

FRAMES SPECIFICATIONS



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1. Bluetooth general information

General information	https://www.bluetooth.com/bluetooth-technology
BLE Specifications	https://www.bluetooth.com/specifications
BLE Services et Characteristics	https://www.bluetooth.com/specifications/gatt

2. Applicable products



Blue PUCK ID IDF25240D
Blue PUCK T IDF25241D
Blue PUCK RHT IDF25242C
Blue PUCK MAG IDF25243D
Blue PUCK MOV IDF25244C
Blue PUCK BUZZ IDF25245C
Blue PUCK DI IDF25246B
Blue PUCK AI IDF25248B
Blue PUCK DO IDF25247B
Blue PUCK T EN12830 IDF30241C
Blue PUCK T Probe IDF25250
Blue PUCK PIR IDF25249A

Blue COIN ID IDF10240C
Blue COIN T IDF10241C
Blue COIN MAG IDF10243D
Blue COIN MOV IDF10244C

Blue SLIM ID IDF03240B



Blue WATCH ID IDP27240A

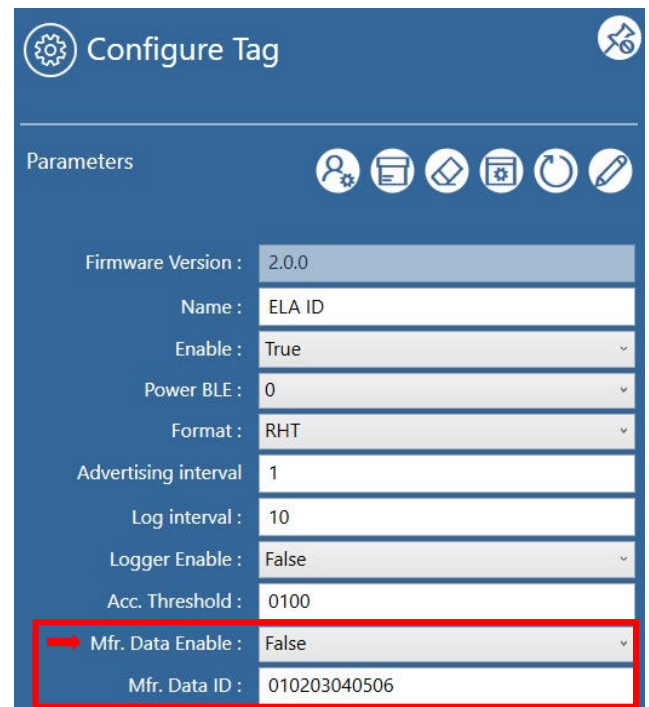
Blue LITE ID IDF28240

3. General information

a. "Services Data" and "Manufacturer specific Datas"

With the release of the tag firmware version 2.0.0, it is now possible to send ELA sensor and ID data through « Manufacturer Specific Data ». The Manufacturer Specific data are specific Bluetooth frame fields that are unique to a company, that can be used to add custom data into advertising packets. If Manufacturer Specific data are not enabled, all sensor data will be sent into the Bluetooth Services data.

To enable it, it is necessary to set to « True » the configuration field « *Mfr. Data Enable* » in the NFC configuration.



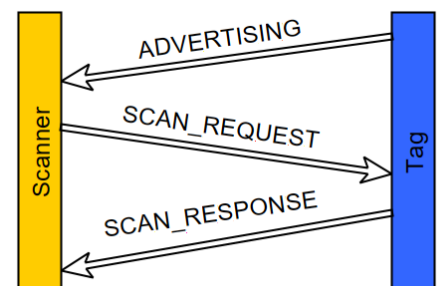
For a tag firmware below 2.0.0, the data advertised is always into Service datas.

b. « Scan Response » frame

In some formats and versions, the tag can send a frame called « Scan Response frame ».

Once an advertising packet has been received by a scanner, further information can be requested. Then the tag responds with the "scan response" frame.

This frame is located right after the advertising frame, and contains different data depending on the version and format. The data sent in "Scan response" frame is also formatted either in Service mode or in Manufacturer Specific mode.



4. Release note

1.0.0 Version

- When the battery drops below 15% capacity, the *Battery Service* is sent in the "Scan Response" frame for all formats.
- Nordic UART Service (NUS) is no longer sent in the Scan Response frame.

2.0.0 Version

- In iBeacon/Eddystone formats, the tag name is sent in the "SR" frame (after the battery info).
- The Company Identifier (CIN) number of ELA Innovation is 0x0757.
- In Manufacturer Specific Data mode, in ELA_ID and DIGI_OUT formats, it is possible to enter a hexadecimal number (max 0xFFFFFFFFFFFF) that will be sent in the frame. This field is called "ID Manufacturer Data" in the NFC configuration. This number is called "MFR_Num" in the frame formats of this document.

2.1.0 Version

- The names of the TOR IN and TOR OUT formats have been changed to Digi IN and Digi OUT respectively.

2.2.0 Version

- The Battery data is now sent in the Battery Level service feature (0x2A19).
- The MAC address type of the tag is changed from **Random** to **Public**.

3.0.0 Version

- Ability to transmit the battery voltage in the Scan Response via an NFC parameter.

5. Battery information

Battery capacity

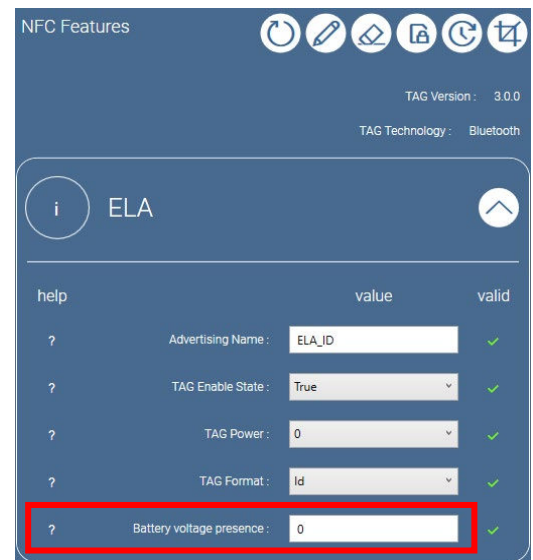
ELA Innovation's tags are based on the transmission of battery information in the Scan Response when the capacity of the battery falls below 15%. The formatting of the information is as follows:

Frame type	Service Data	Service Data	Mfr. Spec. Data	
Version	1.0.0, 2.0.0, 2.1.x	≥2.2.0	≥2.0.0	
Transmission	Batt. capacity < 15%	Batt. capacity < 15%	Batt. capacity < 15%	
Frame bytes	1	Length : 0x04	Length : 0x05	
	2	Type : 0x16	Type : 0xFF	
	3	Battery Serv. LSB : 0x0F	Battery Serv. LSB : 0x19	ELA_CIN_LSB : 0x57
	4	Battery Serv. MSB : 0x18	Battery Serv. MSB : 0x2A	ELA_CIN_MSB : 0x07
	5	Batt. data (%)	Batt. data (%)	BATT_DATA_ID : 0xF1
	6	Not used	Not used	Batt. data (%)
	7	Not used	Not used	Not used

Battery voltage

From version 3.0.0 onwards, it is possible to transmit battery voltage information for all formats. For this purpose, the "**Battery voltage presence**" option must be configured in the NFC memory.

When the option is activated, the tag no longer transmits battery capacity information below 15%.



Once the option is enabled, the battery voltage information is transmitted in the "Scan Response" frame with the following formatting:

Frame type	All	
Version	≥3.0.0	
Transmission	Battery voltage presence = 1	
Frame Bytes	1	Length : 0x06
	2	Type : 0xFF
	3	ELA_CIN_LSB : 0x57
	4	ELA_CIN_MSB : 0x07
	5	BATT_DATA_ID : 0xF2
	6	Batt. voltage (mV) LSB
	7	Batt. voltage (mV) MSB

Frame examples:

Received frame : ELA ID, Service Data, v3.0.0 Battery voltage presence = 0		Received frame : ELA T, MFR Spec. Data, v3.0.0 Battery voltage presence = 0																												
Name	BE_BATTERY	Name	BE_BATTERY																											
Battery cap.	13% (0x0D)	Measured temp.	27.12°C (0x0A98)																											
Battery cap.	13% (0x0D)	Battery cap.	13% (0x0D)																											
Raw data: <pre>0x0201060B0942455F424154544552590 416192A0D</pre>		Raw data: <pre>0x02010606FF570712980A0B0942455F4 241545445525905FF5707F10D</pre>																												
Details: <table border="1"> <thead> <tr><th>LEN.</th><th>TYPE</th><th>VALUE</th></tr> </thead> <tbody> <tr><td>2</td><td>0x01</td><td>0x06</td></tr> <tr><td>11</td><td>0x09</td><td>0x42455F42415454455259</td></tr> <tr><td>4</td><td>0x16</td><td>0x192A0D</td></tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	11	0x09	0x42455F42415454455259	4	0x16	0x192A0D	Details: <table border="1"> <thead> <tr><th>LEN.</th><th>TYPE</th><th>VALUE</th></tr> </thead> <tbody> <tr><td>2</td><td>0x01</td><td>0x06</td></tr> <tr><td>6</td><td>0xFF</td><td>0x570712980A</td></tr> <tr><td>11</td><td>0x09</td><td>0x42455F42415454455259</td></tr> <tr><td>5</td><td>0xFF</td><td>0x5707F10D</td></tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	6	0xFF	0x570712980A	11	0x09	0x42455F42415454455259	5	0xFF	0x5707F10D
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11	0x09	0x42455F42415454455259																												
5	0xFF	0x5707F10D																												

In Eddystone and iBeacon formats, the battery information is located before the Tag Name :

Received frame : iBeacon, v2.1.0		Received frame : Eddystone, v3.0.0 Battery voltage presence = 0																																		
Name	BE_BATTERY	Name	BE_BATTERY																																	
Battery cap.	13% (0x0D)	Battery cap.	13% (0x0D)																																	
Raw data: <pre>0x0201061AFF4C0002150102030405060 708090A0B0C0D0E0F10020B010AC4041 60F180D0B0942455F42415454455259</pre>		Raw data: <pre>0x0201060303AAFE1716AAFE00ED01020 30405060708090A010203040A0B000004 16192A0D0B0942455F42415454455259</pre>																																		
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Received frame : iBeacon, v3.0.0 Battery voltage presence = 1		Received frame : ELA T, Service Data, v3.0.0 Battery voltage presence = 1																															
Name	BE_BATTERY	Name	BE_BATTERY																														
Batt. voltage	2.478V (0x09AE)	Measured temp.	21.87°C (0x088B)																														
Batt. voltage	2.478V (0x09AE)	Batt. voltage	2.988 V (0x0BAC)																														
Raw data: <pre>0x0201061AFF4C0002150102030405060 708090A0B0C0D0E0F10020B010AC406F F5707F2AE090B0942455F424154544552 59</pre>		Raw data: <pre>0x02010605166E2A8B080B0942455F424 1545445525906FF5707F2AC0B</pre>																															
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6	0xFF	0x5707F2AC0B																															

6. Frame format

General information of this document

To improve the readability of the screen formats, this document presents :

- The fixed Bluetooth fields highlighted in **blue**.
- The Variable Bluetooth fields highlighted in **orange**.
- User-defined fields highlighted in **green**.

The screenshots have been taken on the nRF Connect application, developed by Nordic Semiconductors.

The screenshots show examples of frame decoding of information sent in advertising by ELA Innovation's products. There is also sample software code developed by the ELA Innovation team that can be used to decode frame information.

These samples code are available at the following address:

<https://github.com/elaInnovation>

a. "ID" Format

Frame type	Service Data	Mfr Spec. Data	
Version	All	≥2.0.0	
Frame Bytes	1	Length : 0x02	Length : 0x02
	2	Type : 0x01	Type : 0x01
	3	Data : 0x06	Data : 0x06
	4	Length : ≤0x10	Length : 0x0A
	5	Type : 0x09	Type: 0xFF
	6	Name[0]	ELA_CIN_LSB : 0x57
	7	Name[1]	ELA_CIN_MSB: 0x07
	8	Name[2]	MFR_Num[0]
	9	Name[3]	MFR_Num[1]
	10	Name[4]	MFR_Num[2]
	11	Name[5]	MFR_Num[3]
	12	Name[6]	MFR_Num[4]
	13	Name[7]	MFR_Num[5]
	14	Name[8]	MFR_Num[6]
	15	Name[9]	Length : ≤0x10
	16	Name 10]	Type : 0x09
	17	Name[11]	Name[0]
	18	Name[12]	Name[1]
	19	Name[13]	Name[2]
	20	Name[14]	Name[3]
	21	Not used	Name[4]
	22	Not used	Name[5]
	23	Not used	Name[6]
	24	Not used	Name[7]
	25	Not used	Name[8]
	26	Not used	Name[9]
	27	Not used	Name[10]
	28	Not used	Name[11]
	29	Not used	Name[12]
	30	Not used	Name[13]
	31	Not used	Name[14]

Frame example

Received frame : ELA ID, Service Data		Received frame : ELA ID, MFR Spec. Data																						
Name	<i>BE_TEST_K ID A9</i>	Name	<i>BE_TEST_ID</i>																					
		MFR_Num	<i>0xAABBCCDDEEFF</i>																					
Raw data: <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> 0x020106100942455F544553545F4B204944204139 </div> Details: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LEN.</th> <th>TYPE</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0x01</td> <td>0x06</td> </tr> <tr> <td>16</td> <td>0x09</td> <td>0x42455F544553545F4B204944204139</td> </tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	16	0x09	0x42455F544553545F4B204944204139	Raw data: <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> 0x0201060AFF570706AABBCCDDEEFF0B0942455F544553545F4944 </div> Details: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LEN.</th> <th>TYPE</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0x01</td> <td>0x06</td> </tr> <tr> <td>10</td> <td>0xFF</td> <td>0x570706AABBCCDDEEFF</td> </tr> <tr> <td>11</td> <td>0x09</td> <td>0x42455F544553545F4944</td> </tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	10	0xFF	0x570706AABBCCDDEEFF	11	0x09	0x42455F544553545F4944
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10	0xFF	0x570706AABBCCDDEEFF																						
11	0x09	0x42455F544553545F4944																						
<div style="border: 1px solid black; padding: 5px; display: inline-block;">ID Mfr Data</div>																								
<div style="border: 1px solid black; padding: 5px; display: inline-block;">Name</div>																								

b. "iBeacon" Format

Frame type	Service & Mfr Spec. Data	Service & Mfr Spec. Data
Version	1.0.0, 2.0.0	≥2.1.0
Frame Bytes	1 Length : 0x02	Length : 0x02
	2 Type : 0x01	Type : 0x01
	3 Data: 0x04	Data : 0x06
	4 Length : 0x1A	Length : 0x1A
	5 Type : 0xFF	Type : 0xFF
	6 Apple CIN_LSB : 0x4C	Apple CIN_LSB : 0x4C
	7 Apple CIN_MSB : 0x00	Apple CIN_MSB : 0x00
	8 Beacon type : 0x02	Beacon type : 0x02
	9 Data size : 0x15	Data size : 0x15
	10 UUID[0]	UUID[0]
	11 UUID[1]	UUID[1]
	12 UUID[2]	UUID[2]
	13 UUID[3]	UUID[3]
	14 UUID[4]	UUID[4]
	15 UUID[5]	UUID[5]
	16 UUID[6]	UUID[6]
	17 UUID[7]	UUID[7]
	18 UUID[8]	UUID[8]
	19 UUID[9]	UUID[9]
	20 UUID[10]	UUID[10]
	21 UUID[11]	UUID[11]
	22 UUID[12]	UUID[12]
	23 UUID[13]	UUID[13]
	24 UUID[14]	UUID[14]
	25 UUID[15]	UUID[15]
	26 Major[0]	Major[0]
	27 Major[1]	Major[1]
	28 Minor[0]	Minor[0]
	29 Minor[1]	Minor[1]
	30 Power TX at 1m	Power TX at 1m
	31 Not used	Not used

For the iBeacon format, the Tag Name is transmitted into the Scan Response.

Frame type	Scan Response
Version	All
Frame Bytes	1 Length : ≤0x10
	2 Type : 0x09
	3 Name[0]
	4 Name[1]
	5 Name[2]
	6 Name[3]
	7 Name[4]
	8 Name[5]
	9 Name[6]
	10 Name[7]
	11 Name[8]
	12 Name[9]
	13 Name[10]
	14 Name[11]
	15 Name[12]
	16 Name[13]
	17 Name[14]

Frame example

Received frame : iBeacon, V2.1.0

Name	P ID 002BEA		
UUID	0xFF02030405FF0708090AA00C0D0E0F11		
Major	0x5555	Minor	0xAAAA

Raw data:

```
0x0201061AFF4C000215FF02030405FF0708090AA00C0D0E0F115555AAAAC40C095020494420303032424541
```

Details:

LEN.	TYPE	VALUE
2	0x01	0x06
26	0xFF	0x4C000215FF02030405FF0708090AA00C0D0E0F115555AAAAC4
12	0x09	0x5020494420303032424541

iBeacon field

Name (SR Frame)

c. "Eddystone" Format

Frame type	Service & Mfr Spec. Data	
Version	All	
Frame Bytes	1	Length : 0x02
	2	Type : 0x01
	3	Data : 0x06
	4	Length : 0x03
	5	Type : 0x03
	6	Eddystone_UUID_LSB : 0xAA
	7	Eddystone_UUID_MSB : 0xFE
	8	Length : 0x17
	9	Type : 0x16
	10	Eddystone_UUID_LSB : 0xAA
	11	Eddystone_UUID_MSB : 0xFE
	12	Frame type UUID : 0x00
	13	Power TX à 0m
	14	NID[0]
	15	NID[1]
	16	NID[2]
	17	NID[3]
	18	NID[4]
	19	NID[5]
	20	NID[6]
	21	NID[7]
	22	NID[8]
	23	NID[9]
	24	BID[0]
	25	BID[1]
	26	BID[2]
	27	BID[3]
	28	BID[4]
	29	BID[5]
	30	Reserved
	31	Reserved

For the Eddystone format, the Tag Name is transmitted into the Scan Response.

Frame type	Scan Response	
Version	All	
Frame Bytes	1	Length : ≤0x10
	2	Type : 0x09
	3	Name[0]
	4	Name[1]
	5	Name[2]
	6	Name[3]
	7	Name[4]
	8	Name[5]
	9	Name[6]
	10	Name[7]
	11	Name[8]
	12	Name[9]
	13	Name[10]
	14	Name[11]
	15	Name[12]
	16	Name[13]
	17	Name[14]

Frame example

Received frame : Eddystone, V3.0.0																
Name	P ID 002BEA															
NID	AA020FF40506070809FF															
BID	01FA03BB05DD															
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Raw data: <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> 0x0201060303AAFE1716AAFE00EDAA02 0FF40506070809FF01FA03BB05DD00000 C095020494420303032424541 </div> </div> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Eddystone field</div> <div style="border: 1px solid black; padding: 5px;">Name (SR Frame)</div> </div> <table border="1" style="border-collapse: collapse;"> <thead> <tr> <th>LEN.</th> <th>TYPE</th> <th>VALUE</th> </tr> </thead> <tbody> <tr><td>2</td><td>0x01</td><td>0x06</td></tr> <tr><td>3</td><td>0x03</td><td>0xAAFE</td></tr> <tr><td>23</td><td>0x16</td><td>0xAAFE00EDAA020FF40506070809FF01FA03BB05DD0000</td></tr> <tr><td>12</td><td>0x09</td><td>0x5020494420303032424541</td></tr> </tbody> </table> </div>		LEN.	TYPE	VALUE	2	0x01	0x06	3	0x03	0xAAFE	23	0x16	0xAAFE00EDAA020FF40506070809FF01FA03BB05DD0000	12	0x09	0x5020494420303032424541
LEN.	TYPE	VALUE														
2	0x01	0x06														
3	0x03	0xAAFE														
23	0x16	0xAAFE00EDAA020FF40506070809FF01FA03BB05DD0000														
12	0x09	0x5020494420303032424541														

d. "T", "T EN", "T Probe" format

Frame type	Service Data	Mfr Spec. Data	
Version	≥1.0.0	≥2.0.0	
Frame bytes	1	Length : 0x02	Length : 0x02
	2	Type : 0x01	Type : 0x01
	3	Data: 0x06	Data : 0x06
	4	Length : 0x05	Length : 0x06
	5	Type : 0x16	Type: 0xFF
	6	Temperature carac. LSB : 0x6E	ELA_CIN_LSB : 0x57
	7	Temperature carac. MSB : 0x2A	ELA_CIN_MSB: 0x07
	8	T° Data (0,01°C) LSB	TEMP_ID: 0x12
	9	T° Data (0,01°C) MSB	T° Data (0,01°C) LSB
	10	Length : ≤0x10	T° Data (0,01°C) MSB
	11	Type : 0x09	Length : ≤0x10
	12	Name[0]	Type : 0x09
	13	Name[1]	Name[0]
	14	Name[2]	Name[1]
	15	Name[3]	Name[2]
	16	Name[4]	Name[3]
	17	Name[5]	Name[4]
	18	Name[6]	Name[5]
	19	Name[7]	Name[6]
	20	Name[8]	Name[7]
	21	Name[9]	Name[8]
	22	Name[10]	Name[9]
	23	Name[11]	Name[10]
	24	Name[12]	Name[11]
	25	Name[13]	Name[12]
	26	Name[14]	Name[13]
	27	Not used	Name[14]
	28	Not used	Not used
	29	Not used	Not used
	30	Not used	Not used
	31	Not used	Not used

Frame example

Received frame : ELA T, Service Data		Received frame : ELA T, MFR Spec. Data																									
Name	<i>P T 801803</i>	Name	<i>P T 801803</i>																								
Measured Temp.	<i>0x0A6C = 26.68°C</i>	Measured Temp.	<i>0x0A85 = 26.93°C</i>																								
Raw data: <div style="border: 1px solid #add8e6; padding: 5px; display: inline-block;"> 0x02010605166E2A6C0A0B09502054203 83031383033 </div>		Raw data: <div style="border: 1px solid #add8e6; padding: 5px; display: inline-block;"> 0x02010606FF570712850A0B095020542 0383031383033 </div>																									
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LEN.	TYPE	VALUE																									
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LEN.	TYPE	VALUE																									
2	0x01	0x06																									
6	0xFF	0x570712850A																									
11	0x09	0x50205420383031383033																									

e. "RHT" format

Frame type	Service Data	Mfr Spec. Data
Version	≥1.0.0	≥2.0.0
Frame bytes	1 Length : 0x02	Length : 0x02
	2 Type : 0x01	Type : 0x01
	3 Data : 0x06	Data : 0x06
	4 Length : 0x05	Length : 0x08
	5 Type : 0x16	Type : 0xFF
	6 <i>Temperature</i> carac. LSB : 0x6E	ELA_CIN_LSB : 0x57
	7 <i>Temperature</i> carac. MSB : 0x2A	ELA_CIN_MSB : 0x07
	8 T° Data (0,01°C) LSB	RHT_DATA_ID : 0x21
	9 T° Data (0,01°C) MSB	RH Data (%)
	10 Length : 0x04	TEMP_DATA_ID : 0x12
	11 Type : 0x16	T° Data (0,01°C) LSB
	12 <i>Humidity</i> carac. LSB : 0x6F	T° Data (0,01°C) MSB
	13 <i>Humidity</i> carac. MSB : 0x2A	Length : ≤0x10
	14 RH Data (%)	Type : 0x09
	15 Length : ≤0x10	Name[0]
	16 Type : 0x09	Name[1]
	17 Name[0]	Name[2]
	18 Name[1]	Name[3]
	19 Name[2]	Name[4]
	20 Name[3]	Name[5]
	21 Name[4]	Name[6]
	22 Name[5]	Name[7]
	23 Name[6]	Name[8]
	24 Name[7]	Name[9]
	25 Name[8]	Name[10]
	26 Name[9]	Name[11]
	27 Name[10]	Name[12]
	28 Name[11]	Name[13]
	29 Name[12]	Name[14]
	30 Name[13]	Not used
	31 Name[14]	Not used

Frame example

Received frame : ELA RHT, Service Data				Received frame : ELA RHT, MFR Spec. Data			
Name		<i>P RHT 900459</i>		Name		<i>P RHT 900459</i>	
Measured Temp	26.98°C	Measured RH	47%	Measured Temp	27.44°C	Measured RH	48%
Raw data: 0x02010605166E2A8A0A04166F2A2F0D09502052485420393030343539				Raw data: 0x02010608FF5707213012B80A0D09502052485420393030343539			
Details:				Details:			
LEN.	TYPE	VALUE		LEN.	TYPE	VALUE	
2	0x01	0x06		2	0x01	0x06	
5	0x16	0x6E2A8A0A		8	0xFF	0x5707213012B80A	
4	0x16	0x6F2A2F		13	0x09	0x502052485420393030343539	
13	0x09	0x502052485420393030343539					

f. "MAG" format

Frame type	Service Data	Service Data	Mfr Spec. Data	
Version	1.0.0	≥2.0.0	≥2.0.0	
Frame Bytes	1	Length: 0x02	Length : 0x02	
	2	Type : 0x01	Type : 0x01	
	3	Data : 0x06	Data : 0x06	
	4	Length : 0x05	Length : 0x05	
	5	Type : 0x16	Type : 0x16	
	6	Alert Level/carac. LSB : 0x06	Alert Level/carac. LSB : 0x06	ELA_CIN_LSB : 0x57
	7	Alert Level/carac. MSB : 0x2A	Alert Level/carac. MSB : 0x2A	ELA_CIN_MSB : 0x07
	8	MAG Data (cnt + state) LSB	MAG Data (cnt + state) LSB	MAG_DATA_ID : 0x32
	9	MAG Data (cnt + state) MSB	MAG Data (cnt + state) MSB	MAG Data (cnt + state) LSB
	10	Length : ≤0x10	Length : 0x04	MAG Data (cnt + state) MSB
	11	Type : 0x09	Type : 0x16	Length: ≤0x10
	12	Name[0]	Alert Status carac. LSB : 0x3F	Type : 0x09
	13	Name[1]	Alert Status carac. MSB : 0x2A	Name[0]
	14	Name[2]	Data : 0x00	Name[1]
	15	Name[3]	Length : ≤0x10	Name[2]
	16	Name[4]	Type : 0x09	Name[3]
	17	Name[5]	Name[0]	Name[4]
	18	Name[6]	Name[1]	Name[5]
	19	Name[7]	Name[2]	Name[6]
	20	Name[8]	Name[3]	Name[7]
	21	Name[9]	Name[4]	Name[8]
	22	Name[10]	Name[5]	Name[9]
	23	Name[11]	Name[6]	Name[10]
	24	Name[12]	Name[7]	Name[11]
	25	Name[13]	Name[8]	Name[12]
	26	Name[14]	Name[9]	Name[13]
	27	Not used	Name[10]	Name[14]
	28	Not used	Name[11]	Not used
	29	Not used	Name[12]	Not used
	30	Not used	Name[13]	Not used
	31	Not used	Name[14]	Not used

Frame example

Received frame : ELA MAG, V3.0.0, Service Data				Received frame : ELA MAG, V3.0.0, MFR Spec. Data			
Name	P MAG C0062E			Name	P MAG C0062E		
Event Counter	4	Magnet state	present	Event Counter	5	Magnet state	absent
Raw data: 0x0201060516062A090004163F2A000D0950204D414720433030363245				Raw data: 0x02010606FF5707320A000D0950204D414720433030363245			
Details:				Details:			
LEN.	TYPE	VALUE		LEN.	TYPE	VALUE	
2	0x01	0x06		2	0x01	0x06	
5	0x16	0x062A0900		6	0xFF	0x5707320A00	
4	0x16	0x3F2A00		13	0x09	0x50204D414720433030363245	
13	0x09	0x50204D414720433030363245					

g. "MOV" format

Frame type	Service Data	Service Data	Mfr Spec. Data
Version	1.0.0	≥2.0.0	≥2.0.0
Frame bytes	1 Length : 0x02	Length : 0x02	Length : 0x02
	2 Type : 0x01	Type : 0x01	Type : 0x01
	3 Data : 0x06	Data : 0x06	Data : 0x06
	4 Length : 0x05	Length : 0x05	Length : 0x06
	5 Type : 0x16	Type : 0x16	Type: 0xFF
	6 <i>Alert Level</i> /carac. LSB : 0x06	<i>Alert Level</i> /carac. LSB : 0x06	ELA_CIN_LSB : 0x57
	7 <i>Alert Level</i> /carac. MSB : 0x2A	<i>Alert Level</i> /carac. MSB : 0x2A	ELA_CIN_MSB : 0x07
	8 MOV Data (cnt + state) LSB	MOV Data (cnt + state) LSB	MOV_DATA_ID : 0x42
	9 MOV Data (cnt + state) MSB	MOV Data (cnt + state) MSB	MOV Data (cnt + state) LSB
	10 Length : ≤0x10	Length : 0x04	MOV Data (cnt + state) MSB
	11 Type : 0x09	Type : 0x16	Length : ≤0x10
	12 Name[0]	<i>Alert Status</i> carac. LSB : 0x3F	Type : 0x09
	13 Name[1]	<i>Alert Status</i> carac. MSB : 0x2A	Name[0]
	14 Name[2]	Data : 0x01	Name[1]
	15 Name[3]	Length : ≤0x10	Name[2]
	16 Name[4]	Type : 0x09	Name[3]
	17 Name[5]	Name[0]	Name[4]
	18 Name[6]	Name[1]	Name[5]
	19 Name[7]	Name[2]	Name[6]
	20 Name[8]	Name[3]	Name[7]
	21 Name[9]	Name[4]	Name[8]
	22 Name[10]	Name[5]	Name[9]
	23 Name[11]	Name[6]	Name[10]
	24 Name[12]	Name[7]	Name[11]
	25 Name[13]	Name[8]	Name[12]
	26 Name[14]	Name[9]	Name[13]
	27 Not used	Name[10]	Name[14]
	28 Not used	Name[11]	Not used
	29 Not used	Name[12]	Not used
	30 Not used	Name[13]	Not used
	31 Not used	Name[14]	Not used

Frame example

Received frame : ELA MOV, V3.0.0, Service Data				Received frame : ELA MOV, V3.0.0, MFR Spec. Data			
Name		P MOV B00557		Name		P MOV B00557	
Event counter	3	Mvt state	In progress	Event counter	6	Mvt state	No mvt
Raw data:				Raw data:			
0x0201060516062A070004163F2A010D0 950204D4F5620423030353537				0x02010606FF5707420C000D0950204D4 F5620423030353537			
Details:				Details:			
LEN.	TYPE	VALUE		LEN.	TYPE	VALUE	
2	0x01	0x06		2	0x01	0x06	
5	0x16	0x062A0700		6	0xFF	0x5707420C00	
4	0x16	0x3F2A01		13	0x09	0x50204D4F5620423030353537	
13	0x09	0x50204D4F5620423030353537					

h. "ANG" format

Frame type	Service Data	Mfr Spec. Data
Version	≥1.0.0	≥2.0.0
Frame bytes	1 Length : 0x02	Length : 0x02
	2 Type : 0x01	Type : 0x01
	3 Data : 0x06	Data : 0x06
	4 Length : 0x09	Length : 0x0A
	5 Type : 0x16	Type: 0xFF
	6 <i>MAG 3D</i> carac. LSB : 0xA1	ELA_CIN_LSB : 0x57
	7 <i>MAG 3D</i> carac. MSB : 0x2A	ELA_CIN_MSB: 0x07
	8 Accel. Data X axis (mg) LSB	ANG_DATA_ID: 0x56
	9 Accel. Data X axis (mg) MSB	Accel. Data X axis (mg) LSB
	10 Accel. Data Y axis (mg) LSB	Accel. Data X axis (mg) MSB
	11 Accel. Data Y axis (mg) MSB	Accel. Data Y axis (mg) LSB
	12 Accel. Data Z axis (mg) LSB	Accel. Data Y axis (mg) MSB
	13 Accel. Data Z axis (mg) MSB	Accel. Data Z axis (mg) LSB
	14 Length : ≤0x10	Accel. Data Z axis (mg) MSB
	15 Type : 0x09	Length : ≤0x10
	16 Name[0]	Type : 0x09
	17 Name[1]	Name[0]
	18 Name[2]	Name[1]
	19 Name[3]	Name[2]
	20 Name[4]	Name[3]
	21 Name[5]	Name[4]
	22 Name[6]	Name[5]
	23 Name[7]	Name[6]
	24 Name[8]	Name[7]
	25 Name[9]	Name[8]
	26 Name[10]	Name[9]
	27 Name[11]	Name[10]
	28 Name[12]	Name[11]
	29 Name[13]	Name[12]
	30 Name[14]	Name[13]
	31 Not used	Name[14]

Frame example

Received frame : ELA ANG, Service Data		Received frame : ELA ANG, MFR Spec. Data	
Name	<i>P MOV B00557</i>	Name	<i>P MOV B00557</i>
Accel. X axis	<i>0xFFB9 = -71 mg</i>	Accel. X axis	<i>0xFFB8 = -72mg</i>
Accel. Y axis	<i>0x0007 = 7 mg</i>	Accel. Y axis	<i>0xFFEC = -20mg</i>
Accel. Z axis	<i>0x0484 = 1156 mg</i>	Accel. Z axis	<i>0xFCAC = -852 mg</i>
Raw data: 0x0201060916A12AB9FF070084040D0950204D4F5620423030353537		Raw data: 0x0201060AFF570756B8FFECFFACFC0D0950204D4F5620423030353537	
Details:		Details:	
LEN.	TYPE	VALUE	
2	0x01	0x06	
9	0x16	0xA12AB9FF07008404	
13	0x09	0x50204D4F5620423030353537	
		ANG Data	
		Name	
LEN.	TYPE	VALUE	
2	0x01	0x06	
10	0xFF	0x570756B8FFECFFACFC	
13	0x09	0x50204D4F5620423030353537	

i. "DIGI IN" format

Frame type	Service Data	Mfr Spec. Data	
Version	≥2.0.0	≥2.0.0	
Frame bytes	1	Length : 0x02	Length : 0x02
	2	Type : 0x01	Type : 0x01
	3	Data : 0x06	Data : 0x06
	4	Length : 0x05	Length : 0x06
	5	Type : 0x16	Type: 0xFF
	6	Alert Level/carac. LSB : 0x06	ELA_CIN_LSB : 0x57
	7	Alert Level/carac. MSB : 0x2A	ELA_CIN_MSB: 0x07
	8	DI Data (cnt + state) LSB	DIGI_IN_DATA_ID: 0x62
	9	DI Data (cnt + state) MSB	DI Data (cnt + state) LSB
	10	Length : 0x04	DI Data (cnt + state) MSB
	11	Type : 0x16	Length : ≤0x10
	12	Alert Status carac. LSB : 0x3F	Type : 0x09
	13	Alert Status carac. MSB: 0x2A	Name[0]
	14	Data : 0x02	Name[1]
	15	Length : ≤0x10	Name[2]
	16	Type : 0x09	Name[3]
	17	Name[0]	Name[4]
	18	Name[1]	Name[5]
	19	Name[2]	Name[6]
	20	Name[3]	Name[7]
	21	Name[4]	Name[8]
	22	Name[5]	Name[9]
	23	Name[6]	Name[10]
	24	Name[7]	Name[11]
	25	Name[8]	Name[12]
	26	Name[9]	Name[13]
	27	Name[10]	Name[14]
	28	Name[11]	Not used
	29	Name[12]	Not used
	30	Name[13]	Not used
	31	Name[14]	Not used

Frame example

Received frame : ELA DI, V3.0.0, Service Data				Received frame : ELA DI, V3.0.0, MFR Spec. Data			
Name		BE_TEST_TORIN		Name		BE_TEST_TORIN	
Evt. counter	5	Input state	Released	Evt. counter	5	Input state	Released
Raw data:				Raw data:			
0x0201060516062A0A0004163F2A020E0 942455F544553545F544F52494E				0x02010606FF5707620A000E0942455F5 44553545F544F52494E			
Details:				Details:			
LEN.	TYPE	VALUE		LEN.	TYPE	VALUE	
2	0x01	0x06		2	0x01	0x06	
5	0x16	0x062A0A00		6	0xFF	0x5707620A00	
4	0x16	0x3F2A02		14	0x09	0x42455F544553545F544F52494E	
14	0x09	0x42455F544553545F544F52494E					

j. "Analog IN" format

Frame type	Service Data	Mfr Spec. Data	
Version	≥2.0.0	≥2.0.0	
Frame bytes	1	Length : 0x02	Length : 0x02
	2	Type : 0x01	Type : 0x01
	3	Data : 0x06	Data : 0x06
	4	Length : 0x05	Length : 0x06
	5	Type : 0x16	Type: 0xFF
	6	Analog Out carac. LSB : 0x58	ELA_CIN_LSB : 0x57
	7	Analog Out carac. MSB : 0x2A	ELA_CIN_MSB: 0x07
	8	Analog. Data measure (mV) LSB	AN_IN_DATA_ID: 0x72
	9	Analog. Data measure (mV) MSB	Analog. Data measure (mV) LSB
	10	Length : ≤0x10	Analog. Data measure (mV) MSB
	11	Type : 0x09	Length : ≤0x10
	12	Name[0]	Type : 0x09
	13	Name[1]	Name[0]
	14	Name[2]	Name[1]
	15	Name[3]	Name[2]
	16	Name[4]	Name[3]
	17	Name[5]	Name[4]
	18	Name[6]	Name[5]
	19	Name[7]	Name[6]
	20	Name[8]	Name[7]
	21	Name[9]	Name[8]
	22	Name[10]	Name[9]
	23	Name[11]	Name[10]
	24	Name[12]	Name[11]
	25	Name[13]	Name[12]
	26	Name[14]	Name[13]
	27	Not used	Name[14]
	28	Not used	Not used
	29	Not used	Not used
	30	Not used	Not used
	31	Not used	Not used

Frame example

Received frame : ELA AI, Service Data		Received frame : ELA AI, MFR Spec. Data																									
Name	<i>P AI 00003F</i>	Name	<i>P AI 00003F</i>																								
Measured voltage	<i>1975mV</i>	Measured voltage	<i>1975mV</i>																								
Raw data: 0x0201060516582AB7070C09502041492030303033346		Raw data: 0x02010606FF570772B7070C09502041492030303033346																									
Details: <table border="1"> <thead> <tr> <th>LEN.</th> <th>TYPE</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0x01</td> <td>0x06</td> </tr> <tr> <td>5</td> <td>0x16</td> <td>0x582AB707</td> </tr> <tr> <td>12</td> <td>0x09</td> <td>0x50204149203030303033346</td> </tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	5	0x16	0x582AB707	12	0x09	0x50204149203030303033346	Details: <table border="1"> <thead> <tr> <th>LEN.</th> <th>TYPE</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0x01</td> <td>0x06</td> </tr> <tr> <td>6</td> <td>0xFF</td> <td>0x570772B707</td> </tr> <tr> <td>12</td> <td>0x09</td> <td>0x50204149203030303033346</td> </tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	6	0xFF	0x570772B707	12	0x09	0x50204149203030303033346
LEN.	TYPE	VALUE																									
2	0x01	0x06																									
5	0x16	0x582AB707																									
12	0x09	0x50204149203030303033346																									
LEN.	TYPE	VALUE																									
2	0x01	0x06																									
6	0xFF	0x570772B707																									
12	0x09	0x50204149203030303033346																									
AI Data		Name																									

k. "DIGI OUT" format

Frame type	Service Data	Service Data	Mfr Spec. Data	
Version	2.0.0, 2.1.x	≥2.2.0	≥2.0.0	
Frame bytes	1	Length : 0x02	Length : 0x02	
	2	Type : 0x01	Type : 0x01	
	3	Data : 0x06	Data : 0x06	
	4	Length : 0x04	Length : 0x04	
	5	Type : 0x16	Type : 0x16	
	6	Alert Status carac. LSB : 0x3F	Alert Status carac. LSB : 0x3F	ELA_CIN_LSB : 0x57
	7	Alert Status carac. MSB: 0x2A	Alert Status carac. MSB: 0x2A	ELA_CIN_MSB: 0x07
	8	Data : 0x03	Data : 0x00	MFR_NUM_ID:0x86
	9	Length : ≤0x10	Length : ≤0x10	MFR_Num[0]
	10	Type : 0x09	Type : 0x09	MFR_Num[1]
	11	Name[0]	Name[0]	MFR_Num[2]
	12	Name[1]	Name[1]	MFR_Num[3]
	13	Name[2]	Name[2]	MFR_Num[4]
	14	Name[3]	Name[3]	MFR_Num[5]
	15	Name[4]	Name[4]	Length : ≤0x10
	16	Name[5]	Name[5]	Type : 0x09
	17	Name[6]	Name[6]	Name[0]
	18	Name[7]	Name[7]	Name[1]
	19	Name[8]	Name[8]	Name[2]
	20	Name[9]	Name[9]	Name[3]
	21	Name[10]	Name[10]	Name[4]
	22	Name[11]	Name[11]	Name[5]
	23	Name[12]	Name[12]	Name[6]
	24	Name[13]	Name[13]	Name[7]
	25	Name[14]	Name[14]	Name[8]
	26	Not used	Not used	Name[9]
	27	Not used	Not used	Name[10]
	28	Not used	Not used	Name[11]
	29	Not used	Not used	Name[12]
	30	Not used	Not used	Name[13]
	31	Not used	Not used	Name[14]

Frame example

Received frame : ELA DO, V3.0.0, Service Data		Received frame : ELA DO, V3.0.0, MFR Spec. Data																									
Name	<i>P DO 000037</i>	Name	<i>P DO 000037</i>																								
		MFR_Num	<i>BABA102030FF</i>																								
Raw data: 0x02010604163F2A000C095020444F20303030303337		Raw data: 0x0201060AFF570786BABA102030FF0C095020444F20303030303337																									
Details: <table border="1"> <thead> <tr><th>LEN.</th><th>TYPE</th><th>VALUE</th></tr> </thead> <tbody> <tr><td>2</td><td>0x01</td><td>0x06</td></tr> <tr><td>4</td><td>0x16</td><td>0x3F2A00</td></tr> <tr><td>12</td><td>0x09</td><td>0x5020444F20303030303337</td></tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	4	0x16	0x3F2A00	12	0x09	0x5020444F20303030303337	Details: <table border="1"> <thead> <tr><th>LEN.</th><th>TYPE</th><th>VALUE</th></tr> </thead> <tbody> <tr><td>2</td><td>0x01</td><td>0x06</td></tr> <tr><td>10</td><td>0xFF</td><td>0x570786BABA102030FF</td></tr> <tr><td>12</td><td>0x09</td><td>0x5020444F20303030303337</td></tr> </tbody> </table>		LEN.	TYPE	VALUE	2	0x01	0x06	10	0xFF	0x570786BABA102030FF	12	0x09	0x5020444F20303030303337
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<div style="border: 1px solid black; padding: 5px; display: inline-block;">MFR_Num</div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">ELA DO ID</div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">Name</div>																											

I. "PIR" format

Frame type	Service Data	Mfr Spec. Data	
Version	≥3.0.1	≥3.0.1	
Octets frame	1	Length: 0x02	Length: 0x02
	2	Type : 0x01	Type : 0x01
	3	Data : 0x06	Data : 0x06
	4	Length: 0x05	Length: 0x06
	5	Type : 0x16	Type: 0xFF
	6	Rainfall Carac. LSB : 0x78	ELA_CIN_LSB : 0x57
	7	Rainfall Carac. MSB : 0x2A	ELA_CIN_MSB: 0x07
	8	PIR Data (cnt + state) LSB	PIR_DATA_ID: 0x92
	9	PIR Data (cnt + state) MSB	PIR Data (cnt + state) LSB
	10	Length: ≤0x0F	PIR Data (cnt + state) MSB
	11	Type : 0x09	Length: ≤0x0F
	12	Name[0]	Type : 0x09
	13	Name[1]	Name[0]
	14	Name[2]	Name[1]
	15	Name[3]	Name[2]
	16	Name[4]	Name[3]
	17	Name[5]	Name[4]
	18	Name[6]	Name[5]
	19	Name[7]	Name[6]
	20	Name[8]	Name[7]
	21	Name[9]	Name[8]
	22	Name[10]	Name[9]
	23	Name[11]	Name[10]
	24	Name[12]	Name[11]
	25	Name[13]	Name[12]
	26	Name[14]	Name[13]
	27	Not used	Name[14]
	28	Not used	Not used
	29	Not used	Not used
	30	Not used	Not used
	31	Not used	Not used

Frame example

Received frame : ELA PIR, V3.0.1, Service Data				Received frame : ELA PIR, V3.0.1, MFR Spec. Data			
Name		ELA_PUCK_PIR_01		Name		ELA_PUCK_PIR_01	
Evt. counter	13	Mouvement state	Detected	Evt. counter	78	Mouvement state	Not detected
Raw data:				Raw data:			
0x0201060516782A1B001009454C415F5055434B5F5049525F3031				0x02010608FF5707929C0000001009454C415F5055434B5F5049525F3031			
Details:				Details:			
LEN.	TYPE	VALUE		LEN.	TYPE	VALUE	
2	0x01	0x06		2	0x01	0x06	
5	0x16	0x782A1B00	PIR Data	8	0xFF	0x5707929C000000	
16	0x09	0x454C415F5055434B5F5049525F3031	Name	16	0x09	0x454C415F5055434B5F5049525F3031	