNOSTIC EVENT

- > Diagnostic event logs Battery Voltage at end of the day for all devices
- > It also logs PIR motion counts at every hour for JEA and FFX.
- It also logs run hour for Power, compressor, heater, fan and light at end of the day for FFM-B/GBR3/JEA/FFM2BB/FFX.



12.11 DOWNLOADING EVENT DATA

- 1C:CA:E3:20:B5:32 Sollatek FFM-B Sr# : 136386 <u>.</u> READ EVENT DATA BLE Device * 101 CLOUD READ UNREAD EVENT(S) BLUETOOTH out CHANGE SERIAL NUMBER FIRMWARE VERSION 2.25 RESTART 30/08/2018 04:08:26 Pl 30/08/2018 04:08:26 Pl BLE Device PHONE CURRENT TIME FACTORY RESET STOP ADVERTISEMENT **Current Event Index** 12365 Last Event Index 11812 ABLE Enable Multipassword ENABLE Set Health Event Interval SAVE Health Event Interval(In Minutes) 60 SAVE Environment Event Interval(In 10 BACK **READ EVENT DATA** READ EVENT DATA BACK DOWNLOAD EVENT DATA DOWNLOAD EVENT DATA All Events All Events 8160 **Environment Event** Event Time : 29/08/2018 12:31:00 pm Tap here for download event Environment Temperature : 26.8°c data Cooler Voltage : 231.5 V 8159 Health Event Event Time : 29/08/2018 12:31:00 pm Cooler Temperature : -17.8°c Evaporator Temperature : -17.8°c Condensor Temperature : 26.8°c 8158 **Diagnostic Event** Event Time : 29/08/2018 12:30:00 pm
- > User can view logged events by clicking on following screen sequence.



> User can filter different event by clicking on following option.



In Alarm/Status change, there is detail link where user can see status of Event and Alarm bits as shown in below figures.





13 CONTROLLER CONFIGURATION PARAMETERS



- 1) After connection, under Tab, user can see controller configuration parameters.
- 2) When user switch to controller tab, Phone app first reads all configuration parameter from controller and display to user first.

3) For FFM-B/GBR-3/JEA/GMC-4/FFM-2BB/FFX:

- Configuration parameters will be in grouped format. User needs to expand parameters list by clicking on '+'.
- > If FFA is not connected then it will show Error message
- User can change any parameter by clicking on that parameter. After changing desire value, click on Set tab.

≡	1C:CA:E3 Sollatek FFM-	:20:85:32 8 Sr# : 136386	<u>,</u>	=	1C:CA:E3 Sollatek FFM-	3:20:85:32 B Sr# : 136386	圕		1C:CA:E3 Sollatek FFM-I	:20:85:32 8 Sr# : 136386	
BLE Device	BLUETOOTH	Controller	CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD
COOLER ID	10500	C v112		Temp	erature Contr	ol	-	Temp	erature Contro	bl	-
FFA Model	10500	U_C_v122323		1	Normal Mode Cut Day Mode ('c)	-in Value -	-32.5	ä	Normal Mode Cut- Day Mode ('c)	in Value -	-32.5
FFA Firmwa	are FFA0	IV05aFU_Bpn		2	Normal Mode Cut- Day Mode ('c)	-out Value -	-23.4	2 Nor	mal Mode Cut-ir	n Value – Day	, I
DEVICE PARAMETERS				3	ECO Mode Cut−in Day Mode ('c)	Value –	-29.7	3 - 3	32.5		
Probe S	election		+	.4	ECO Mode Cut-ou Day Mode ('c)	it Value -	-23.0	Min	: -40.0 Max: 4	0.0	
Temper	ature Contr	ol	+	5	SuperFrost Mode (- Day Mode ('c)	Cut-in Value	30.4	3	Set	Canc	el
Defrost	Control		+	6	SuperFrost Mode (- Day Mode ('c)	Cut-out Value	5.6	6	SuperFrost Mode C - Day Mode ('c)	ut-out Value	5.6
Voltage	Protection		+		Normal Mode Cut-	-in Value -			Normal Mode Cut-	in Value a	
Delays	Timers		+	7	Night Mode ('c)	iii value -	-2.5	7	Night Mode ('c)	in value	-2.5
Conden	ser Control		+	8	Normal Mode Cut- Night Mode (°c)	-out Value -	-4.8	8	Normal Mode Cut- Night Mode ('c)	out Value -	-4.8
Linhts (Control		+		500 M - 4 - 0 - 4 -						



4) For GBR4/FCA-3BB:

S			1C:CA:E3 Sollatek Cl	::20:05:21 MD - 91313	¥ 🖬 🖬 12:01
DEVI	N CE	BLU	* ЕТСОТН	EMD	CLOUD
COOLER	ID		COOLER	ID	
EMD MC	DEL				
EMD FIR	MWARE		FTB01_0	EN01	
-0		DE	VICE PA	RAMETERS	
1	Set Point	Normal N	fode (°C)		-2.5
2	Different	ial normal	mode (*C)		1.0
3	Set Point	Eco Mod	e (*C)		1.0
4	Different	ial Eco Mo	de (°C)		2.0
5	Offset va	ilue (*C)			-1.0
6	Door clo	sure durat	ion to enable	Eco mode (Hour)	8.0
	\triangleleft		(С	
	\bigtriangledown		(C	



5) For GBR1/FDE:

1C:CA:E3:20:05:22 Sollatek GBR1 Sr# : 913	G _ 2:53 рм 14 — —		¥ © ₪ 1C:CA:E3 Sollatek GBR	E:20:05:22 1 Sr# : 91314	📕 📄 2:54 рм
BLE Device BLUETOOTH Controller	r CLOUD	BLE Device	BLUETOOTH	TO : Controller	CLOUD
COOLER ID			EL FCR		
EMD MODEL		EMD FIRM	IWARE FCR0	1V02_T14a	
10%	1/10 packets	- <u>o</u>	DEVICE PA	RAMETER	ß
DEVICE PARAMETE	RS		Read Only I	Paramete	rs
Read Only Paramet	ers	1	Firmware Version		FCR01V02_T14a
RESET DOOR OPEN	ING	2	GUI Version		N/A
		з	Device Type		FCR
⊲ 0			1 ()	
	G 🖌 🗎 2.24 pm		* ① *	LTE / G	▲ ■ 2'54 pm
1C:CA:E3:20:05:22 Sollatek GBR1 Sr# : 913	14		1C:CA:E3 Sollatek GBR	2:20:05:22 1 Sr# : 91314	
BLE Device BLUETOOTH	cLOUD	BLE Device	BLUETOOTH	Controller	
					CLOUD
4 Customer ID	Western	5	FW Date		CLOUD
4 Customer ID 5 FW Date	Western 10/06/2017	5	FW Date FW Time		CLOUD 10/06/2017 07:03pm
4 Customer ID 5 FW Date 6 FW Time	Western 10/06/2017 07:03pm	5 6 7	FW Date FW Time Accumulated door (MSB)	opening	CLOUD 10/06/2017 07:03pm N/A
4 Customer ID 5 FW Date 6 FW Time 7 Accumulated door opening (MSB)	Western 10/06/2017 07:03pm N/A	5 6 7 8	FW Date FW Time Accumulated door (MSB) Accumulated door (LSB)	opening	CLOUD 10/06/2017 07:03pm N/A N/A
4 Customer ID 5 FW Date 6 FW Time 7 Accumulated door opening (LSB)	Western 10/06/2017 07:03pm N/A N/A	5 6 7 8 9	FW Date FW Time Accumulated door (MSB) Accumulated door (LSB)	opening opening	CLOUD 10/06/2017 07:03pm N/A N/A 4.5
4 Customer ID 5 FW Date 6 FW Time 7 Accumulated door opening (MSB) 8 Accumulated door opening (LSB) 9 Current cut-in value	Western 10/06/2017 07:03pm N/A N/A 4.5	5 6 7 8 9 10	FW Date FW Time Accumulated door (MSB) Accumulated door (LSB) Current cut-in value Current cut-out value	opening opening e	CLOUD CLOUD 10/06/2017 07:03pm N/A N/A 4.5 2.2
4 Customer ID 5 FW Date 6 FW Time 7 Accumulated door opening (MSB) 8 Accumulated door opening 9 Current cut-in value 10 Current cut-out value	Western 10/06/2017 07:03pm N/A N/A 4.5 2.2	5 6 7 8 9 10	FW Date FW Time FW Time Accumulated door (USB) Current cut-in value Current cut-out value RESET DOO	opening opening e ue DR OPENII	CLOUD CLOUD 10/06/2017 07:03pm N/A N/A A.5 2.2 VG



14 CLOUD TAB

1) When click on Cloud tab, It will show information about Device stored on Cloud like Asset Name, Outlet Name, Device Serial No. and MAC Address. Internet connection is required for app to receive it from cloud.





15 FIRMWARE UPGRADE OVER THE AIR (DFU)

1) Whenever user connects to the device, Phone app will check for its BLE firmware version with latest firmware on cloud. If new firmware is available then app will suggest user to upgrade firmware with latest one as per below figure. User needs to tap the text to start DFU.



2) After allowing for DFU, app will start DFU automatically.

=	1C:CA:E3: Sollatek FFM-E	20:85:32 3 Sr# : 136386			1C:CA:E3:2 Sollatek FFM-B	20:85:32 Sr# : 136386			1C:CA:E3 Sollatek FFM-E	:20:85:32 3 Sr# : 136386	
BLE Device	BLUETOOTH	Controller	CLOUD	BLE Device	8LUETOOTH	Controller	CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD
FIRMWARI	E VERSION FIRMWARE		2.24	FIRMWARE UPGRADE F	VERSION		2.24	FIRMWARE V UPGRADE FII	ERSION		2.24
CURRENT TH	ME BLE Device PHONE	30/08/2018 04 30/08/2018 04	1.28:52 Pl	CURRENT TIM	E BLE Device PHONE	30/08/2018 04 30/08/2018 04	1:26:20 Pl	CURRENT TIME	BLE Device PHONE	30/08/2018 0 30/08/2018 0	4:30:43 Pl 4:38:06 Pl
Growent I File : Devic	FFA-CD0211.2 ce : DFU-4B111 Startir	2.25.zip F5 ng DFU		C File : F Device	FA-CD0211.2 e : DFU-4B11F Updatin	.25.zip 5 g 9%		C File : FF Device	A-CD0211.2 DFU-4B111 D	12/1 2.25.zip F5 one	_
Set H	ealth Event In	terval	SAVE	Set He	alth Event Int	erval	SAVE				
Health Ev Minutes)	ent Interval(In		60	Health Eve Minutes)	nt Interval(In		60	Health Even Minutes)	t Interval(In		þo
Set Envir	ronment Even	t Interval	SAVE	Set Enviro	onment Event	Interval	SAVE	Set Enviror	nment Even	t Interval	SAVE
Environme	ent Event Interv	al(In	<n< td=""><td>Environme</td><td>nt Event Interva</td><td>il(In</td><td>en </td><td>Environmen</td><th>t Event Interv</th><th>al(in</th><td>60</td></n<>	Environme	nt Event Interva	il(In	en	Environmen	t Event Interv	al(in	60



3) After successfully upgrade, following screen will appear.



4) User can verify latest firmware upgrade by making connection to device again and checking for firmware version.



16 STM FIRMWARE UPGRADE OF CONTROLLER

 Whenever user connects to the device, Phone app will check for controller firmware version also with latest firmware on cloud. If new firmware is available then app will suggest user to upgrade firmware with latest one as per below figure. User needs to tap the text to start upgrade new firmware.

48:E6:95:03:D1:71 - FF2 Sr#: 1388800	48:E6:95:03:D1:71 - FFX Sr#: 1388800				
BLE Device BLUETOOTH Controlle	r CLOUD	BLE Device	BLUETOOTH	Controller	CLOUD
BLE FW Version	7.0	BLE FW Ver	sion		7.0
Controller FW Version UPGRADE NEW FIRMWARE	9.05	Controller F UPGRADE N	W Version		9.05
CURRENT TIME BLE Device 12/12/20 PHONE 12/12/20	19 03:24:25 PM	CURR	rrent STM FW:	V9.05	0
Current Event Index Last Event Index	1431 1431	Cun ^{Ava} Las Ar	ailable STM FW e you sure to mware?	1: V9.06 o upgrade t	he
Enable Multipassword	DISABLE	Ena	YES	NO	LE
Set Health Event Interval	SAVE	Set	Health Event In	terval	SAVE
Health Event Interval(In Minutes)	55	Health Eve	nt Interval(In Mir	nutes)	55
Cat Faultement Front Internal	CAVE	Set Env	vironment Even	t Interval	SAVE
Set Environment Event Interval	SAVE	Environme Minutes)	nt Event Interval	(In	62
Environment Event Interval(In Minutes)	62				



17 RUN VIRTUAL HUB FOR EVENT DATA UPLOAD ON CLOUD

- 1) Virtual Hub (VH) is a service to upload logged event data on cloud.
- 2) On scanning screen, click on menu button to open VH Configuration. Then tick to "Run as Service" and click on Apply button.



3) When users TAP on Apply button then VH start at background, it can be verified from Notification.





- 4) App will start scanning of available surrounding devices and list out them on screen.
- 5) App will try to connect each device sequentially to download event data.
- 6) After successful event data downloading from device, "Data Downloaded and Clock SET" message will appear.
- 7) After successful event data uploading on cloud, "Data Upload" message appear."Waiting for next execution" message will appear at bottom side once app tried with all devices.

	🖇 🔋 📶 38% 🗷 11:50 AM	<u></u>	🗚 🔋 📶 37% 🖪 11:46 AM	-	* 🛪 🕯 🕼 38% 🖁 11:50 AM
Sollatek 🛥		Sollatek 🟎		ہ Sollatek 🛥	marttay insigma
Sollatek FFM-B - 91998 1CCAE32007CE	-71 Health,Open	Sollatek FFM-B - 91998 1CCAE32007CE	-72 Health,Open	Sollatek FFM-B - 91998 1CCAE32007CE	-71 Health,Open
21/21	Data Downloaded And Clock Set	3/3	Data Uploaded	21/21	Data Uploaded
Sollatek FFM-B - 136386 1CCAE320B532	-94 Health,Close	Sollatek GBR4 - 91313 1CCAE3200521	-63 Close	Sollatek FFM-B - 136386 1CCAE320B532	-94 Health,Close
	Skipped Due To Distance		Skipping Due To No Relevant Data		Skipped Due To Distance
Sollatek GBR4 - 91313 1CCAE3200521	-67 Close	Sollatek FFM-B - 136386 1CCAE320B532	-87 Health,Close	Sollatek GBR4 - 91313 1CCAE3200521	-67 Close
	Skipping Due To No Relevant Data		Connection Failed		Skipping Due To No Relevant Data
Sollatek GBR1 - 170787 1CCAE3213B93	-84 Health,Close	Sollatek GBR1 - 170787 1CCAE3213B93	-79 Health,Close	Sollatek GBR1 - 170787 1CCAE3213B93	-84 Health,Close
	Connecting	3/3	Data Downloaded And Clock Set	4/4	Data Uploaded
11:50:13 Sollatek GBR1 - 1	70787:Connecting	11:46:55 :Uploading Data	ID :4 MacAddress : 1C:CA:E3:21:3B:93	11:50:31 :Waiting for next	execution



18 FILTER PARTICULAR DEVICE TYPE

- 1) User can scan particular device type by using filter option.
- 2) Click on Filter Devices option
- 3) Select Device type which you want to search and then tap on apply button.
- 4) After tap on apply button following screen appears.





19 LOGOUT APPLICATION

- 1) User can Log out the Application if required, otherwise after 24 hours auto logout occur and needs login again (with Internet Connectivity).
- 2) TAP on Logout Button then click on Yes Button. After Logout, Login screen will appear.
- 3) If users directly close the app, it means it will not be a Log out. On open the App, it will go directly to the scanning window.

4:50 PM 🖇	6 8 🤋 🎟	🚔 🔳 SCAN	NING :	
	VH Config			
FFM2BB - 48:	User Feedback	FFX - 1C:CA:	E3:20:65:CA 🕜	S Sollatek
Cooler ID - IN9907652241	Filter Devices	Cooler ID : Cooler_Def_SN Sr# : 00116058	FAR	v3.8.3
Sr# : 1190839	Logout		Status	Gateway Mac : 20:a6:0c:fa:dd:72
Last Seen 2s Ago	Status Power : Mains COM : OK	5s Ago	Power : Mains COM : OK	
GPRS Status : Successful GPR Last GPRS Activity : 03/12/201	S Connection 9 04:49:49 PM	Are you sure you war	it to logout?	avi_ahm
FFM-B - 1C:CA:E3:20:07:CD 🕜			NO YES	
Cooler ID : N/A	FAR	Cooler ID : IN9807652341 Sr# : 1190839	NEAR	QA
314.00031337		last Soon	مد. Status	😪 Remember Me
Last Seen 4s Ago	Power : Mains COM : OK Stand By : OFF	1s Ago	Power : Mains COM : OK	LOGIN
	-	GPRS Status : Successful GPRS Last GPRS Activity : 03/12/2019	Connection 04:54:28 PM	
GBR4 - 48:E	5:95:01:C1:8F Ø			
) 4	Privacy Policy