

Fault/Problem Description

OTAA not working on V3 nodes since Friday. Looks like the join accept is not getting forwarded correctly. Experiencing this problem on the AU915 FSB2 channel plan, problem appears to be identical to another user on the Australia AS923 channel plan.

Test Environment

V3 Node:

ID:

aus210615-33-34-37-39-77-37-8f-01

Network server address/Application Server Address/ Join Server Address:

au1.cloud.thethings.network

LoRaWAN Version:

MAC V1.0.2

Regional Parameters:

PHY V1.0.2 REV B

Frequency Plan:

Australia 915-928 MHz, FSB 2 (Used by TTN)

V2 Gateway:

Frequency Plan:

Australia 915MHz

Router:

meshed-router


Test Sequence

Powered up the V3 node and captured the unsuccessful join request traffic on the V2 gateway console and V3 live data console for the end node. The screen grabs and event details for the receive join request, schedule join-accept for transmission, and forward join-accept to application server are provided below.

A subsequent screengrab indicates the repeated join requests sent by the node.

To verify node operation powered up a local Conduit gateway with the same channel plan and local lora server and captured a successful OTAA join request from the same node together with successful uplink and downlink transmissions, the screen dump from the mosquito subscription is provided at the end of this document. I have also included a screengrab of the V2 TTIG traffic showing the successful data transmissions to the local Conduit gateway from the V3 node (included this to indicate that the channel plans are the same).

Unsuccessful Join Request via TTN (TTIG Gateway Traffic)

Gateways >  eui-58a0cbffe802ca6 > Traffic ^{beta}

Overview

Traffic

Settings

Important: The Things Network is moving to The Things Stack (V3).

The V2 NOC component that provides this page with the live gateway status and traffic will shut down in **July 2021**.

Migrate your gateways to The Things Stack (V3) to keep access to live gateway information!

The Things Network V2 clusters will permanently shut down in **December 2021**.

Click [here](#) to read more.

GATEWAY TRAFFIC ^{beta}

uplink

downlink

join

0 bytes



|| pause



clear

time

frequency

mod.

CR

data rate

airtime (ms)

cnt



09:05:42

917.8

4/5

SF 10 BW 125

370.7

app eui: 70 B3D5 7E D003 32 64

dev eui: 33 34 37 39 77 37 8F 01

Unsuccessful Join Request via TTN (V3 Node Live Data)



29530020

ID: aus210615-33-34-37-39-77-37-8f-01

• Last seen 26 seconds ago ↑ 76 ↓ 24

Overview Live data Messaging Location Payload formatters Claiming General settings

Time	Type	Data preview
↑ 09:05:44	Forward join-accept to Application Se...	
↑ 09:05:44	Forward join-accept message	
↑ 09:05:44	Receive join-accept message	
↓ 09:05:44	Successfully scheduled join-accept fo...	
↓ 09:05:44	Schedule join-accept for transmission...	Rx1 Delay: 5
↑ 09:05:42	Successfully processed join-request	JoinEUI: 70 B3 D5 7E D0 03 32 64 DevEUI: 33 34 37 39 77 37 8F 01 Bandwidth: 125000 SNR: 12.5 RSSI: -34 Raw payl...
↑ 09:05:42	Join-request to cluster-local Join Se...	Session key ID: 01 7A 70 56 4F 5B 2B A7 AB A9 B1 2F 8A 04 E6 17
⇒ 09:05:42	Accept join-request	
↑ 09:05:42	Send join-request to cluster-local Jo...	Selected MAC version: MAC_V1_0_2
↑ 09:05:42	Receive join-request	JoinEUI: 70 B3 D5 7E D0 03 32 64 DevEUI: 33 34 37 39 77 37 8F 01 Bandwidth: 125000 SNR: 12.5 RSSI: -34 Raw payl...
☰ 09:01:33	Console: Events cleared	The events list has been cleared

Receive Join Request

```
{
  "name": "ns.up.join.receive",
  "time": "2021-07-04T07:05:42.487496783Z",
  "identifiers": [
    {
      "device_ids": {
        "device_id": "aus210615-33-34-37-39-77-37-8f-01",
        "application_ids": {
          "application_id": "ausv3-au915-c8-monitor"
        }
      }
    },
    {
      "device_ids": {
        "device_id": "aus210615-33-34-37-39-77-37-8f-01",
        "application_ids": {
          "application_id": "ausv3-au915-c8-monitor"
        }
      },
      "dev_eui": "3334373977378F01",
      "join_eui": "70B3D57ED0033264",
      "dev_addr": "260D632B"
    }
  ],
  "data": {
    "@type":
"type.googleapis.com/ttn.lorawan.v3.UplinkMessage",
    "raw_payload": "AGQyA9B+1bNwAY83dzk3NDMrDG/Xz9E=",
    "payload": {
      "m_hdr": {},
      "mic": "b9fP0Q==",
      "join_request_payload": {
        "join_eui": "70B3D57ED0033264",
        "dev_eui": "3334373977378F01",
        "dev_nonce": "0C2B"
      }
    }
  },
  "settings": {
    "data_rate": {
      "lora": {
        "bandwidth": 125000,
        "spreading_factor": 10
      }
    },
    "data_rate_index": 2,
    "coding_rate": "4/5",
    "frequency": "917800000"
  },
  "rx_metadata": [
    {
      "gateway_ids": {
        "gateway_id": "packetbroker"
      },
      "packet_broker": {
        "message_id": "01F9R5CKRNN3JND1AM9CC4H88G",
        "forwarder_net_id": "000013",
        "forwarder_tenant_id": "ttnv2",
        "forwarder_cluster_id": "ttn-v2-au",
        "home_network_net_id": "000013",
        "home_network_tenant_id": "ttn",
        "home_network_cluster_id": "ttn-au1",
        "hops": [
          {
            "received_at": "2021-07-04T07:05:42.421637587Z",
            "sender_address": "52.62.83.250",
            "receiver_name": "router-dataplane-5c444c5f69-6dftd",
            "receiver_agent": "pbdataplane/1.6.1 go/1.16.5 linux/amd64"
          },
          {
            "received_at": "2021-07-04T07:05:42.423053929Z",
            "sender_name": "router-dataplane-5c444c5f69-6dftd",
            "sender_address": "forwarder uplink",
            "receiver_name": "router-5d94799d56-2xw8h",
            "receiver_agent": "pbrouter/1.6.1 go/1.16.5 linux/amd64"
          },
          {
            "received_at": "2021-07-04T07:05:42.438023275Z",
            "sender_name": "router-5d94799d56-2xw8h",
            "sender_address": "deliver.000013_ttn_ttn-au1.uplink",
            "receiver_name": "router-dataplane-5c444c5f69-f9nlp",
            "receiver_agent": "pbdataplane/1.6.1 go/1.16.5 linux/amd64"
          }
        ]
      },
      "time": "2021-07-04T07:05:41.717853069Z",
      "rssi": -34,
      "channel_rssi": -34,
      "snr": 12.5,
      "uplink_token":
"eyJnIjoiWlhsS2FHSkhZMmxQYVVVwQ1RWUkpORkl3VGs1VE1XTnBURU5LYkdKdFRXbFBhVXBVZSSk5GSXduazVKYVhkcFlWaFphVTlwU2pOWmJUbEVZakJHU0ZneFRYbFZSVGxzV1dreGEwbHBkMmxrUjBadVNXChZhVTlGTVVwaE0wNXFaV1U1VWxGV1duRlpwVXB1V1ZkNGVsb3pTbGhVWTBvNUxrUnlhM1JpWmlGYVdYWlp hMGhsZURRd1YyaDNjSGN1Tld0RVYzSXRjRlpCYkRWckxXSnlWQzVuZDB4Z1Nt"
    }
  ]
}
```

```
bGF1WHBvUVRaU1dXOUxNelZmWDNvMFZGUjRkbGxOZFdveWRtVnNRbXRyUldKb
GMxaHFam0psVTFKvWJ6Sk1OWFJ1U1haZlFURTRla3RhUVZwdFVUbgFsvWxyVW
1sdGRXZDJVVGHsYjBwCGVubHhTVkJSWmlOdU5uYzJhVkJzqVWpGVE5YTkxjV3R
tV2t4SU5XbHNNbWhvT1ZZM2JVMWlia0k0YTJKtmQyaEVTMkkzU1RoemNFeHlM
WEJmVWtnMVowZHpVbEpEWkVaa1VIZFVlbU5ZWWxWSk5UQmhTMjhhTG14UFpEZ
zFUMOE1UnkxWFJEYzBYM05xVDJGbe5XYz0iLCJhIjpp7ImZuaWQiOiIwMDAwMT
MiLCJmdGlkIjoidHRudjIiLCJmY2lkIjoidHRuLXYyLWF1In19"
  }
},
"received_at": "2021-07-04T07:05:42.486257633Z",
"correlation_ids": [
  "ns:uplink:01F9R5CKTPR3YVS4X80TS9XVR7",
  "pba:conn:up:01F993M51D8FDK8N6X7W380RXY",
  "pba:uplink:01F9R5CKRNN3JND1AM9CC4H88G",
]
"rpc:/ttn.lorawan.v3.GsNs/HandleUplink:01F9R5CKTPQSCSF82TE9Y7
4HYD"
  },
  "device_channel_index": 13,
  "consumed_airtime": "0.370688s"
},
"correlation_ids": [
  "ns:uplink:01F9R5CKTPR3YVS4X80TS9XVR7",
  "pba:conn:up:01F993M51D8FDK8N6X7W380RXY",
  "pba:uplink:01F9R5CKRNN3JND1AM9CC4H88G",
]
"rpc:/ttn.lorawan.v3.GsNs/HandleUplink:01F9R5CKTPQSCSF82TE9Y7
4HYD"
  },
  "origin": "ip-10-102-5-224.ap-southeast-
2.compute.internal",
  "context": {
    "tenant-id": "CgN0dG4="
  },
  "visibility": {
    "rights": [
      "RIGHT_APPLICATION_TRAFFIC_READ",
      "RIGHT_APPLICATION_TRAFFIC_READ"
    ]
  },
  "unique_id": "01F9R5CKTQEV94265S5DHJ6NN8"
}
```

Schedule join-accept for transmission

```
{
  "name": "ns.up.join.receive",
  "time": "2021-07-04T07:05:42.487496783Z",
  "identifiers": [
    {
      "device_ids": {
        "device_id": "aus210615-33-34-37-39-77-37-8f-01",
        "application_ids": {
          "application_id": "ausv3-au915-c8-monitor"
        }
      }
    },
    {
      "device_ids": {
        "device_id": "aus210615-33-34-37-39-77-37-8f-01",
        "application_ids": {
          "application_id": "ausv3-au915-c8-monitor"
        }
      },
      "dev_eui": "3334373977378F01",
      "join_eui": "70B3D57ED0033264",
      "dev_addr": "260D632B"
    }
  ],
  "data": {
    "@type":
"type.googleapis.com/ttn.lorawan.v3.UplinkMessage",
    "raw_payload": "AGQyA9B+1bNwAY83dzk3NDMrDG/Xz9E=",
    "payload": {
      "m_hdr": {},
      "mic": "b9fP0Q==",
      "join_request_payload": {
        "join_eui": "70B3D57ED0033264",
        "dev_eui": "3334373977378F01",
        "dev_nonce": "0C2B"
      }
    }
  },
  "settings": {
    "data_rate": {
      "lora": {
        "bandwidth": 125000,
        "spreading_factor": 10
      }
    },
    "data_rate_index": 2,
    "coding_rate": "4/5",
    "frequency": "91780000"
  },
  "rx_metadata": [
    {
      "gateway_ids": {
```

```
      "gateway_id": "packetbroker"
    },
    "packet_broker": {
      "message_id": "01F9R5CKRNN3JND1AM9CC4H88G",
      "forwarder_net_id": "000013",
      "forwarder_tenant_id": "ttnv2",
      "forwarder_cluster_id": "ttn-v2-au",
      "home_network_net_id": "000013",
      "home_network_tenant_id": "ttn",
      "home_network_cluster_id": "ttn-au1",
      "hops": [
        {
          "received_at": "2021-07-
04T07:05:42.421637587Z",
          "sender_address": "52.62.83.250",
          "receiver_name": "router-dataplane-5c444c5f69-
6dftd",
          "receiver_agent": "pbdataplane/1.6.1 go/1.16.5
linux/amd64"
        },
        {
          "received_at": "2021-07-
04T07:05:42.423053929Z",
          "sender_name": "router-dataplane-5c444c5f69-
6dftd",
          "sender_address": "forwarder uplink",
          "receiver_name": "router-5d94799d56-2xw8h",
          "receiver_agent": "pbrouter/1.6.1 go/1.16.5
linux/amd64"
        },
        {
          "received_at": "2021-07-
04T07:05:42.438023275Z",
          "sender_name": "router-5d94799d56-2xw8h",
          "sender_address": "deliver.000013_ttn_ttn-
aul.uplink",
          "receiver_name": "router-dataplane-5c444c5f69-
f9nlp",
          "receiver_agent": "pbdataplane/1.6.1 go/1.16.5
linux/amd64"
        }
      ],
      "time": "2021-07-04T07:05:41.717853069Z",
      "rssi": -34,
      "channel_rssi": -34,
      "snr": 12.5,
      "uplink_token":
"eyJnIjoiWlhsS2FHSkhZMmxQYVVVwQ1RWUkpORkl3VGs1VE1XTnBURU5LYkdK
dFRxbFBhVXBVZSSk5GSXduazVKYVhkcFlWaFphVTlwU2pOWmJUbEVZakJHU
0ZneFRYbFZSVGxzV1dreGEwbHBkMmxrUjBadVNXChZhVTlGTVVwaE0wNXFaVl
U1VWxGV1duRlpwVXB1V1ZkNGVsb3pTbGhVWTBvNUxrUnlhM1JpWmlGYVdYWlp
hMGhsZURRd1YyaDNjSGN1Tld0RVYzSXRjRlpCYkRWckxXSnlWQzVuZDB4Z1Nt
```


```
bGF1WHBvUVRaU1dXOUxNelZmWDNvMFZGUjRkbGxOZFdveWRtVnNRbXRyUldKb
GMxaHFam0psVTFKvWJ6Sk1OWFJ1U1haZlFURTRla3RhUVZwdFVUbgFsvWxyVW
1sdGRXZDJVVGHsYjBwCGVubHhTVkJSWmlOdU5uYzJhVkJzqVWpGVE5YTkxjV3R
tV2t4SU5XbHNNbWhvT1ZZM2JVMWlia0k0YTJKtmQyaEVTmkkzU1RoemNFeHlM
WEJmVWtnMVowZHpVbEpEWkVaa1VIZFVlbU5ZWWxWSk5UQmhTMjhhTG14UFpEZ
zFUMOE1UnkxWFJEYzBYM05xVDJGbe5XYz0iLCJhIjpp7ImZuaWQiOiIwMDAwMT
MiLCJmdGlkIjoidHRudjIiLCJmY2lkIjoidHRuLXYyLWF1In19"
  }
},
"received_at": "2021-07-04T07:05:42.486257633Z",
"correlation_ids": [
  "ns:uplink:01F9R5CKTPR3YVS4X80TS9XVR7",
  "pba:conn:up:01F993M51D8FDK8N6X7W380RXY",
  "pba:uplink:01F9R5CKRNN3JND1AM9CC4H88G",
],
"rpc:/ttn.lorawan.v3.GsNs/HandleUplink:01F9R5CKTPQSCSF82TE9Y7
4HYD"
  },
"device_channel_index": 13,
"consumed_airtime": "0.370688s"
},
"correlation_ids": [
  "ns:uplink:01F9R5CKTPR3YVS4X80TS9XVR7",
  "pba:conn:up:01F993M51D8FDK8N6X7W380RXY",
  "pba:uplink:01F9R5CKRNN3JND1AM9CC4H88G",
],
"origin": "ip-10-102-5-224.ap-southeast-
2.compute.internal",
"context": {
  "tenant-id": "CgN0dG4="
},
"visibility": {
  "rights": [
    "RIGHT_APPLICATION_TRAFFIC_READ",
    "RIGHT_APPLICATION_TRAFFIC_READ"
  ]
},
"unique_id": "01F9R5CKTQEV94265S5DHJ6NN8"
}
```

Forward join-accept to Application Server

```
{
  "name": "ns.up.join.accept.forward",
  "time": "2021-07-04T07:05:44.306760236Z",
  "identifiers": [
    {
      "device_ids": {
        "device_id": "aus210615-33-34-37-39-77-37-8f-01",
        "application_ids": {
          "application_id": "ausv3-au915-c8-monitor"
        }
      }
    },
    {
      "device_ids": {
        "device_id": "aus210615-33-34-37-39-77-37-8f-01",
        "application_ids": {
          "application_id": "ausv3-au915-c8-monitor"
        }
      },
      "dev_eui": "3334373977378F01",
      "join_eui": "70B3D57ED0033264",
      "dev_addr": "260D2088"
    }
  ],
  "data": {
    "@type":
"type.googleapis.com/ttn.lorawan.v3.ApplicationUp",
    "end_device_ids": {
      "device_id": "aus210615-33-34-37-39-77-37-8f-01",
      "application_ids": {
        "application_id": "ausv3-au915-c8-monitor"
      }
    },
    "dev_eui": "3334373977378F01",
    "join_eui": "70B3D57ED0033264",
```

```
    "dev_addr": "260D2088"
  },
  "correlation_ids": [
    "ns:uplink:01F9R5CKTPR3YVS4X80TS9XVR7",
    "pba:conn:up:01F993M51D8FDK8N6X7W380RXY",
    "pba:uplink:01F9R5CKRNN3JND1AM9CC4H88G",
  ],
  "rpc:/ttn.lorawan.v3.GsNs/HandleUplink:01F9R5CKTPQSCSF82TE9Y74HYD"
  ],
  "join_accept": {
    "session_key_id": "AXpwVk9bK6erqbEvigTmFw==",
    "received_at": "2021-07-04T07:05:42.486257633Z"
  }
},
"correlation_ids": [
  "ns:uplink:01F9R5CKTPR3YVS4X80TS9XVR7",
  "pba:conn:up:01F993M51D8FDK8N6X7W380RXY",
  "pba:uplink:01F9R5CKRNN3JND1AM9CC4H88G",
],
"rpc:/ttn.lorawan.v3.GsNs/HandleUplink:01F9R5CKTPQSCSF82TE9Y74HYD"
],
"origin": "ip-10-102-12-39.ap-southeast-2.compute.internal",
"context": {
  "tenant-id": "CgN0dG4="
},
"visibility": {
  "rights": [
    "RIGHT_APPLICATION_TRAFFIC_READ",
    "RIGHT_APPLICATION_TRAFFIC_READ"
  ]
},
"unique_id": "01F9R5CNKJH8W1ES6M9RNJGA71"
}
```


Gateway Traffic Indicating Repeated Join Requests

Gateways >  eui-58a0cbffe802ca6 > Traffic ^{beta}

GATEWAY TRAFFIC ^{beta}

uplink

downlink

join

0 bytes




|| pause  clear

time	frequency	mod.	CR	data rate	airtime (ms)	cnt
⚡ 09:24:14	918.2	4/5	SF 10 BW 125	370.7	app eui: 70 B3D5 7E D003 32 64 dev eui: 33 34 37 39 77 37 8F 01	
<hr/>						
⚡ 09:24:08	917.5	4/5	SF 8 BW 500	28.3	app eui: 70 B3D5 7E D003 32 64 dev eui: 33 34 37 39 77 37 8F 01	
<hr/>						
⚡ 09:23:08	917	4/5	SF 10 BW 125	370.7	app eui: 70 B3D5 7E D003 32 64 dev eui: 33 34 37 39 77 37 8F 01	
<hr/>						

Successful Session Log with Local Conduit (Isolated from TTN)

```
root@mtcdt:~# mosquitto_sub -v -t +/+/  
lora/33-34-37-39-77-37-8f-01/join_request  
{ "tmst":33481276,"chan":2,"rfch":0,"freq":917.2,"stat":1,"modu":"LORA","datr":"SF10BW125","codr":"4/5","lsnr":8.5,"r  
ssi":-25,"size":23,"data":"AGQyA9B+1bNwAY83dzk3NDPvnSyYC8s=","deveui":"33-34-37-39-77-37-8f-01","joineui":"70-b3-d5-  
7e-d0-03-32-64","nonce":40431}  
lora/33-34-37-39-77-37-8f-01/packet_recv  
{ "tmst":33481276,"chan":2,"rfch":0,"freq":917.2,"stat":1,"modu":"LORA","datr":"SF10BW125","codr":"4/5","lsnr":8.5,"r  
ssi":-25,"size":23,"data":"AGQyA9B+1bNwAY83dzk3NDPvnSyYC8s=","deveui":"33-34-37-39-77-37-8f-01","joineui":"70-b3-d5-  
7e-d0-03-32-64","nonce":40431}  
lora/33-34-37-39-77-37-8f-01/joined {"remote_js":false}  
lora/33-34-37-39-77-37-8f-01/packet_sent {"appeui":"70-b3-d5-7e-d0-03-32-  
64","codr":"4/5","data":"IJvbzyd4MYOhiLVpNbpD/u0=","datr":"SF10BW500","deveui":"33-34-37-39-77-37-8f-  
01","freq":924.5,"gweui":"00-80-00-00-a0-00-40-  
bb","id":0,"ipol":true,"mhdr":"","mic":"ba43feed","modu":"LORA","ncrc":true,"opts":"","port":0,"powe":14,"rfch":0,"s  
eqn":0,"size":17,"tmst":38481276,"twnd":1}  
lora/33-34-37-39-77-37-8f-01/packet_recv  
{ "tmst":43876836,"chan":1,"rfch":0,"freq":917.0,"stat":1,"modu":"LORA","datr":"SF10BW125","codr":"4/5","lsnr":9.5,"r  
ssi":-13,"size":12,"data":"QE5DTQeAAQCK5JAd"}  
lora/33-34-37-39-77-37-8f-01/up  
{ "tmst":43876836,"chan":1,"rfch":0,"freq":917.0,"stat":1,"modu":"LORA","datr":"SF10BW125","codr":"4/5","lsnr":9.5,"r  
ssi":-13,"opts":"","size":0,"fcnt":1,"cls":0,"port":1,"mhdr":"404e434d07800100","data":"","appeui":"70-b3-d5-7e-d0-  
03-32-64","deveui":"33-34-37-39-77-37-8f-01","ack":false,"adr":true,"gweui":"00-80-00-00-a0-00-40-  
bb","seqn":1,"time":"2021-07-04T06:25:08.202437Z"}  
lora/33-34-37-39-77-37-8f-01/packet_sent {"appeui":"70-b3-d5-7e-d0-03-32-  
64","codr":"4/5","data":"oE5DTQcAAAAAak2NGhgXLxu8XVfxN+v0=","datr":"SF10BW500","deveui":"33-34-37-39-77-37-8f-  
01","freq":923.899999999999998,"gweui":"00-80-00-00-a0-00-40-  
bb","id":0,"ipol":true,"mhdr":"a04e434d07000000","mic":"fc4dfafd","modu":"LORA","ncrc":true,"opts":"0340020071030000  
ff01","port":0,"powe":14,"rfch":0,"seqn":0,"size":23,"tmst":48876836,"twnd":1}  
lora/33-34-37-39-77-37-8f-01/mac_sent {"appeui":"70-b3-d5-7e-d0-03-32-64","deveui":"33-34-37-39-77-37-8f-  
01","gweui":"00-80-00-00-a0-00-40-bb","opts":"0340020071030000ff01"}  
lora/33-34-37-39-77-37-8f-01/packet_recv  
{ "tmst":53917788,"chan":3,"rfch":0,"freq":917.4,"stat":1,"modu":"LORA","datr":"SF10BW125","codr":"4/5","lsnr":10.8,"  
rssi":-13,"size":17,"data":"QE5DTQegAgAAjvoSH88ilro="}  
lora/33-34-37-39-77-37-8f-01/packet_ack {"seqn":0, "id": 0}  
lora/33-34-37-39-77-37-8f-01/cleared (null)  
lora/33-34-37-39-77-37-8f-01/mac_recv {"appeui":"70-b3-d5-7e-d0-03-32-64","data":"05","deveui":"33-34-37-39-77-37-  
8f-01","gweui":"00-80-00-00-a0-00-40-bb","id":3}  
lora/33-34-37-39-77-37-8f-01/mac_recv {"appeui":"70-b3-d5-7e-d0-03-32-64","data":"05","deveui":"33-34-37-39-77-37-  
8f-01","gweui":"00-80-00-00-a0-00-40-bb","id":3}  
lora/33-34-37-39-77-37-8f-01/up  
{ "tmst":53917788,"chan":3,"rfch":0,"freq":917.4,"stat":1,"modu":"LORA","datr":"SF10BW125","codr":"4/5","lsnr":10.8,"  
rssi":-13,"opts":"","size":4,"fcnt":2,"cls":0,"port":0,"mhdr":"404e434d07a00200","data":"AwUDBQ==","appeui":"70-b3-  
d5-7e-d0-03-32-64","deveui":"33-34-37-39-77-37-8f-01","ack":true,"adr":true,"gweui":"00-80-00-00-a0-00-40-  
bb","seqn":2,"time":"2021-07-04T06:25:18.231656Z"}
```

The Successful Session as Recorded on the TTN TTIG

Gateways >  .eui-58a0cbfffe802ca6 > Traffic ^{beta}

Overview

Traffic

Settings

Important: The Things Network is moving to The Things Stack (V3).

The V2 NOC component that provides this page with the live gateway status and traffic will shut down in **July 2021**.

Migrate your gateways to The Things Stack (V3) to keep access to live gateway information!

The Things Network V2 clusters will permanently shut down in **December 2021**.

Click [here](#) to read more.

GATEWAY TRAFFIC ^{beta}

uplink

downlink

join

0 bytes

X

|| pause

🗑 clear

time	frequency	mod.	CR	data rate	airtime (ms)	cnt	
▲ 08:24:40	918	lor	4/5	SF 10 BW 125	370.7	4	dev addr: 07 4D 43 4E payload size: 24 bytes
▲ 08:23:40	916.8	lor	4/5	SF 10 BW 125	370.7	3	dev addr: 07 4D 43 4E payload size: 24 bytes
▲ 08:22:40	917.4	lor	4/5	SF 10 BW 125	329.7	2	dev addr: 07 4D 43 4E payload size: 17 bytes
▲ 08:22:30	917	lor	4/5	SF 10 BW 125	288.8	1	dev addr: 07 4D 43 4E payload size: 12 bytes
⚡ 08:22:19	917.2		4/5	SF 10 BW 125	370.7		app eui: 70 B3D5 7E D003 32 64 dev eui: 33 34 37 39 77 37 8F 01