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Enable your ELA Beacon or Sensor

To enable your ELA sensors or ELA Beacons use the ELA application (Link:<u>https://play.google.com/store/apps/details?id=com.ela.mobileapp.elamobileapp&hl=en_US</u>). Your phone or device that is used for configuring ELA Sensors or Beacons has to have NFC (configurations are written to a sensor or beacon through NFC).

Below you can find on how to Enable and configure ELA Coin ID or ELA Puck ID to send in the iBeacon format.





Beacon testing instructions

Instructions made with firmware version: FMB.Ver.03.25.09.Rev.51

- 1. Update FMB device firmware to version: FMB.Ver.03.25.09.Rev.51 (or later firmware version which supports beacon functionality)
- 2. Turn beacons ON (or configure it to send beacon ID)
- 3. Configure FMB device to send data into your server or computer over Codec 8 extended data sending protocol. Added print screens shows only one of possible ways how to perform test.

Important: To perform test faster, configure Beacon record to \rightarrow Periodic

///	Load from device	Save to device	Update firmware	TELTONIKA	📤 Load from devic	ce 💾 S	Save to device	Update firmwar	re 🗳 Reset configuration
TELTONIKA	Load from file	Save to file	Read records	WATELTONIKA	Load from file		Save to file	Read records	C Reboot device
Status	Beacon Settings			Status	On stop				
Security	Beacon Detection			Security		Home	Roaming	Unknown	
System	Disabled	A	II.	System	Min Period	4 10 🗘	3600 🗘	3600 🗘	
GPRS	Configured			GPRS	Min Saved Records	1 🗘	1 \$	1 🗘	
Data Acquisition	Beacon Record			3 Data Acquisition	Send Period	5 10 🗘	61 🗘	61 🗘	
SMS \ Call Settings	Eventual	Perio		SMS \ Call Settings					
GSM Operators	Record Period		30 🗢	GSM Operators	Moving				
Features	Beacon List			Features		Home	Roaming	Unknown	
Accelerometer Features	4			Accelerometer Features	Min Period	6 10 🗘	3600 🗘	3600 🗘	
Auto Geofence	1			Auto Geofence	Min Distance	100 🗘	100 🗘	100 🗘	
Manual Geofence	2			Manual Geofence	Min Angle	20 🗘	20 🗘	20 🗘	
Trip \ Odometer	3			Trip \ Odometer	Min Speed Delta	0 🗘	0 🗘	0 🗘	
Bluetooth	5			Bluetooth	Min Saved Records	1 🗘	1 🗘	1 🗘	
Bluetooth 4.0	6			Bluetooth 4.0	Send Period	7 10 🗘	61 🗘	61 🗘	
1 Beacon List	7			Beacon List					
1-Wire	8			1-Wire					
Į/O	10			I/O					
OBD II	11			OBD II					
CAN Adapter	12			CAN Adapter					



/ *** -		Load from device	:e 💾 Save	to device		Update firmware	د ا	Reset configuratio
\$	TELTONIKA	Load from file	🗟 Sa	Save to file		Read records	۵	Reboot device
	Status	System Settings		Ignition Sou	rce			
	Security	Movement Source		Ignition Settin	gs			
8	System	Ignition	Accelerometer	DIN 1		Accelerometer		
	GPRS	GNSS	CAN Speed	Power Volt	age	Engine RPM		
	Data Acquisition	Speed source		High Voltage (mV)	30000 🗘		
SI	MS \ Call Settings	GNSS	OBD / CAN	Low Voltage (r	nV)	13200 🗘		
	GSM Operators	Records Saving/Send	ing Without TS	Accelerome	ter Delav	Settings		
	Features	After Position Fix	Always	Movement Sta	-			
Acce	elerometer Features	After Time Sync	9	Movement Sto				
	Auto Geofence	LED Indication						
	Manual Geofence	Disable	Enable	Time Synch				
	Trip \ Odometer	GNSS Source		Synchronizatio				
	Bluetooth	BeiDou	GLONASS	Disable (GNS	S only)	NITZ+NTP		
	Bluetooth 4.0	Galileo	GPS	NTP		NITZ		
	Beacon List	Battery Charge Mode		NTP Resync (h		3 🗘		
	1-Wire	On Need	After Ignition ON	NTP Server 1		tonika.lt		
	I/O	Always		NTP Server 2	pool.nt	p.org		
	OBD II	Analog Input Value R	-	Accelerome	ter Auto	Calibration		
	CAN Adapter	Range 10V	Range 30V	Accelerometer	Auto Cali	ibration		
L	Chirhoupter	Data Protocol	10	Disable		Once		
		Codec 8	Codec 8 Extended	Continuo	us			
		Static Navigation	Settings	Gravity Filter				
		Static Navigation		Disable	:	Enable		
		Disable	Enable					
		Static Navigation Sou	rce					

- 4. Open Teltonika listener tool or other tool which allows to receive AVL data from FMB device. Records will be received over codec 8 extended data sending protocol
- 5. After record received copy it into Teltonika Data parser. Beacon ID: 385

000000000000000000000000000000000000000			
396A7C3520129F6190000			000000000181000100000000000000000010181002D112168817F8A274D4F8DB62D33E1842F8DF8014D0228BF21A57972367506
Name		Size Value	Hex Value
ata Packet	var		
le	4	0	00-00-00
ta Length	4	90	00-00-5A
	var		
ec ID	1	142	8E
Data Count	1	1	01
Data	var	_	
imestamp	8	2019.06.18 08:25:22	00-00-01-68-69-80-C9-51
Priority	1	0	00
iPS Element	15		
Longitude	4	0	00-00-00
Latitude	4	0	00-00-00
Altitude	2	0	00-00
Angle	2	0	00-00
Satellites	1	0	00
Speed	2	0	00-00
/O Element	var		
Event ID	2	385	01-81
Element count	2	1	00-01
1b Element count	2	0	00-00
2b Element count	2	0	00-00
4b Element count	2	0	00-00
8b Element count	2	0	00-00
Xb Element count	2	1	00-01
ID	2	385	01-81
Value	45		11-21-6B-81-7F-8A-27-4D-4F-BD-B6-2D-33-E1-84-2F-8D-F8-01-4D-02-2B-BF-21-A5-79-72-36-75-06-4D-C3-
Data Count	1	1	01
	4	15965	00-00-3E-5D



Record parsing

Beacon records are sent as seperate Records with Event I/O ID 385 and also include I/O element 385 (Codec8 Extended has to be used, because the I/O element 385 uses Variable size IO element).

Example Beacon Record Packet:

8E – Codec8 Extended Protocol

0181 – Event I/O ID : 385 (Generated by Beacon Functionality)

0181 – Element I/O ID : 385 (Beacon Information stored here)

002D – Length of Beacon I/O element that was sent: 45 bytes

11216B817F8A274D4FBDB62D33E1842F8DF8014D022BBF21A579723675064DC396A7C3520129F61900 000000BF – Beacon Information that has been sent by device.

11 – Data part, 1 Record out of 1 Beacon Record. First half byte specifies, current record, second half specifies how many there are in total. For example: 25 – Second record out of 5 records (that means server can expect 3 more records with Event I/O ID 385).

1st Beacon data:

21 – BLE Beacon Flags, this value has to be converted to Binary. 00100001 – Bit 0 is 1, which means Signal Strength is available. Bit 5 is 1, which means iBeacon data has been sent. (0 – Eddystone; 1 - iBeacon).

6B817F8A274D4FBDB62D33E1842F8DF8014D022BBF - iBeacon Data:

17F8A274D4FBDB62D33E1842F8DF8 - UUID

014D – Major

022B - Minor

BF – Signal Strength :Signed 2's complement: -65 RSSI



2nd Beacon Data:

21 – BLE Beacon Flags, this value has to be converted to Binary. 00100001 – Bit 0 is 1, which means Signal Strength is available. Bit 5 is 1, which means iBeacon data has been sent. (0 – Eddystone; 1 - iBeacon).

A579723675064DC396A7C3520129F619 - UUID

0000 – Major

0000 – Minor

BF – Signal Strength :Signed 2's complement: -65 RSSI

By parsing the BLE Beacon Flag (It is known how many Bytes of data will follow After, For example if it is iBeacon (21), 21 Bytes of information will follow (UUID:16 Bytes+Major:2 Bytes+Minor:2 Bytes+RSSI:1 Bytes) if it is Eddystone(01), 17 Bytes of information will follow (Namespace: 10 Bytes+Instance: 6 Bytes+RSSI: 1 Bytes))

6. Information for data parsing:

 Table 1. Beacon configuration parameters

Name	ID	Min	Max	Default	Description
Beacon Detection	134	0	2	0	0 (Disabled) – Functionality disabled. 1 (All) – All beacons are sent to server. 2 (Configured) – Only beacons from the list are sent to server
Beacon Record	136	0	1	0	O (Eventual) – Disabled. 1 (Periodic) – All beacons are sent to server.
Record Period	137	30	360 0	60	Beacon record saving period
Beacon List	1600 – 1624	Empty	42 B	Empty	List of authorized beacons. Eddystone and iBeacon protocols are supported*.

*Beacon Ids can be entered the following way: Namspace:CompanyID, UUID:Major:Minor. Any of the ID parts can be omitted ex., Namespace:. UUID::, UUID::Minotr, etc.

- Authorized Driving parameter (ID 11703) was extended to include new possible values: 2 Beacon, 3 Both (OneWire and Beacon).
- When Authorized Driving is configured to work with beacons, bluetooth scan procedure will be sarted for 5 minutes once ignition is detected.



Beacon are sent to server in a new variable length Beacon (AVL ID 385). Beacon (AVL ID:385) has the following structure

Data part	BLE beacon flags #1	Beacon ID #1	Signal Strength #1	Battery Voltage #1	Temperature #1	Beacon data #2
1 Byte	1 Byte	20B/16B	1 Byte	2 bytes	2 bytes	
First half byte – current data part Second half byte – total number of data parts	Bitwise parameter, specify BLE beacon type and parameters (signifies if specific data is present for certain beacon) Bit 0 – signal strength 0/1 Bit 1 – Battery Voltage 0/1 Bit 2 – Temperature 0/1 Bit 3 – Reserved Bit 4 – Reserved Bit 5 – BLE beacon type 0/1 Bit 6 – Reserved Bit 7 – Reserved (eddystone/ibeacon)	iBeacon – 20B (UUDI, major, minor) Eddystone – 16B (Namespace, Instance ID)				

Table 2. Beacon Packet structure

Important: Battery Voltage and Temperature are not supported in 03.25.09.Rev.51.

BLE sensors testing instructions

1. Enable BLE sensor via phone application."Device Manager Mobile". This application can be downloaded via this link:

<u>https://play.google.com/store/apps/details?id=com.ela.mobileapp.elamobileapp&hl=en_US</u>. Need to use Firmware 03.25.09.rev.51 (or later firmware version which supports beacon functionality).

- 2. In this application can be configured ELA sensors:
 - Change ELA sensor Name (Optional)
 - Enable ELA sensor.
 - Set ELA sensor signal power level (-40 is lowest signal power level, 4 is highest signal power level)
 - Choose the format of ELA sensor. For example if it's movement sensor it should be set as MOV
 - Advertising interval (s) with this parameter can be set interval for blue-tooth (optional)
 - Log interval (s) define the data logger period in seconds (optional)
 - Logger enable can enable for log mode.
 - Threshold acc is acceleration threshold for the tag which is working in MOV format only.







3. In configurator select BLE1 Sensor -> Advanced write usable sensor's MAC address. MAC ID can be found by using phone application nRF connect. Link to download:

https://play.google.com/store/apps/details?id=no.nordicsemi.android.mcp&hl=en

Connection #1								
Mode		Settings						
Working mode		MAC FB61C0	012F623					
Disabled	TZ-BT04/05/05B sense	or						
Advanced								
1st Sensor								
	Data Officat	Data Size	Action	10	Match	Endinger		Offrat
	Data Offset	Data Size	Action	ю	Match	Endianess	Multiplier	Offset
1st Sensor Type FE	Data Offset			IO None V		Endianess Little Endian V	Multiplier	

4. Select Preset for the sensor which type it is. (If the sensor you are using does not have a made **Preset**, follow instructions "How to configure a unique sensor if there is no preset")



5. In the above shown configuration. I/O is set to "Custom", that means data will be sent under the I/O element BLE Custom 1. However, if the I/O is set to Temperature/Humidity/Fuel etc. – data will be saved and sent under the corresponding I/O elements. Temperature – BLE Temperature #X; Battery – BLE Battery #X; Humidity – BLE Humidity #X etc.

BLE Temperature #1	°C	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	~	BLE Temp #1
BLE Temperature #2	°C	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring 🗸	~	BLE Temp #2
BLE Temperature #3	°C	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring 🗸 🗸	~	BLE Temp #3
BLE Temperature #4	°C	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring 🗸 🗸	~	BLE Temp #4
BLE Battery #1	%	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring 🗸	~	BLE Battery #1
BLE Battery #2	%	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	~	BLE Battery #2
BLE Battery #3	%	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	~	BLE Battery #3
BLE Battery #4	%	None	Low	High	Panic	0 ‡	0 🗘	Crash	Yes	No	Monitoring 🗸 🗸	~	BLE Battery #4
BLE Humidity #1	%RH	None	Low	High	Panic	0 ‡	0 🗘	Crash	Yes	No	Monitoring 🗸 🗸	~	BLE Humidity #1
BLE Humidity #2	%RH	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring 🗸	~	BLE Humidity #2
BLE Humidity #3	%RH	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	~	BLE Humidity #3
BLE Humidity #4	%RH	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	~	BLE Humidity #4
BLE Custom 1		None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring 🗸 🗸	~	BLE Custom sensor #1
BLE Custom 2		None	Low	High	Panic	0 ‡	0 🗘	Crash	Yes	No	Monitoring 🗸 🗸	~	BLE Custom sensor #2
BLE Custom 3		None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	~	BLE Custom sensor #3
BLE Custom 4		None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	~	BLE Custom sensor #4

How to configure a unique sensor if there is no preset

This can be done by using the application nRF connect by finding a custom sensor and selecting RAW data. For example there is a screenshot with a RAW data from ELA movement sensor. As a type we are using type 16 to select all the needed data. Data offset is used to specify from which Byte data should be read or taken. We will use match on O62A (see screenshot of ELA movement packet structure). Data O62A is constant, that is why in the configuration we use "Match" to confirm that this is the correct packet. To take data from the Packet, we enter type 16 and configure "Save" and Offset is 2 bytes. We select I/O – Custom (Because Movement Sensor data is not measured in Kvants/°C/Voltage/%RH etc.)

≡ Devices scan :	ELA MOV
SCANNER BONDED ADVERTISER	Length : 2
No filter	Type : 0x01
Raw data:	Data : 0x06
0x0201060516062AB6000709524A204D6	Length : 5
Details: LEN. TYPE VALUE 2 0x01 0x06	Type : 0x16
5 0x16 0x062AB600 7 0x09 0x524A204D6F76	Alert Charac : 0x06
LEN -length of EIR packet (Type + Data) in bytes. TYPE - the date type as in https://www.bluetooth.org/en-us /specification/assigned-numbers/generic-access-profile	Alert Charac : 0x2A
ок	MOV (cnt+state) data LSB
Device type: LE only Advertising type: Legacy Flags: GeneralDiscoverable.	MOV (cnt+state) data MSB
BrEdrNotSupported Service Data: UUID: 0x2A06 Data: 0xB600	Length : 16
Complete Local Name: RJ Mov CLONE RAW MORE	Туре : 0х09



Example configuration of an ELA movement sensor

) 🛗 🗖 🗗
Туре	Data Offset	Data Size	Action	Ю	Match	Endianess	Multiplier	Offset
16	0 🗘	2 🗘	Match 🗸	None 🗸	062A	Little Endian 🗸 🗸	1 🗘	0 🗘
16	2 🗘	2 🗘	Save 🗸	Custom 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 🛟	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 🛟	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 🛟	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 🛟	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 🛟	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 🛟	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 💠	0 🗘	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
	0 🛟	0 🗢	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘

Example: IO ID[331] Length[2]: 00h 0Ah BLECustom#1

BLE sensor ID: 014B Length of Element: 0002 BLE sensor value: 001A

Using the configuration shown above. 2 bytes of data are taken from the Broadcasted packet of the sensor. It is possible to configure for the device to save any data from the packet if the structure of the packet is known (**nRF Connect Application can be used for this**) and the protocol of the frames is known.

Name	Connection #1 AVL	Connection #2 AVL	Connection #3 AVL	Connection #4 AVL
Name	ID	ID	ID	ID
None	-	-	-	-
Temperature	25	26	27	28
Battery	29	20	22	23
Humidity	86	104	106	108
Custom	331	332	333	334
Fuel	270	273	276	279
Luminosity	335	336	337	338
Fuel Frequency	306	307	308	309

Table 3. Sensor Elements AVL ID's



AVL ID DETAILS

Property ID in AVL packet	Property Name	Bytes	Туре	Min	Max	Multiplier	Units	Description	
20	BLE 2 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #2	
22	BLE 3 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #3	
23	BLE 4 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #4	
25	BLE 1 Temperature	2	Signed	-400	1250	0.1	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	
26	BLE 2 Temperature	2	Signed	-400	1250	0.1	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	
27	BLE 3 Temperature	2	Signed	-400	1250	0.1	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	
28	BLE 4 Temperature	2	Signed	-400	1250	0.1	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	
29	BLE 1 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #1	
86	BLE 1 Humidity	2	Unsigned	0	1000	0.1	%RH		
104	BLE 2 Humidity	2	Unsigned	0	1000	0.1	%RH		
106	BLE 3 Humidity	2	Unsigned	0	1000	0.1	%RH		
108	BLE 4 Humidity	2	Unsigned	0	1000	0.1	%RH		
270	Eskort LLS Fuel Level #1	2	Unsigned	0	65535		-	Fuel Level	
273	Eskort LLS Fuel Level #2	2	Unsigned	0	65535		-	Fuel Level	
276	Eskort LLS Fuel Level #3	2	Unsigned	0	65535		-	Fuel Level	
279	Eskort LLS Fuel Level #4	2	Unsigned	0	65535		-	Fuel Level	



331	BLE Sensor 1	variable	HEX	0	256	-	-	Raw data of BLE sensor	
332	BLE Sensor 2	variable	HEX	0	256	-	-	Raw data of BLE sensor	
333	BLE Sensor 3	variable	HEX	0	256	-	-	Raw data of BLE sensor	
334	BLE Sensor 4	variable	HEX	0	256	-	-	Raw data of BLE sensor	
335	BLE Luminosity 1	2	Unsigned	0	Oxffff	-	lx	Luminosity value of a BLE sensor	
336	BLE Luminosity 2	2	Unsigned	0	Oxffff	-	lx	Luminosity value of a BLE sensor	
337	BLE Luminosity 3	2	Unsigned	0	Oxffff	-	lx	Luminosity value of a BLE sensor	
338	BLE Luminosity 4	2	Unsigned	0	Oxffff	-	lx	Luminosity value of a BLE sensor	

ELA Sensor additional information

ELA MOV

ELA MOV sensors can send data either in MOV mode or ANG mode. **ANG Mode**: acceleration (3 axis) on 16 bits / Axis(12 bits + a 16th sign bit); **MOV Mode**: 15-bit counter & instantaneous state* on 1 bit (LSB) **ANG Mode Data Example:**

Preset Selection						
Select a preset from a list:						
BLETPMS ×						
efentov2.2 ×						
efentov4 ×						
ELA ANG ×						
ELA PUCK ID ×						
ELA PUCK MOV ×						
FLA T Correct ×						
Load Cancel						
]					

IO ID[331] Length[6]: 04 9C FF F8 00 03 BLE Custom 1

04 9C: 1180 – X axis

FF F8: -8 – Y axis

00 03: 3 – Z axis

Preset to use in the configurator: **ELA ANG**



MOV Mode Data Example:

ſ	Preset Selection	
	Select a preset from a list:	
	ELA T Correct ×	
	ELAANG ×	
	ELAMOV ×	
	ELAMOV_MAG ×	
	ELARHT ×	
	ELAT ×	
	escortfuel X	
	Load Cancel	
Ļ		
I	0 ID[331] Length[2]: 00 02	В

BLE Custom 1

00 02 - 0000 0000 0000 0010 (15 Bits Movement Counter: Movement Detected 1 time; 1 bit State of Sensor: Current State 0, not moving)

Preset to use in the configurator: ELA MOV

ELA MAG

 Preset Selection

 Select a preset from a list:

 ELA T Correct ×

 ELAANG ×

 ELAMOV_MAG ×

 ELARHT ×

 ELAT ×

 escortfuel ×

ELA MAG sends data 15-bit counter & instantaneous state* on 1 bit (LSB).

MAG Mode data Example:

IO ID[331] Length[2]: 00 02

BLE Custom 1

00 02 - 0000 0000 0000 0010 (15 Bits Movement Counter: Attached/Detached Counter 1 time; 1 bit State of Sensor: Current State 0, Detached)

Preset to use in the configurator: **ELAMOV_MAG**



ELA T

Preset Selection							
Select a preset from a list:							
ELA ANG ×							
ELA PUCK ID ×							
ELA PUCK MOV ×							
ELA T Correct ×							
ELAANG ×							
ELAMOV ×							
FLAMOV MAG ×							
Load Cancel							

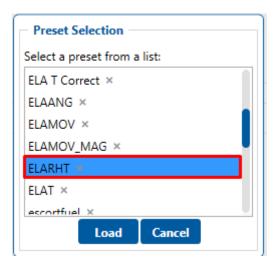
ELA T is a temperature sensor and it sends Temperature data.

T Mode Data Example:

IO ID[26]: 2550 °C BLE Temperature #2

Preset to use in the configurator: **ELA T**

ELA RHT



ELA RHT is a temperature and humidity sensor and it sends Temperature and Humidity data.

RHT Mode Data Example:

IO ID[27]: 2550 °C BLE Temperature #3

IO ID[106]: 54% BLE Humidity #3

Preset to use in the configurator: ELA RHT



NOTICE:

If there are troubles with configuring a specific sensor for usage. Please contact your sales manager and send the RAW data packet from nRF Connect application and the protocol of the sensors broadcasted frames.