



TLEX-MONITOR-ADMIN Interface v1.0.1

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## 1 Versioning

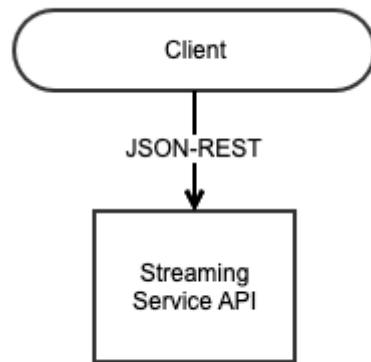
This document is using a versioning scheme that indicates the version of this TLEX interface and tracks the revisions of this document. This version scheme is <interface version major>.<interface version minor>.<document revision>. The first two version numbers (major and minor) indicate the version of the interface and only change when there is technical change in the described interface. Major version is only bumped when there is compatibility breaking change. Minor version is bumped on trivial, non breaking changes of the interface. The last version number indicates the revision of this document.

Version	Date	Author	Changes
1.0.0	03 Oct 2019	L. Rijneveld	Initial specification for TLEX release v1.9
1.0.1	23 Mar 2020	L. Rijneveld	Improved layout and formatting

## 2 Overview

The administrative interface for Monitor with TLEX is based on a JSON-REST API and is used for:

1. Managing authorizations;
2. Managing authorizationtokens;
3. Requesting active sessions;
4. Requesting session logs.



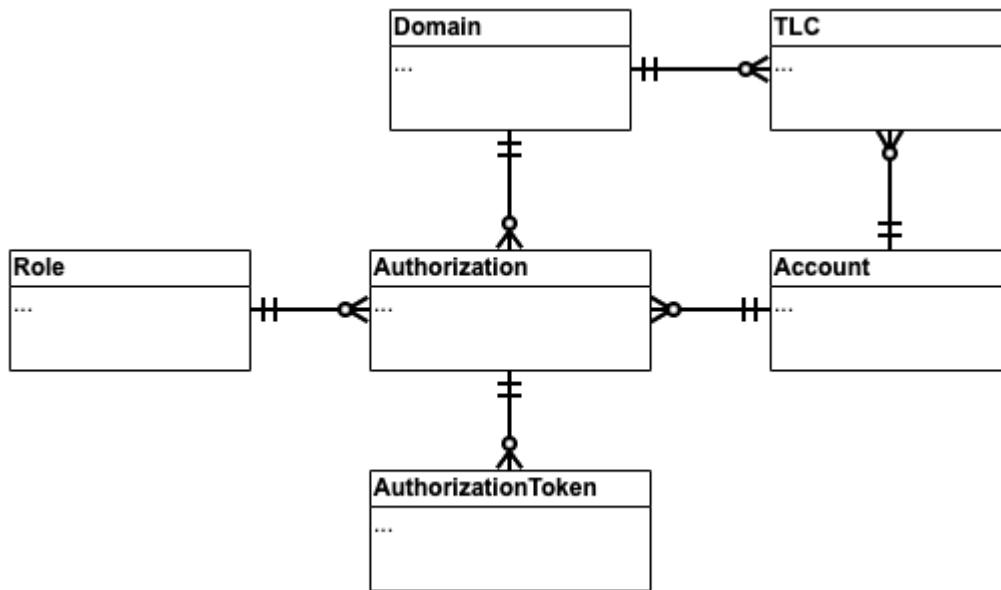
## 3 API

### 3.1 Authentication and authorization

The authentication of the Client will be based on a "authorization token". This "authorization token" needs to be passed as the "X-Authorization" request header value. The authorization token needs to belong to an "MONITOR\_ADMIN".

### 3.2 Authorization model

The API authorization model is illustrated in the following entity relation diagram:



### 3.2.1 Entities

Entity	Description
Account	<p>The identity of the authorization holder. An account can own:</p> <ol style="list-style-type: none"> <li>1. TLC registrations</li> <li>2. authorizations</li> </ol>
Authorization	<p>The authorization to use the API, which is a combination of:</p> <ol style="list-style-type: none"> <li>1. Account</li> <li>2. Domain</li> <li>3. Role</li> </ol> <p>It is possible for an account to have more than one authorization per domain. Since the API requests are performed in context of one specific key, the API requests are always in context of one specific authorization.</p>
Role	The role of the authorization holder (in context of the authorization).
Domain	The domain to which an authorization applies to.
TLC	The registration of a TLC within a certain domain.
AuthorizationToken	The authorization token. One authorization can have multiple authorization tokens.

### 3.2.2 Roles

The following roles have been defined for Monitor:

Name	Access	Access scope	Intended for
Monitor administrator	Can manage own "Monitor system" authorizations within the domain scope Can manage own "Monitor system" authorization tokens within the domain scope Can manage all own monitor sessions within the domain scope Can view all session logs and metrics within the domain scope Can view all TLC registrations within the domain scope	Domain, Account	Monitor organisations
Monitor system	Can create monitor sessions within the domain scope Can view all session logs and metrics within the domain scope Can view all TLC registrations within the domain scope	Domain, Account	Monitor system

### 3.3 API endpoints

API endpoint			Authorization role access scope (domain/account/none)	
Method	URI	Description	MONITOR_ADMIN	MONITOR_SYSTEM
POST	/sessions	Creates a new streaming session	ACCOUNT	ACCOUNT
GET	/sessions	Retrieves all active streaming sessions	ACCOUNT	ACCOUNT
GET	/sessions/<token>	Retrieves one active streaming session	ACCOUNT	ACCOUNT
PUT	/sessions/<token>	Updates one active streaming session	ACCOUNT	ACCOUNT
DELETE	/sessions/<token>	Ends one active streaming version	ACCOUNT	NONE
GET	/sessionlogs	Retrieve all session logs	DOMAIN	DOMAIN
GET	/sessionlogs/<token>	Retrieve one specific session's log	DOMAIN	DOMAIN
GET	/tlcs	Gets all TLC registrations	DOMAIN	DOMAIN
GET	/tlcs/<uuid>	Retrieve one specific TLC registration	DOMAIN	DOMAIN
POST	/authorizations	Create a new authorization	ACCOUNT	NONE
GET	/authorizations	Retrieve all authorizations	ACCOUNT	NONE
GET	/authorizations/<uuid>	Retrieves one specific authorization	ACCOUNT	NONE
PUT	/authorizations/<uuid>	Updates one specific authorization	ACCOUNT	NONE
DELETE	/authorizations/<uuid>	Removes one specific authorization	ACCOUNT	NONE

API endpoint			Authorization role access scope (domain/account/none)	
Method	URI	Description	MONITOR_ADMIN	MONITOR_SYSTEM
POST	/authorizationtokens	Create a new authorization token	ACCOUNT	NONE
GET	/authorizationtokens	Retrieve all authorization tokens	ACCOUNT	NONE
GET	/authorizationtokens/<uuid>	Retrieves one specific authorization token	ACCOUNT	NONE
PUT	/authorizationtokens/<uuid>	Updates one specific authorization token	ACCOUNT	NONE
DELETE	/authorizationtokens/<uuid>	Removes one specific authorization token	ACCOUNT	NONE

## 3.3.1 Sessions

### 3.3.1.1 POST /sessions

Creates a new streaming session.

#### 3.3.1.1.1 Request

```
POST <API base URL>/sessions HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json

{
  "domain": "<domain>",
  "type": "<type>",
  "protocol": "<protocol>",
  "details": {
    <protocol details>
  }
}
```

Name	Description
domain	Sessions are created within a specific domain, identified by a single string  Only sessions created for the same domain will be able to stream data to each other
type	The session type; must be “Monitor”
protocol	The session protocol; must be “TCPStreaming_Multiplex”
details	Session protocol specific details for creating the session

### 3.3.1.1.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{
  "token": "<token>",
  "domain": "<domain>",
  "type": "<type>",
  "protocol": "<protocol>",
  "details": {
    <protocol details>
  }
}
```

Name	Description
token	The token for the created session <div style="border: 1px solid #fca; padding: 5px; margin-top: 10px;"> <b>⚠</b> This token is unique and can only be used once for establishing a TCP connection; if the session expires or ends (TCP disconnect) a new session needs be created to obtain a new token           </div>
domain	See request
type	See request
protocol	See request
details	Session protocol specific details of the created session

### 3.3.1.1.3 Session type "Monitor" with protocol "TCPStreaming\_Multiplex"

TCP based multiplex streaming session for a payload Monitor.

Payloads sent by "TLC" session clients having a payload "TLC identifier" that is within the scope of the session will be received.

Payloads sent by "Broker" session clients having a payload "TLC identifier" that is within the scope of the session will be received.

#### 3.3.1.1.3.1 Request details

```
{
  "securityMode": "<security mode>",
  "tlcIdentifiers": ["<TLC identifier>", "<TLC identifier>", ...]
}
```

Name	Description
securityMode	<p>Security mode of the streaming session</p> <p>Must be one of the predefined values:</p> <ul style="list-style-type: none"> <li>1. NONE</li> <li>2. TLSv1.2</li> </ul>
tlcIdentifiers	<p>The TLC identifiers for the session</p> <p>Since the session is for multiple TLC's, payload data will be streamed with TLC identifier (see protocol datagram 0x05)</p>

### 3.3.1.1.3.2 Response details

```
{
  "securityMode": "<security mode>",
  "tlcIdentifiers": ["<TLC identifier>", "<TLC identifier>", ...]
  "listener": {
    "host": "<host address>",
    "port": <port number>,
    "expiration": "<ISO 8601 date time>"
  },
  "keepAliveTimeout": "<ISO 8601 duration>",
  "clockDiffLimit": "<ISO 8601 duration>",
  "clockDiffLimitDuration": "<ISO 8601 duration>",
  "payloadRateLimit": <payload/second limit>,
  "payloadRateLimitDuration": "<ISO 8601 duration>",
  "payloadThroughputLimit": <KB/second limit>,
  "payloadThroughputLimitDuration": "<ISO 8601 duration>"
}
```

Name	Description
securityMode	See request details
tlcIdentifiers	See request details
listener	The Streaming Service Node listener details for establishing the TCP connection
listener.host	The host address of the Streaming Service Node
listener.port	The TCP port of the Streaming Service Node's session listener
listener.expiration	<p>The expiration date time of the listener in ISO 8601 date time format</p> <p>If the TCP connection has not been established before this time the listener will expire and the streaming session will no longer be available</p> <p>The default listener expiration will be 5 seconds after creation</p>
keepAliveTimeout	<p>The keep alive timeout duration of the TCP connection in ISO 8601 duration format</p> <p>If no TCP data is received during the specified duration, the TCP connection will be terminated by the Streaming Service</p> <p>If a Client receives no TCP data during the specified duration, it must terminate the TCP connection</p>

Name	Description
clockDiffLimit	The maximum clock difference, in ISO 8601 duration format, allowed for the streaming session  If the average clock difference during the duration (see <code>clockDiffLimitDuration</code> ) exceeds the limit the Streaming Service will terminate the TCP connection
clockDiffLimitDuration	The period, in ISO 8601 duration format, during which the average clock difference should not exceed the <code>clockDiffLimit</code>
payloadRateLimit	The maximum amount of payloads per second allowed for the streaming session  If the average amount of received payloads per second during the duration (see <code>payloadRateLimitDuration</code> ) exceeds the limit the Streaming Service will terminate the TCP connection
payloadRateLimitDuration	The period, in ISO 8601 duration format, during which the average amount of received payloads per second should not exceed the <code>payloadRateLimit</code>
payloadThroughputLimit	The maximum amount of payload kilobytes (KB) per second allowed for the streaming session  If the average amount of received payload kilobytes (KB) per second during the duration (see <code>payloadThroughputLimitDuration</code> ) exceeds the limit the Streaming Service will terminate the TCP connection
payloadThroughputLimitDuration	The period, in ISO 8601 duration format, during which the average amount of received payload kilobytes (KB) per second should not exceed the <code>payloadThroughputLimit</code>

### 3.3.1.1.3.3 Example

```
POST api/v1/sessions HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGF1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json

{
    "domain": "test",
    "type": "Monitor",
    "protocol": "TCPStreaming_Multiplex",
    "details": {
        "securityMode": "NONE",
        "tlcIdentifiers": ["NLZH0023", "NLZH0024", "NLZH0025"]
    }
}
HTTP/1.1 200 OK
Content-Type: application/json

{
    "token": "cXXrqTkreh0vLbuuYKKQQGAU1MTGGGBC1N1izwYaq8",
    "domain": "test",
    "type": "Monitor",
    "protocol": "TCPStreaming_Multiplex",
    "details": {
        "securityMode": "NONE",
        "tlcIdentifiers": ["NLZH0023", "NLZH0024", "NLZH0025"],
        "listener": {
            "host": "n11.tlex.eu",
            "port": 40344,
            "expiration": "2016-11-17T16:07:56Z"
        },
        "keepAliveTimeout": "PT5S",
        "clockDiffLimit": "PT3S",
        "clockDiffLimitDuration": "PT60S",
        "payloadRateLimit": 1200,
        "payloadRateLimitDuration": "PT5S",
        "payloadThroughputLimit": 120,
        "payloadThroughputLimitDuration": "PT5S"
    }
}
```

### 3.3.1.2 GET /sessions

Retrieves all active streaming sessions.

Intended for monitoring and debug purposes.

#### 3.3.1.2.1 Request

```
GET <API base URL>/sessions HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.1.2.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

[
    <session>, <session>
]
```

### 3.3.1.2.3 Example

```
GET api/v1/sessions HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
HTTP/1.1 200 OK
Content-Type: application/json

[ {
  "token": "cXXrqTkreh0vLbuuYKKQQGAU1MTGGGBC1N1izwYaqu8",
  "domain": "test",
  "type": "Monitor",
  "protocol": "TCPStreaming_Multiplex",
  "details": {
    "securityMode": "NONE",
    "tlcIdentifiers": ["NLZH0023", "NLZH0024", "NLZH0025"],
    "listener": {
      "host": "n44.tlex.eu",
      "port": 40344,
      "expiration": "2016-11-17T16:07:56Z"
    },
    "keepAliveTimeout": "PT5S",
    "clockDiffLimit": "PT3S",
    "clockDiffLimitDuration": "PT60S",
    "payloadRateLimit": 1200,
    "payloadRateLimitDuration": "PT5S",
    "payloadThroughputLimit": 120,
    "payloadThroughputLimitDuration": "PT5S"
  }
}]
```

### 3.3.1.3 GET /sessions/<token>

Retrieves the active streaming session with the given "token".

Intended for monitoring and debug purposes.

#### 3.3.1.3.1 Request

```
GET <API base URL>/sessions/<session token> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.1.3.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<session>
```

### 3.3.1.3.3 Example

```
GET api/v1/sessions/cXXrqTkreh0vLbuuYKKQQGAU1MTGGGBC1N1izwYaqu8 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
HTTP/1.1 200 OK
Content-Type: application/json

{
  "token": "cXXrqTkreh0vLbuuYKKQQGAU1MTGGGBC1N1izwYaqu8",
  "domain": "test",
  "type": "Monitor",
  "protocol": "TCPStreaming_Multiplex",
  "details": {
    "securityMode": "NONE",
    "tlcIdentifiers": ["NLZH0023", "NLZH0024", "NLZH0025"],
    "listener": {
      "host": "n44.tlex.eu",
      "port": 40344,
      "expiration": "2016-11-17T16:07:56Z"
    },
    "keepAliveTimeout": "PT5S",
    "clockDiffLimit": "PT3S",
    "clockDiffLimitDuration": "PT60S",
    "payloadRateLimit": 1200,
    "payloadRateLimitDuration": "PT5S",
    "payloadThroughputLimit": 120,
    "payloadThroughputLimitDuration": "PT5S"
  }
}
```

### 3.3.1.4 PUT /sessions/<token>

Updates the protocol details of the active streaming session with the given "token".

Intended to support the addition and removal of TLC identifiers for multiplex sessions.

#### 3.3.1.4.1 Request

```
PUT <API base URL>/sessions/<session token> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.1.4.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<protocol details>
```

### 3.3.1.4.3 Example

```
PUT api/v1/sessions/cXXrqTkreh0vLbuuYKKQQGAU1MTGGGBC1N1izwYaqu8 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json

{
  "securityMode": "NONE",
  "tlcIdentifiers": ["NLZH0023", "NLZH0026"]
}
HTTP/1.1 200 OK
Content-Type: application/json

{
  "token": "cXXrqTkreh0vLbuuYKKQQGAU1MTGGGBC1N1izwYaqu8",
  "domain": "test",
  "type": "Monitor",
  "protocol": "TCPStreaming_Multiplex",
  "details": {
    "securityMode": "NONE",
    "tlcIdentifiers": ["NLZH0023", "NLZH0026"],
    "listener": {
      "host": "n44.tlex.eu",
      "port": 40344,
      "expiration": "2016-11-17T16:07:56Z"
    },
    "keepAliveTimeout": "PT5S",
    "clockDiffLimit": "PT3S",
    "clockDiffLimitDuration": "PT60S",
    "payloadRateLimit": 1200,
    "payloadRateLimitDuration": "PT5S",
    "payloadThroughputLimit": 120,
    "payloadThroughputLimitDuration": "PT5S"
  }
}
```

### 3.3.1.5 DELETE /sessions/<token>

Removes (ends, disconnects) the active streaming session with the given "token".

 Not needed for normal operation. Intended for administrative purposes and testing purposes.

#### 3.3.1.5.1 Request

```
DELETE <API base URL>/sessions/<session token> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.1.5.2 Response

```
HTTP/1.1 204 No Content
```

### 3.3.1.5.3 Example

```
DELETE api/v1/sessions/cXXrqTkreh0vLbuuYKKQQGAU1MTGGGBC1N1izwYaqu8 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 204 No Content
```

## 3.3.2 Session logs

### 3.3.2.1 GET /sessionlogs

Retrieves all streaming session logs.

Must be filtered by time range.

Intended for monitoring and debug purposes.

#### 3.3.2.1.1 Request

```
GET <API base URL>/sessionlogs?from=<ISO 8601 date time>&until=<ISO 8601 date time> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.2.1.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

[
    <session log>, <session log>, ...
]
```

### 3.3.2.1.3 Example

```
GET api/v1/sessionlogs?from=2017-03-09T20:00:00Z&until=2017-03-09T21:00:00Z HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 200 OK
Content-Type: application/json

[
{
  "token": "1AhfqqkcBt0vUdoPrFTHg1x3PMHzbHRLJc848mY016U",
  "domain": "test",
  "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
  "type": "Monitor",
  "protocol": "TCPStreaming_Multiplex",
  "created": "2017-03-09T20:44:28Z",
  "connected": "2017-03-09T20:44:29Z",
  "remoteAddress": "/172.17.210.254:50036",
  "ended": "2017-03-10T11:23:18Z",
  "endReason": "Average payload rate in the last 5 seconds has exceeded the limit by 1753.600000 payload/s",
  "tlcScopeHistory": [
    {
      "timestamp": "2017-03-09T20:44:28Z",
      "scope": "ADDED",
      "tlcIdentifier": "tlc_0001"
    },
    {
      "timestamp": "2017-03-09T20:44:28Z",
      "scope": "ADDED",
      "tlcIdentifier": "tlc_0002"
    },
    {
      "timestamp": "2017-03-09T20:44:28Z",
      "scope": "ADDED",
      "tlcIdentifier": "tlc_0003"
    },
    {
      "timestamp": "2017-03-10T11:23:12Z",
      "scope": "REMOVED",
      "tlcIdentifier": "tlc_0003"
    }
  ]
}
```

### 3.3.2.2 GET /sessionlogs/<token>

Retrieves the streaming session's log with the given "token".

Intended for monitoring and debug purposes.

#### 3.3.2.2.1 Request

```
GET <API base URL>/sessionlogs/<session token> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.2.2.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<session log>
```

### 3.3.2.2.3 Example

```
GET api/v1/sessionlogs/1AhfqqkcBt0vUdoPrFTHg1x3PMHzbHRLJc848mY016U HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "token": "1AhfqqkcBt0vUdoPrFTHg1x3PMHzbHRLJc848mY016U",
  "domain": "test",
  "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
  "type": "Monitor",
  "protocol": "TCPStreaming_Multiplex",
  "created": "2017-03-09T20:44:28Z",
  "connected": "2017-03-09T20:44:29Z",
  "remoteAddress": "/172.17.210.254:50036",
  "ended": "2017-03-10T11:23:18Z",
  "endReason": "Average payload rate in the last 5 seconds has exceeded the limit by 1753.600000 payload/s",
  "tlcScopeHistory": [
    {
      "timestamp": "2017-03-09T20:44:28Z",
      "scope": "ADDED",
      "tlcIdentifier": "tlc_0001"
    },
    {
      "timestamp": "2017-03-09T20:44:28Z",
      "scope": "ADDED",
      "tlcIdentifier": "tlc_0002"
    },
    {
      "timestamp": "2017-03-09T20:44:28Z",
      "scope": "ADDED",
      "tlcIdentifier": "tlc_0003"
    },
    {
      "timestamp": "2017-03-10T11:23:12Z",
      "scope": "REMOVED",
      "tlcIdentifier": "tlc_0003"
    }
  ]
}
```

### 3.3.3 TLCs

#### 3.3.3.1 GET /tlcs

Retrieves all TLC registrations.

Intended for supporting dynamic setup of multiple load balancing "TCPStreaming\_Multiplex" sessions without having to maintain a static "TLC identifier" list.

##### 3.3.3.1.1 Request

```
GET <API base URL>/tlcs HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

##### 3.3.3.1.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  <TLC>, <TLC>, ...
]
{
  "uuid": "<TLC uuid>",
  "identifier": "<TLC identifier>",
  "type": "<TLC type>",
  "domain": "<domain>",
  "account": "<account>"
}
```

Name	Description
uuid	The unique id for the created TLC
identifier	The TLC identifier of the TLC
type	Type of TLC; must be one of the predefined types: 1. TCPStreaming 2. VLOG

Name	Description
domain	The domain in which the TLC is registered
account	Unique id of the account that "owns" the TLC registration

### 3.3.3.1.3 Example

```

GET api/v1/tlcs HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "uuid": "4aa1ace8-32b0-42b6-925a-7d7a33e97859",
    "identifier": "tlc_0001",
    "type": "TCPStreaming",
    "domain": "test",
    "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a"
  },
  {
    "uuid": "d1c9ca3d-23e1-4191-bfa3-b8364c52a4ce",
    "identifier": "tlc_0002",
    "type": "TCPStreaming",
    "domain": "test",
    "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a"
  }
]

```

### 3.3.3.2 GET /tlcs/<uuid>

Retrieves the TLC registration with the given "uuid".

#### 3.3.3.2.1 Request

```
GET <API base URL>/tlcs/<TLC uuid> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.3.2.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<TLC>
```

### 3.3.3.2.3 Example

```
GET api/v1/tlcs/4aa1ace8-32b0-42b6-925a-7d7a33e97859 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "4aa1ace8-32b0-42b6-925a-7d7a33e97859",
  "identifier": "tlc_0001",
  "type": "TCPStreaming",
  "domain": "test",
  "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a"
}
```

## 3.3.4 Authorizations

### 3.3.4.1 POST /authorizations

Creates an authorization.

#### 3.3.4.1.1 Request

```
POST <API base URL>/authorizations HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json

{
  "role": "<role>"
}
```

Name	Description
role	The role granted to the authorization, must be one of the predefined types: <ol style="list-style-type: none"><li>1. MONITOR_SYSTEM</li></ol>

### 3.3.4.1.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "<authorization uuid>",
  "domain": "<domain name>",
  "account": "<account uuid>",
  "role": "<role>"
}
```

Name	Description
uuid	The unique id of the created authorization
domain	The domain for which the authorization is created
account	The account for which the authorization is created
role	See request

### 3.3.4.1.3 Example

```
POST api/v1/authorizations HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json

{
  "role": "MONITOR_SYSTEM"
}
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "c6fb449f-0bea-49d3-8d39-9a4689902d99",
  "domain": "test",
  "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
  "role": "MONITOR_SYSTEM"
}
```

### 3.3.4.2 GET /authorizations

#### 3.3.4.2.1 Request

```
GET <API base URL>/authorizations HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.4.2.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

[
    <authorization>, <authorization>, ...
]
```

### 3.3.4.2.3 Example

```
GET api/v1/authorizations HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "uuid": "98a6890d-589d-43d4-bdff-3165425736d8",
    "domain": "test",
    "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
    "role": "MONITOR_SYSTEM"
  },
  {
    "uuid": "cd3e0ac6-4718-4f0e-8195-82e0c92e8cb6",
    "domain": "test",
    "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
    "role": "MONITOR_SYSTEM"
  }
]
```

### 3.3.4.3 GET /authorizations/<uuid>

Retrieves the authorization with the given "uuid".

#### 3.3.4.3.1 Request

```
GET <API base URL>/authorizations/<authorization uuid> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.4.3.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<authorization>
```

### 3.3.4.3.3 Example

```
GET api/v1/authorizations/c6fb449f-0bea-49d3-8d39-9a4689902d99 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "c6fb449f-0bea-49d3-8d39-9a4689902d99",
  "domain": "test",
  "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
  "role": "MONITOR_SYSTEM"
}
```

### 3.3.4.4 PUT /authorizations/<uuid>

Updates the authorization with the given "uuid".

#### 3.3.4.1 Request

```
PUT <API base URL>/authorizations/<authorization uuid> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json

<authorization>
```

#### 3.3.4.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<authorization>
```

### 3.3.4.3 Example

```
PUT api/v1/authorizations/c6fb449f-0bea-49d3-8d39-9a4689902d99 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json

{
  "domain": "test",
  "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
  "role": "MONITOR_SYSTEM"
}
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "c6fb449f-0bea-49d3-8d39-9a4689902d99",
  "domain": "test",
  "account": "80b142ab-88e8-4600-9a86-8807c19b1b2a",
  "role": "MONITOR_SYSTEM"
}
```

### 3.3.4.5 DELETE /authorizations/<uuid>

Removes the authorization with the given "uuid".

#### 3.3.4.5.1 Request

```
DELETE <API base URL>/authorizations/<authorization uuid> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.4.5.2 Response

```
HTTP/1.1 204 No Content
```

### 3.3.4.5.3 Example

```
DELETE api/v1/authorizations/c6fb449f-0bea-49d3-8d39-9a4689902d99 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 204 No Content
```

## 3.3.5 Authorizationtokens

### 3.3.5.1 POST /authorizationtokens

Creates an authorization token.

#### 3.3.5.1.1 Request

```
POST <API base URL>/authorizationtokens HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json

{
  "authorization": "<authorization uuid>"
}
```

Name	Description
authorization	The unique id of the authorization for which the authorization token will be created

#### 3.3.5.1.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "<authorization token uuid>",
  "token": "<token>",
  "authorization": "<authorization uuid>"
}
```

Name	Description
uuid	The unique id of the created authorization token
token	The token that can be used to perform API calls
authorization	The unique id of the authorization to which the token belongs

### 3.3.5.1.3 Example

```
POST api/v1/authorizationtokens HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json

{
  "authorization": "c6fb449f-0bea-49d3-8d39-9a4689902d99"
}
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "1040b7e5-6a72-4370-8b70-cbe08cc8fee3",
  "token": "cNjf5zQgV51YWG9Wf1vYF1awDB0EhwEzkfCtk8SBkw",
  "authorization": "c6fb449f-0bea-49d3-8d39-9a4689902d99"
}
```

### 3.3.5.2 GET /authorizationtokens

Retrieves all authorization tokens

#### 3.3.5.2.1 Request

```
GET <API base URL>/authorizationtokens HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.5.2.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

[
    <authorization token>, <authorization token>, ...
]
```

### 3.3.5.2.3 Example

```
GET api/v1/authorizationtokens HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "uuid": "aebd94b2-8eb7-4ba4-8414-d9c6c623cc63",
    "token": "oEsyc4McjhHB7p98_VAuggu-w8c6FTLJia1ewZsK2BE",
    "authorization": "c6fb449f-0bea-49d3-8d39-9a4689902d99"
  },
  {
    "uuid": "7ced02c2-9384-4d17-9032-9dbaa3f16805",
    "token": "_lZteZcPTSKaHqtgrqPqp7yFl03SMx1F0_eJT5-c6cY",
    "authorization": "98a6890d-589d-43d4-bdff-3165425736d8"
  },
  {
    "uuid": "1040b7e5-6a72-4370-8b70-cbe08cc8fee3",
    "token": "cNjf5zQgV51YWG9Wf1vYF1awdDB0EhwEzkfCtk8SBkw",
    "authorization": "c6fb449f-0bea-49d3-8d39-9a4689902d99"
  }
]
```

### 3.3.5.3 GET /authorizationtokens/<uuid>

Retrieves the authorization token with the given "uuid".

#### 3.3.5.3.1 Request

```
GET <API base URL>/authorizationtokens/<authorization token uuid> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.5.3.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<authorization token>
```

### 3.3.5.3.3 Example

```
GET api/v1/authorizationtokens/1040b7e5-6a72-4370-8b70-cbe08cc8fee3 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
    "uuid": "1040b7e5-6a72-4370-8b70-cbe08cc8fee3",
    "token": "cNjf5zQgV51YWG9Wf1vYF1aWdDB0EhwEzkfCtk8SBkw",
    "authorization": "c6fb449f-0bea-49d3-8d39-9a4689902d99"
}
```

### 3.3.5.4 PUT /authorizationtokens/<uuid>

Updates the authorization with the given "uuid".

#### 3.3.5.4.1 Request

```
PUT <API base URL>/authorizationtokens/<authorization token uuid> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json

<authorization token>
```

#### 3.3.5.4.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json

<authorization token>
```

### 3.3.5.4.3 Example

```
PUT api/v1/authorizationtokens/1040b7e5-6a72-4370-8b70-cbe08cc8fee3 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json

{
  "authorization": "5cb0a102-cff6-4ee1-a4ae-d8300f32e785"
}
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "uuid": "1040b7e5-6a72-4370-8b70-cbe08cc8fee3",
  "token": "cNjf5zQgV51YWG9Wf1vYF1awDB0EhwEzkfCtk8SBkw",
  "authorization": "5cb0a102-cff6-4ee1-a4ae-d8300f32e785"
}
```

### 3.3.5.5 DELETE /authorizationtokens/<uuid>

Removes the authorization token with the given "uuid".

#### 3.3.5.1 Request

```
DELETE <API base URL>/authorizationtokens/<authorization token uuid> HTTP/1.1
Host: <hostname>
X-Authorization: <authorization token>
Content-Type: application/json
```

#### 3.3.5.2 Response

```
HTTP/1.1 204 No Content
```

### 3.3.5.3 Example

```
DELETE api/v1/authorizationtokens/1040b7e5-6a72-4370-8b70-cbe08cc8fee3 HTTP/1.1
Host: api.tlex.eu
X-Authorization: dtNB_vhvJ0wgTGf1N0DxN38_AmTL_4yiPRZdqZSuK3k
Content-Type: application/json
```

```
HTTP/1.1 204 No Content
```

