Practicum4EventDetails.md 2024-09-27

```
"name": "as.up.data.forward",
"time": "2024-09-27T11:01:46.524679415Z",
"identifiers": [
  {
    "device ids": {
      "device_id": "kwiksdevice",
      "application_ids": {
        "application_id": "kwiksapp"
      },
      "dev_eui": "0004A30B0020784D",
      "join_eui": "0303030303030303",
      "dev_addr": "260BBDA4"
  }
],
"data": {
  "@type": "type.googleapis.com/ttn.lorawan.v3.ApplicationUp",
  "end_device_ids": {
    "device_id": "kwiksdevice",
    "application_ids": {
      "application_id": "kwiksapp"
    },
    "dev_eui": "0004A30B0020784D",
    "join_eui": "0303030303030303",
    "dev_addr": "260BBDA4"
  },
  "correlation_ids": [
    "gs:uplink:01J8SJ9PPCNJ0ZF8TF439SR1GS"
  "received_at": "2024-09-27T11:01:46.521777256Z",
  "uplink_message": {
    "session_key_id": "AZIzGx0b4LKi8oA110x66w==",
    "f port": 1,
    "frm_payload": "Zg==",
    "rx metadata": [
      {
        "gateway_ids": {
          "gateway id": "hhs-hboict-nse-delft",
          "eui": "C0EE40FFFF294119"
        },
        "time": "2024-09-27T11:01:46.291042089Z",
        "timestamp": 860786716,
        "rssi": -69,
        "channel_rssi": -69,
        "snr": 6.25,
        "location": {
          "latitude": 52.0019449227654,
          "longitude": 4.3672296126473675,
          "altitude": 8,
          "source": "SOURCE_REGISTRY"
        },
```

Practicum4EventDetails.md 2024-09-27

```
"uplink_token":
"CiIKIAoUaGhzLWhib2ljdC1uc2UtZGVsZnQSCMDuQP//KUEZEJygupoDGgwImqHatwYQ3I7xlgEg4NqL1
4YZ",
          "received_at": "2024-09-27T11:01:46.304512973Z"
        },
          "gateway_ids": {
            "gateway id": "eui-58a0cbfffe804e23",
            "eui": "58A0CBFFFE804E23"
          "time": "2024-09-27T11:01:46.256426095Z",
          "timestamp": 3082096756,
          "rssi": -108,
          "channel_rssi": -108,
          "snr": 6.5,
          "location": {
            "latitude": 52.00200284022436,
            "longitude": 4.366765022277833,
            "source": "SOURCE REGISTRY"
          },
          "uplink_token":
"CiIKIAoUZXVpLTU4YTBjYmZmZmU4MDRlMjMSCFigy//+gE4jEPSg1L0LGgwImqHatwYQ79aOmAEgoIqh2
tlZ",
          "received_at": "2024-09-27T11:01:46.274387912Z"
        }
      ],
      "settings": {
        "data rate": {
          "lora": {
            "bandwidth": 125000,
            "spreading factor": 12,
            "coding rate": "4/5"
          }
        },
        "frequency": "868100000",
        "timestamp": 860786716,
        "time": "2024-09-27T11:01:46.291042089Z"
      "received at": "2024-09-27T11:01:46.317322518Z",
      "confirmed": true,
      "consumed airtime": "1.155072s",
      "network ids": {
        "net id": "000013",
        "ns id": "EC656E0000000181",
        "tenant id": "ttn",
        "cluster_id": "eu1",
        "cluster_address": "eu1.cloud.thethings.network"
      }
    }
  },
  "correlation ids": [
    "gs:uplink:01J8SJ9PPCNJ0ZF8TF439SR1GS"
  ],
  "origin": "ip-10-100-7-85.eu-west-1.compute.internal",
```

Practicum4EventDetails.md 2024-09-27

```
"context": {
    "tenant-id": "CgN0dG4="
},
    "visibility": {
        "rights": [
            "RIGHT_APPLICATION_TRAFFIC_READ"
        ]
    },
    "unique_id": "01J8SJ9PWWG2KFJ8VC617QTQJW"
}
```

```
sys get ver
RN2483 1.0.5 Oct 31 2018 15:06:52
mac set appeui 0303030303030303
ok
mac get appeui
0303030303030303
mac set appkey E05C89370B4CD40D96537FB9725457D2
ok
mac save
ok
mac join otaa
ok
accepted
mac tx cnf 1 0x66
invalid_param
mac tx cnf 1 66
ok
mac_tx_ok
```