# How to access the section to define the CODEC in ChirpStack.

#### November 2022

#### 1 Go to device profiles



Figure 1: ChirpStack dashboard

### 2 Select the device profile to configure

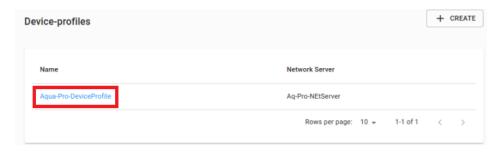


Figure 2: Device profiles tab

#### 3 Select the codec tab

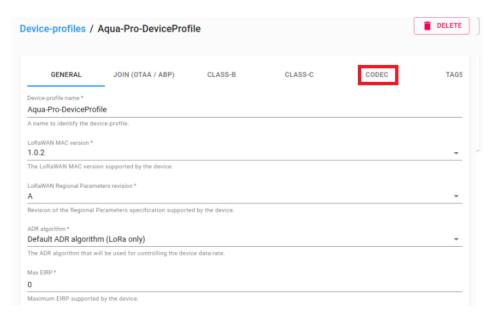


Figure 3: Device profile settings

4 In the dropdown menu select the Custom JavaScript codec functions option

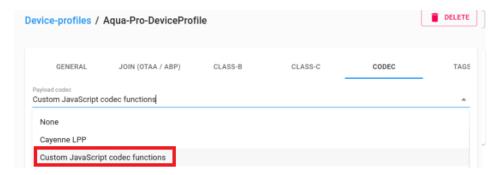


Figure 4: CODEC tab

## 5 Enter the code to decode and encode the information.

```
GENERAL
                      JOIN (OTAA / ABP)
                                              CLASS-B
                                                                   CLASS-C
                                                                                        CODEC
                                                                                                             TAGS
Custom JavaScript codec functions
By defining a payload codec, ChirpStack Application Server can encode and decode the binary device payload for you.
1 // Decode decodes an array of bytes into an object.
  2 // - fPort contains the LoRaWAN fPort number
  3 // - bytes is an array of bytes, e.g. [225, 230, 255, 0]
  4 // - variables contains the device variables e.g. {"calibration": "3.5"} (both the key / value are o
  5 // The function must return an object, e.g. {"temperature": 22.5}
The function must have the signature function Decode(fPort, bytes) and must return an object. ChirpStack Application Server will convert this object to
1 // Encode encodes the given object into an array of bytes.
  2 // - fPort contains the LoRaWAN fPort number
  3 // - obj is an object, e.g. {"temperature": 22.5}
  4 // - obj is an object, e.g. {"action": 1, "sensor": 1, "valor":5}
  5 // - obj is an object, e.g. {"action": 2, "time": 52}
  6 // - variables contains the device variables e.g. {"calibration": "3.5"} (both the key / value are o
  _{7} // The function must return an array of bytes, e.g. [225, 230, 255, 0]
```

Figure 5: Section for programming the encode and decode functions in ChirpStack.