

NS Release v2.6.10 - Gateway Log API change

Affected API:

api/gateway-logs

/api/gatewayLog/gateway/{gateway-id}/status

Scope of Change :

DEVICE_ACTIVITY_STATE and GW_ACTIVITY_STATE event types will be removed from gateway-logs query parameters.

The response body will not contain GW_ACTIVITY_STATE or DEVICE_ACTIVITY_STATE messages.

Motivation :

Database performance improvement.

Events description :

DEVICE_ACTIVITY_STATE - triggered by uplink or join messages from device:

- "active": true
- "lastActivityTime": 1657489609676

Example:

```

{
  "id": {
    "entityType": "GATEWAY_LOG",
    "id": "8a0cfc14-20b7-4b65-ac95-0695123437b2"
  },
  "createdTime": 0,
  "additionalInfo": null,
  "ts": 1657489610203,
  "providerId": {
    "entityType": "PROVIDER",
    "id": "6163bc10-eca8-e1e7-bq2c-12d123461121"
  },
  "customerId": {
    "entityType": "CUSTOMER",
    "id": "617c2610-8ce8-1ee7-bb2c-234534861234"
  },
  "mac": "647FDAFFFE005239",
  "deviceEui": "647FDA0000007E85",
  "msgType": "DEVICE_ACTIVITY_STATE",
  "msgBody": {
    "active": true,
    "lastActivityTime": 1657489609676,
    "battery": 226,
    "margin": 14
  }
}

```

GW_ACTIVITY_STATE - triggered by modification of the following GW state-related fields:

- "active": true // based on data received from GW timeout
- "lastActivityTime": 1657578579509
- "online": true // based on MQTT connection
- "lastOnlineTime": 1657578578037

Example:

```

{
  "id": {
    "entityType": "GATEWAY_LOG",
    "id": "229a9da9-db4a-47ad-89a4-0841850cfa58"
  },
  "createdTime": 0,
  "additionalInfo": null,
  "ts": 1657578579968,
  "providerId": {
    "entityType": "PROVIDER",
    "id": "6163bc10-8ca8-11e7-bb2c-8dd234861431"
  },
  "customerId": {
    "entityType": "CUSTOMER",
    "id": "617c2610-8ca8-11e7-bb2c-8dd234861431"
  },
  "mac": "647FDAFFFE005239",
  "deviceEui": null,
  "msgType": "GW_ACTIVITY_STATE",
  "msgBody": {
    "active": true,
    "lastActivityTime": 1657578579509,
    "online": true,
    "lastOnlineTime": 1657578578037,
    "ungraceful": false
  }
},

```

Current API Example (NS v2.6.9):

/api/gateway-logs/?startTs=1657456966109&limit=10&page=0&endTs=1657543366109

```

{
  "page": 1,
  "limit": 10,
  "data": [
    {
      "id": {
        "entityType": "GATEWAY_LOG",
        "id": "2b9dccf0-e2d6-4a02-af2d-dbe5b43bce48"
      },
      "createdTime": 0,
      "additionalInfo": null,
      "ts": 1657543261159,
      "providerId": {

```

```
        "entityType": "PROVIDER",
        "id": "6163bc10-11bb-11bb-11cc-123412341bb1"
    },
    "customerId": {
        "entityType": "CUSTOMER",
        "id": "617c2610-11bb-11bb-11bb-12341234bb31"
    },
    "mac": "647FDAFFFE005239",
    "deviceEui": null,
    "msgType": "GW_EVENT",
    "msgBody": {
        "mac": "647FDAFFFE005239",
        "type": "FAULT",
        "typeId": 10,
        "ts": 0,
        "severity": "MAJOR",
        "state": "CLEAR",
        "description": "Low battery warning"
    }
},
{
    "id": {
        "entityType": "GATEWAY_LOG",
        "id": "229a9da9-db4a-11bb-11bb-0841850cfa58"
    },
    "createdTime": 0,
    "additionalInfo": null,
    "ts": 1657578579968,
    "providerId": {
        "entityType": "PROVIDER",
        "id": "6163bc10-11bb-11bb-1122-12341234bb31"
    },
    "customerId": {
        "entityType": "CUSTOMER",
        "id": "617c2610-11bb-11bb-11bb-12341234bb31"
    },
    "mac": "647FDAFFFE005239",
    "deviceEui": null,
    "msgType": "GW_ACTIVITY_STATE",
    "msgBody": {
        "active": true,
        "lastActivityTime": 1657578579509,
        "online": true,
        "lastOnlineTime": 1657578578037,
        "ungraceful": false
    }
},
{
    "id": {
        "entityType": "GATEWAY_LOG",
```

```

        "id": "8a0cfc14-1234-1234-1234-1231212127bb"
    },
    "createdTime": 0,
    "additionalInfo": null,
    "ts": 1657489610203,
    "providerId": {
        "entityType": "PROVIDER",
        "id": "6163bc10-1234-1234-1234-12341234bb31"
    },
    "customerId": {
        "entityType": "CUSTOMER",
        "id": "617c2610-1233-ee11-11bb-12341234bb31"
    },
    "mac": "647FDAFFFE005239",
    "deviceEui": "647FDA0000007E85",
    "msgType": "DEVICE_ACTIVITY_STATE",
    "msgBody": {
        "active": true,
        "lastActivityTime": 1657489609676,
        "battery": 226,
        "margin": 14
    }
}
]
}

```

New API to be used (NS v2.6.9)

to get Device or Gateway activity state.

To filter events for specific Device or Gateway:

Endpoint

```

GET
/api/entity/<entity GATEWAY or DEVICE>/<gateway_id>/events/OFFLINE?
startTs=<start_ts>&limit=<page_size>&page=<page_index>

```

Request example:

```

/api/entity/GATEWAY/f491a760-f957-11ec-9e08-d9cee1064aa4/events/OFFLINE?
startTs=1657535521342&limit=15&page=0

```

Response body example:

```

{

```

```
"totalElements": 4,
"data": [
  {
    "id": {
      "entityType": "EVENT",
      "id": "23a70600-0130-11ed-b4ba-45fd285ffe66"
    },
    "createdTime": 0,
    "additionalInfo": null,
    "type": "OFFLINE",
    "eventType": 1,
    "entityId": {
      "entityType": "GATEWAY",
      "id": "f491a760-f957-11ec-9e08-d9ceel064aa4"
    },
    "startTs": 1657554178655,
    "severity": "MINOR",
    "state": "RAISED",
    "description": "Gateway MQTT connection with Server is
lost",
    "label": "23FFFFFFFFFD0011"
  },
  {
    "id": {
      "entityType": "EVENT",
      "id": "238ffb90-0130-11ed-b4ba-45fd285ffe66"
    },
    "createdTime": 0,
    "additionalInfo": null,
    "type": "OFFLINE",
    "eventType": 2,
    "entityId": {
      "entityType": "GATEWAY",
      "id": "f491a760-f957-11ec-9e08-d9ceel064aa4"
    },
    "startTs": 1657554178465,
    "severity": "MINOR",
    "state": "RAISED",
    "description": "Data is not received from the Gateway",
    "label": "23FFFFFFFFFD0011"
  },
  {
    "id": {
      "entityType": "EVENT",
      "id": "15fa9db0-012f-11ed-b4ba-45fd285ffe66"
    },
    "createdTime": 0,
    "additionalInfo": null,
    "type": "OFFLINE",
    "eventType": 1,
```

```

        "entityId": {
            "entityType": "GATEWAY",
            "id": "f491a760-f957-11ec-9e08-d9ceel064aa4"
        },
        "startTs": 1657553726176,
        "severity": "MINOR",
        "state": "CLEAR",
        "description": "Gateway MQTT connection with Server is
lost",
        "label": "23FFFFFFFFFD0011"
    },
    {
        "id": {
            "entityType": "EVENT",
            "id": "15eedde0-012f-11ed-b4ba-45fd285ffe66"
        },
        "createdTime": 0,
        "additionalInfo": null,
        "type": "OFFLINE",
        "eventId": 2,
        "entityId": {
            "entityType": "GATEWAY",
            "id": "f491a760-f957-11ec-9e08-d9ceel064aa4"
        },
        "startTs": 1657553725519,
        "severity": "MINOR",
        "state": "CLEAR",
        "description": "Data is not received from the Gateway",
        "label": "23FFFFFFFFFD0011"
    }
]
}

```

To receive events for all Devices or Gateways:

Endpoint:

```

/api/events?
startTs=<timestamp_from>&limit=<page_size>&page=<page_index>&eventType=OFFLINE

```

Request example:

```

/api/events?startTs=1657551815081&limit=15&page=0&eventType=OFFLINE

```

Response body example:

```

{
  "totalElements": 2,
  "data": [
    {
      "id": {
        "entityType": "EVENT",
        "id": "7608aea0-01f1-11ed-8623-eb7025b551c6"
      },
      "createdTime": 0,
      "additionalInfo": null,
      "type": "OFFLINE",
      "eventType": 4,
      "entityId": {
        "entityType": "INTEGRATION",
        "id": "b0b3f9d0-cc8e-11ec-86e3-39943ada60f1"
      },
      "startTs": 1657637209738,
      "severity": "MINOR",
      "state": "CLEAR",
      "description": "Integration disconnected",
      "label": "HiveMQ Tes"
    },
    {
      "id": {
        "entityType": "EVENT",
        "id": "23a70600-0130-11ed-b4ba-45fd285ffe66"
      },
      "createdTime": 0,
      "additionalInfo": null,
      "type": "OFFLINE",
      "eventType": 1,
      "entityId": {
        "entityType": "GATEWAY",
        "id": "f491a760-f957-11ec-9e08-d9cee1064aa4"
      },
      "startTs": 1657554178655,
      "severity": "MINOR",
      "state": "RAISED",
      "description": "Gateway MQTT connection with Server is
lost",
      "label": "23FFFFFFFFFD0011"
    }
  ]
}

```

Get gateway last activity state

Endpoint:


```
/api/gateway/<gateway_id>/activity-state
```

Request example:

```
/api/gateway/f14ef9d0-d608-11ec-9a5d-17d0f39d804d/activity-state
```

Response example:

```
{  
  "active": true,  
  "lastActivityTime": 1655929632382,  
  "online": false,  
  "lastOnlineTime": 1655929632381,  
  "ungraceful": true  
}
```

Get device last activity state

Endpoint:

```
/api/device/<device_id>/activity-state
```

Request example:

```
/api/device/1426e310-e2ba-11ec-9d19-ef7e4a50dba7/activity-state
```

Response example:

```
{  
  "active": true,  
  "lastActivityTime": 1657644175767,  
  "battery": 254,  
  "margin": 11  
}
```